IMPORTANT
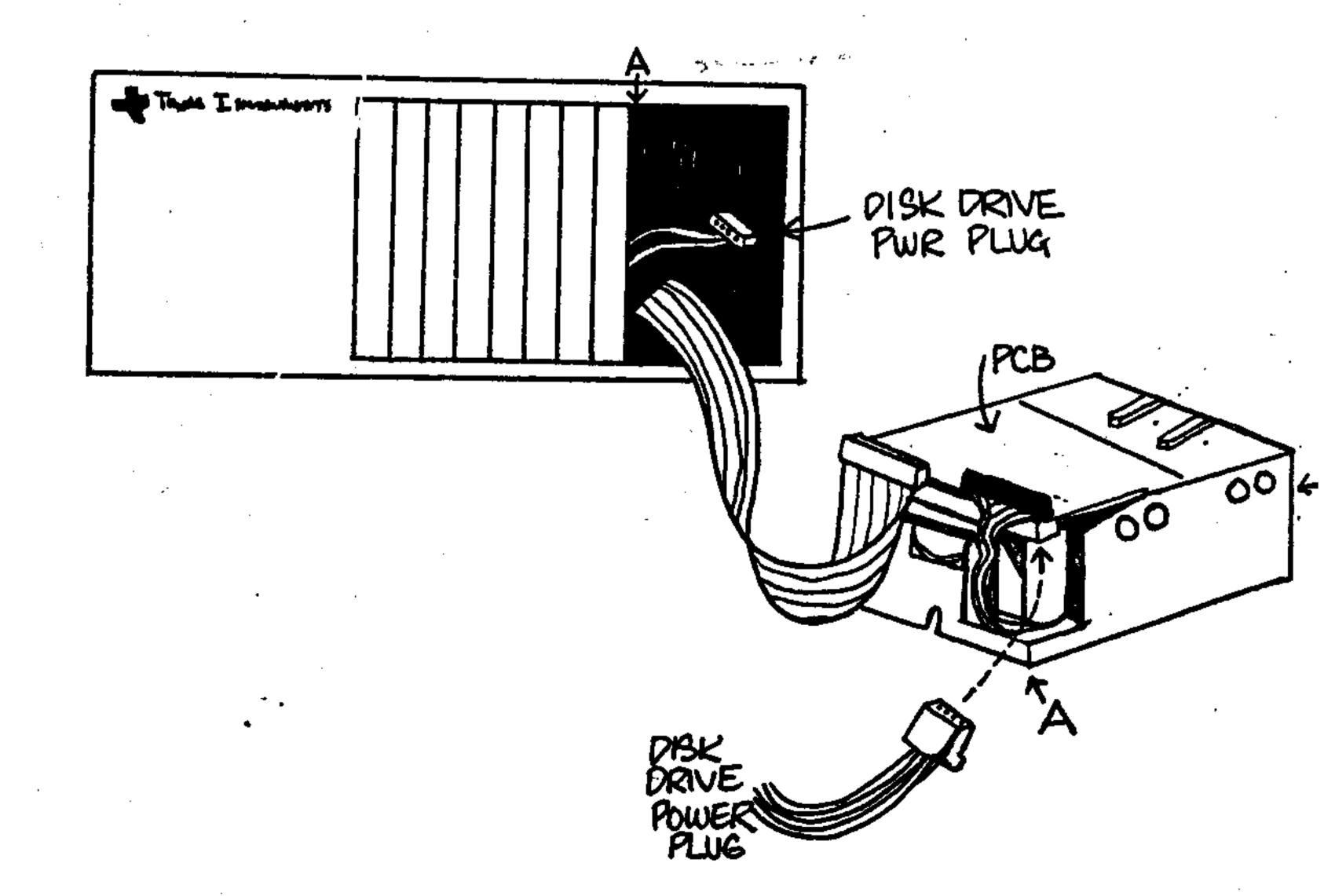
1. DO NOT HOOK DRIVE UP WITH DISKETTE-IN DRIVE.

2. THE CABLE TO HOOK UP INTERNAL DRIVE IS BLUE AND IS NOT KEYED FOR
    INSERTION ON BACK OF DRIVE. REFER TO ILLUSTRATION FOR PROPER
    INSTALLATION. IF INSTALLED BACKWARDS DRIVE LIGHT WILL REMAIN
    ON WHEN BOX IS ON.

ADDENDUM
Disk Memory System Manual

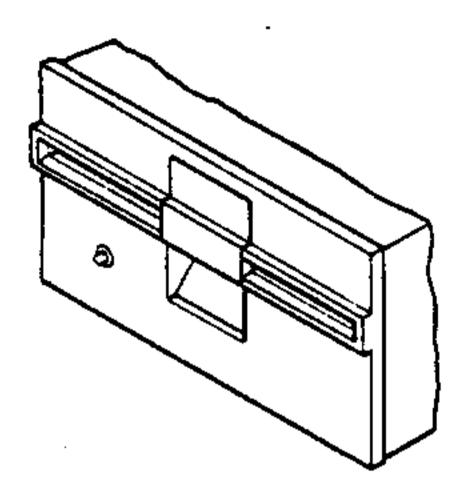Your Disk Memory System owner's manual may contain several printing errors. Please mark the following corrections, if necessary, in your manual.

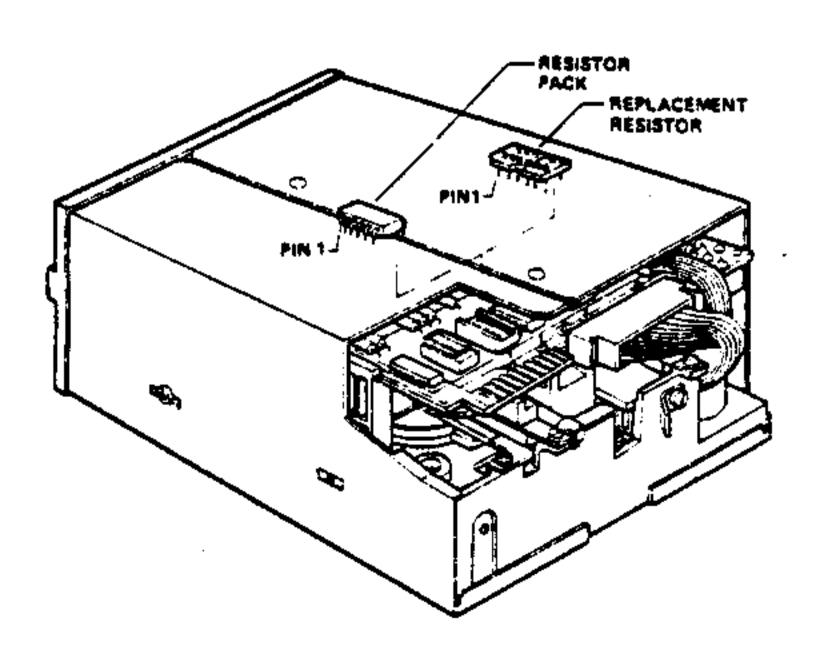| Page Number	Correction
9 and 12	On both these pages, Step 3 should read:
	3. Remove the top from the peripheral system by depressing the latches on the back edge of the top and pulling up.
15	The directions for removing the Controller Card should be as follows:
	1. Turn off the computer console, Peripheral Expansion System, monitor, and any other attached accessories.
	2. Wait two minutes and remove the top from the peripheral system unit.
	3. If you have an internal disk drive, disconnect the drive from the Controller Card. (See page 9.)
	4. Pull up the wire handles on the ends of the card.
	5 Firmly pull on the handles to remove the card from its slot in the peripheral system unit.
16	The third paragraph on this page should read:
	Press any key to proceed. Then select the Disk Manager module by pressing the appropriate number key. After a brief title sequence, the following screen appears.
18	Lines 150, 160, and 170 of the first sample program should be corrected as follows:
	150 IF A<1 THEN 200
	160 IF A>20 THEN 200
	170 INPUT #1,REC A-1: A$,B
35	The second EOF (end-of-file) example should be as follows:
	IF EOF (27) < >0 THEN 1150
38	The following lines of the sample program should be:
	190 IF TOTAL <50 THEN 150
	. . .
	230 PRINT ::"1 = PRINT FILE"
	240 PRINT "2 = PRINT A RECORD"
	250 PRINT "3 = CHANGE A RECORD"
	260 PRINT "4 = ADD A RECORD"
	270 PRINT "5 = LEAVE THE PROGRAM":::
	. . .
	300 IF X<1 THEN 220
	310 IF X>5 THEN 220
39	Lines 10010 and 10020 of the sample program should be:
	10010 IF RECNUM<1 then 10030
	10020 IF RECNUM< =TOTAL THEN 10050
41	The following lines of the program for reading the catalog should be:
	190 IF A<1 THEN 170
	200 IF A>3 THEN 170
	. . .
	320 If A>0 THEN 340
44	Line 120 of the program for transferring data from cassette to diskette should read as follows:
	120 INPUT #50:X$

ADDENDUM
Disk Memory Drive Manual

To ensure proper functioning of internal and external disk drives in your Disk Memory System, follow these instructions. You must make a minor modification to any internal or external drive (except for the last drive in the series) which has a disk drive door such as the one shown below. The modification involves replacement of the resistor pack currently in the drive with the resistor included with these instructions.

- If this disk drive is to be used alone, no modifications are necessary.
- If this disk drive is to be used with other TI disk drives which have a different disk drive door, install this disk drive as the last disk drive in the series, disregard this notice, and follow the set-up instructions beginning on page 8 in your Disk Memory System manual.
- If you have an internal drive like the one above, follow the instructions for modifying an internal drive listed below. No further modifications are necessary.
- If you are adding two external drives to the internal drive shown above, follow all the instructions listed below to modify the internal and the first external drives. No modifications are made to the last external drive.

The following are instructions for modifying the internal drive illustrated above.

1. Turn off the computer, Peripheral Expansion System, and all attached devices.
2. CAUTION: TO AVOID DAMAGING ACCESSORY CARDS, WAIT TWO (2) MINUTES AFTER TURNING OFF THE UNIT FOR THE POWER TO DISCHARGE BEFORE PROCEEDING.
3. Disconnect the power cord from the wall outlet and from the back of the peripheral system.
4. Remove the top from the Peripheral Expansion System by depressing the latches on the back edge of the top and pulling up.
5. Remove all expansion system cards except the Disk Drive Controller Card.
6. Remove the four screws holding the internal disk drive in place and gently slide the unit out of its compartment in the peripheral system. Do not disconnect the cables that attach the unit to the peripheral system and the controller card.
7. Locate the resistor pack as shown in the illustration, noting the position of pin 1 (printed on the top of the resistor pack) in relation to the drive. Using a small pocketknife blade, a small standard screwdriver tip, or the end of a paper clip, carefully pry the resistor up and out of its receptacle. Take care not to bend any of the pins in case you need to use the resistor pack later.
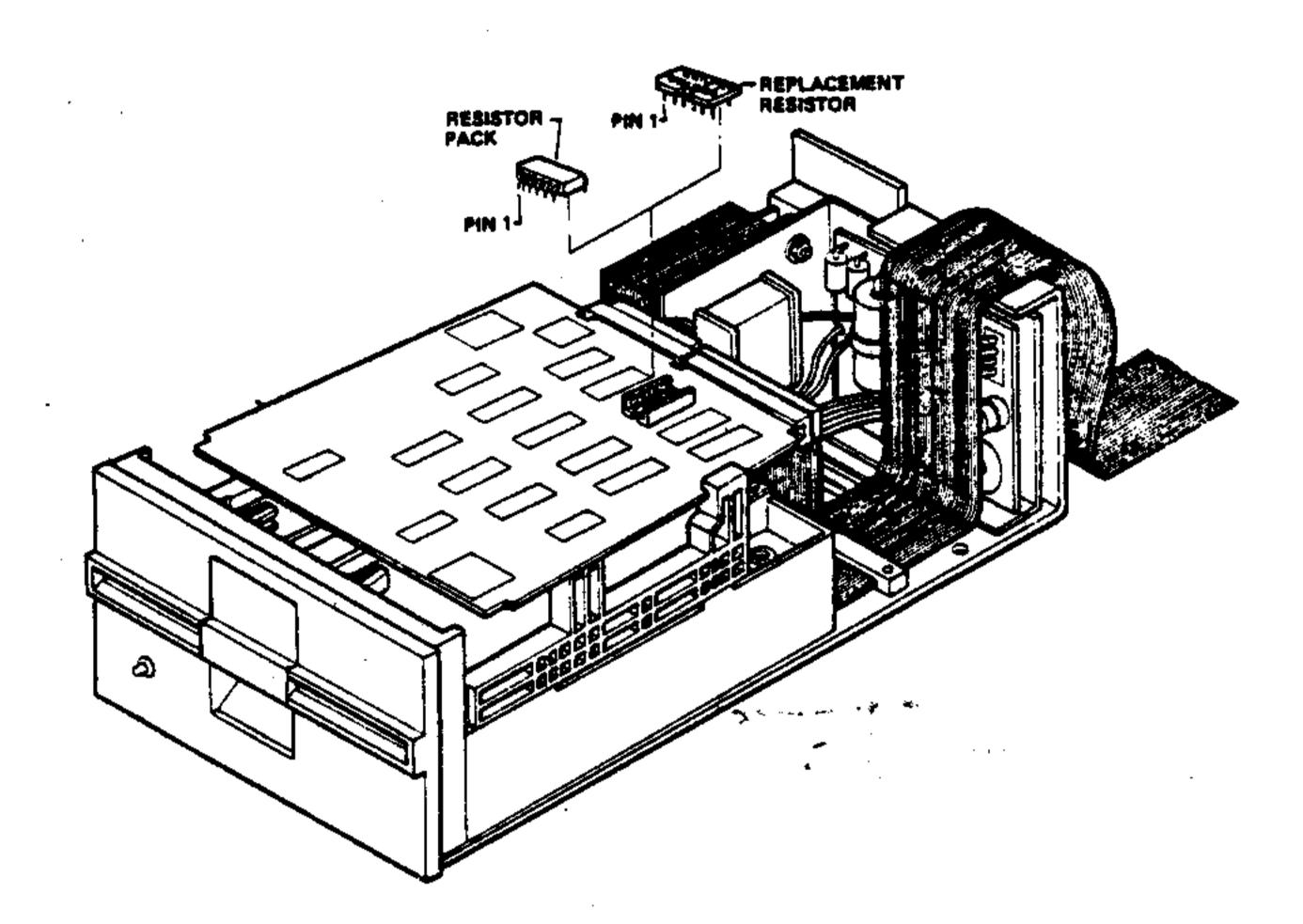
ADDENDUM

8. Insert the new resistor into the receptacle with pin 1 (the number "1" is molded into the top of the plastic) occupying the same position that pin 1 of the resistor pack occupied.

9. Reinstall the disk drive, expansion system cards, expansion system top, and power cord in the reverse order of the procedures above.

The following are instructions for modifying the external drive illustrated on the preceding page.

1. Turn off the computer, Peripheral Expansion System, and all attached devices.

2. Disconnect the disk drive power cord from the wall outlet.

3. Use a Phillips-head screwdriver to remove the six screws which hold the cover. Lift the cover off.

4. Locate the resistor pack as shown in the illustration, noting the position of pin 1 (printed on the top of the resistor pack) in relation to the drive. Using a small pocketknife blade, a small standard screwdriver tip, or the end of a paper clip, carefully pry the resistor up and out of its receptacle. Take care not to bend any of the pins in case you need to use the resistor pack later.

5. Insert the new resistor into the receptacle with pin 1 (the number "1" is molded into the top of the plastic) occupying the same position that pin 1 of the resistor pack occupied.

6. Replace the cover and screws. Plug the disk drive power cord back into the wall outlet.

ADDENDUM
DISPLAY TYPE RECORDS

DISPLAY type files require a special type of output record.
Each element in the PRINT field must be separated by a
comma. Example:

        120 PRINT #1:A;",";B;",";C",";...

The commas serve as field separators in the file. The
omission of these commas will cause an I/O ERROR 25 to be
issued. When attempting to read a file configured without
the comma, the computer reads the entire file as one ele-
ment. It also issues the error when it attempts to read the
second element, which no longer exists.

A file output using the special format required for DISPLAY
type records does not require a special INPUT statement and
may be read using a conventional format, as in the example
below:

        330 INPUT #1:A,B,C,...

SET-UP INSTRUCTIONS

Once you've unpacked the unit, you're ready to insert the Controller Card into the peripheral system. (Save the packing material for storing or transporting the unit.) The steps involved in inserting and checking the operation of the Disk Drive Controller Card, an internal disk drive, and external disk drives are included in this section. Please read this material completely before proceeding.

CAUTION

Electronic components can be damaged by static electricity discharges. To avoid damage, do not touch the connector contacts.
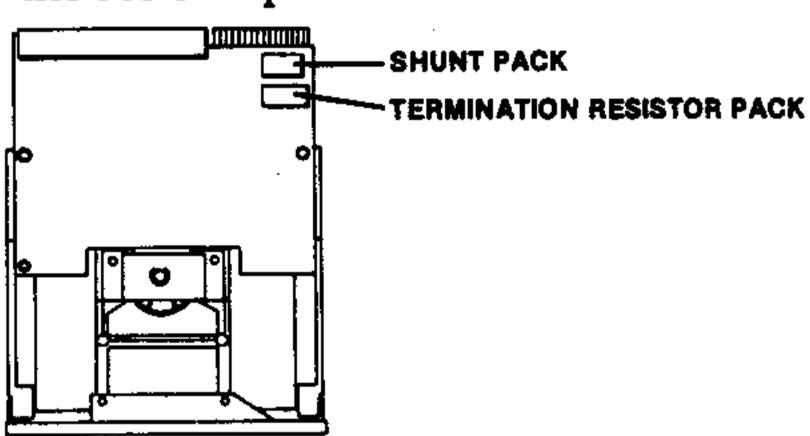

The Peripheral Expansion System unit has eight slots into which accessory cards can be inserted. The Peripheral Expansion Card must occupy slot number 1. (For information on setting up the peripheral system, refer to the Peripheral Expansion System owner's manual.) If you have an internal Disk Memory Drive (Model PHP1250) in the Peripheral Expansion System unit, the Disk Drive Controller Card must occupy slot number 8. Other cards can be inserted in any of the remaining slots.

Disk Drive Information

As it comes from the factory, a disk drive is ready to run as the only drive on your system. If you are using more than one drive, complete the following steps for all but one of the drives. The last external drive should be connected without being altered.

DO THE FOLLOWING ONLY IF YOU
ARE USING TWO OR THREE DRIVES!

1. WARNING: ALL POWER CORDS MUST BE DISCONNECTED FROM THE POWER OUTLETS DURING THE FOLLOWING PROCEDURE!
2. To remove the cover, do one of the following.
   - *Internal Disk Drive* — On the side of the disk drive is a tab located near the back of the drive. On the back of the drive is a hole designed to help lift the tab to remove the disk drive cover. Remove the cover by lifting the tab and then sliding out the drive's contents.
   - *External Disk Drive* — On all but one of your drives, use a Phillips-head screwdriver to remove the six screws that hold the cover. Lift the cover off.
3. Locate the main printed circuit board. On it, locate the termination resistor pack. It has 14 leads and looks like an integrated circuit. (*Note:* The main boards look slightly different on the internal and external drives, but the pack is in the same place on each.) Be careful not to disturb the strapping pack (or shunt pack, which is also removable) located very near the resistor pack.

SHUNT PACK

TERMINATION RESISTOR PACK

4. Remove the termination resistor pack by prying each end up slightly with a small screwdriver and then lifting it out. Pull straight up.
5. Save the single drive termination resistor pack so that you can reinsert it if the drive is ever to be used again as a single or last disk drive. If you do replace the pack, note that if the socket for the resistor pack has more holes than there are pins on the pack, the pack should be installed toward the outer edge of the circuit board, leaving the unused holes toward the center of the board.
6. Replace the cover on the drive, aligning and tightening the screws carefully. DO NOT OPERATE ANY UNIT WITHOUT REPLACING THE COVER.

The procedure for setting up the Disk Memory System depends on the type of disk drive(s) you have.

- If you have an internal drive only, see "Connecting the Controller Card to an Internal Disk Drive."

- If you are using an internal disk drive with one or more external disk drives, follow the directions in "Connecting the Controller Card to Both Internal and External Disk Drives."

- If you have one or more external drives and no internal drive, follow the directions in "Connecting the Controller Card to External Disk Drives."

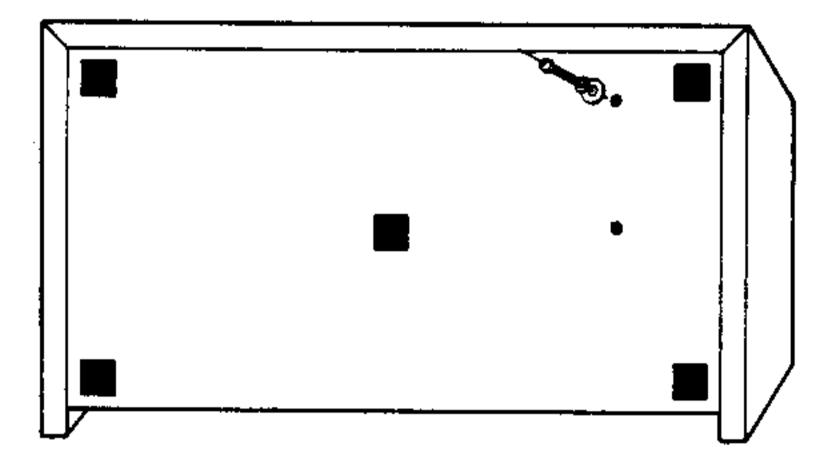## Connecting the Controller Card to an Internal Disk Drive

1. Turn off the computer console and all attached devices.
2. WARNING: TO AVOID DAMAGING ACCESSORY CARDS, WAIT TWO (2) MINUTES AFTER TURNING OFF THE UNIT FOR THE POWER TO DISCHARGE BEFORE PROCEEDING.
3. Remove the top from the peripheral system by lifting the back edge of the top and pulling up.
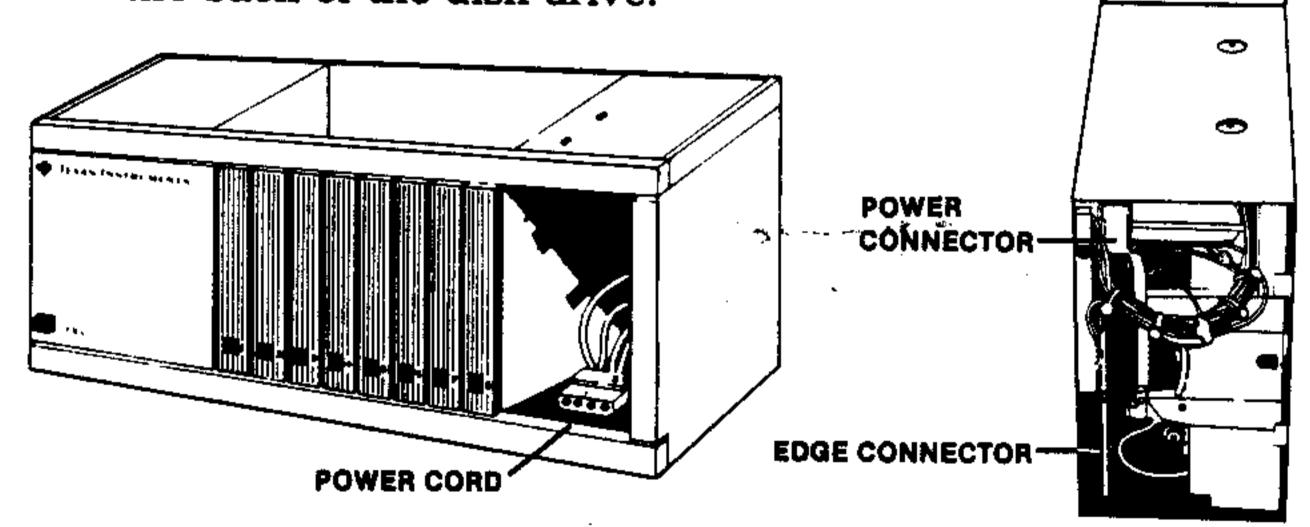4. Carefully place the Peripheral Expansion System on its left side (the disk drive compartment now should be at the top).

5. Two screws which support the front casing of the disk drive compartment are located on the top and bottom of the peripheral system. Remove these screws and place the peripheral system in its proper upright position.
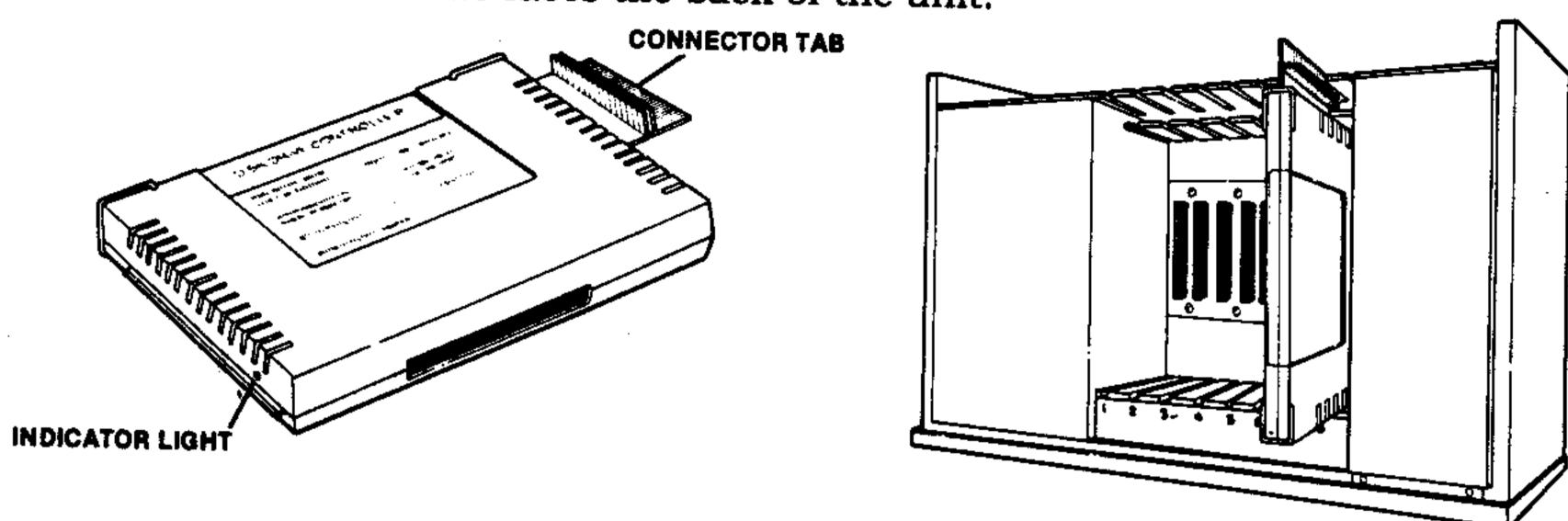6. Remove the front casing from the opening of the disk drive compartment.
7. A three-wire power cord is inside the compartment. One end of this cord is connected to the peripheral system. Plug the loose end of the cord into the four-pin connector on the back of the disk drive.

POWER CONNECTOR

EDGE CONNECTOR

POWER CORD

8. The connector cable included with the internal disk drive is designed to connect the drive to the Controller Card. Insert the connector cable through the opening at the back of the disk drive compartment so that the end with the edge connector is inside the compartment and the end with the 34-pin connector is by slot number 8.

9. Next, note that the label identifying the Disk Drive Controller Card is on the top of the card. On the front of the card is an indicator light. The light can be seen from the front of the peripheral system unit when the card is active. Hold the Disk Drive Controller Card so that the indicator light faces the front of the peripheral system and the connector tab faces the back of the unit.

CONNECTOR TAB

INDICATOR LIGHT

10. Carefully align the card with slot number 8 with the connector tab facing the back of the peripheral system. Slide the card halfway down into the slot.
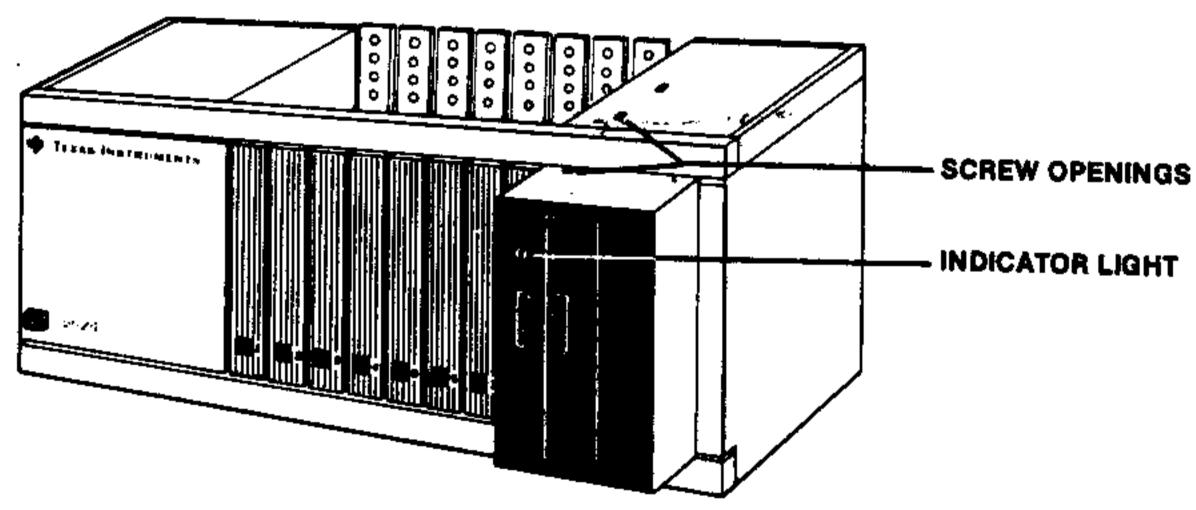11. Attach the 34-pin connector of the disk drive cable to the 34-pin connector on the side of the tab on the Controller Card.
12. Firmly press the Controller Card into the slot until the connection is made. Then take up any slack in the cable by pulling the excess through the opening into the disk drive compartment.
13. Attach the edge connector of the disk drive cable to the 34-pin connector tab on the back of the disk drive.
14. Slide the disk drive into the compartment so that the red indicator light is in the top left-hand corner. Note: Align the screw openings on the top and bottom of the peripheral system with the holes in the disk drive. If they do not line up, the drive may be in upside down.

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SCREW OPENINGS

INDICATOR LIGHT

15. Again, carefully place the peripheral system on its left side. Two extra screws are included with the internal disk drive. These screws are to be used to secure the drive in the peripheral system. Insert two screws into the openings on the bottom of the peripheral system. After they are secure, place the peripheral system in its proper upright position, and insert the other two screws in the openings on the top of the system.
16. Replace the top on the peripheral system by sliding the front edge under the extension on the front of the unit. Firmly press down on the back edge of the top. Do not run the system without the top in place: the top ensures proper ventilation. Note: If the top does not fit properly, remove the card and realign it in the slot, remembering to press down firmly until the connection is made.