

Instructions

for the



96TPI, 5-1/4" FLOPPY DISK DRIVE

Model H-17-5

Part No. 150-158

These instructions have been prepared to assist you in properly "configuring" your disk drive.

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INTRODUCTION

The H-17-5 Floppy Disk Drive is a mass storage device that stores programs and information for your computer. Information is stored on both sides of 5.25-inch, oxide-coated diskettes in 80 tracks per side. The diskettes load quickly and easily through the door in the front panel.

The head carriage, which contains two Read/Write, gap-type heads, one for each side of the diskette, is driven by a stepper motor. The disk controller circuit board (in your computer) is the interface between the computer bus and the Disk Drive.

A sensor in the Drive detects the presence or absence of a notch in the diskette to insure write protection. If the notch is not detected, a signal is transmitted to the

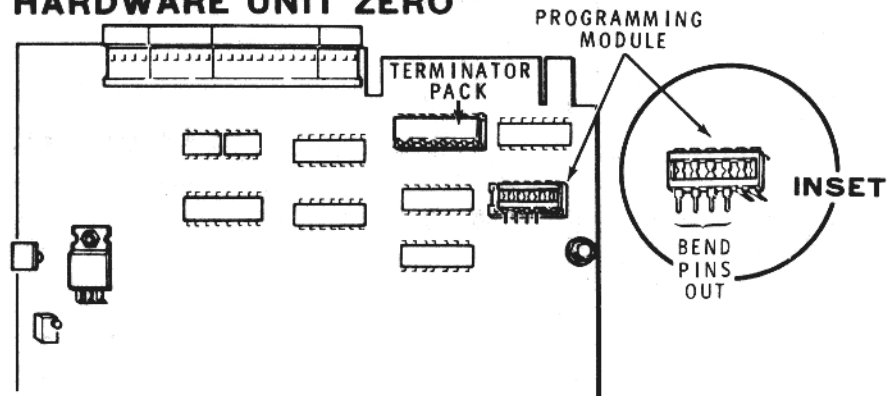
controller to indicate a read-only operation. If the notch is detected, the signal indicates a read/write operation.

IMPORTANT: Greater centering accuracy is required when you are using 96 TPI drives. Therefore, it is imperative that the diskettes you use with your high capacity 5" floppy disk system have factory-installed mylar hub reinforcing rings. All of the diskettes supplied by Zenith Data Systems have these rings, as well as Verbatim **Datalife**® diskettes and several other brands. **Do not** use any diskettes that do not have these rings.

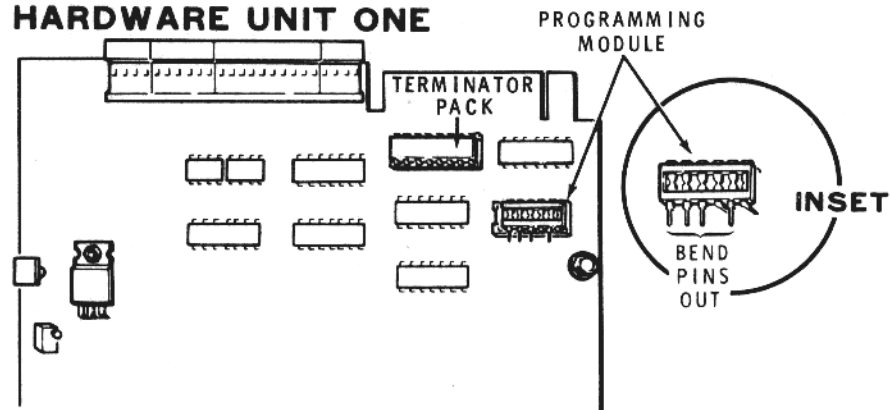
WARNING: Do not ship or transport the Disk Drive without the shipping insert installed. Irreparable damage to the read/write heads can occur if the heads come in contact with each other during shipping. If the shipping insert is not available, then securely fasten the drive door open.

Also, be sure you remove the insert before you operate the drive.

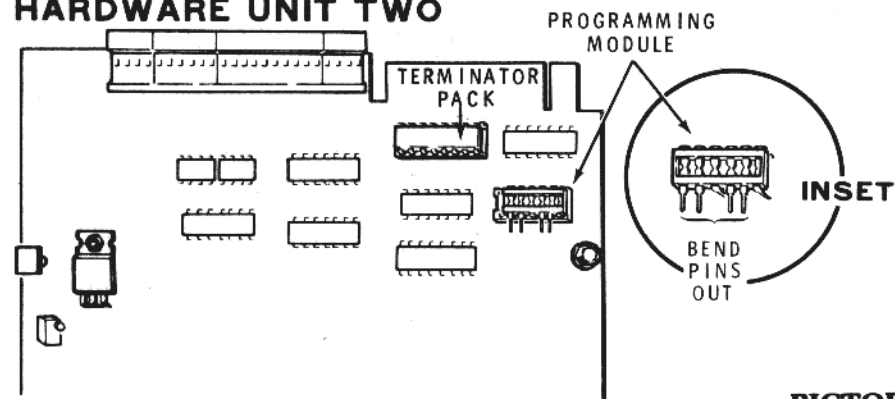
PART A **HARDWARE UNIT ZERO**



PART B **HARDWARE UNIT ONE**



PART C **HARDWARE UNIT TWO**



PICTORIAL 1

PROGRAMMING

PROGRAMMING MODULES

Refer to Pictorial 1 for the following steps.

- If this Drive is to be hardware unit 0, bend out the indicated leads of the programming module as shown in Part A of the Pictorial.
- If this Drive is to be hardware unit 1, bend out the indicated leads of the programming module as shown in Part B of the Pictorial.
- If this Drive is to be hardware unit 2, bend out the indicated leads of the programming module as shown in Part C of the Pictorial.

TERMINATOR PACKS

Each disk drive is supplied with a terminator pack installed in it. However, each computer system, no

matter how many 5-1/4" drives it has connected to it, should only have one drive with a terminator pack installed. The drive that has the pack left in it should be the last physical drive connected to the flat cable.

- Refer to Pictorial 1 and see where the terminator pack is located in each drive.

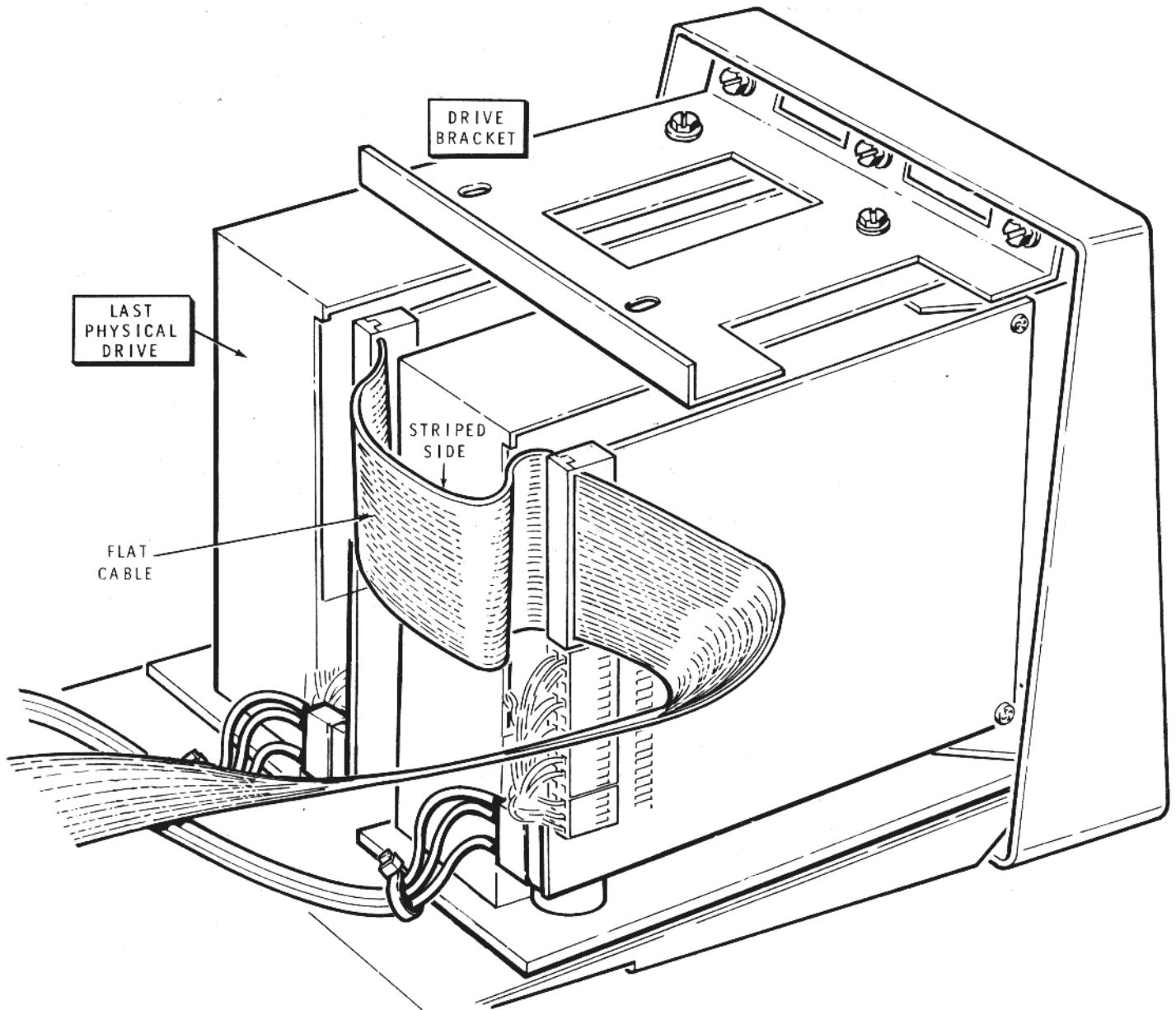
CAUTION: In the next step, you may remove one or more terminator packs from your disk drives. If you ever reinstall them, be sure to replace them in the type of drives that you removed them from. Terminator packs from one drive may not work in another drive if the drives are made by different manufacturers.

- Refer to Pictorial 2 and remove the terminator packs from all the 5-1/4" drives con-

nected to your computer except the one that is connected physically last to the flat cable.

CABLE CONNECTIONS

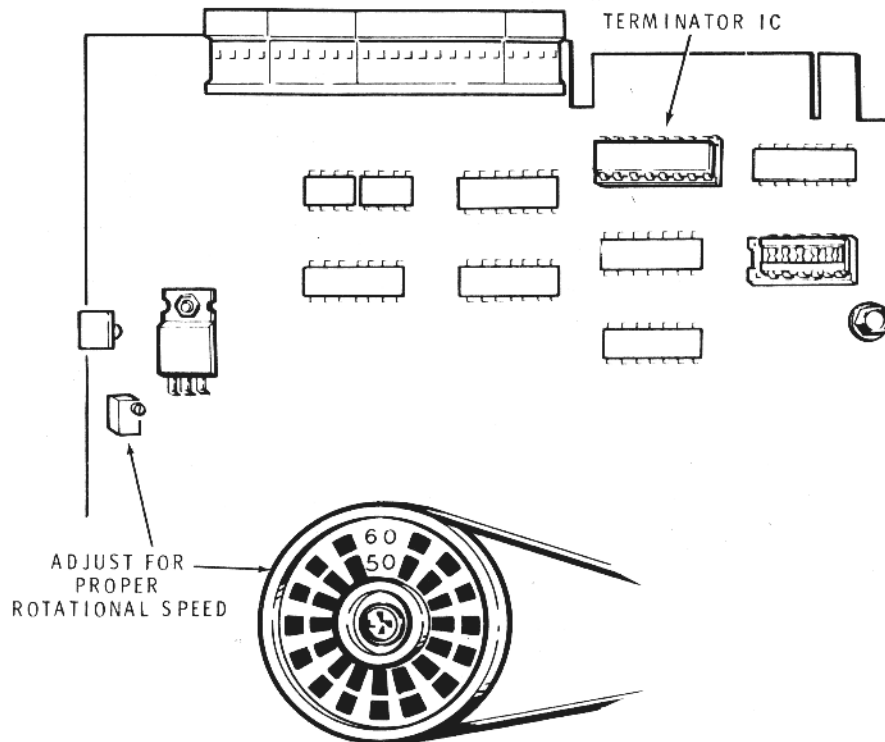
Refer to Pictorial 2 for a view of cable connections.



ROTATIONAL SPEED TEST

Perform the rotational speed test as described in your system software documentation. See Pictorial 3 for the adjustment location.

CAUTION: There may be other controls or adjustments on the drive. DO NOT adjust them.



PICTORIAL 3

IMPORTANT: Make sure that you install a terminator IC in only **one** of your drives connected to your Z-89-37 card (the last drive if you are using more than one).

OPERATION

DISKETTE LOADING

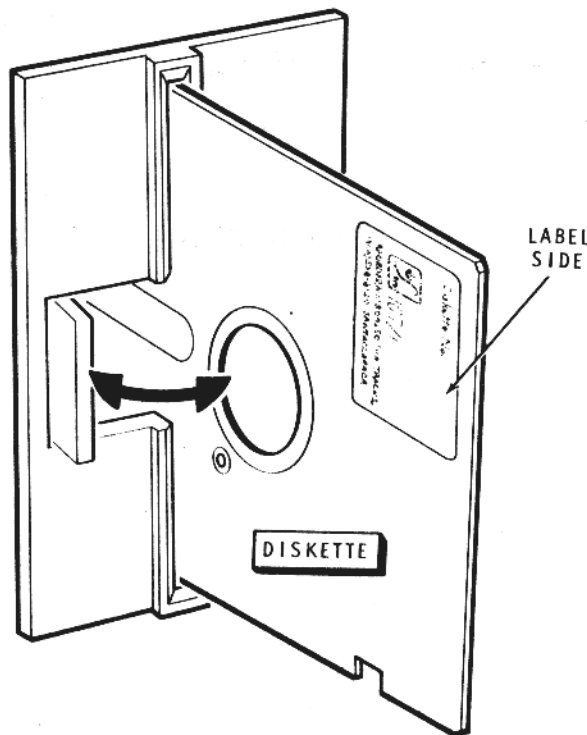
Refer to Pictorial 4, open the front panel door, and insert the diskette, label towards the screen. Then close the door.

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DISKETTE HANDLING

The diskette can be easily damaged. Handle it carefully as follows:

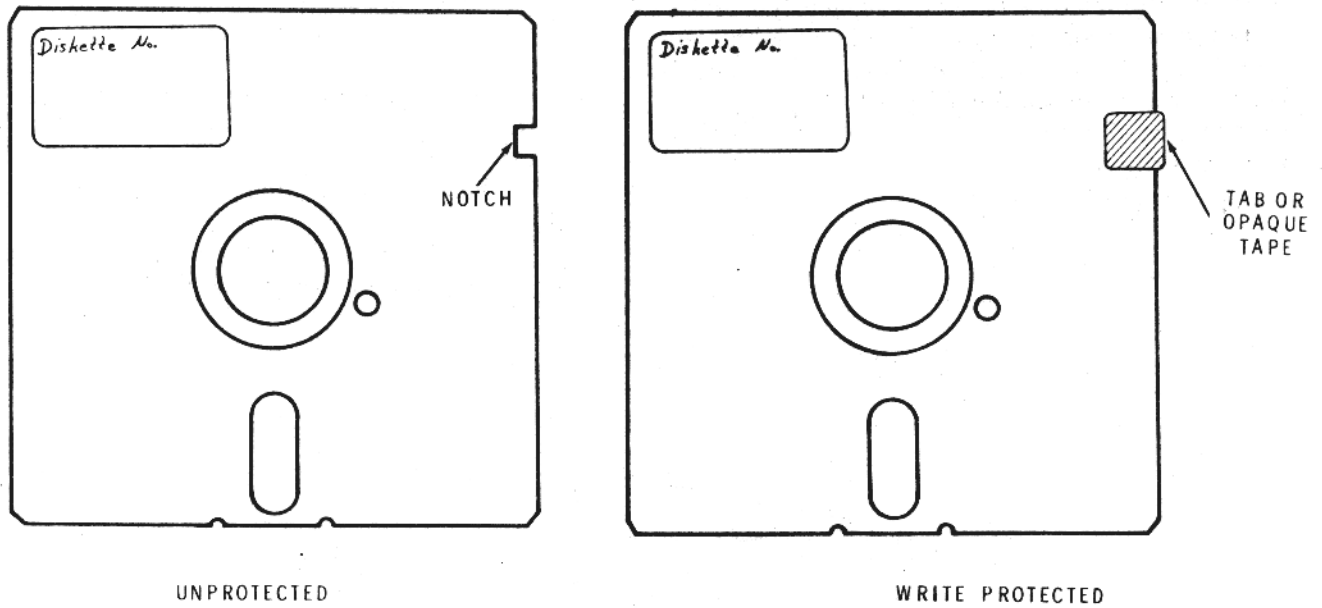
1. Keep the diskette in its storage envelope whenever it is not in the Floppy Disk drive.
2. Keep the diskette away from magnetic fields. Magnetic fields can distort the recorded data on the diskette.
3. Replace damaged or worn storage envelopes.
4. Write on the plastic jacket only with a felt-tip pen. Do not use a lead pencil or ball-point pen.
5. Keep the diskette away from hot or contaminating materials.
6. Do not expose the diskette to sunlight.
7. Do not touch or clean the surface of the diskette. Abrasions can alter stored data.



PICTORIAL 4

WRITE-PROTECT

This diskette can be write protected so that it cannot be written on. To do this, cover the side notch with a tab or opaque tape. See Pictorial 5.



PICTORIAL 5