



SyQuest®



**230 MB Internal EIDE
Removable Cartridge Disk Drive**

Installation Guide for
PC Compatible Systems

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Thank you for buying a SyQuest removable cartridge hard drive, a truly unique combination of powerful features and performance. Our goal is to make your drive an invaluable asset for years to come, starting today. If you have questions or need assistance installing your drive, contact SyQuest at one of the numbers listed below.

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| U.S.A. | Voice: 1-800-245-CART (2278) Email: sales@syquest.com |
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| Germany | Voice: +49-89-960-7890 Fax: +49-89-960-789139 |
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| Singapore | Voice: +65-294-8484 Fax: +65-294-7277 |
| United Kingdom | Voice: +44-1491-833033 Fax: +44-1491-837900 |

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| FTP | ftp://ftp.syquest.com |
| World Wide Web | http://www.syquest.com |
| Email | support@syquest.com |
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| Singapore | Voice: +65-294-4837 Fax: +65-294-7277 |
| United Kingdom | Voice: +44-1491-833033 Fax: +44-1491-837900 |

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Safety Standards

This product meets the following national and international regulations:

- UL 1950 Standard for Safety of Information Processing and Business Equipment
- UL Standard for Safety of Information Technology
- CSA C22.2 No. 154 Data Processing Equipment
- CSA C22 No. 220 Information Processing Equipment
- IEC 435 Safety Requirements for Data Processing Equipment
- IEC 380 Safety of Electrical Energized Office Equipment
- IEC 950 Safety of Information Technology Equipment in Electrical Business Equipment
- VDE 0871/1984
- VFG 243/1991

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This equipment generates and uses radio frequency energy and, if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type-tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of the following measures:

- Reorient the antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. The booklet entitled *How to Identify and Resolve Radio-TV Interference Problems*, prepared by the Federal Communications Commission, may be helpful. This booklet, Stock No. 004-000-003454, is available from the U.S. Government Printing Office, Washington, DC 20402.

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The EZFlyer removable cartridge *disk drive* is covered by one or more of the following U.S. Patents: 4,864,437; 4,920,462; 5,400,201; 5,526,212.

The EZFlyer removable disk drive *cartridge* is covered by one or more of the following U.S. Patents: 5,218,503; 5,262,918; 5,280,403; 5,422,775; DES342,062; DES367,579.

Other U.S. Patents and other nations' patents pending.

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Using the SyQuest Utilities

SyQuest provides Windows 95, Windows 3.1x, and DOS utilities for managing EZFlyer cartridge functions such as cartridge formatting, file duplication, and back-up. Other utilities include setting write protection and locking or unlocking the cartridge.

These self-documenting utilities are automatically installed with the SyQuest device-driver software, as instructed in Chapter 3. To access the SyQuest utilities:

- Windows 95 users double-click the SyQuest Win95 Utility icon.
- Windows 3.1x users double-click the SyQuest Windows Utilities icon.
- DOS users type SQSHELL.

Note: OS/2 and Windows NT users must boot their system under DOS and run the program SQATPREP to use these utilities. This program is located on the SyQuest Installation Diskette.

EZFlyer Cartridge Features

SyQuest provides these utilities for the EZFlyer cartridge:

Write-Protect Mode: EZFlyer cartridges are shipped from the factory ready to record data (write protection disabled). Use the write-protect utility to enable or disable write protection.

Lock or Unlock: (for Windows 3.1x, OS/2, and DOS only) This feature controls the eject-button function. When locked, you must send a software Unlock command *and* depress the eject button on the EZFlyer drive to remove a cartridge.

OS/2 always locks an EZFlyer drive. Under OS/2, right-click on the EZFlyer drive icon and select Unlock to remove a cartridge.

Windows 95 and Windows NT Version 4.0 automatically lock an EZFlyer drive while writing data, and then unlock the drive after data is written.

Note: EZFlyer EIDE drives do not support Write Verify and Audio/Video modes, features that are supported by SyJet drives.

To use these utilities in Windows:

1. **Double-click SyQuest's Win95 or Windows 3.1x icon.**
2. **Click the Control button, then the EZFlyer drive letter.**
3. **Select either Set to On or Reset to Off in the Control Box.**

To use these utilities in DOS:

1. **Type SQSHELL from a DOS prompt.**
2. **Select the desired item from the menu of options.**

Managing Drive Letters Under Windows 95

When you add an EZFlyer EIDE drive to your PC, at least one new drive letter is added. Unfortunately, this drive letter may displace drive letters that had been assigned for other devices, and thereby cause problems with your applications. This Appendix gives procedures for changing drive-letter assignments when you add an EZFlyer EIDE drive to a PC with Windows 95.

Whether To Partition Cartridges

SyQuest cartridges may be either partitioned or non-partitioned.

Partitioning is a way of subdividing hard drives so that they can support multiple operating systems. A hard drive (cartridge) may be divided into zero, one, two, three, or four partitions. Although there are numerous types of partitions, Windows 95 maps any partition into one of these types:

- Non-DOS
- Primary
- Extended

Windows 95 allows zero or one primary partitions and zero or one extended partitions. A primary partition is assigned one drive letter. An extended partition may be subdivided into multiple logical volumes. Each logical volume in the extended partition is assigned one drive letter. A formatted non-partitioned SyQuest cartridge is assigned one drive letter.

Personal computers store information about their components (hard drives, diskette drives, serial/parallel ports, etc.) in their CMOS (low power consuming memory) table. SyQuest drives that are correctly defined in the CMOS table are assigned:

- One permanent (not reassignable) drive letter for each primary partition
- One permanent drive letter for each logical volume in an extended partition on the cartridge loaded in the SyQuest drive at boot time

Under Windows 95, you *cannot* change these drive letters.

Currently, all SyQuest cartridges are shipped from the factory with one primary partition. Users that need only a single drive letter for their SyQuest cartridge can do either of the following to create a reassignable drive letter for their SyQuest cartridge:

- Boot with no cartridge in the drive.

EZFlyer EIDE and SyJet EIDE drives *support* this feature. This feature is *not supported* by SyQuest 3270 or 3105 IDE drives, or by EZ135 IDE drives.

- Boot with a non-partitioned cartridge in the drive.

Creating a Non-Partitioned Cartridge

Note: Skip this section if you have an EZFlyer EIDE or SyJet EIDE drive. Boot with no cartridge in the drive. Go to the next section, “Changing a Windows 95 Drive Letter.”

Warning: This procedure will destroy all data currently on the cartridge. Prior to using this procedure, copy all data that you wish to preserve to either your hard drive or another SyQuest cartridge.

1. Install SyQuest’s Windows 95 software and bonus application software.
Do not install the software on the SyQuest cartridge.
2. Run FDISK.
 - a. Click Start, select Programs, and click on the MS-DOS prompt.
 - b. From the MS-DOS prompt, type FDISK and depress the Enter key.
 - c. Select option 5 to change the current fixed disk drive, and then select the SyQuest drive.
 - d. Use option 3 to delete the partition or logical DOS drive.
 - e. After your system restarts, double-click My Computer.
3. Right-click on the SyQuest removable drive icon, and select Format from the menu to format the cartridge.

Changing a Windows 95 Drive Letter

1. From Control Panel, double-click the System icon.
2. Click the Device Manager tab and double-click the disk-drive entry.
3. Select the entry for the EZFlyer EIDE drive, usually the entry Generic IDE Disk Type02.
4. Look in the Current Drive Letter Assignment box for the drive letter(s) assigned to the SyQuest drive.
5. Use the Reserve Drive Letter click box to change the drive letter.

Note: You must always start your EZFlyer EIDE drive with either no cartridge or a non-partitioned cartridge in the drive. If you start Windows 95 with a partitioned cartridge in the drive, your computer will assign different, permanent drive letter(s). To fix this problem, restart Windows 95 with either no cartridge or a non-partitioned cartridge in the EZFlyer drive.

Getting Started

This chapter provides an overview and describes the hardware and software you need to install an EZFlyer™ 230 MB EIDE drive. It also describes the tools you need for installation, and recommends safety practices to use.

Overview

EZFlyer EIDE drives follow the Enhanced Intelligent Drive Electronics (EIDE) standard. This standard defines an electrical interface used to attach hard drives, CD-ROMs, DVDs, or tape drives to your computer.

You can attach devices to either the primary or secondary EIDE port. Each port provides a 40-pin electrical interface. A flat two-inch (five centimeter) ribbon cable connects an EIDE device (for example an EZFlyer 230 MB drive) to the EIDE port. You can attach up to two EIDE devices to an EIDE port. Most Pentium class computers have the primary and secondary EIDE ports built into the motherboard. However, some computers use EIDE add-on cards.

Note: Non-Pentium class machines typically support the earlier IDE standard. This standard defines a single IDE port that supports the attachment of up to two IDE devices. You may attach EZFlyer EIDE drives to an IDE port.

EIDE devices must be set to either Master or Slave mode. When attaching a single device to an EIDE port, the drive must be set to Master mode. When attaching two devices to an EIDE port, one must be set to Master mode, while the other must be set to Slave mode. Some EIDE devices that are set to Master mode (for example, some models of Seagate™, Maxtor™, or Conner™ hard drives) require still a different setting when a Slave device is attached to the same cable. The master device on the primary EIDE port is usually your computer's boot device, the device that contains your computer's operating system.

Note: SyQuest EIDE drives and most CD-ROMs now support the ATAPI (Advanced Technology Attachment Packet Interface) standard. Your computer's documentation probably refers to CD-ROMs that attach to an EIDE interface as *ATAPI CD-ROMs*.

Figure 1-1 shows examples of EIDE and IDE motherboards and an IDE add-on card. EIDE controllers have both primary *and* secondary interface ports. IDE controllers have only a single interface port.

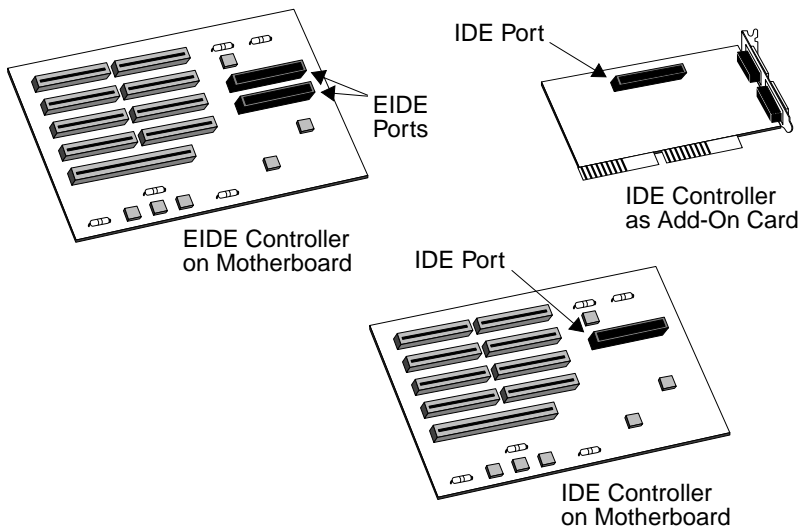


Figure 1-1 Examples of EIDE and IDE Controllers

Basic Requirements

This installation guide provides generalized procedures for installing the EZFlyer EIDE drive. The installation requires some familiarity with computer hardware and software, and typically takes one to two hours.

You *will* have to open up your computer and properly mount and attach the EZFlyer drive. You *may* have to remove or relocate your hard drive, CD-ROM, or DVD, depending on the location of these devices. These tasks require a moderate level of mechanical skill.

If you feel comfortable about performing the required tasks, please read this guide thoroughly and follow *all* of its instructions.

For Less Experienced Installers

First read this guide. Consult your authorized SyQuest reseller if:

- You feel uncomfortable about performing the required tasks.
- You begin the installation and find that your PC configuration is too difficult to tackle.

Your SyQuest reseller can give you a list of local computer-service companies that will install your SyJet EIDE drive for a fee.

For More Experienced Installers

If you are very familiar with this type of installation and wish only to have pointers to key requirements, here is a ***quick guide***:

1. **Carefully read the sections “Required Hardware” and “Required Software” in this chapter.**
2. ***If you use Windows 95, run SyQuest’s ADDIDE95 program as instructed on page 2-5.***
3. **Set the correct jumper settings as described under “Set Jumpers on EIDE Devices” on page 2-16.**

4. Use the CMOS settings given on page 2-29.
5. Find the section on your operating system in Chapter 3 and install the SyQuest device drivers and utilities.

Required Hardware

You need the following hardware to install the EZFlyer EIDE drive:

- A 386™, 486™, or Pentium™ class desktop or tower computer
- An EIDE or IDE controller (on the motherboard or as an add-on card)
- A 40-pin cable that is long enough and has a free connector for the EZFlyer EIDE drive
- An empty 5.25-inch mounting bay with compatible hardware for mounting the drive's industry-standard 5.25-inch enclosure

EZFlyer EIDE drives are shipped in industry-standard 5.25-inch enclosures. Many computers require custom mounting rails that attach to the sides of this enclosure. SyQuest cannot provide these rails, but your computer manufacturer may have already provided or may be able to provide these rails for your computer. Please contact your computer manufacturer regarding the availability of this accessory hardware.

Caution: A few computer manufacturers (for example, Dell™ and Compaq™) require special 5.25-inch mounting trays or enclosures in some of their computer models. This hardware may not allow enough space for the industry-standard 5.25-inch enclosure of the EZFlyer EIDE drive. You may not be able to install the EZFlyer EIDE drive in these machines. Please contact your computer manufacturer about any restrictions on mounting industry-standard 5.25-inch devices. Consult your authorized SyQuest reseller if you need to exchange the EZFlyer EIDE drive for another SyQuest disk drive model.

Required Software

SyQuest supports these operating systems with the EZFlyer EIDE drive:

- Windows 95 (all versions)
- Windows NT 4.0 with Service Pack2 or higher
- Windows 3.1x
- OS/2 2.1 or higher
- PC-DOS 5.0 or MS-DOS 5.0 or higher
- Novell DOS 7.0 or higher

Windows NT 3.5x supports the EZFlyer drive as a *fixed* drive only. If you use version 3.5x or an earlier version of Windows NT, you must first close all programs and shutdown Windows NT before you can remove a cartridge.

Note: EZFlyer EIDE drives do *not* work with Macintosh or notebook computers. If you have a Macintosh or notebook computer, contact your authorized SyQuest reseller for instructions on exchanging the drive for one that is compatible.

Required Tools

In addition to your computer manuals, you will need the tools shown in Figure 1-2 to install the drive.

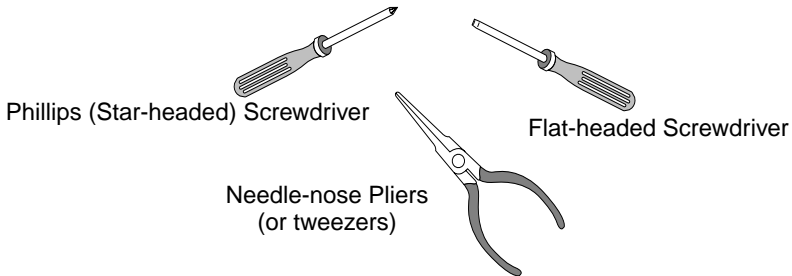


Figure 1-2 Tools Needed for Installation

Safety Practices

While working inside your computer, use caution to avoid damaging the computer or injuring yourself:

- *Always* turn off the computer and unplug the power cord.
- If you use a magnetic screwdriver, be sure to keep the screwdriver at least three inches away from diskettes and SyQuest cartridges. The magnetic field can damage disks.
- Be sure to keep all metal objects such as screwdrivers and screws away from electronic circuitry within the computer. If a screw drops into your computer, remove it immediately.
- Periodically touch the metal frame of the computer to reduce static electricity buildup. In cold, dry climates, use an electrostatic discharge wristband.

2

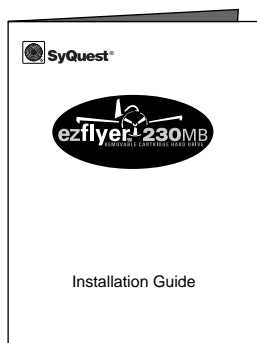
Installing the EZFlyer EIDE Drive

The following sections give instructions for installing your EZFlyer drive—from unpacking the shipping carton and preparing the hardware, to completing the hardware installation and verifying your drive's performance.

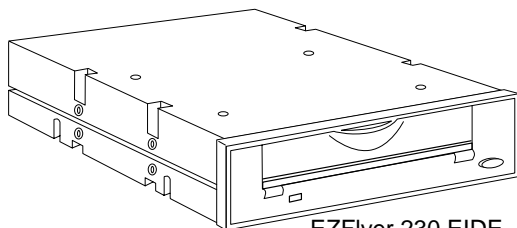
Prepare Your EZFlyer Drive

1. Unpack your EZFlyer drive.

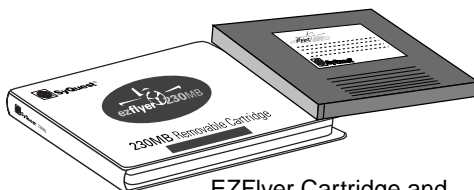
Open and inspect the shipping carton for the contents shown in Figure 2-1.



Installation Guide



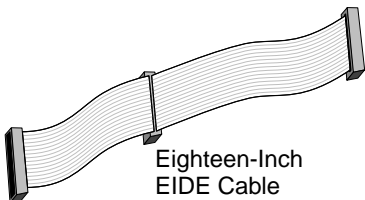
EZFlyer 230 EIDE
Cartridge Disk Drive



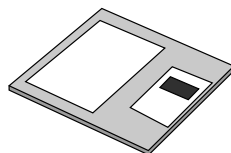
EZFlyer Cartridge and
Protective Case



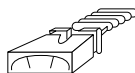
Mounting Screws



Eighteen-Inch
EIDE Cable



Installation Diskette



Jumper

Figure 2-1. EZFlyer Drive Package Contents

2. Study the parts of your EZFlyer drive.

Familiarize yourself with the features shown in Figure 2-2 and Figure 2-3:

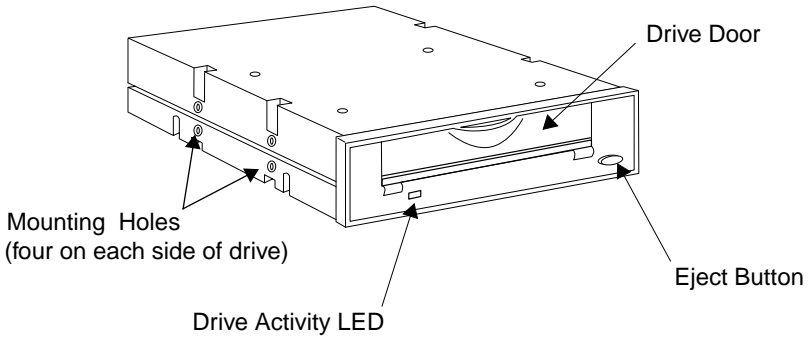


Figure 2-2. EZFlyer Drive Front View

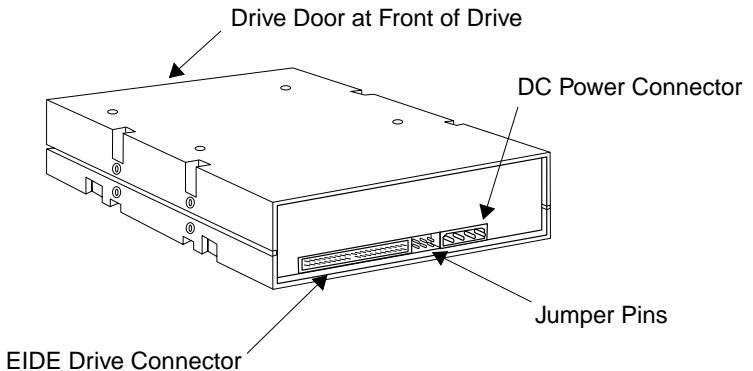


Figure 2-3. EZFlyer Drive Rear View

Prepare Your Computer

1. Inspect the outside of your computer for an unused 5.25-inch mounting bay.

Bays that are unused have removable plastic or metal covers and are located next to diskette, CD-ROM, or DVD drives.

Caution: Do *not* open your computer or remove the mounting bay cover yet.

Some computers provide both 3.5-inch and 5.25-inch mounting bays. The EZFlyer drive requires a 5.25-inch mounting bay. Figure 2-4 shows typical locations of unused 5.25-inch mounting bays.

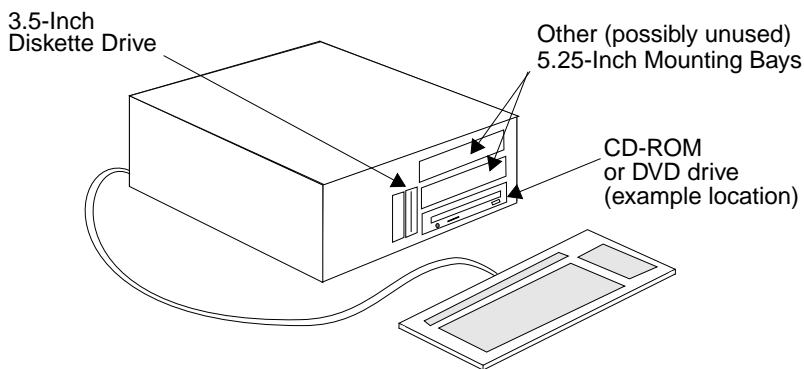


Figure 2-4. Finding an Unused Mounting Bay

If all of your 5.25-inch mounting bays are in use, you can remove a device currently using a 5.25-inch mounting bay. For example, you might remove a 5.25-inch diskette drive. Since nearly all software is currently distributed on CD-ROMs, DVDs, or 3.5-inch diskettes, 5.25-inch drives are becoming less useful. If you need help removing a diskette drive, please contact your authorized SyQuest reseller.

2. Windows 95 users: run the ADDIDE95 program.

Insert the SyQuest installation diskette into your diskette drive. From Start, select Run and type A:\ADDIDE95.EXE (or B:\ADDIDE95.EXE if B: is your 3.5-inch diskette drive letter). Press the OK button.

This program updates your SYSTEM.INI file by adding the statement `RemovableIDE=TRUE` in the subsection `[386Enh]`.

Open Up Your Computer

1. Shut down your operating system and turn off your computer.

Locate the computer's power-off button and turn off the computer. Power-off buttons vary from computer to computer. Many computers use push buttons while others use rocker switches labeled O for Off and | for On.

2. Touch the computer to discharge any electrostatic buildup.

3. Disconnect the AC power cord from the wall outlet.

4. Open your computer's case.

Caution: Once you have removed the cover, touch the metal frame of the computer to prevent electrostatic damage to the electronic components.

Most computers use several screws in the back to attach a top cover to the computer frame. The cover either lifts off or pulls off from the front. Other computers have a removable front panel that is anchored by screws or plastic tabs. Refer to your computer manual for instructions on removing the computer's cover or front panel.

Figure 2-5 shows a typical desktop PC. Figure 2-6 shows a typical tower PC.

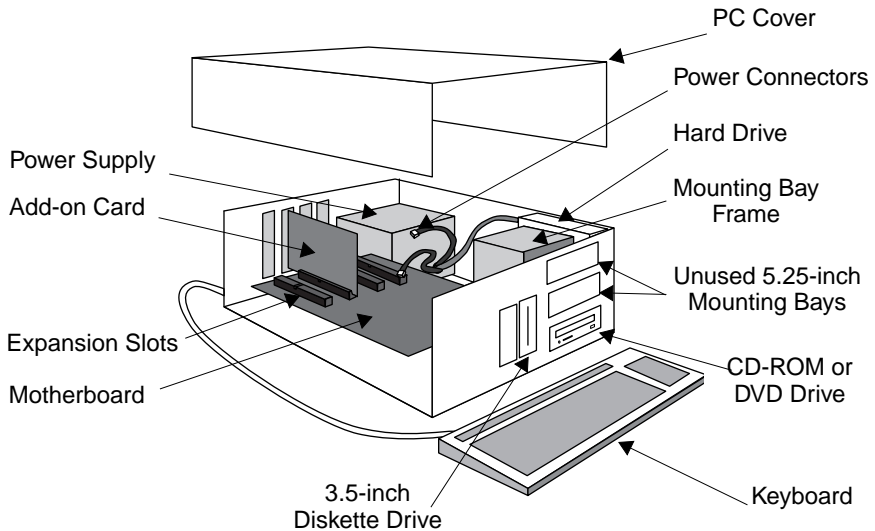


Figure 2-5. Removing the Cover of Your Computer (desktop model)

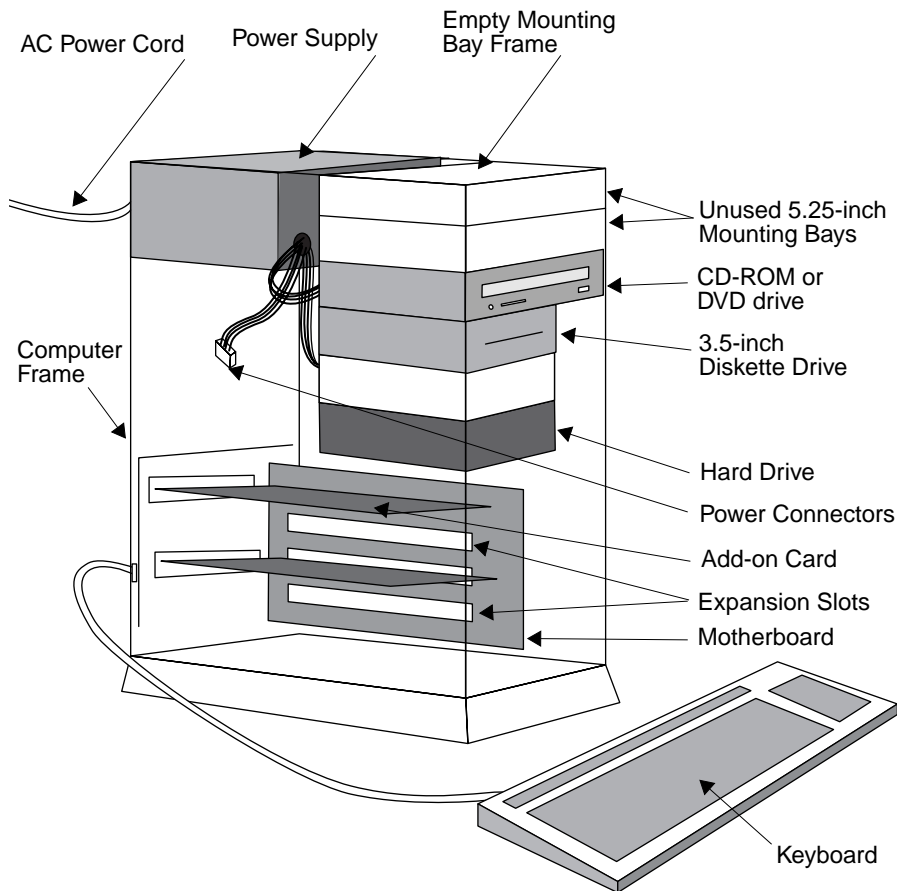


Figure 2-6. Typical Tower PC Components

Verify Your EIDE/IDE Configuration

1. Locate your EIDE hard drive.

Figure 2-7 and Figure 2-8 show the location of EIDE/IDE ports and the EIDE hard drive on typical computers. An EIDE hard drive will always be connected to your computer's power supply and to an EIDE/IDE port.

Locate your computer's hard drive and verify that it is attached with a 40-pin EIDE ribbon cable about two inches or five centimeters wide.

Note: Do not be confused by other wider or narrower ribbon cables in the computer that are used to connect other devices.

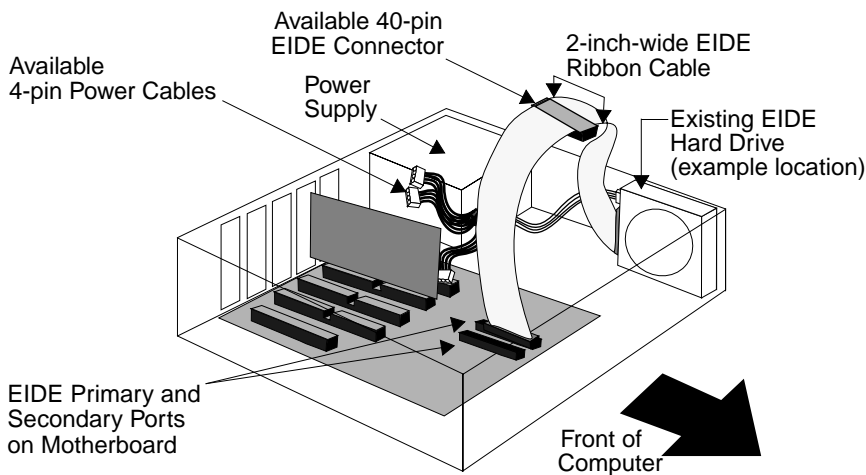


Figure 2-7. 40-pin EIDE Ribbon Cable Attached to the Computer's Motherboard

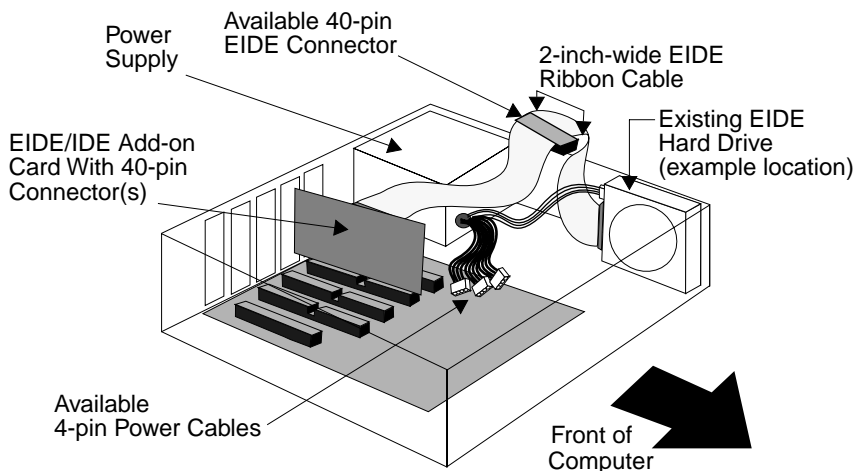


Figure 2-8. 40-pin EIDE Ribbon Cable Attached to an EIDE/IDE Add-On Card

2. Locate your EIDE/IDE controller port(s).

Follow the 40-pin EIDE cable from your computer's hard drive to the 40-pin EIDE/IDE controller port. The port connector is located on either your computer's motherboard or EIDE/IDE add-on card.

If you find two ports located side by side or one above the other, you have an EIDE controller. If you find only one port, you have an IDE controller. Figure 1-1 on page 1-2 shows enlarged views of EIDE and IDE motherboards and an IDE add-on card.

Note: Some computers use only SCSI (Small Computer System Interface) controllers for attaching drives. SCSI controller ports have either 50-pin or 68-pin connectors for attaching ribbon cables. A 50-pin ribbon cable is about 2.5-inches wide. If your computer supports only a SCSI interface, please exchange your EZFlyer EIDE drive for an EZFlyer 230MB Portable (external) SCSI drive.

3. Locate all devices attached to your EIDE/IDE port(s).

If your PC has an EIDE CD-ROM or DVD drive, you may find that it is attached to the same ribbon cable as your hard drive. Or, the CD-ROM or DVD drive may be attached to a secondary EIDE port. Also, you may find other attached EIDE devices such as another hard drive or a tape drive.

Please fill in Table 2-1. Your computer's boot drive is usually the master device on the primary EIDE cable. If you find only one device on an EIDE cable, it is always the master device.

Table 2-1 Existing EIDE Devices in Your Computer

| Existing Configuration | Master Device | Slave Device |
|---|---------------|--------------|
| Primary EIDE Port (or Single IDE Port) | | |
| Secondary EIDE Port | | |

Note: If you already have two devices attached to an IDE port, you must either remove one of the existing devices, or purchase a replacement EIDE controller (or add-on IDE controller). Please consult your authorized SyQuest reseller for guidance.

Decide Where To Install the Drive

EZFlyer EIDE drives may be installed as either a master or a slave drive on any EIDE or IDE port. Typical configurations include installing the EZFlyer drive as:

- The master drive on the secondary EIDE port
- The slave drive to your hard drive on the primary EIDE port
- The slave drive to a master device on a secondary EIDE port

The physical location of your computer's unused mounting bay(s), its hard drive(s), other EIDE devices, and your computer's CMOS Set up program determine how and where to install the EZFlyer EIDE drive. Please refer to Table 2-1 and match your existing configuration to one of the five cases that follow.

| Case 1 | Master Device | Slave Device |
|---|-----------------|--------------|
| Primary EIDE Port (or Single IDE Port) | Your Boot Drive | Empty |
| Secondary EIDE Port | Empty | Empty |

Case 1. If your operating system is Windows 95, Windows NT, or OS/2, SyQuest recommends that you install the EZFlyer drive as the master drive on the secondary EIDE cable. If you have an IDE controller, or if your operating system is Windows 3.1x, SyQuest recommends that you install the EZFlyer drive as the slave device to your hard drive.

Windows 3.1x supports 32-bit access only on the primary EIDE port. If you install the EZFlyer drive on the secondary port, you will probably have to use 16-bit access, resulting in slower performance.

| Case 2 | Master Device | Slave Device |
|---------------------|-----------------|---------------|
| Primary EIDE Port | Your Boot Drive | CD-ROM or DVD |
| Secondary EIDE Port | Empty | Empty |

Case 2. Install your EZFlyer drive as the master drive on the secondary EIDE cable.

If you are using Windows 3.1 and wish to use 32-bit access, you must remove your CD-ROM or DVD drive from the primary EIDE cable, change its jumper settings to Master, and install it on the secondary EIDE cable. Then install the EZFlyer drive as the slave drive on the primary EIDE cable.

| Case 3 | Master Device | Slave Device |
|---|-----------------|--------------|
| Primary EIDE Port (or Single IDE Port) | Your Boot Drive | Empty |
| Secondary EIDE Port | CD-ROM or DVD | Empty |

Case 3. SyQuest recommends that you install the EZFlyer drive as the slave device to your boot drive. If the distance between your boot drive and the available mounting bay is greater than 8 inches (20 centimeters), you may have to install the EZFlyer drive on the secondary EIDE cable.

Most computer BIOS' that are currently being shipped support the installation of an EZFlyer EIDE drive as the slave device to a CD-ROM or DVD drive. Most computers built before 1996 require that you install the EZFlyer EIDE drive as the master device on the secondary EIDE port. In this case, you must change the CD-ROM or DVD drive to a slave device.

| Case 4 | Master Device | Slave Device |
|---------------------|-----------------|---------------------|
| Primary EIDE Port | Your Boot Drive | Another EIDE Device |
| Secondary EIDE Port | CD-ROM or DVD | Empty |

or

| | | |
|---------------------|---------------------|---------------------|
| Primary EIDE Port | Your Boot Drive | Empty |
| Secondary EIDE Port | Another EIDE Device | Another EIDE Device |

Case 4. Install your EZFlyer drive as the slave device on the EIDE port that does not have a slave device already installed. If the master device on the secondary port is a CD-ROM or DVD drive, SyQuest recommends that you install the EZFlyer drive as the master device on the secondary EIDE port and change the CD-ROM or DVD drive to a slave device.

Computers built before 1996 did not support hard drives as slave devices to a CD-ROM or DVD drive. Most computers now being manufactured do not have this limitation.

| Case 5 | Master Device | Slave Device |
|---------------------|---------------------|---------------------|
| Primary EIDE Port | Your Boot Drive | Another EIDE Device |
| Secondary EIDE Port | Another EIDE Device | Another EIDE Device |

or

| | | |
|-----------------|-----------------|---------------------|
| Single IDE Port | Your Boot Drive | Another EIDE Device |
|-----------------|-----------------|---------------------|

Case 5. You have no space available for mounting the EZFlyer drive. You must either remove a current device and replace it with the EZFlyer EIDE drive, or update your computer's hardware.

If you have an IDE controller, you may wish to replace it with an EIDE controller. Please consult your authorized SyQuest reseller for additional guidance (for example, on the alternative use of SyQuest SCSI or Parallel Port drives).

Prepare the Mounting Bay and Cabling

You are now ready to begin installing your EZFlyer EIDE drive. If you have multiple unused 5.25-inch mounting bays and plan to share the interface cable with another EIDE device, select the unused mounting bay closest to the shared device.

1. Remove the mounting-bay cover from the unused 5.25-inch mounting bay.

You can only mount the drive horizontally. Do *not* mount the drive upside down. Remove the blank plastic or metal mounting-bay cover from the cover (or front panel) of your computer. Some covers are held in place by screws, while others use plastic tabs.

2. Install an 18-inch EIDE ribbon cable if needed.

Most computer systems with an EIDE controller already include one or two EIDE cables with three connectors and of sufficient length. If your computer is an exception, SyQuest has provided an 18-inch EIDE cable that has three connectors, as shown in Figure 2-9.

Note: Eighteen inches is the maximum length permitted by the EIDE standard. It provides connectors for attaching two EIDE devices to an EIDE port.

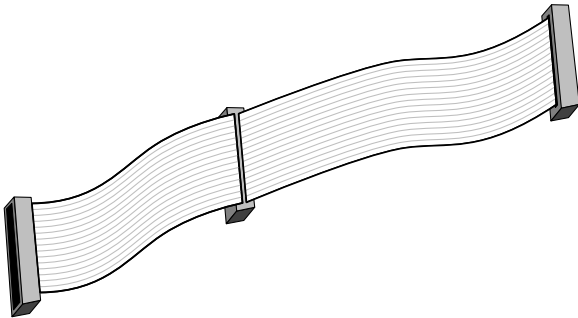


Figure 2-9. Eighteen-inch EIDE Cable With Three Connectors

Install the 18-inch EIDE cable provided by SyQuest if one of these situations applies:

- You are installing the EZFlyer drive as the master device on the secondary EIDE port. No cable is currently attached to the secondary port. (Use step d of the following procedure.)
- You are installing the EZFlyer drive as the slave device on an EIDE cable. The existing cable has only two connectors, or the cable is too short to reach both the EZFlyer drive and the master EIDE device. (Use the following procedure.)

To replace an existing EIDE ribbon cable:

a. Locate the existing cable.

Note the orientation of the striped or colored edge (pin 1) of the cable relative to the 40-pin connector on the EIDE controller.

b. Undo the existing cable from the EIDE controller port.

c. Fold the new cable in half lengthwise so that the two ends touch.

Observe that one half of the ribbon cable has two 40-pin connectors, while the other half has only one 40-pin connector (at its end).

d. Attach the end of the new cable that has one 40-pin connector to the appropriate EIDE or IDE controller port.

Be sure to attach the striped edge of the ribbon cable to pin 1 of the 40-pin connector of the EIDE or IDE controller. Check that the orientation matches the orientation you noted in step a. If you are still unsure of the correct orientation, see Figure 2-14 on page 2-22.

e. Locate the master device attached to the other end of the existing cable.

Observe the orientation of the striped edge (pin 1) of the cable relative to the 40-pin connector on the master EIDE device.

f. Remove the existing cable from the master EIDE device.

g. Connect either of the two available 40-pin connectors on the new cable to the master EIDE device.

Be sure to attach the striped edge (pin 1) of the cable to pin 1 of the EIDE device.

Note: Do not attach the EZFlyer drive yet. You must first set jumpers on the EIDE devices and properly mount the EZFlyer drive.

Set Jumpers on EIDE Devices

You may need to reset the Master/Slave jumper on the EZFlyer EIDE drive, and also the jumpers on your existing EIDE devices.

Jumpers are commonly used by manufacturers to control hardware settings:

- A jumper is set to On position when it connects two jumper pins in different rows.
- A jumper is set to Off position when it does not connect two jumper pins (that is, when it is attached to one pin only).

Note: Never connect two jumper pins in the same row—always connect pins in different rows, as shown in Figure 2-10.

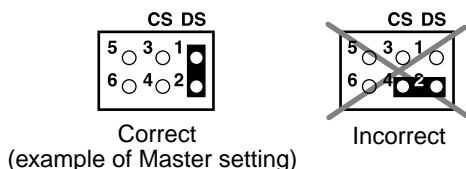


Figure 2-10. Using the Jumper Pins Correctly

1. Set the EZFlyer EIDE drive to either Master or Slave.

To set the EZFlyer drive to Master, use a jumper to connect the master/slave pin set (pins 1 and 2).

To set the EZFlyer drive to Slave, place the jumper on only one pin of the master/slave pin set (or remove it entirely). This is the default setting (*no jumper installed*) when the EZFlyer EIDE drive is shipped.

Figure 2-11 shows the correct pins to connect to set the EZFlyer drive to Master, Slave, or Cable Select.

Caution: Do not use jumper pins identified as *factory reserved* in Figure 2-11. This could cause erratic drive behavior, including loss of data.

SyQuest recommends using the master/slave pin set for setting the EZFlyer EIDE drive to Master or Slave. Some PCs support Cable Select as an alternative way of setting drives to Master or Slave. However, the Cable Select setting requires special hardware and a special installation procedure, and is therefore not recommended for end users. Refer to your PC's documentation for additional details.

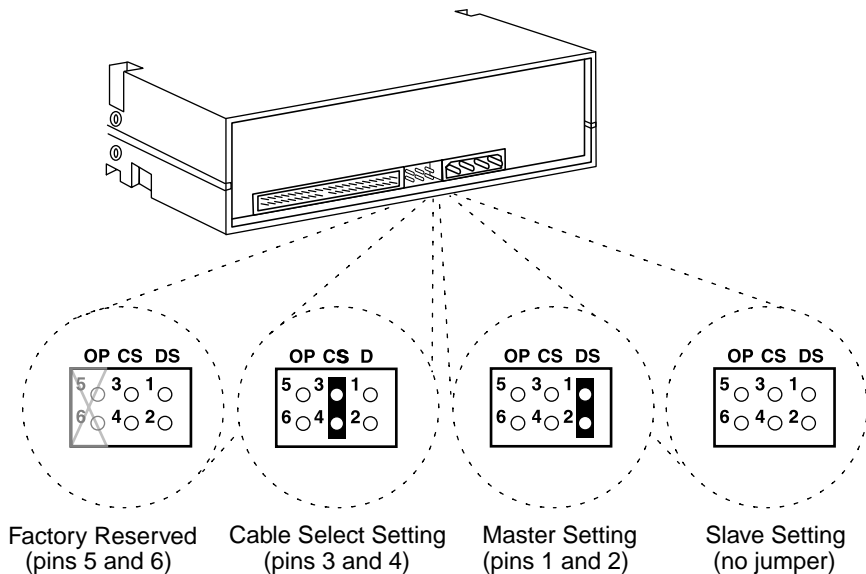


Figure 2-11. Jumper Positions on the EZFlyer Drive (rear view)

2. Set the jumper pins on your existing EIDE devices.

Note: Skip this section if you are installing the EZFlyer EIDE drive as the only device on an EIDE cable.

If you are installing the EZFlyer EIDE drive as the *slave* device to a hard drive, you may need to change the jumper settings on your hard drive. Many hard drives built by Seagate™, Maxtor™, and Conner™ prior to 1996 use a special jumper-pin setting to tell the drive that a slave device is also attached to the cable. Please refer to the manufacturer's documentation, Web site, or fax-on-demand number for more information.

Note: Always record the current location of the jumpers on your existing hard drive *before* changing the position of any of the jumpers.

To change the jumper-pin setting of your existing hard drive, usually you need to remove the drive from its mounting bay. Be sure to record the orientation of the striped or colored edge of the EIDE cable to the drive's 40-pin connector.

Some manufacturers use special screws to mount their drives. If you have difficulty, please call your computer manufacturer's technical support specialists or use their Web site for guidance.

If you are installing the EZFlyer EIDE drive as the *master* device to a CD-ROM or DVD drive that had previously been set to Master, change the setting of the CD-ROM or DVD drive to Slave. Most CD-ROMs provide documentation on the outside of the drive describing how to set Master and Slave modes. Otherwise, please refer to the manufacturer's documentation, Web site, or fax-on-demand number for more information.

Note: Some computer BIOS' require that you always install CD-ROM or DVD drives as slave devices to hard drives. To avoid any problem with these computer BIOS', SyQuest recommends that you always install your EZFlyer EIDE drive as the master device to a CD-ROM or DVD drive.

Mount the EZFlyer Drive in the Bay

Under “Prepare the Mounting Bay and Cabling” on page 2-13, you chose a 5.25-inch mounting bay for installing the EZFlyer drive and removed the mounting bay cover. Now use the procedure that follows to mount the drive.

1. Slide the EZFlyer drive directly into the bay and verify that the selected cable reaches.

Insert the drive through the front opening of the mounting bay. Position the drive and verify that the cable you selected for attaching the EZFlyer drive reaches the interface connector at the back of drive.

Note: Do *not* attach the interface cable at this time unless you will be unable to reach the back of the drive after it is fully mounted.

If the cable does not reach, you must either relocate other EIDE devices, or use another mounting bay. Go back to “Decide Where To Install the Drive” on page 2-10 if you must install the EZFlyer drive on another EIDE cable.

2. Verify that the EZFlyer’s 5.25-inch enclosure fits in your 5.25-inch mounting bay.

Your EZFlyer drive is shipped in an industry-standard 5.25-inch enclosure. Mounting bay sizes vary, depending on the computer manufacturer:

- You may need to attach rails to the drive’s enclosure to secure it to your computer’s 5.25-inch bay. These rails are sometimes provided as accessories with your computer. If not, please contact your computer manufacturer to obtain the appropriate rails.
- You may need to remove the front faceplate of your computer, or remove other mounting hardware. Refer to your computer’s documentation for additional guidance.

Note: A few computer manufacturers (for example, Dell™ and Compaq™) require special 5.25-inch mounting trays or enclosures in some of their computer models. This hardware may not allow enough space for the industry-standard 5.25-inch enclosure of the EZFlyer EIDE drive. You may not be able to install the EZFlyer EIDE drive in these machines. Please contact your computer manufacturer about any restrictions on mounting industry-standard 5.25-inch devices. Consult your authorized SyQuest reseller if you need to exchange the EZFlyer EIDE drive for another SyQuest disk drive model.

3. Screw the EZFlyer drive to the mounting bay.

See Figure 2-12. Use the four machine screws provided in a plastic bag by SyQuest. Using two screws on each side, attach the drive to the 5.25-inch mounting bay, or to the special rails or tray that you install as needed. Do *not* fully tighten the screws just yet.

4. Align the front of the EZFlyer drive assembly with the other devices and tighten all screws.

If you need to use rails or a tray, be sure to secure this hardware in your computer. Be careful not to overtighten the four machine screws. As soon as you feel resistance, stop tightening.

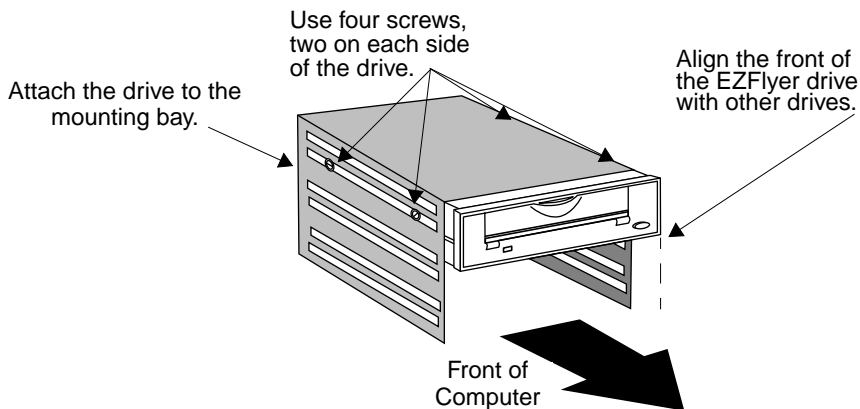


Figure 2-12. Mounting the Drive in a 5.25-inch Mounting Bay

Connect the Cables

1. Connect your EZFlyer drive to the EIDE ribbon cable.

Under “Decide Where To Install the Drive” on page 2-10, you determined an appropriate EIDE/IDE port for the EZFlyer drive. Later, under “Prepare the Mounting Bay and Cabling” on page 2-13, you installed a new 18-inch EIDE cable if needed.

Now select a free 40-pin connector on the chosen EIDE cable and attach it to the EZFlyer drive. Be sure that the striped edge of the EIDE cable attaches to pin 1 of the drive as shown in Figure 2-13.

If you already installed an 18-inch cable, and you still cannot reach the EZFlyer drive, try switching the devices on the EIDE cable. You can attach a master device, slave device, and the EIDE/IDE controller port in any order to the connectors on the cable.

If you are still unable to connect all the devices, you will need to move other EIDE devices or your diskette drive. Consult your authorized SyQuest reseller for additional guidance.

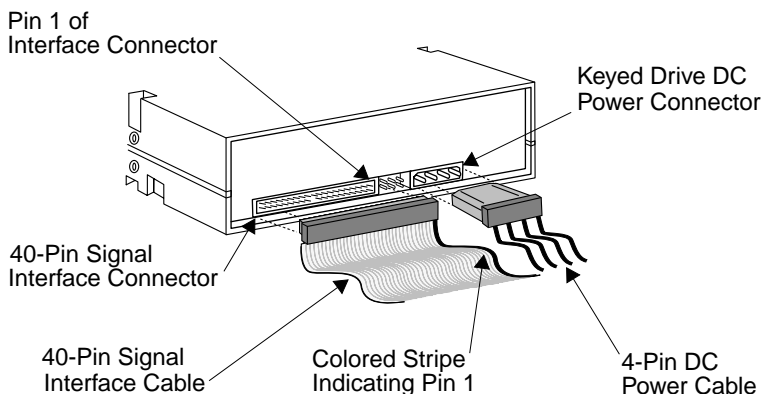


Figure 2-13. Close-up View of Cables Connected to the EZFlyer Drive

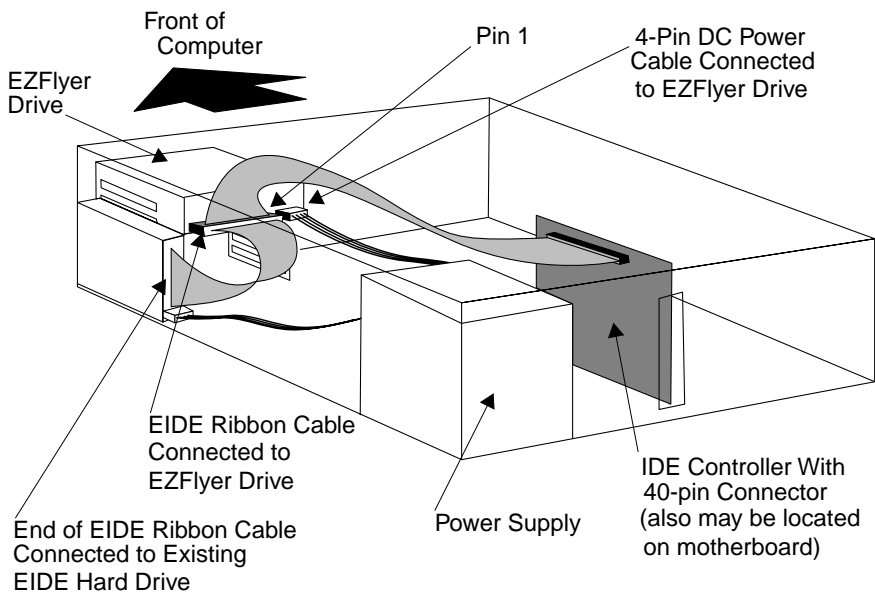


Figure 2-14. Connecting the Cables

2. Connect a 4-Pin DC power connector to the EZFlyer drive.

Locate an unused 4-pin DC power connector. Power cables are attached to the computer's power supply and have rectangular end connectors. Two corners of the connector are angled so that it can be attached in only one orientation, as shown in Figure 2-15.

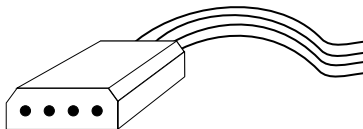


Figure 2-15. DC Power Connector (end view)

If there are no available 4-pin DC power connectors in your computer, you can purchase a Y power adapter from your computer reseller. A Y power adapter converts a single 4-pin DC power connector into two 4-pin DC power connectors. See Figure 2-16.

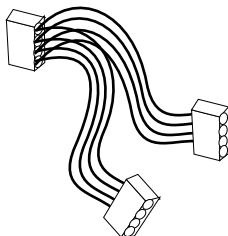


Figure 2-16. Y Power Adapter

Thread the power cable through the bay, and attach it to the EZFlyer drive as shown in Figure 2-14.

Note: If you need to disconnect a DC power cable at some point, hold onto the cable connector and not the wires when pulling it free. Some connectors fit very tightly on DC power pins.

3. Check that all cables are attached securely.

Make sure that you did not loosen any cables to the EZFlyer drive or other devices, and make sure no screws are left in the computer.

Close Up Your Computer

1. Replace the computer's cover and reattach any screws that secure the cover.

Verify that the EZFlyer drive door opens and closes easily.

2. Reconnect the power cord to your computer.

Verify Your EZFlyer Drive Installation

1. Fully insert an EZFlyer cartridge into the EZFlyer drive.

Position the cartridge as shown in Figure 2-17, and open the drive door using your finger or the front end of the cartridge.

Note: The drive reads, writes, and formats only EZFlyer 230 and EZ135 cartridges. The EZFlyer drive *cannot* read, write, or format any other SyQuest cartridges.

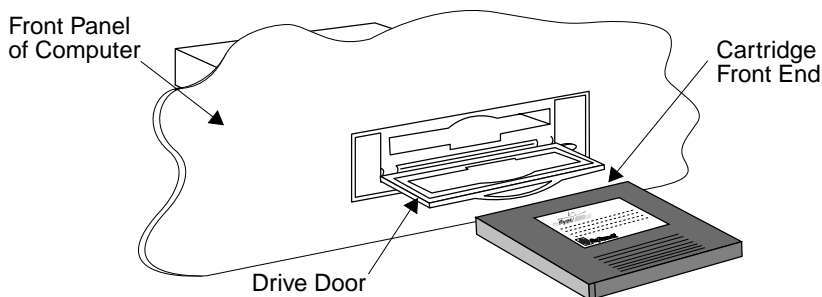


Figure 2-17. Positioning the Cartridge and Opening the Drive Door (installed view)

Slide the cartridge all the way into the drive. Then press down on the cartridge to ensure that the cartridge seats in place. See Figure 2-18.

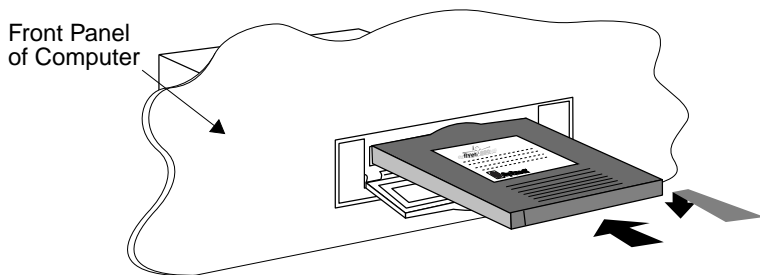


Figure 2-18. Inserting the Cartridge (installed view)

Note: If you remove or eject the cartridge, you must pull it out halfway or more in order to re-insert it. This feature prevents partial insertion.

2. Turn on your computer.

If the EZFlyer drive was properly installed, it will spin up the cartridge and the Drive Activity LED will flicker, turn yellow, and finally glow green. The glowing green LED indicates that the cartridge has been properly inserted and that the drive is ready.

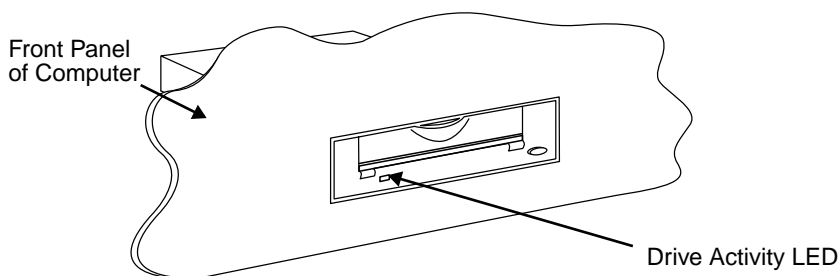


Figure 2-19. Observing the Drive Activity LED (installed view)

Caution: Your SyQuest PC-formatted cartridge contains essential installation software that will be lost if you reformat it. Prior to installing SyQuest EIDE software, do *not* format the EZFlyer cartridge using FDISK, FORMAT, Disk Administrator, or similar command function or program. However, if you do lose this installation software, you may download it from SyQuest's Web page at <http://www.syquest.com>, FTP site at <ftp://ftp.syquest.com>, or the Bulletin Board at (510) 656-0473.

- If your computer appears to start up normally, go to Chapter 3, "Installing the SyQuest EIDE Software."
- If your computer reports a BIOS error, go to the next section, "Troubleshooting."
- If your computer hangs (does not start your operating system), or reports a hard disk configuration error after a long delay, go to the next section, "Troubleshooting."

Troubleshooting

To troubleshoot your EZFlyer EIDE installation, first turn off your computer, disconnect the AC power cord from the back of your computer, and then remove its cover once again.

1. Verify all cabling.

Verify that the striped or colored edge of the EIDE cable attaches to pin 1 of the EIDE devices and the EIDE controller port. For most EIDE devices, the striped edge of the cable should be nearest to the DC power connector.

Make sure that all ribbon-cable connectors fully engage forty pins and that no pins are bent. Make sure that all power connectors to the EIDE devices are fully seated.

2. Verify all jumper settings for Master, Slave (and for many hard drives, Slave Present) EIDE devices.

If you have only one device on an EIDE cable, it must be set to Master. Refer to the documentation that came with your EIDE device for instructions on setting the device to Master.

If there are two devices on an EIDE cable, one must be set to Master and the other to Slave.

Finally, if you are attaching a slave device to a hard drive, verify the jumper pin settings on the hard drive. Many hard drives require different jumper settings when attaching a slave device, than when the hard drive is set to Master with no slave attached. Refer to documentation that came with the hard drive, look up the settings on the manufacturer's Web site, or contact the manufacturer's technical support group for additional guidance.

3. After verifying all cabling and jumper settings, put the cover back on your computer and reconnect its AC power cord.

4. Update Your Computer's CMOS Disk Settings

Your computer keeps records of EIDE devices in battery-powered CMOS (low power consuming memory). You may need to manually update these tables, especially when using Windows 95 or Windows NT, if your computer's CMOS Setup program does not automatically detect and update CMOS tables for EIDE device changes.

Computer manufacturers use several different methods for updating CMOS, including diskettes or a separate partition on your hard disk for storing CMOS Setup programs. The most common methods are given here. Refer to your computer's reference manual if you cannot use these methods. Refer to your EIDE controller manual if you are installing an EZFlyer EIDE drive on the secondary channel of an EIDE controller.

a. Turn on your computer and start the CMOS setup.

You may see a message stating that you must use specific keystrokes to enter Setup. The most common keystrokes follow:

| Keystroke | BIOS Manufacturer |
|--------------------|--------------------------|
| | AMI |
| <Ctrl><Alt><Esc> | Phoenix |
| <Ctrl><Alt><Ins> | Several Manufacturers |
| <Ctrl><Alt><S> | Award |
| <Esc> | Several Manufacturers |
| <F1> | Phoenix, AMI |
| <F2> | Phoenix |
| <Ctrl><Alt><Enter> | Phoenix |

On some systems you will only have a few seconds to enter these keystrokes. Turn your computer off then on if you failed to enter the keystrokes in the allotted time period.

Upon entering the Setup program, go to step b. If you do not see a Setup message, your computer probably uses a hardware configuration program that is run from a diskette. Most IBM™ computers use this method. Refer to your computer's reference manual for setting disk drive CMOS.

Note: If you are unable to start the CMOS Setup program with any of the keystrokes listed in the previous table, press the space bar continuously while the system boots. This usually displays an error message that prompts you to run the Setup program.

b. Select the screen that allows you to change hard drives.

Most Setup programs have cautions about changing system settings. Continue through these screens until you find the screen that allows you to change hard drive settings. This screen is often called STANDARD SETUP or CMOS SETUP.

c. Locate the entry for the EZFlyer EIDE hard drive.

- To set the EZFlyer EIDE drive as the Slave drive on the primary EIDE cable (the way that most EIDE drives are installed), locate the second hard-drive entry in the CMOS table (often Drive D: or Drive 1:).
- To set the EZFlyer EIDE drive as the Master drive (boot drive) on the primary EIDE cable, locate the first drive entry in the CMOS table (often Drive C: or Drive 0:).
- To set the EZFlyer EIDE drive as the master drive on the secondary EIDE cable, select the third drive entry (often Drive 3 or Master on secondary).
- To set the EZFlyer EIDE drive as the slave drive on the secondary EIDE cable, select the fourth drive entry (often Drive 4 or Slave on secondary).

Note: When installing an EZFlyer EIDE drive as the boot drive, you must install the operating system on the EZFlyer cartridge. You need to have Operating System installation diskettes ready. Also, you need to verify that your computer permits booting from diskette drive A: . Many computers set these parameters as part of their Advanced BIOS options. Be sure to update your CMOS settings to enable booting from diskette drive A: .

d. Update the CMOS entry.

Today, most CMOS setup programs automatically detect and update CMOS table entries when a new drive is added. Earlier setup programs required that this be done manually. Still other programs give you the option of doing this automatically or manually.

EZFlyer EIDE drives have 880 cylinders, 16 heads, and 32 sectors. If your CMOS setup program automatically detects the correct values for a newly installed drive, or has an automatic IDE drive detection option, use this feature. It should set these values for the CMOS parameters:

- **Logical Block Addressing (LBA) mode:** No
- **Multiple sector read/write:** 2, 4, 6, 8 or 16 sectors at a time
- **Fast Programmed I/O mode:** 0, 1, 2, or 3
- **Cylinders:** 880
- **Heads:** 16
- **Sectors per track:** 32

Note: SyQuest drives ignore Write Precomp and Landing Zone entries. You may enter any valid number for these parameters.

If your CMOS setup program *autodetects* different values, use the program's user definable mode or manual mode to enter the correct values. The following table shows the user-definable numbers for several BIOS manufacturers:

| BIOS | Version | User-Definable Type |
|-------------|----------------|----------------------------|
| AMI | 1991 or later | 47 |
| Award | 1991 or later | 48 or 49 |
| Mr. BIOS | 1991 or later | 46 or 47 |
| Phoenix | All | 48, 49, or USER CONFIG |

e. Save the settings and exit the CMOS setup program.

Follow the instructions on the screen for saving the values and exiting the setup program.

5. After setting the CMOS parameters, reboot your computer.

Windows 95 and Windows NT 4.0 users should see a new removable disk icon for the EZFlyer drive added to the My Computer group. If you do not see a new removable disk icon, run the wizard Add New Hardware as follows:

a. Click Start.

b. Move you mouse cursor to Settings and click Control Panel.

c. Double-click on Add New Hardware and click Next.

d. Click the Yes, Recommended radio button and click Next.

The wizard Add New Hardware will search for the EZFlyer drive and add it to the Windows 95 or Windows NT registry. Upon restarting your computer, you should now see a removable hard disk icon for the EZFlyer drive added to the My Computer group.

6. If you still have problems, please follow these steps:

- a. Visit our Web site at <http://www.syquest.com> for more technical documentation and frequently asked questions.
- b. If you still need assistance, contact SyQuest Technical Support at (510) 226-5400.

Installing the SyQuest EIDE Software

This chapter gives instructions for installing your SyQuest EIDE software. The SyQuest EIDE software includes device drivers and utilities for the drive and cartridge.

You need both the EZFlyer cartridge and the SyQuest Installation Diskette to complete this simple procedure. The installation diskette reads essential information from the EZFlyer cartridge during software installation.

Make sure the EZFlyer cartridge is fully inserted in the drive, as instructed on page 2-24. *Fully inserted* means that you have pushed the cartridge all the way into the drive and down.

Note: If you have reformatted your EZFlyer cartridge or lost the installation diskette, you may download the latest software from SyQuest's Web site, FTP site, or Bulletin Board. Find the addresses and phone numbers you need at the front of this guide.

Now find the section for your operating system and follow those steps. When you have completed the installation, see Appendix A, "Using the SyQuest Utilities" for more information.

Note: When you install *any* EIDE device (including your SyQuest drive) one or more of your existing drive letters may be reassigned. This can cause problems with local paths and with network drive assignments. You can control these assignments by changing the order in which your computer assigns letters to your drive partitions. See Appendix B, “Managing Drive Letters Under Windows 95,” for more information.

Windows 95

1. **Click Start, then select Settings and choose Control Panel.**
2. **In the Control Panel window, double-click the Add/Remove Programs icon.**
3. **Insert the SyQuest installation diskette into your diskette drive.**
Verify that the EZFlyer cartridge is properly inserted in the drive.
4. **Click Install, click Next, and then click Finish.**
5. **Follow the instructions in the Installation Wizard window to complete the software installation.**

DOS Products and Windows 3.1x

- 1. Begin at the DOS prompt.**

Press Alt + F4 if you are in Windows 3.1x—do not use a DOS shell.

- 2. Insert the SyQuest installation diskette into your diskette drive.**

Verify that the EZFlyer cartridge is properly inserted in the drive.

- 3. At a DOS prompt, type A:\INSTALL and press Enter.**

If your 3.5-inch diskette drive is device B, type B:\INSTALL and press Enter.

- 4. Follow the installation program prompts.**

Windows NT

Windows NT users do not need to install any SyQuest software for the EZFlyer EIDE drive. Your operating system already has the drivers required to support the installation, and SyQuest does not provide special drive and cartridge utilities for this operating system.

You can use Disk Administrator to prepare an EZFlyer cartridge or add a signature block. Since you do not need the installation software on the EZFlyer cartridge, you may reformat the cartridge if you wish.

Note: Windows NT 4.0 with Service Pack2 or higher fully supports cartridge removability for EZFlyer drives. If you use version 3.5x or an earlier version of Windows NT, you must first close all programs and shutdown Windows NT before you can remove a cartridge.

OS/2

1. Insert the SyQuest installation diskette.

Verify that the cartridge is *fully* inserted in the EZFlyer drive.

2. Select Device Driver Install from System Setup.

If you are using OS/2 4.0, select Install/Remove from System Setup.

3. Change the source.

If you are using OS/2 4.0, change the source from A:\ to A:\OS2-40.

If you are using OS/2 2.1x or 3.x, change the source from A:\ to A:\OS2.

4. Click SyQuest EIDE Device, and then click OK.

Note: SyQuest does not provide special drive and cartridge utilities for this operating system.

Ejecting a Cartridge

This chapter gives instructions for installing an EZFlyer cartridge, both with and without power to the drive.

With Power to the Drive

Follow these steps to remove the cartridge, when changing cartridges, or when transporting your SyJet drive:

1. Verify that the Power LED glows green.

The EZFlyer drive should *always* be switched on when you eject a cartridge.

2. Exit all applications that use the cartridge and close all open files on the cartridge.

You may lose data if you eject the cartridge before closing all open files on the cartridge.

Windows NT 3.x users: Since Windows NT 3.x treats the EZFlyer drive as a *fixed* and not a *removable* drive, you cannot remove a cartridge from the drive until you shut down Windows NT.

3. Software unlock the cartridge if you use Windows 3.1x, OS/2, or DOS only.

See “EZFlyer Cartridge Features” on page A-2 for information about the Lock or Unlock utility.

4. Press the Eject button on the front of the drive.

See Figure 4-1. The Drive Activity LED flickers amber, the drive door opens, and the cartridge ejects.

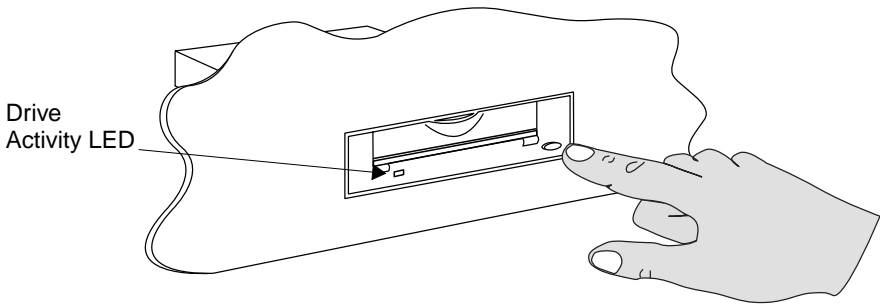


Figure 4-1. Pressing the Eject Button (installed view)

5. Remove the cartridge and place it in its protective case.

Caution: If you remove or eject the cartridge, you must pull it out halfway or more before you can reinsert it. This built-in feature prevents partial insertion. Never store or move the EZFlyer drive with the cartridge partially inserted. Leaving a cartridge partially inserted or moving the EZFlyer drive with the cartridge inserted may damage the drive and void your warranty.

Without Power to the Drive

In the event of a power failure, you can remove the cartridge using the drive's manual eject hole. Use this procedure only as a last resort.

The eject hole is located on the bottom of the drive's plastic enclosure. You will probably have to remove the drive from its mounting bay to access the eject hole.

Caution: Do not try to physically remove the cartridge through the drive door. This will probably damage the cartridge or drive.

1. **Wait at least one minute after the power fails or is disconnected before you perform this procedure.**
2. **Locate the manual eject hole on the bottom of the drive.**

The manual eject hole is a small round hole on the bottom of the drive's plastic enclosure. It is located near the rear of the drive, about two inches from the drive's 40-pin interface connector. See Figure 4-2.

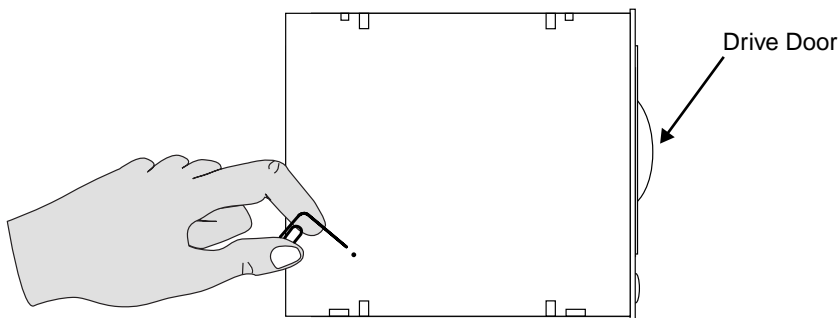


Figure 4-2. Using the Emergency Eject Hole (underside, deinstalled view)

3. Insert a straightened paper clip into the manual eject hole on the bottom of the drive.

The cartridge will eject part way. Be careful not to hold the EZFlyer drive with the drive door facing down; the cartridge may fall out of the drive and be damaged.

4. Remove the cartridge and return it to its protective case for storage or transport.

Caution: If this procedure fails, do not open the drive's plastic enclosure under any circumstances. This will void your warranty. Call SyQuest Technical Support at (510) 226-5400.
