

Model 2202 GRIDCase Portable 5 1/4-Inch Diskette Drive

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About This Book

This manual introduces you to the Model 2202 GRiDCase Portable Diskette Drive. It shows you how to set up and operate the unit, and how to care for it.

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Chapter 1: Physical Description

This chapter introduces you to the Model 2202 GRiDCase Portable Diskette Drive. It lists the accessories included with the diskette drive and gives a detailed description of the front, rear, and bottom views of the unit.

The Model 2202 Portable Diskette Drive is a member of the GRiDCase Computer family of devices. The 2202 is a 5 1/4-inch floppy diskette drive in a compact package approximately one-half the size of the GRiDCase Computer.

Checking the Contents of the Box Each shipping carton contains the following parts:

- o Model 2202 Portable Diskette Drive
- o Packing Materials
- o Documentation

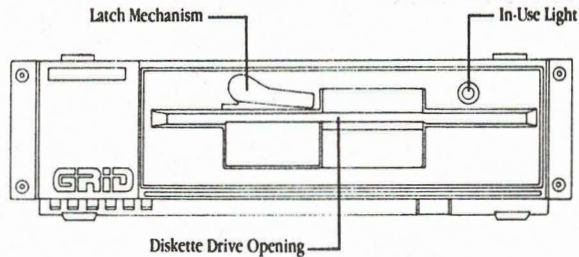
Check for shipping damage or missing parts. If there are any problems, contact the GRiD representative who sold you the portable diskette drive.

Keep the shipping carton and all original packing materials in the event you need to return your portable diskette drive for service. Do not ship the unit in a carton other than the original shipping carton, as damage may result.

Also keep the cardboard insert that came in the diskette drive. Whenever you transport the unit you should protect the drive by placing this insert in it.

The Front View The front view of the disk unit is shown in Figure 1-1 and is described in the paragraphs that follow.

Figure 1-1. Front View of 2202 Portable Diskette Drive



Diskette Drive

The diskette drive is a 5 1/4-inch floppy diskette drive that holds double-sided, double-density 5 1/4-inch floppy diskettes. For complete information on using the diskette drive and on the recommended floppy diskettes, see Chapter 2.

Latch Mechanism

The latch mechanism locks the floppy diskette into place and enables the diskette drive to operate properly. To insert a floppy diskette into the drive, push it in all the way. Then rotate the latch mechanism lock clockwise to the vertical position.

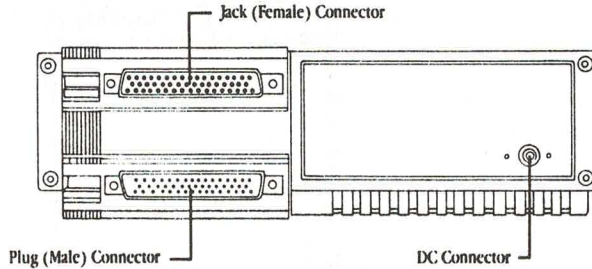
In-Use Light

The in-use light indicates when the floppy diskette drive is being accessed. The location of the in-use light may vary with each unit. The in-use light on the unit shown in Figure 1-1 is located above and to the right of the diskette drive opening.

CAUTION: Never turn off the portable diskette drive or the computer when the in-use light is lit, as file access is taking place. Doing so could destroy files. Additionally, never remove a floppy diskette (unless prompted to do so) when the in-use light is illuminated, as this may damage your floppy diskette or diskette drive.

The Rear View The rear view of the disk unit is shown in Figure 1-2 and is described in the paragraphs that follow.

Figure 1-2. Rear View of 2202 Portable Diskette Drive



DC Connector

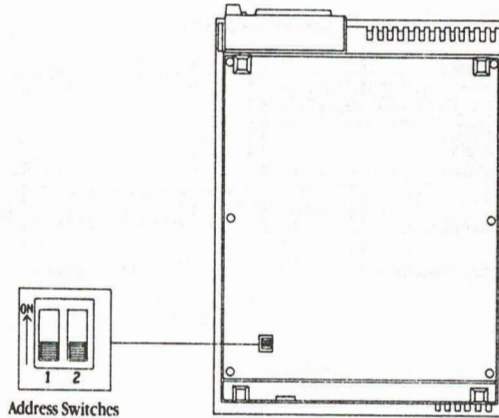
The DC connector allows the diskette drive to be powered from an external wall adapter (Model 32125). Insert the pointed end of the wall adapter cord into the DC connector. Insert the other end of the wall adapter cord into a power outlet. If a plug adapter is used, make sure it is properly grounded.

External Bus Connectors

The two external bus connectors on the diskette drive are used to connect the diskette drive to the computer and to other devices. The connector on the top is a jack (female) connector and the one on the bottom is a plug (male) connector. Chapter 2 gives instructions on connecting the GRiDCase Computer and storage devices to the external bus connector.

The Bottom View The bottom of the disk unit (see Figure 1-3) contains the address switches.

Figure 1-3. Bottom View of 2202 Portable Diskette Drive



Address Switches

The address switches, located on the bottom of the portable diskette drive, set an address that the computer uses to direct data to and from the diskette drive. The switch settings also determine the sequence in which the computer addresses multiple devices. Consult the Appendix to determine the correct switch settings for your device.

Chapter 2: Set Up and Operation

This chapter shows you how to set up and operate your Model 2202 Portable Diskette Drive.

To set up the portable diskette drive, you need the following items:

- o GRIDCase Computer
- o 2202 Portable Diskette Drive
- o External AC Power Pack
- o Model 6211 External Bus Cable
- o Model 2200 Base Station (Optional. Only used if you are connecting more than one device to the computer).

Power Requirements The external AC power pack, when connected to the GRIDCase, can supply power to the GRIDCase and one external storage device. To power additional storage devices, we recommend using a 2200 base station. Alternately, you can use an external AC power pack for each additional device.

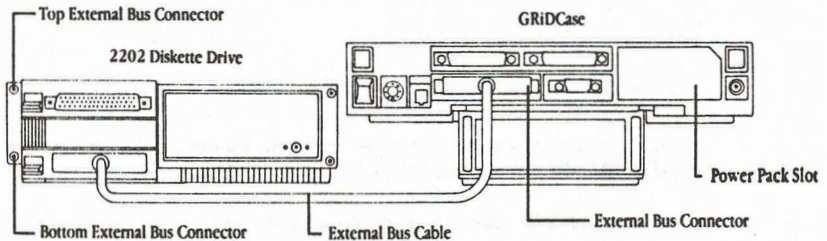
Connecting the 2202 Portable Diskette Drive to the Computer You use the Model 6211 external bus cable to connect the portable diskette drive to the GRIDCase Computer.

Attach the plug (male) end of the external bus cable to the external bus connector on the back of the GRIDCase. Attach the cable's other end to the bottom external bus connector on the back of the portable diskette drive. The diskette drive has two external bus connectors as explained below in the section Connecting the 2202 Portable Diskette Drive to Another Device.

Because of its trapezoidal shape, the cable plugs into the connector in only one way. If it doesn't fit in easily the first time, turn the end of the cable upside down. Use a small screwdriver to gently tighten the screws. Be careful not to overtighten the screws as you may damage the connector.

Figure 2-1 shows an external bus cable connecting the 2202 portable diskette drive to the GRiDCase.

Figure 2-1. Cable Connecting GRiDCase to 2202 Portable Diskette Drive



The address switches on the portable diskette drive must be set properly. These switches set the device's address, allowing the computer to exchange data with it. Consult the Appendix to determine the correct switch settings.

After the address switches are set, you are ready to connect your portable diskette drive to the GRiDCase.

► **To Connect the 2202 Portable Diskette Drive to the GRiDCase**

1. Turn off the GRiDCase and any other devices.

CAUTION: Always turn off the power before connecting or disconnecting any device to the external bus connector or to another device. Failure to do so may damage your computer and/or diskette drive.

2. Attach the jack (female) end of the Model 6211 external bus cable to the bottom connector on the rear panel of the portable diskette drive.
3. Attach the other end of the external bus cable to the external bus connector on the back of the computer.
4. Provide power to the portable diskette drive using the external AC power pack connected to the computer. The AC power pack powers the GRiDCase computer and one external storage device.

5. Turn on the computer.

Connecting the 2202 Portable Diskette Drive to Another Device All of the GRiDCase devices are designed to be stacked together, eliminating the need for additional cables. To connect more than one external storage device, you connect the 2200 base station to the GRiDCase, and then stack the additional devices on top of the base station as explained below. You can attach up to three external diskette devices to your computer. The order is not important as long as they are properly connected. You must, however, specify a different address for each device. To determine the correct switch settings for each device, see the Appendix.

There are two external bus connectors on the portable diskette drive; the bottom one is a plug (male) connector, and the top one a jack (female). A lever to the right of each connector lets you rotate them up and down 90 degrees (see Figure 2-2). By rotating the connectors in opposite directions (the bottom one facing down, and the top one facing up), you can stack devices on top of one another.

Figure 2-2. External Bus Connectors on 2202 Portable Diskette Drive

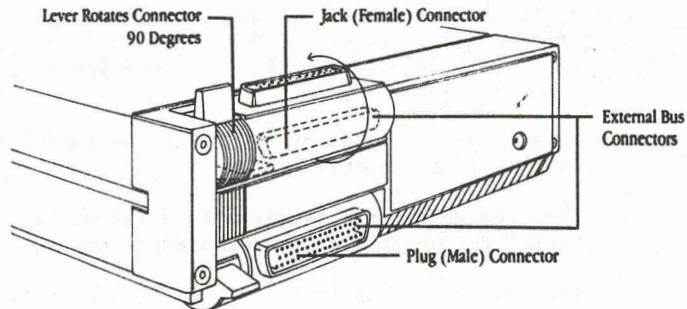
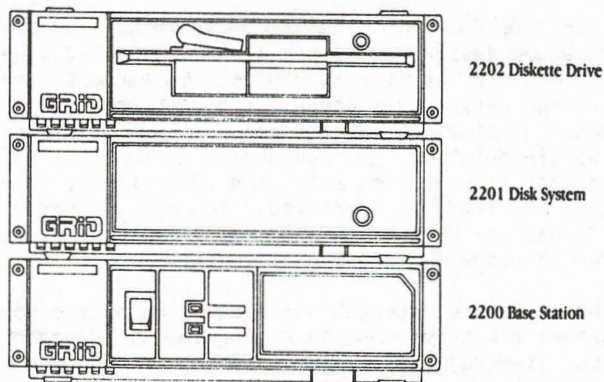


Figure 2-3 shows the 2200 base station, 2201 hard disk system, and 2202 diskette drive stacked together.

Figure 2-3. Devices Stacked Together.



► **To Connect the Base Station, 2202 Portable Diskette Drive, and Other Devices**

1. Turn off the computer, the base station (used to power the devices), any other peripherals.

CAUTION: Always turn off the power before connecting or disconnecting any device to the external bus connector or to another device. Failure to do so may damage your computer and/or diskette drive.

2. Connect the base station following the instructions given in the manual that accompanies it.
3. Stack the 2202 portable diskette drive on top of the base station following the procedure explained above.
4. Stack other devices on top of the 2201 hard disk drive. You can have up to four external storage devices (no more than three diskette devices) stacked together. The order in which you connect devices is not important as long as they are all connected.
5. Ensure that each device has the correct switch settings. See the Appendix.
6. Turn on the base station (and any other peripherals) and then turn on the computer.

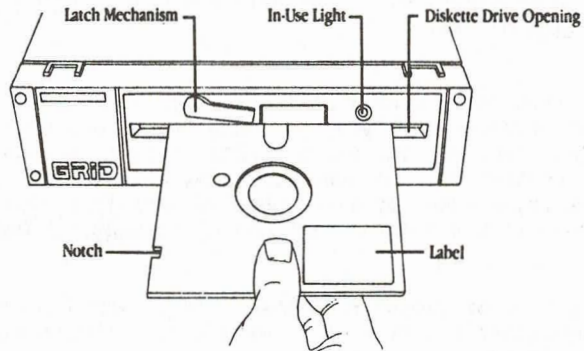
Operating the 2202 Portable Diskette Drive Operation of the portable disk drive consists of following the simple procedure for inserting and

removing floppy diskettes from the drive.

To insert a floppy diskette into the diskette drive, slide the floppy diskette into the diskette drive opening (see Figure 2-4). Be sure that the diskette label enters last and faces upward. The square notch should be on the left side of the diskette. Sometimes a "write protect" tab will cover this notch. ("Write protecting" a diskette is discussed later in this section.)

Gently push the floppy diskette all the way into the slot until it stops. Then rotate the latch mechanism clockwise to the vertical position.

Figure 2-4. Inserting a Floppy Diskette into the Diskette Drive



To remove a floppy diskette from the diskette drive, rotate the latch counterclockwise to the horizontal position. The diskette may then be removed from the drive.

Floppy Diskettes

Floppy diskettes, or "floppies," are flexible plastic disks that have been coated with a magnetic material (much like the coating on audio recording tape). The diskette spins inside a protective plastic jacket.

One 5 1/4-inch floppy disk stores up to 360 thousand characters of data. Floppy diskettes should be removed from the drive when not being used. By changing diskettes you can store and retrieve information for many different applications.

CAUTION: The following Dysan Corporation 5 1/4-inch diskette is the only diskette recommended for use with your portable diskette drive:

Two sided
Double density
Soft sectored
48 tpi (tracks per inch)

Formatting Floppy Diskettes The disk drive expects floppy diskettes to have their data organized in a particular format. To ensure that a new diskette can be read and written by the diskette drive, you must format each diskette before the disk drive can use it. To format a floppy diskette for use with GRiD-OS, run the "Initialize Media" program as described in the GRiD Management Tools Reference manual. To prepare a diskette for MS-DOS, run the FORMAT command as described in the GRiDCase MS-DOS Reference: Release 2.11 Version D manual.

Write Protecting Floppy Diskettes If you have data stored on a floppy diskette that you want to protect from being inadvertently written over, you can put a "write-protect" tab over the write-protect notch on the top-right edge of the diskette. Typically, a sheet of self-adhesive tabs for covering this notch are included in the box in which the diskettes are packaged.

Taking Care of Floppy Diskettes To prevent destroying data on your floppy diskettes, treat them with care. Always keep the following tips in mind:

- o Do not touch the surface of the diskettes through the openings in their jackets. An invisible scratch on the surface of the diskette, or even a fingerprint can cause data errors.
- o Always return a floppy diskette to its protective envelope after removing it from the drive. You should store diskettes in protective cases -- such as floppy diskette boxes or albums -- and it is best to store them vertically.
- o Keep floppy diskettes away from magnetic fields, such as those generated by magnetic office items (paper clip dispensers, magnetic paper holders, etc.) or electronic instruments (TVs, speakers, and even CRTs).
- o Do not expose diskettes to direct sunlight or extreme temperatures. For optimum long term storage, keep diskettes at a temperature between 60 and 70 degrees Fahrenheit (15 to 20 degrees Celcius). The maximum permissable temperature range at which diskettes should be stored is from 50° to 125° F (10° to 52° C).
- o Do not bend, fold, staple, or otherwise mistreat a floppy

diskette. Never write on a diskette label which is affixed to the diskette with any implement other than a felt tip pen and then, only with a gentle pressure.

Backing Up Files on Floppy Diskette We cannot overemphasize the importance of making copies of your important files. This process of "backing up" files protects your work from accidental data loss due to writing one file over another, power failure, media failures, etc. Make backups of files daily, if not more often.

For a discussion on backing up your GRiD-OS files by duplicating them to floppy diskettes, refer to the Duplicate Files section of GRiD Management Tools Reference. MS-DOS users can make back-up copies using the COPY or DISKCOPY commands as described in the MS-DOS Reference: Release 2.11 Version D manual.

Starting Up the Operating System (Booting) The computer follows a specific order when choosing the storage device from which to load the operating system software. This device ordering is shown in Table 2-1. The computer first searches for the operating system software in ROM, and if it does not find the software there, it looks on the hard disk system, and so on.

You can override the normal loading sequence and choose the device from which you want the computer to load the operating system software. To start from another device, hold down the key indicated in Table 2-1 for several seconds as you turn on the power switch. For example, to start from your external floppy you would press **E** while turning on the power.

Table 2-1. Order of Devices Searched During Loading

Device	Keys
Read Only Memory (ROM)	R
Hard Disk	H
Internal Floppy	F
External Floppy	E

NOTE: If you have several of the same types of devices connected to your computer, the computer will search the first device (designated by the address switch settings) for the operating system software. For example, if you have two hard disks and two diskette drives, the

computer searches the first hard disk, then the internal floppy, and finally the first diskette drive. See the Appendix for information on switch settings for multiple devices of the same type.

The steps below show you how to load the operating system from a 5 1/4-inch floppy diskette and how to return the precedence to the internal floppy.

► **To Start from a 5 1/4-Inch Floppy Diskette**

1. Turn off the computer.
2. Connect the 2202 portable diskette drive to the computer following the device connection instructions given above.
3. Insert the system diskette (the diskette that contains the operating system) into the portable diskette drive.
4. Turn on the computer while holding down the E key on the keyboard for several seconds.

The diskette drive will activate and the in-use light will light up as the computer loads the operating system from the floppy diskette. If the diskette does not contain the operating system software, an error message is displayed.

► **To Return Control to the Internal Floppy**

1. If you have the GRiD-OS system diskette inserted in the internal diskette drive, you can return control to this device by selecting Internal Floppy as the device on the File form.
2. If you have the MS-DOS system diskette inserted in the internal diskette drive, type B: to return control to the internal disk drive (the external diskette drive will be drive A).

Chapter 3: Maintenance

This chapter describes how to care for your Model 2202 GRiDCase Portable Diskette Drive. Although the portable diskette drive is basically durable, you should treat it as you would any precision instrument -- with care.

Warnings Observe the following warnings. Not following these warnings could lead to possible physical injury.

- o Do not operate the portable diskette drive in a dirty or dusty environment.
- o Do not get the portable diskette drive wet; electrical equipment should not be operated in a moist environment.
- o Do not operate your portable diskette drive in any potentially flammable atmosphere.
- o Do not attempt to open the case of the portable diskette drive; it contains no user-serviceable parts. Such action voids your warranty and service contract and can damage the portable diskette drive.
- o Make sure you properly ground any wall adapter.

Cautions Observe the following cautions. Not following these cautions could damage your unit.

- o Always disconnect the power to the portable diskette drive before connecting it to the computer or another device.
- o Operate the portable diskette drive only when the surrounding temperature is from 41° to 113°F (5° to 45°C).

- o Operate the portable diskette drive only when the relative humidity level is from 20% to 80% noncondensing.
- o Store the portable diskette drive where the surrounding temperature is from -40° to 140° F (-40° to 60° C).
- o Do not store or set up the portable diskette drive (or its peripherals) in direct sunlight.
- o Do not subject the portable diskette drive to unnecessary shock or vibration.
- o When cleaning the portable diskette drive, never use any cleaning agent such as dust wax, spray cleaner, or any abrasive substance.
- o Never disconnect power to the portable diskette drive when the in-use light on the unit is lit. Turning off the portable diskette drive at this time can destroy data.
- o Keep the portable diskette drive away from magnetic fields, such as those generated by magnetic office items (paper clip dispensers, magnetic paper holders, etc.) or electronic instruments (TVs, speakers and even CRTs).

Cleaning Your 2202 Portable Diskette Drive Before cleaning your portable diskette drive, disconnect the wall adapter (if connected).

To clean the case, use a slightly damp, soft cloth and, if necessary, a mild, nonabrasive detergent.

CAUTION: Never use any cleaning agent such as dust wax, spray cleaner, or any abrasive substance.

Wipe the case clean and then dry it.

If necessary, dust the rear panel of your portable diskette drive with a dry cloth.

WARNING: To prevent shock hazard, never apply any liquid inside the diskette drive opening.

Storing Your 2202 Portable Diskette Drive Always store your portable diskette drive between the temperatures -40° and 140° F (-40° to 60° C). Keep it in a clean environment, free from dust and dirt.

Traveling With Your 2202 Portable Diskette Drive When traveling with your portable diskette drive, carry it with you instead of checking it as luggage. Many transportation carriers do not cover the replacement cost of your disk unit should they lose or damage it.

NOTE: If you do check it as luggage, always pack it in the original shipping carton and packing materials that came with your diskette drive.

NOTE: Always protect the internal diskette drive by placing the cardboard insert that came with your portable diskette drive into the drive whenever you transport it.

It should be safe to x-ray the disk unit or any peripherals in airport security checks, but you must make the final decision. You can have it hand-checked, if you wish.

Appendix: Switch Settings on External Diskette Devices

This appendix gives the switch settings that apply when multiple diskette drives are attached to the same GRiDCase.

Device Switch Settings for GRiD-OS Table A-1 shows the address switch settings and corresponding GRiD-OS device description for disk or diskette devices attached to the GRiDCase.

Table A-1. Switch Settings for Diskette Devices.

Attached Device(s)	Switch Settings	GRiD-OS Device Description
1st Portable ¹ Diskette Drive	1 down (off) 2 down (off)	External Floppy Disk
or 1st Portable ¹ Diskette Drive	1 down (off) 2 up (on)	External Floppy Disk 1
2nd Portable Diskette Drive	1 up (on) 2 down (off)	External Floppy Disk 2
3rd Portable Diskette Drive	1 up (on) 2 up (on)	External Floppy Disk 3

¹If you have two or more external diskette drives and use both switch settings for the first portable diskette drives, the system will not recognize the internal floppy diskette drive as an active device.

Device Switch Settings for MS-DOS This section shows the address switch settings for diskette devices attached to the GRiDCase. These settings determine the letters that MS-DOS assigns to the device; you use the device letter when specifying the device in an MS-DOS command.

The two switches on the bottom of each device can specify one of four different addresses. Each setting corresponds to a value which MS-DOS uses as the address, as shown in the table below.

Address		Switch Positions
Binary	Decimal	
00	0	down, down
01	1	down, up
10	2	up, down
11	3	up, up

The section is divided into two parts:

- o Switch Settings for Typical Device Configurations, which contains the settings (Table A-2) for the typical combination of diskette and disk devices that most customers have. You will probably find the information you need in this section.
- o Rules for MS-DOS Device Letter Assignments, which provides detailed information on how MS-DOS assigns letters according to your switch settings. This section is for users who have an unusual combination of disk and diskette devices; read this section only if you don't find the settings you need in Table A-2.

Switch Settings For Typical Device Configurations

The switch settings shown in Table A-2 cover the various combination of devices that most users will have. The following configurations are covered in the table:

- o Configuration 1: 1 internal diskette drive
- o Configuration 2: 1 internal and 1 external diskette drive. (Drive B is internal, Drive A is external.)
- o Configuration 3: 1 internal and 1 external diskette drive. (Drive A is internal, Drive B is external.)
- o Configuration 4: 1 internal and 2 external diskette drives
- o Configuration 5: 1 each internal and external diskette drive, and 1 hard disk

Table A-2. Device Letter Assignments for Typical Configurations

Configuration 1: 1 internal diskette drive

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
Not applicable.	A, B	Internal diskette drive

NOTE: MS-DOS assigns a second device letter to the internal diskette drive and to the first external diskette drive (as shown in the next configuration). This allows operations for those commands that

require both a source and target diskette. For example, the following command

FORMAT B:

first reads into RAM the external command **FORMAT** from the MS-DOS system diskette. MS-DOS then prompts you to insert a new diskette before the actual formatting process begins.

The following command

DISKCOPY A: B:

copies a 3 1/2-inch source diskette to a target diskette in the internal diskette drive. MS-DOS prompts you to insert the source and target diskettes at the appropriate times.

**Configuration 2: 1 internal and 1 external diskette drive
Drive B is internal, Drive A is external**

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
Not applicable	B, D	Internal diskette drive
00 (down, down)	A, C	External diskette drive

**Configuration 3: 1 internal and 1 external diskette drive
Drive A is internal, Drive B is external**

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
Not applicable	A, C	Internal diskette drive
01 (down, up)	B, D	External diskette drive

Configuration 4: 1 internal and 2 external diskette drives

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
Not applicable.	A, D	Internal diskette drive
01 (down, up)	B, E	External diskette drive 1
10 (up,down)	C	External diskette drive 2

Configuration 5: 1 each internal and external diskette drive, and 1 hard disk

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
Not applicable.	A, D	Internal diskette drive
01 (down, up)	B, E	External diskette drive

00 (down, down)

C

Hard disk drive

Rules for MS-DOS Device Letter Assignments

This section gives the rules MS-DOS follows in assigning device letters.

1. If no external drives are attached to GRiDCase, MS-DOS assigns the letters A and B to the internal diskette drive. The internal diskette drive doesn't have address switches; MS-DOS assumes by default that the setting is 00.
2. When external devices are attached to the GRiDCase, MS-DOS assigns letters to them in alphabetical sequence starting with A, in the following order:

Diskette drive(s)
Hard disk drive(s)

3. MS-DOS assigns a second device letter to the internal diskette drive and to the external diskette drive whose address switches are set to 01, as shown below.

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
00 (default)	A,C	Internal diskette drive
01 (down, up)	B,D	External diskette drive

4. Setting the address switch of an external diskette drive to 00 (down, down) changes the default setting of the internal diskette drive to 01. This reverses the device letter assignments shown in rule 3 as follows:

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
01 (default)	B,D	Internal diskette drive
00 (down, up)	A,C	External diskette drive

CAUTION: Never set switches on two or more external diskette drives to 00 and 01 respectively. This setting results in MS-DOS not recognizing the internal drive; a letter isn't assigned and you cannot use the internal drive.

5. MS-DOS alphabetically assigns a letter to each device before assigning a second letter to the internal diskette drive and to the first external diskette drive (if present), as shown below.

<u>Switch Settings</u>	<u>Device Letter</u>	<u>Drive</u>
00 (assumed)	A,E	Internal diskette drive
01 1 (down, up)	B,F	External diskette drive 1
10 2 (up, down)	C	External diskette drive 2
11 3 (up, up)	D	External diskette drive 3

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