
Getting Started with Your HP Touchscreen Personal Computer



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Introduction

Welcome to the HP Touchscreen Personal Computer! The HP Touchscreen PC is special in a lot of ways. It has a touchscreen that lets you work the computer by just pointing your finger at the screen. It also has a feature called P.A.M. (for Personal Applications Manager) that helps you to organize your applications. This means that you don't have to learn or remember a lot of computer instructions (or even know how to type) to work faster and get more done.

In this booklet, you will learn how to connect the different parts of your system and how to load (copy) application programs such as Personal Card File or MemoMaker into the computer so that you can begin working.

The HP Touchscreen Personal Computer is a powerful and versatile tool; the more you know about its capabilities, the more it will do for you. You use it with disc drives as a personal computer microcomputer. You can also use it as a computer terminal, and connect it to a larger system. You can use it with a variety of fixed or flexible disc drives (the HP 9122D and HP 9133D disc drives are covered in this booklet). You can use it with printers and plotters. You can also add accessory cards, for example, to increase the size of the computer's memory, to add a different type of printer, or to perform special functions.



This booklet is organized sequentially by the steps you need to take to connect the parts of your system and to start working with it. It is important to follow these steps in the recommended sequence. The entire set-up procedure should take about an hour if your system has the HP 9122D flexible disc drive, or about one and one-half hours if your system has the HP 9133D fixed disc drive. Then you'll be able to work with MemoMaker, Personal Card File, or other application programs you may have. You can stop at the end of any section and come back later; just begin where you left off.

This book will get you started using your HP Touchscreen Personal Computer. *Using Your HP Touchscreen Personal Computer* and *Using Your HP Touchscreen Personal Computer as a Terminal* will take you the rest of the way.

Important

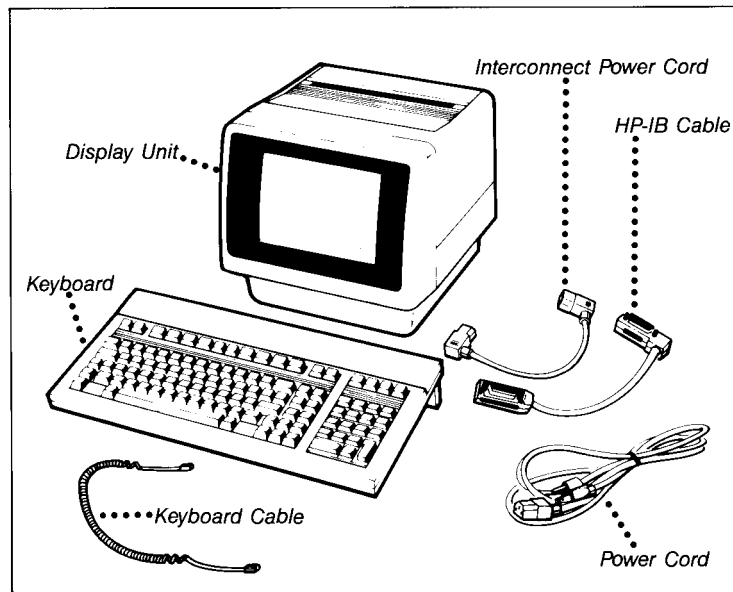
Keep this book even after you finish setting up your system. You will need it in the future if you add an accessory card or need to format a fixed disc or want to connect any kind of hardware.

1

Setting Up Your HP Touchscreen PC

Preparing the Display Unit

Your HP Touchscreen Personal Computer system includes a display unit, a keyboard, a coiled keyboard cable, an interconnect power cord and a power cord. You probably also have a disc drive; you may also have a printer or a plotter.



Before You Get Started

On the back inside cover of this booklet is a diagram showing the basic flow of the tasks you will go through to set up your HP Touchscreen PC. In addition, we've provided you with a chart labeled **Your HP Touchscreen's Vital Statistics**.

Use the diagram to guide you through the "getting started" activities. The diagram displays the main tasks necessary to ready your HP Touchscreen PC for productive use. The chapter in which the task is explained is also included. The dotted rectangles are optional activities. Your needs will dictate which of these optional tasks you'll have to do.

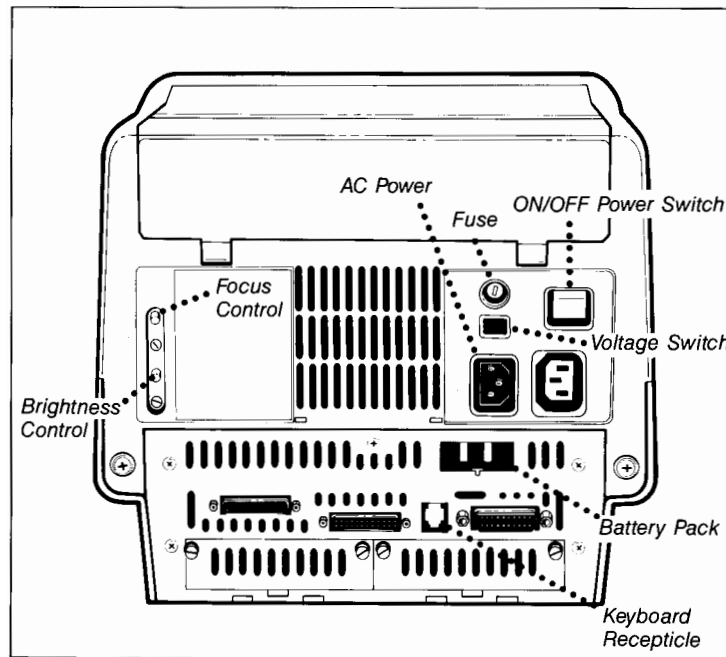
The chart is designed to help you keep track of the various peripherals and cables you'll be using when you set up your new Touchscreen PC. In fact, in Appendices A and B, as well as in Chapter 7, you may need to refer to the information you've written down below before you can go on to the next step.

Follow these steps to prepare your HP Touchscreen PC for use. Taking these steps will prevent possible damage to your system.

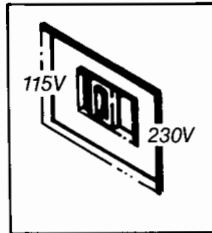
If you have a **display tilt unit** (HP part no. 92240A or C) for your HP Touchscreen PC, place the display unit in the tilt unit.

Make sure that the feet of the display unit fit into the small square holes in the base of the tilt unit. Press the buttons on both sides of the tilt unit to tilt the display unit to the angle you want.

1. Turn the display unit so that the back of it is facing you.



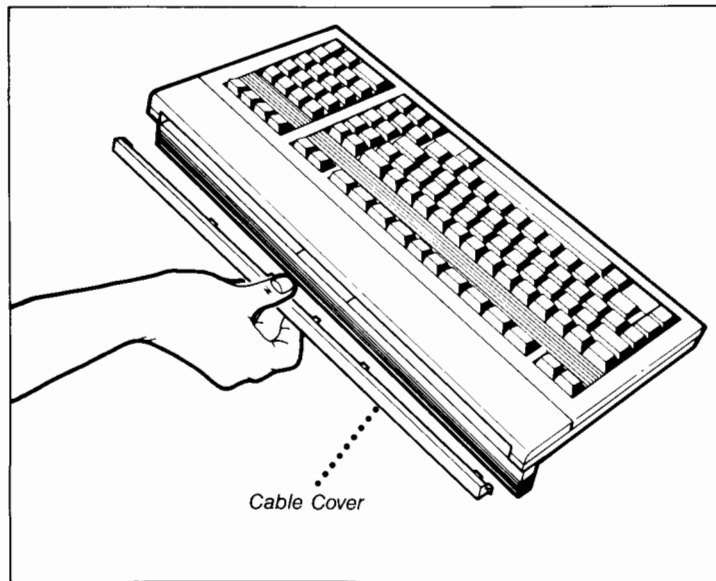
2. Turn the POWER switch OFF. (Press the lower half of the Power switch for the OFF setting. The red circle on the switch is visible when power is OFF.)
3. Set the LINE SELECT switch to the voltage in your area. For example, the voltage in the U.S. is 115 VAC as shown in the picture below. (To change the voltage setting to 115 VAC, use a ball-point pen to push the switch to the left. For 230 VAC, push the switch to the right.) Your HP Touchscreen PC will not work if the voltage setting is incorrect.



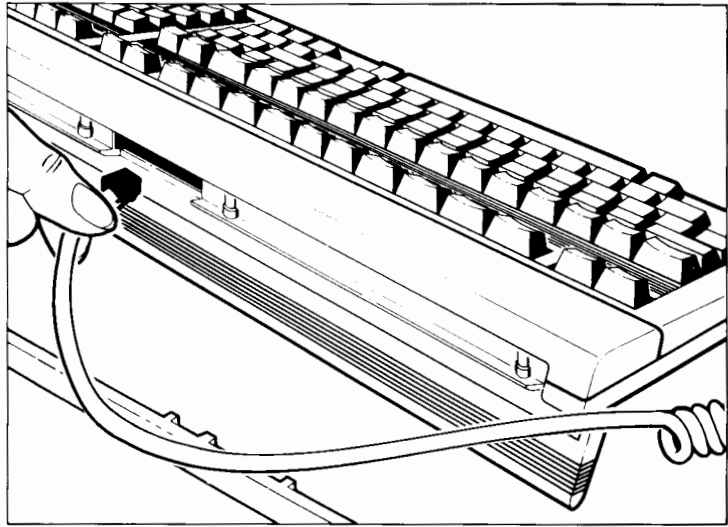
Connecting the Keyboard

Now you are ready to connect the keyboard to the display unit.

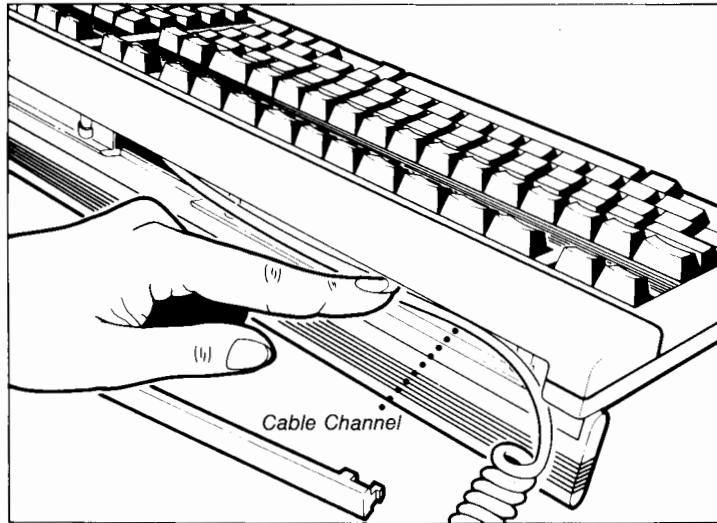
1. Turn the keyboard around so that the back is facing you.
2. Remove the cable cover from the back of the keyboard by gently squeezing the cover in the center and pulling it straight out.



3. Plug the longest straight section of the coiled keyboard cable into the jack at the rear of the keyboard.

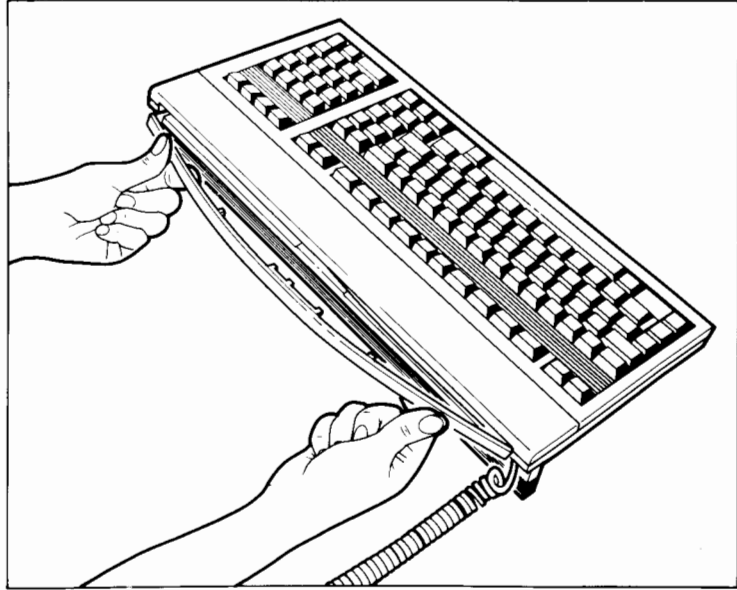


4. Place the uncoiled portion of the cable in either the right-hand or left-hand cable channel (the indentation) at the rear of the keyboard. Hold the cable in place with your finger. Make sure the cord lies in the indentation for the entire length of the keyboard, as shown below.



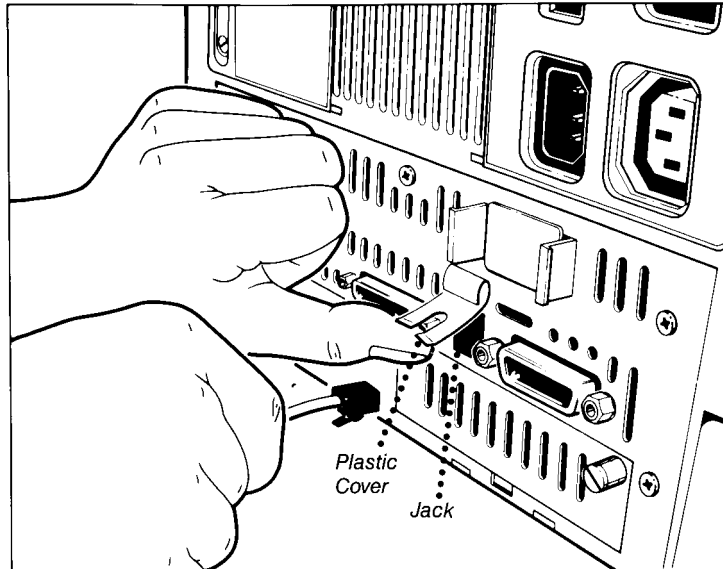
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5. Replace the cable cover. The cover's center tab fits below the cable jack. Gently bend the cover at the center and insert the ends of the cable cover into the notches at each end of the cable channel. Push the cover in so that it snaps back into place.



To avoid damaging your computer, **DO NOT** connect telephone lines, modem cables, or other connectors to the keyboard jack on the back of your display unit. **ONLY** the keyboard cable plug should be inserted in the keyboard jack.

7. (Optional) Flip out the built-in keyboard stand. The gray panel underneath the keyboard is the built-in keyboard stand. It flips out to tilt your keyboard for more comfortable typing.
6. Connect the other end of the keyboard cable to the jack labeled KEYBOARD ONLY (or KYBD) on the back panel of the display unit. (Lift up the plastic cover and insert the cable plug.)

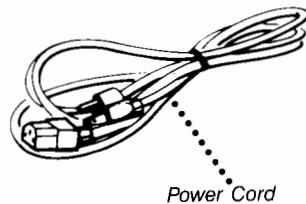


2

Starting Up Your HP Touchscreen PC — The Power-On Self-Test

When you turn on your HP Touchscreen Personal Computer, it tests itself to make certain it is working properly.

1. Plug the POWER CORD into the AC INPUT socket on the back of the display unit.



2. Then plug the other end of the power cord into an electrical outlet (a wall socket).



DO NOT USE EXTENSION CORDS UNDER ANY CIRCUMSTANCES! Extension cords can cause data errors and may also be a fire hazard. The power cord for your computer must be plugged into a grounded three-pronged outlet with a controlling circuit breaker. You may use a multiple-outlet strip if it meets these requirements.

3. Turn the POWER switch to the ON position.
(Press the top of the switch.)

When you turn the system on, you will hear the quiet, internal fan start up. The computer automatically carries out a Power-On Self-Test to make sure the system is operating correctly. The test takes about 30 seconds. If the test is successful, the system beeps and the following message appears at the bottom of the screen:

```
Load Op Sys failed, Op Sys device not found  
Press RETURN To Clear
```

This message means that the computer was trying to find certain information on a disc. Since you have not yet connected your disc drive, it could not get this information.

Each time you turn on your HP Touchscreen PC, the computer carries out this Power-On Self-Test.

4. Turn the POWER Switch OFF.

If Something Went Wrong

If the Power-On Self-Test fails, the following error message appears at the bottom of your screen:

Power on test failed (and a code number)

If nothing happens when you turn the system on, wait 60 seconds. If there is still nothing on the screen, check the following points:

- The POWER switch on the back of the display unit is turned on.
- The power cord is properly attached to the display unit and is plugged into an electrical outlet.
- The electrical outlet is functioning. (Check this by plugging a lamp or other electrical appliance into the same outlet.)
- The voltage setting is correct.
- The BRIGHT knob on the back of the display unit is not turned so low that the screen is completely dark. (The BRIGHT knob is the lower one of the two white knobs on the far left as you face the back of the display unit. Turn the knob clockwise to increase brightness).

If all of the above points check out and your system still does not work, your *Series 100 Support Guide* (a booklet contained in the literature envelope you received with your computer) lists the phone numbers to call for help with various problems. Call the appropriate support person for help.

3

Installing and Removing Accessory Cards

If you plan to install an accessory card (such as additional memory), you should do so now—before connecting your disc drive, printer, or plotter.* If you don't have any accessory cards, go to Chapter 4.

You can buy several types of accessory cards from Hewlett-Packard for your HP Touchscreen PC . Among other things, accessory cards let you:

- ✦ Add up to 384K bytes of memory to your HP Touchscreen Personal Computer
- ✦ Add a modem to your system
- ✦ Connect to a printer with a parallel interface
- ✦ Connect the HP Portable computer to your HP Touchscreen PC.



Static electricity that is present in your work environment can damage accessory cards. To avoid damage, carefully follow the directions for installing an accessory card. Be sure to hold the accessory card by the edges only.

The back of the HP Touchscreen PC's display unit has two covered slots for installing accessory cards.

* Installing accessory cards is much easier if no cables (such as those for printers, plotters, or disc drives) are connected to the back of the display unit.

Installing Accessory Cards

Specific instructions for installing a particular accessory card come with that card. You should read the information sheet or manual for your accessory card. However, the following steps apply to **all** accessory cards.



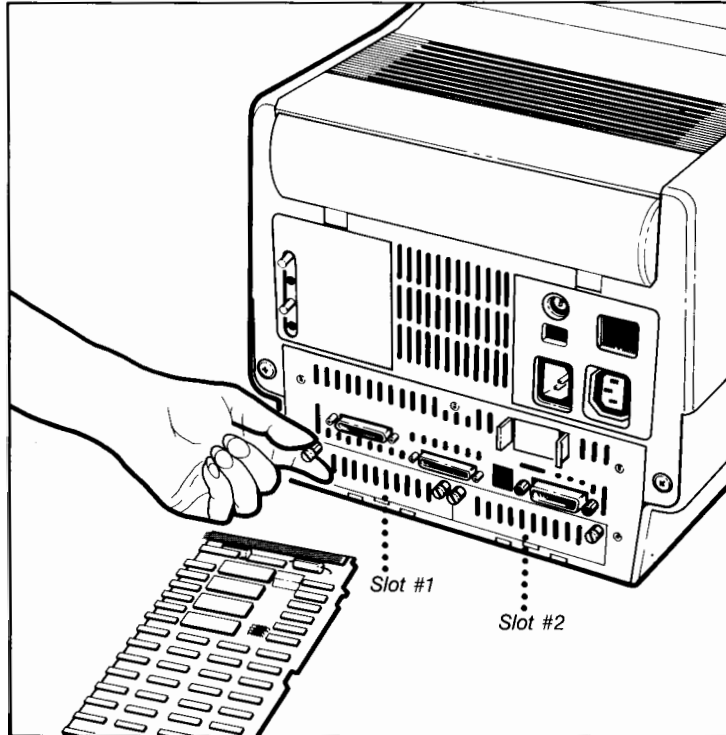
Hold the accessory card by the edges only. Touching the components may permanently damage the card or significantly reduce its life.

1. Turn your HP Touchscreen PC's display unit so that the back is facing you.
2. Turn OFF the POWER switch. To make installing easier, you may disconnect the cables for your disc drive(s), printer(s), or plotter(s).
3. Remove the cover plate for the accessory slot you want to use by unscrewing the fasteners. (You may use your fingers or a screwdriver for this.) These fasteners remain attached to the cover plate.



If you are installing an accessory card for additional memory (the letters RAM appear beside the part number on the accessory card), you must put it in Slot 1 (or Slot A).

- If the accessory card comes with a cover plate, save the cover plate you just removed. You will need it to cover the slot if you ever remove the accessory card.
- If the accessory card does not come with a cover plate, you will use the cover plate you just removed from your HP Touchscreen Personal Computer.

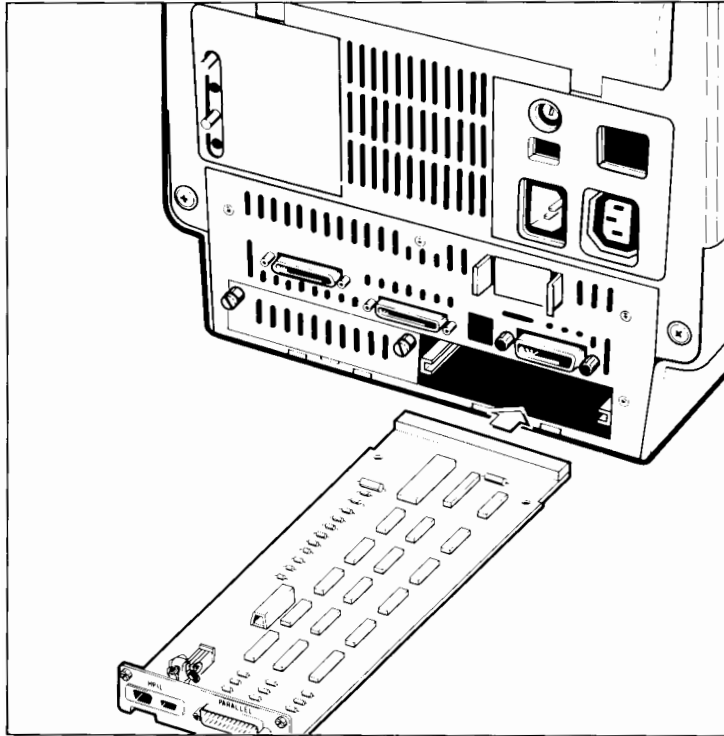


4. Take the accessory card out of the package. Save the special anti-static plastic bag. You may need it to store an accessory card that you remove.
5. Hold the accessory card by the edges with the components facing up. If your accessory card has plastic pieces on the two corners of one end, make sure the *other* end is pointing into the slot.



If the accessory card is not installed properly, it can be damaged.

6. Look *inside the accessory slot* and note the two grooved plastic strips on either side. Slide the card into the accessory slot so that the card's edges fit into the grooves of the plastic strips. Push the end of the card firmly with both thumbs until the end is flush with the back of the HP Touchscreen PC.





Be sure to cover the accessory slot with a cover plate. Otherwise, your HP Touchscreen PC may cause electrical interference with other equipment.

7. To cover the accessory slot:
 - a. Line up the fasteners on the cover plate with the holes at either side of the accessory slot.
 - b. Press the fastener in on one side of the cover plate so that its spring stays down while you tighten the fastener with your fingers. **Do NOT use a screwdriver to tighten the fastener.** Repeat for the fastener on the other side of the cover plate.
8. If you removed any cables connecting your disc drive(s), printer(s), or plotter(s), reconnect them. Check the information sheet or manual that came with your accessory card for information about connecting any other devices to the accessory card (such as a telephone if you installed a modem accessory card).

Removing Accessory Cards

If you want to remove an accessory card, follow the steps below. Also check the manual that came with your accessory card for more specific instructions.

1. Turn your HP Touchscreen PC's display unit so that the back is facing you.
2. Turn the POWER switch OFF. To make removing the accessory card easier, you may remove the cables connecting your disc drive(s), printer(s), or plotter(s).
3. Remove the cover plate on the accessory slot by unscrewing the fasteners. (You may use your fingers or a screwdriver to do this.) The fasteners remain attached to the cover plate. Store the cover plate with your accessory card for future use.



**Hold the accessory card by the edges only.
Touching the components may permanently
damage or significantly reduce its life.**

4. If your accessory card has plastic pieces at the corners, push them out, away from the center of the board. As these plastic pieces swivel, they start sliding the accessory card out of the accessory slot. Handling only the sides of the accessory card, gently pull it the rest of the way out of the slot.

To remove an accessory card that does not have plastic pieces at the corners, hold the accessory card by the edges and carefully pull it straight out.

5. Holding the accessory card by the edges only, put it in the special anti-static plastic bag in which it was shipped.
6. Cover the accessory slot with the cover plate that originally came with your HP Touchscreen Personal Computer's display unit.



Be sure to cover the accessory slot with a cover plate. Otherwise, your HP Touchscreen PC may cause electrical interference with other equipment.

7. Reconnect any cables that you may have disconnected.

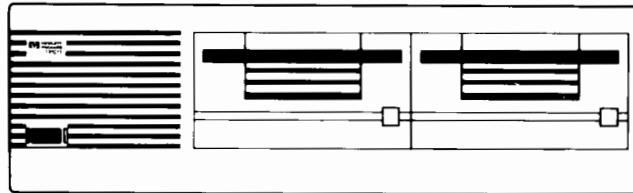
4

Getting Ready to Connect Your Disc Drive

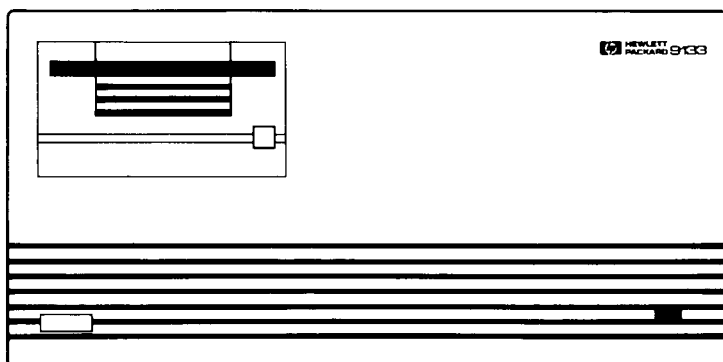
If You Have Either the HP 9122D or the HP 9133D Disc Drive

Now you are ready to connect your disc drive or drives. There are a number of disc drives available for the HP Touchscreen PC. In this book we cover the two disc drives that are most readily available to HP Touchscreen PC owners. Both use double-sided flexible discs. They are:

- The HP 9122D dual flexible disc drive. If you have the HP 9122D, read Chapter 5.



- The HP 9133D fixed disc drive. If you have the HP 9133D, read Chapter 6.



4-2 Getting Ready to Connect Your Disc Drive

If You Have a Different HP Disc Drive

If you have only one HP disc drive, but it is *not* the HP 9122D or the HP 9133D, read *More about Connecting HP Printers, Plotters and Disc Drives*, which is included in this binder. In addition, the manual for your disc drive will give you more information.

Here is what to do once you have connected a disc drive that is *not* the HP 9122D or the HP 9133D:

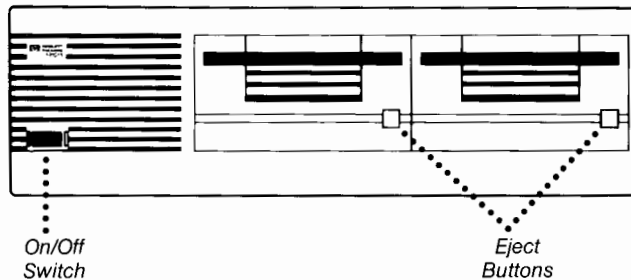
- ❖ If your disc drive is a dual flexible disc drive, go to the section entitled **Loading the Operating System** in Chapter 5.
- ❖ If your disc drive is a fixed disc drive, go to the section entitled **Loading the Operating System** in Chapter 6.



5

Connecting the HP 9122D Flexible Disc Drive

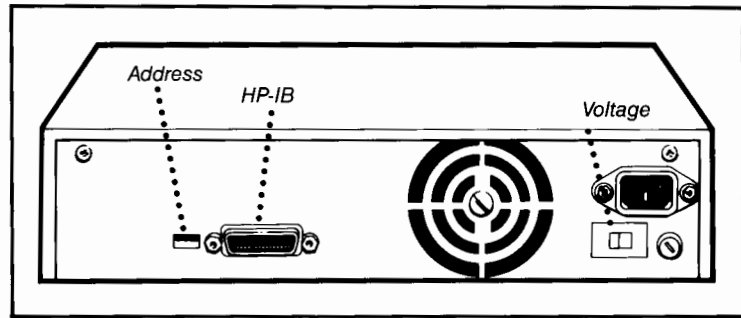
Preparing the HP 9122D Disc Drive



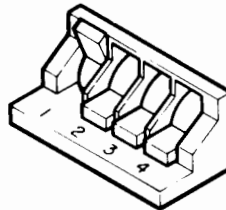
Before you install your HP 9122D disc drive, you should take the following preliminary steps. They will prevent you from losing data later on:

1. Make sure the **POWER** switch on the front of the disc drive is in the OFF position. (The power switch, marked **LINE**, has two positions. When the button is pushed in, the power is ON, and when it sticks out, the power is OFF.)

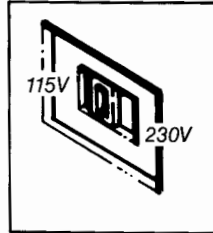
2. Turn your disc drive around so that you are looking at its back panel.



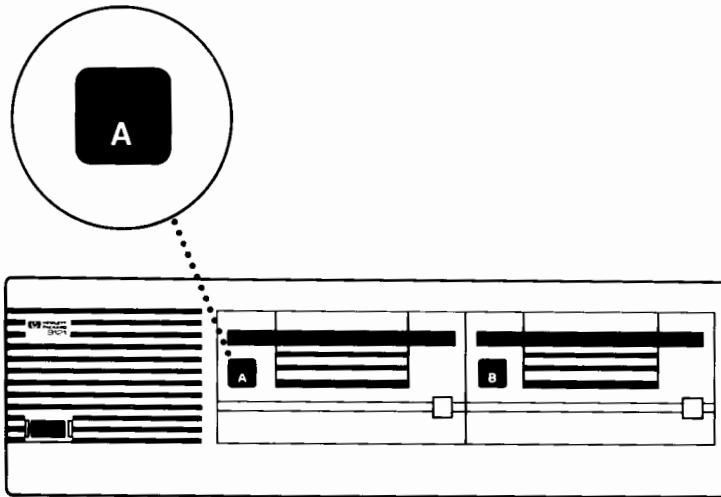
3. Make sure the address switches are set as shown below. (You may use a ball point pen to set the switches.) The left-most switch is up and the others are down.



4. Make sure the voltage switch is set to the voltage in your area. The voltage in the U.S. is 115 VAC, as shown in the illustration below. (To change the voltage setting, push the switch to the left with a ball-point pen for 115 VAC or to the right for 230 VAC.)

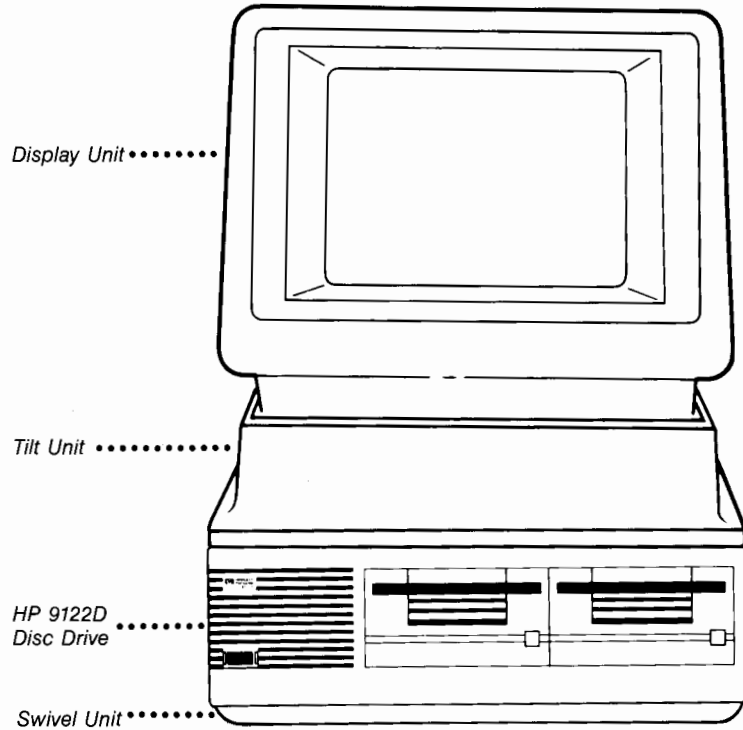


5. Now turn your disc drive around so that you are looking at the front panel.
6. Take out the sheet of stickers from the back of this binder. Place the A sticker under the left disc drive, and the B sticker under the right disc drive. (A and B are the "names" that the computer uses to find which drive a disc is in.)



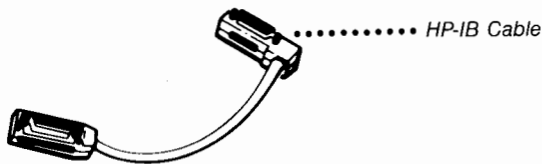
Connecting the Disc Drive to the Display Unit

1. Make sure the POWER switch on the back of the display unit is OFF.
2. If you have a **swivel unit** for your HP Touchscreen PC, place it under the disc drive so that when you stack all of your equipment (disc drive, tilt unit (if any), display unit) the entire stack can be rotated right or left.
3. Place your display unit on top of the disc drive.

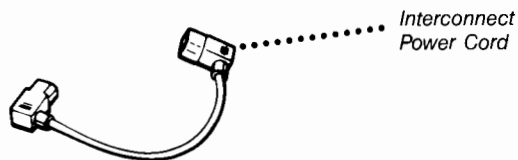


5-4 Connecting the HP 9122D Flexible Disc Drive

4. Turn the display unit and the disc drive around so that the back faces you.
5. Find the HP-IB cable as pictured below.

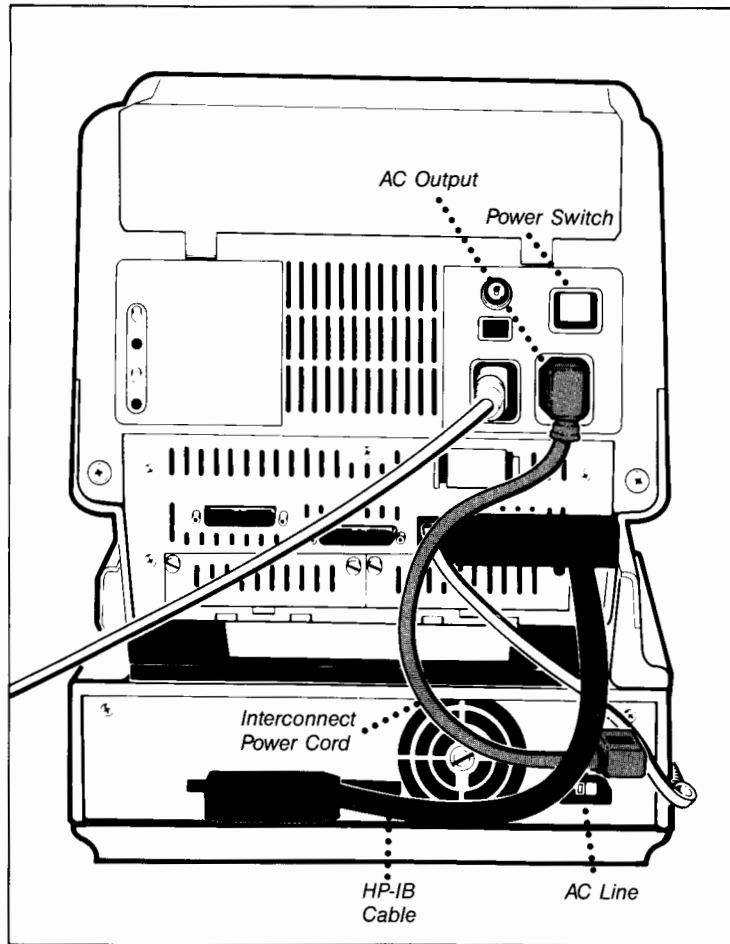


6. Connect the HP-IB cable to the display unit and the disc drive, as shown in blue on the next page. Notice that the cable's ends are different. Use the picture to see which end goes to which plug. (The connection points are labeled on the back panels of the disc drive and display unit.) Plug the cable ends in. Use your fingers to tighten the screws. **DO NOT USE A SCREWDRIVER.**
7. Find the interconnect power cord shown below.



8. Plug one end of the Interconnect Power Cord into the AC OUTPUT outlet on the back of the display unit and the other end into the AC LINE socket on the back of the disc drive, as shown in red on the next page.

Now you are ready to turn on your disc drive.



5-6 Connecting the HP 9122D Flexible Disc Drive

9. Turn on the computer's POWER switch on the back of your display unit.
10. Turn the disc drive's power switch ON. (Press the button, marked LINE, on the front of the drive one or two times until the button remains pushed in.)

The system should be on now. You might see a red light on the front of the drive blink on and off, once or twice, rather quickly. If you don't see the light, don't worry; it flashes only briefly.

You will see the following message on the screen after a few seconds:

```
Load Op Sys failed, Op Sys disc not found
Press RETURN To Clear.
```

This message is similar to the one you saw when you did the Power-On Self-Test. Even though you have now attached the disc drive, you still haven't put in a disc. The system is looking for a disc which, of course, is not there.

If Something Went Wrong

If this particular message does not appear, check that:

- ❖ The disc drive's power switch is ON.
- ❖ The computer's **POWER** switch is ON.
- ❖ The interconnect power cord is plugged into the AC OUTPUT outlet on the back of the display unit and into the AC LINE socket on the back of the disc drive.
- ❖ The HP-IB cable is firmly connected.
- ❖ The electrical outlet that the display unit is plugged into is functioning. (You might try plugging a lamp into the same wall outlet or multiple-outlet strip.)

If you are still not getting any response from your system, call your dealer or your HP support person—as listed in the *Series 100 Support Guide* (which is included in the literature envelope with your Touchscreen PC).

Leave Drive Power Switch ON

Because you have connected the disc drive to the display unit with the interconnect power cord, your disc drive receives its power from the display unit. Leave the disc drive's power switch ON all of the time and turn only your display unit's switch ON and OFF. This will turn both the display unit and the disc drive ON and OFF.

-
- 11.** Turn OFF the computer's POWER switch (on the back of the display unit).

Connecting Your Printer or Plotter

At this point, you are ready to connect any printers or plotters you may have. Appendix A gives instructions on how to connect these printers and plotters:

- ❑ HP 2674A Internal thermal printer
- ❑ HP 2225A ThinkJet thermal inkjet printer
- ❑ HP 2601A Daisywheel printer
- ❑ HP 2602A Daisywheel printer
- ❑ HP 7470A Plotter
- ❑ HP 7475A Plotter

If you have a different printer or plotter, refer to the booklet called *More about Connecting HP Printers, Plotters, and Disc Drives*, that comes in this binder or refer to the manual that came with the printer or plotter.

Now turn to Appendix A to connect your printer and/or plotter.

After you have connected the printer(s) and/or plotter(s) to your HP Touchscreen Personal Computer, you must load the operating system. This is explained in the next section.

Loading the Operating System

As you may know, you must start each computer session by having the computer load the operating system—the “brains” of the computer—from a disc into memory. When the operating system is loaded, it still exists on the flexible disc, but a copy of it has been put into the computer’s memory. This procedure is also called “booting up.”

1. Make sure the computer is turned OFF.
2. Remove the disc labeled System Work Disc from the back of this binder. Be sure you have the *System Work Disc*, and not the System Master Disc.

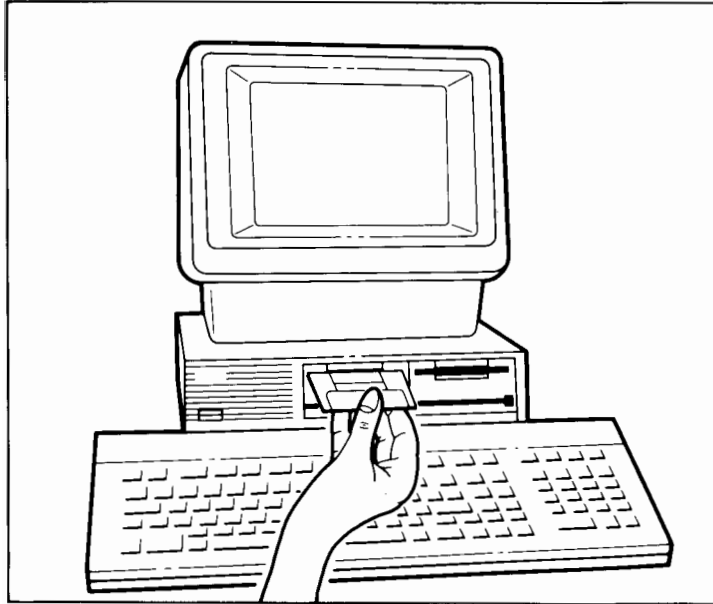


For most purposes, use a work disc (such as your System Work Disc) and not the master disc. In this way, you will protect your master discs from being damaged. Master discs should be used only for making work discs. You cannot make a work disc from a work disc.



Flexible discs are sensitive. Don’t leave them anywhere where they will be exposed to excessive heat, dust, or moisture. Keep your discs away from sources of magnetism, including telephones. For more information, see the chapter on **Discs** in *Using Your HP Touchscreen Personal Computer*.

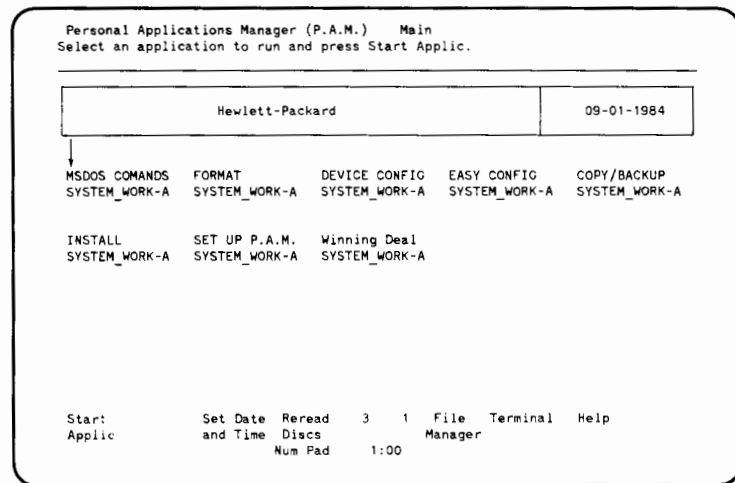
3. Hold the disc so that the label is on top and the metal part (auto-shutter) is away from you.
4. Insert the disc into drive A. Push the disc gently, but firmly, until it clicks into place. (To remove a disc, push the button below the drive.)





NEVER remove a disc when the red light under the disc drive is on. If you do so, you may destroy the information on your disc.

5. Turn the computer ON. Remember that your disc drive receives its power from the display unit; so you should always leave the disc drive on. This display should appear on your screen after a few seconds:



This is the Personal Applications Manager (P.A.M.) Main menu. P.A.M. helps you manage your application programs.

If Something Went Wrong

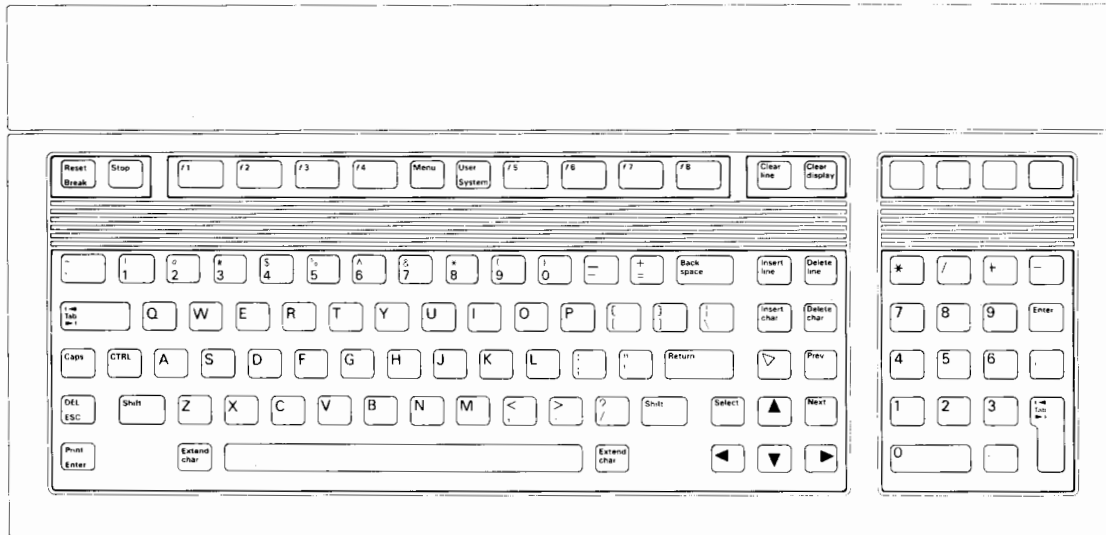
If the message

Load OP Sys failed. Op Sys device not found.
Press RETURN To Clear.

appears on the screen, do a hard reset.

Hard Reset

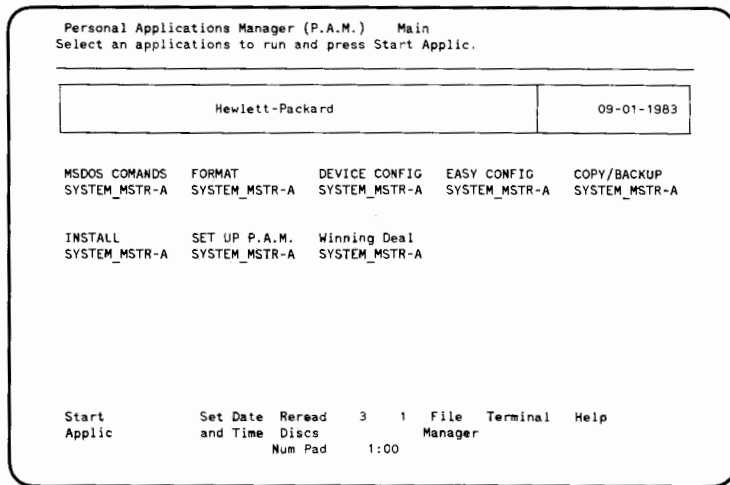
To do a hard reset, hold down the **CTRL** key and the **SHIFT** key and press the **Reset Break** key at the same time. Then release all three.



Screen Messages

Notice that the name of the menu (for example, Main), appears in the middle of the top line of the screen. The second and third lines often display special instructions or error messages.

There are eight large boxes on the screen, as pictured below:



Each box contains the name of an application found on your System Work Disc. Notice that the first box, MSDOS COMANDS , is highlighted. If you touch FORMAT , The highlight is no longer on MSDOS COMANDS , but is on FORMAT . Whichever application name you touch becomes highlighted. Do not touch any of the small boxes at the bottom of the screen.

Made a Mistake?

Did you touch the wrong box? If you touched `Start Applic` you actually started one of the applications.

If you have a blank screen with an `A>`, you are in MSDOS COMANDS. To get back to P.A.M., just type `EXIT` and press .

If you see a set of labels in the boxes at the bottom of your screen which don't match the ones at the bottom of the P.A.M. Main menu, just touch the label that has the word `Exit` on it.

If there is no label that says `Exit`, do a hard reset.

Configuring Your Disc Drive and Other Devices

You will only have to configure your disc drive once, unless you add new drives later. Also, if you have connected printers, plotters, a modem, or other devices, you should configure them now. You need to configure all these devices to let the HP Touchscreen PC know where they are. Go to Appendix B to find out how to configure your entire HP Touchscreen Personal Computer system.

Running the System Demo

Now that you have connected your disc drives and loaded the operating system into the computer's memory, you can check to see if you have been successful by running the System Demo. You'll find it on the Application Work Disc in this binder. The System Demo application shows you some of the interesting features of the HP Touchscreen Personal Computer.

Here's what you must do to run System Demo:

1. Make sure the P.A.M. Main menu is on the screen.
2. Insert the disc labeled Application Work Disc in drive B.

Function Labels and Function Keys

The eight boxes at the bottom of your screen are touch-sensitive function labels. They correspond to the dark gray function keys, numbered **[f1]** to **[f8]**, on the top row of your keyboard. You may choose a function by touching the function label or by pressing the corresponding function key on your keyboard.

3. Touch `Reread Discs` or press `[F4]`.

After a few seconds, a new set of application boxes will appear on the P.A.M. Main menu.

4. Touch the box that says `System Demo` to highlight it.

5. Touch `Start Applic .`

The message `Loading System Demo` will appear at the top of the screen while the `System Demo` is being loaded into the computer's memory. Then the demonstration will begin.

Note that the second and third lines of the screen are reserved for directions and error messages. If nothing seems to be happening, read the second and third lines. It could be that the computer is waiting for you! For example, after the `System Demo` has been running for a few seconds, a screen will appear with the message

Touch your area of interest.

Touch one of the pictures on the screen.



NEVER remove a disc from the disc drive while the red light is on. If you do, you may ruin your disc.

When you are through looking at System Demo, look for a box labeled EXIT DEMO in the lower right-hand side of the screen. Touch it to return to the P.A.M. Main menu. If there is no EXIT DEMO box, do a hard reset.

At this point you are ready to begin using your HP Touchscreen as a personal computer. If you choose to continue, you may use an application on your System Work Disc — Winning Deal — which includes several card games you can play against the computer. The booklet *Winning Deal* is included in this binder.

Or, if you like, you can begin using MemoMaker or Personal Card File, the two applications you received with your Touchscreen PC. You'll find their booklets — *Setting You Free with MemoMaker* and *Setting You Free with Personal Card File* in this binder also. They will give you hands-on practice and teach you the application's basic features.

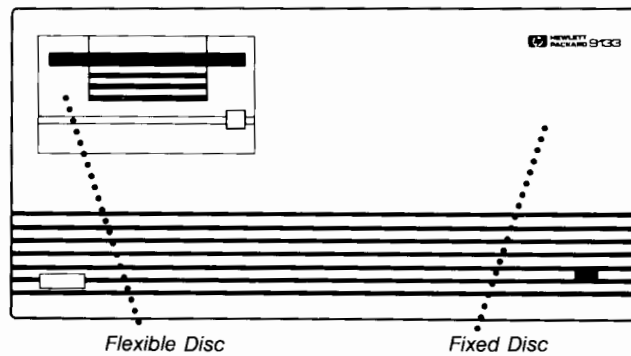
If you wish to use your HP Touchscreen PC as a terminal, go to Chapter 7, **Connecting Your HP Touchscreen PC to Use It as a Terminal**. Or you can set up your HP Touchscreen as a terminal at some later date.

6

Connecting the HP 9133D Fixed Disc Drive

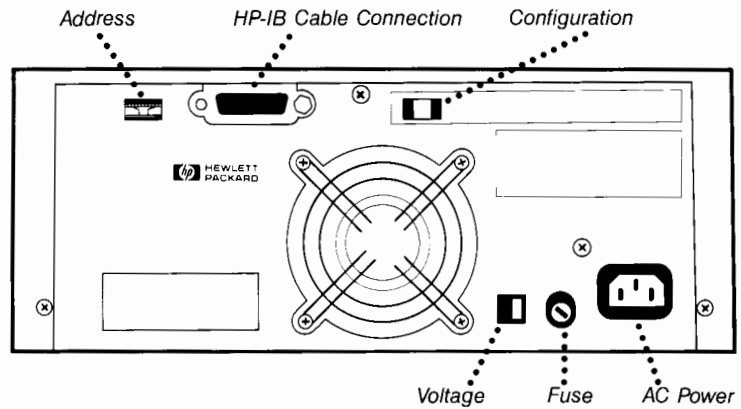
Preparing the HP 9133D Disc Drive

Your HP 9133D disc drive contains one disc drive for flexible (floppy) discs and one drive for your fixed (hard) disc. You can't see your fixed disc or its drive. They are built into the disc drive unit. You will use your flexible drive for tasks like installing new applications (software) onto your fixed disc and creating backup discs.



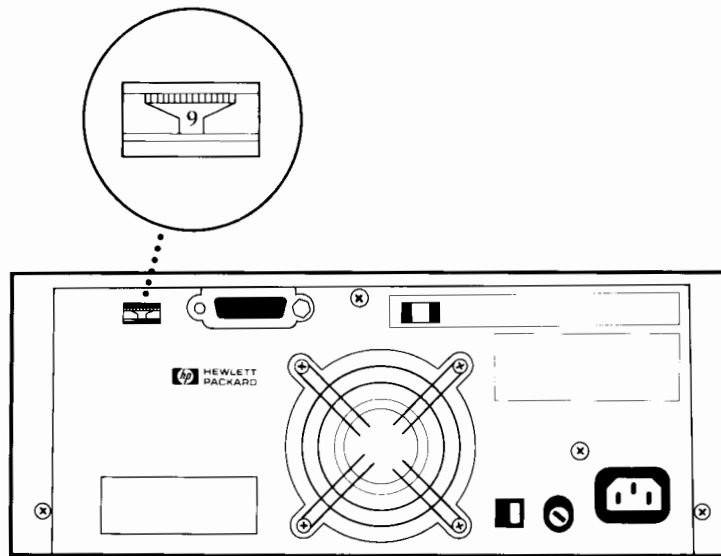
To prevent data loss, you must now take the following steps:

1. Make sure the power switch on the front of the disc drive is in the OFF position. (The power switch, marked LINE, has two positions. When the button is pushed in the power is ON, and when it sticks out the power is OFF.)
2. Turn your disc drive around so that you are looking at the back panel.

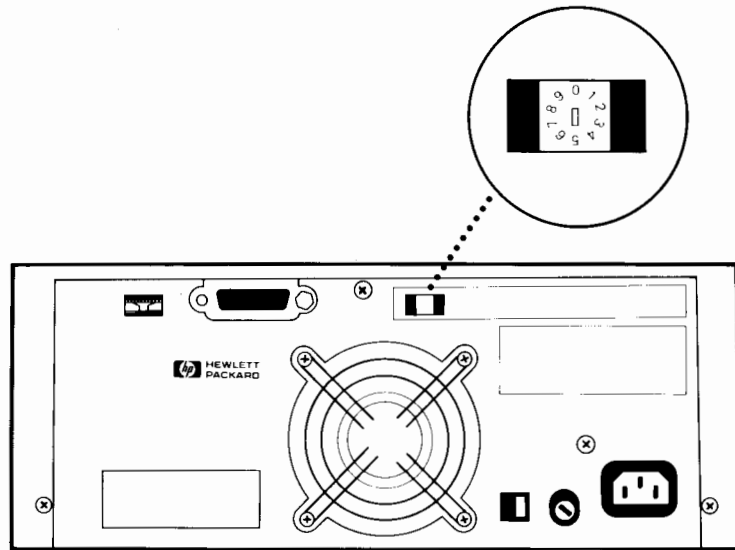


Your HP 9133D fixed disc drive is fragile. Dropping it more than one inch can cause permanent damage.

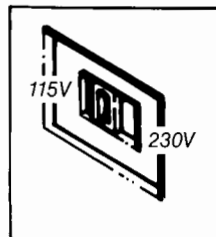
3. Set the address wheel to 9 as the illustration shows.



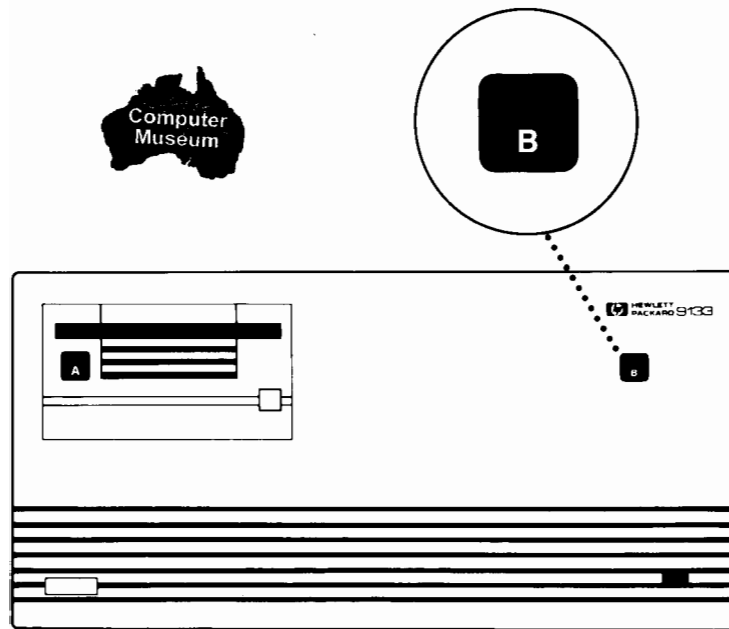
4. Make sure the setting of the configuration switch is 0. (If it is not at 0, use a screwdriver to change it.)



5. Make sure the voltage switch is set to the voltage in your area. The voltage in the U.S. is 115 VAC, as shown in the illustration below. (To change the voltage setting, push the switch to the left with a ball point pen for 115 VAC and to the right for 230 VAC.)

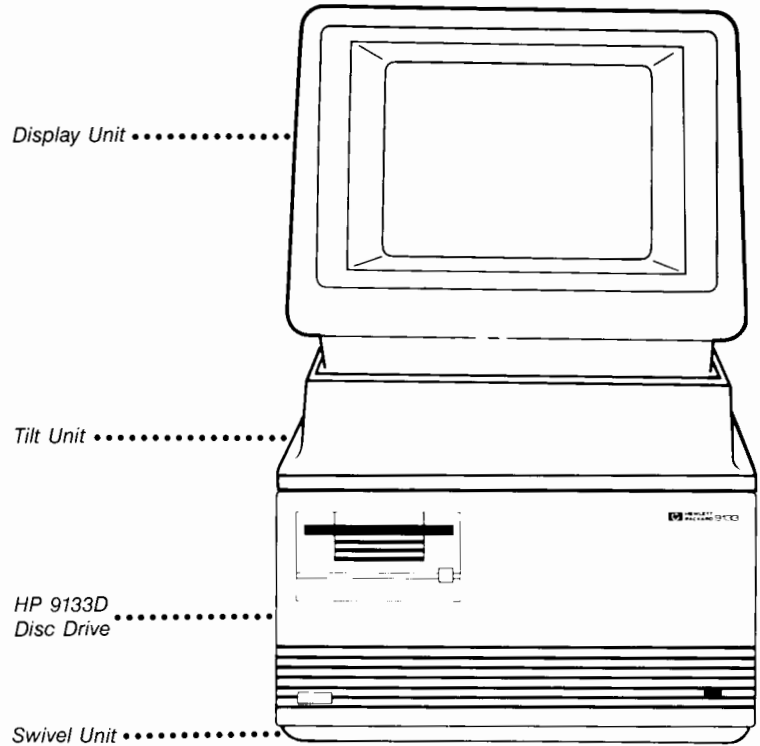


6. Turn your disc drive around, so that the front panel faces you.
7. Take out the sheet of stickers from the back of this binder. Place the A sticker below the flexible disc drive, and the B sticker over the fixed disc drive. (A and B are the "names" the operating system will use to find which drive a disc is in.)



Connecting the Disc Drive to the Display Unit

1. If you have a **swivel unit** for your HP Touchscreen PC, place it under the disc drive so that when you stack all of your equipment (disc drive, tilt unit — if any, display unit) the entire stack can be rotated right or left.
2. Place your display unit on top of the disc drive.



3. Turn the display unit and the disc drive around so that the back faces you.
4. Find the HP-IB cable as pictured below.



5. Connect the HP-IB cable to the display unit and the disc drive, as highlighted on the next page. Notice that the cable ends are different. The picture shows which end goes to which plug. (The connection points are labeled HP-IB on the back panels of the disc drive and display unit.) Using your fingers, secure the cable by tightening the screws on each cable end to the connection. **DO NOT USE A SCREWDRIVER.**

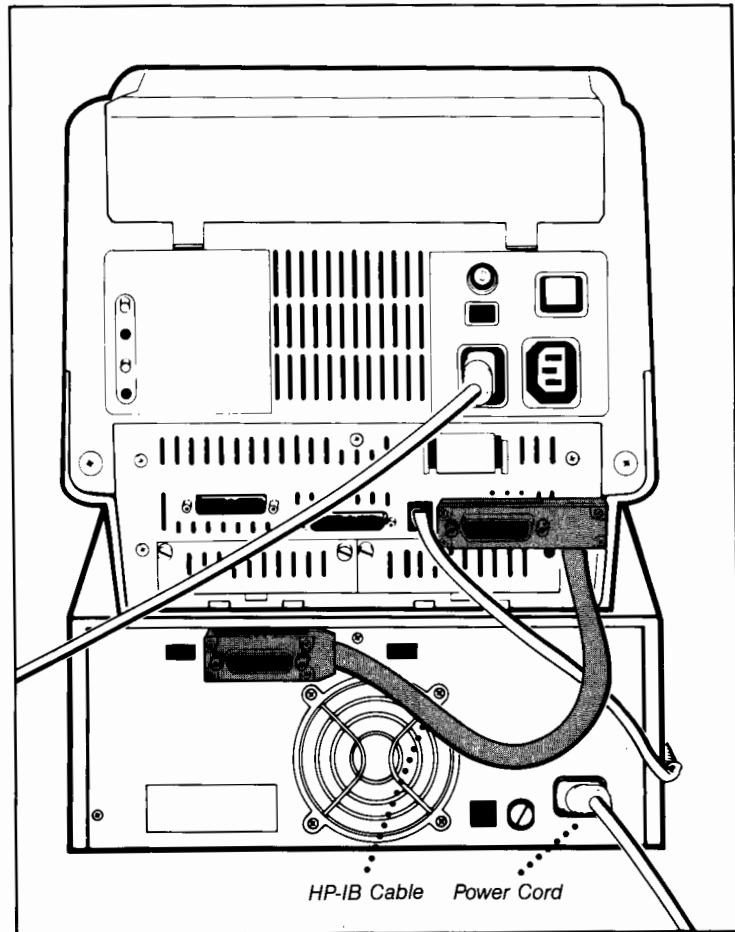


Do not use an interconnect power cord with the HP 9133D. It may draw too much power.

6. Find the power cord pictured below.



7. Plug one end of the disc drive's power cord into the AC LINE outlet on the back of the disc drive and the other end into a wall socket.



6-8 Connecting the HP 9133D Fixed Disc Drive



DO NOT USE EXTENSION CORDS UNDER ANY CIRCUMSTANCES! Extension cords can cause data errors and may also be a fire hazard. The Power cord for your computer must be plugged into a grounded three-pronged outlet with a controlling circuit breaker. You may use a multiple-outlet strip if it meets these requirements.

8. Turn the disc drive's power switch ON. (Press the button marked LINE on the front panel one or two times until the button is pushed IN.)

You may now hear the whirring noise of the drive and fan. You may also see a red light and a yellow light on the front of the drive. The red light indicates that the disc drive is looking for information on the disc. The yellow light indicates that the system is performing a self-test.* Both lights should go off after about 60 seconds.

If Something Went Wrong

- ✦ If you don't hear or see anything, check that:
 - The disc drive's power switch is ON.
 - The disc drive's power cord is plugged into the AC LINE outlet on the back of the disc drive and into the wall outlet.
 - The electrical outlet that the disc drive is plugged into is functioning. (Try plugging a lamp into the wall outlet or multiple-outlet strip.)

If you are still not getting any response from your disc drive, call your dealer or the appropriate HP support person from the list in your *Series 100 Support Guide* (included in the literature envelope you received with your Touchscreen PC).

- ✦ If the yellow "fault" light does not go off after 60 seconds, turn off the disc drive. Then turn it on again and let it repeat the self-test. If the fault light is still on after this self-test, call your dealer or the appropriate HP support person from the list in your *Series 100 Support Guide*.

Because your disc drive and your display unit are connected separately to the power, when you use your system, you must remember to turn on both your disc drive *and* your display unit.

** In other situations, the yellow light can indicate other conditions.*

Connecting Your Printer or Plotter

At this point, you are ready to connect any printer(s) or plotter(s) you may have. Appendix A gives instructions on how to connect these printers and plotters:

- ✧ HP 2674A Internal thermal printer
- ✧ HP 2225A ThinkJet thermal inkjet printer
- ✧ HP 2601A Daisywheel printer
- ✧ HP 2602A Daisywheel printer
- ✧ HP 7470A Plotter
- ✧ HP 7475A Plotter

If you have a different printer or plotter, refer to the booklet called *More about Connecting HP Printers, Plotters, and Disc Drives* that comes in this binder or to the manual that came with the printer or plotter.

After you have connected the printer(s) and/or plotter(s) to the computer, you must tell the computer what kind of equipment you have connected. This process is called **configuring**.

Turn to **Appendix A** now to install your printer(s) and plotter(s). Then come back to the next section of this chapter.

Loading the Operating System

Before you can use your computer, you must load the operating system—the “brains” of the computer—from a disc into memory. When the operating system is loaded, it still exists on the disc, but a copy of it has been put into the computer’s memory. This procedure is also called “booting up.”

Later on when you format your fixed disc, the operating system will be loaded automatically every time you turn on your computer. But for now, you must use the System Work Disc to get your system started.

This is how you load the operating system into computer memory:

Remove the disc labeled System Work Disc from the back of this binder. Be sure you have the *System Work Disc*, and not the System Master Disc.



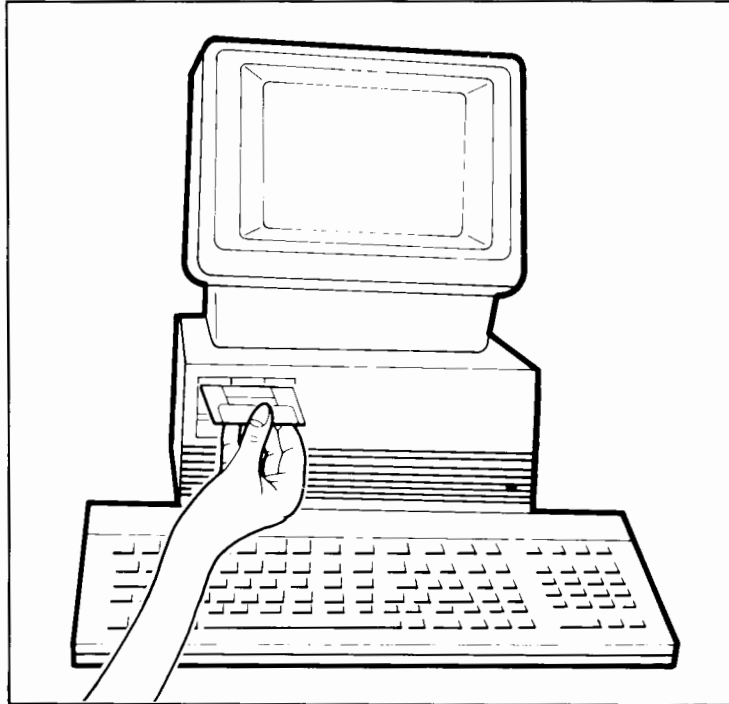
For most purposes, use a work disc (such as your System Work Disc) and not a master disc. In this way, you will protect your master disc from being damaged.

Master discs should be used only for making work discs. You cannot make a work disc from a work disc.



Flexible discs are sensitive. Don’t leave them where they will be exposed to excessive heat, dust, moisture, or sources of magnetism, including telephones. For more information, see the chapter on **Discs** in *Using Your HP Touchscreen Personal Computer*.

2. Hold the disc so that the label is on top and the metal (auto-shutter) is away from you.
3. Insert the disc into the flexible disc drive. Push the disc gently, but firmly, until it clicks into place. (To remove a disc, push the button below the drive.)



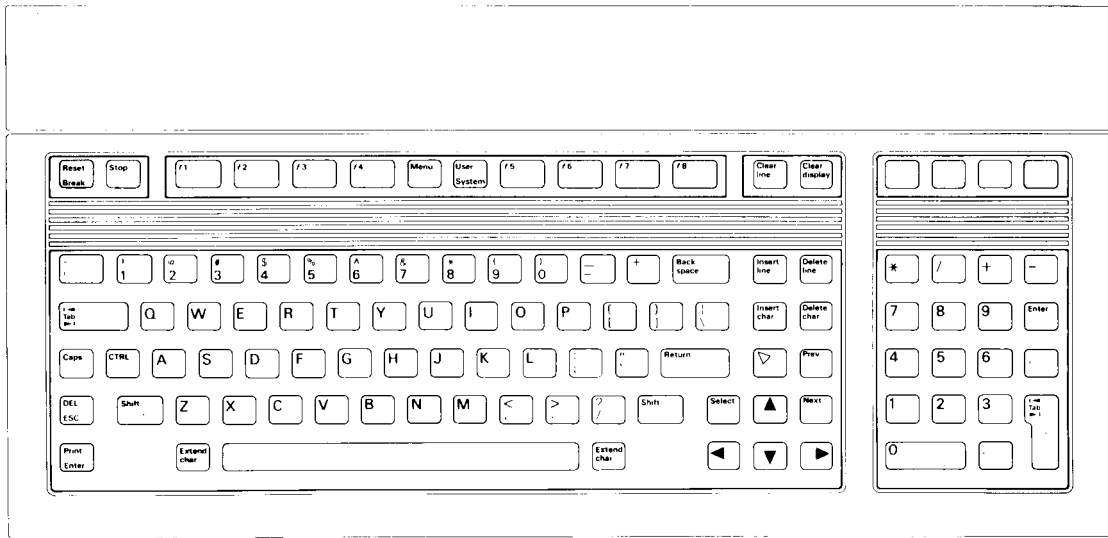
Never remove a disc from the disc drive while the red light is on. If you do, you may destroy the information on the disc.

4. Make sure your disc drive is turned on. The button marked LINE should be pushed IN.
5. Make sure the computer is ON.
6. If the message:

Load Op Sys failed. OP Sys disc not found
Press RETURN To Clear.

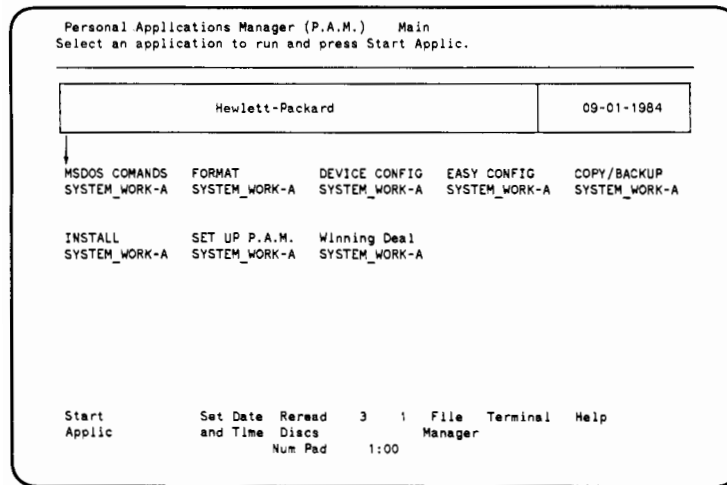
appears on the screen, do a hard reset.

To do a hard reset, hold down the **CTRL** key and the **SHIFT** key and press the **Reset Break** key at the same time. Then release all three.



6-14 Connecting the HP 9133D Fixed Disc Drive

This display should come onto your screen after a few seconds:



This is the Personal Applications Manager (P.A.M.) Main menu. P.A.M. makes managing your applications easy.

There are eight large boxes on the screen. Each box contains the name of a P.A.M. application found on your System Work Disc.

Notice that the first box, `MSDOS COMANDS`, is highlighted. If you touch `FORMAT`, the highlight is no longer on `MSDOS COMANDS`, but is on `FORMAT`. Whichever application name you touch becomes highlighted. Do not touch any of the small boxes at the bottom of the screen yet.

Made a Mistake?

Did you touch the wrong box? If you touched `Start Applic` , you actually started one of the applications.

If you have a blank screen with an `A>`, you are in MSDOS COMANDS. To get back to P.A.M., just type EXIT and press .

If you see a set of labels in the boxes at the bottom of your screen which don't match the ones at the bottom of the P.A.M. Main menu, touch the label that says `Exit` .

If there is no box that says `Exit` , do a hard reset.

Formatting the Fixed Disc

Before you use a new, blank disc for the first time, you must format it. Formatting is the process of preparing a blank disc to store information.

You use an application program on your System Work Disc to format your fixed disc. At the same time that you format your disc, you will be putting your operating system onto it. This is the first step of a process that will allow you to load the operating system without inserting the System Work Disc.

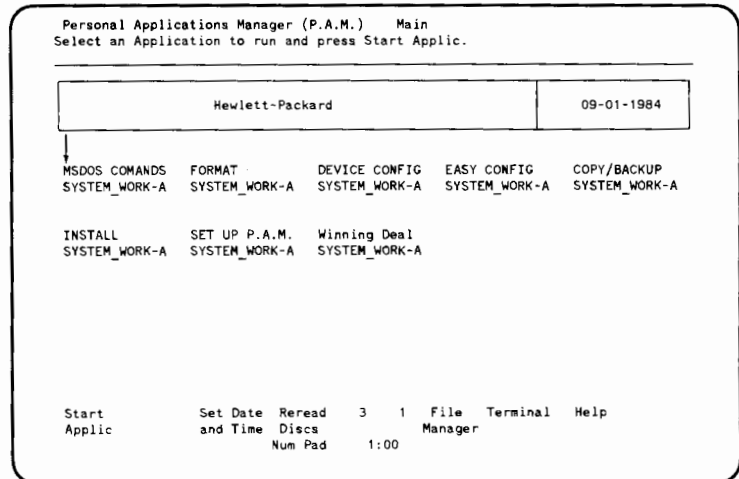
The formatting procedure for the fixed disc may take 30 to 45 minutes.



If you format a disc which already has information on it (programs, applications, files, etc.), the information will be destroyed during the formatting process.

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HP-9133D-001

1. Look at the P.A.M. Main menu. If it isn't on your screen, follow these steps:
 - a. Make sure your computer and disc drive are ON.
 - b. Insert the System Work Disc in drive A.
 - c. Do a hard reset. (Hold down the **CTRL** and **SHIFT** keys and at the same press the **Reset Break** key.)The P.A.M. Main menu will now be on your screen.

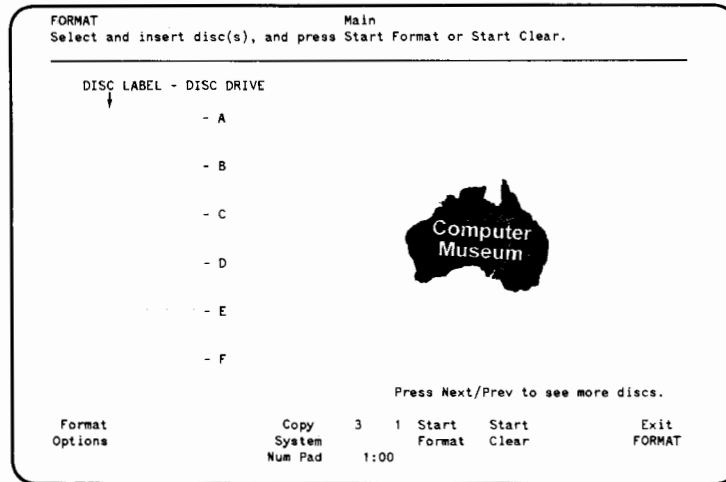


2. Touch the screen where it says **FORMAT**.
3. Touch the **Start Applic** function label.

The message:

Loading FORMAT

will now appear on the top line of your screen. The following display will soon appear on your screen.



This is the FORMAT Main menu.

Did you choose the wrong box? If you see an A> prompt on your screen, just type in the word EXIT and press Return. Go back to step 2.

If you see a menu that doesn't match the **FORMAT Main menu**, touch the function label that has the word **Exit** on it. Go back to step 2.

The **FORMAT Main menu** lists many disc drives. You have two. Your flexible disc drive at this time is drive A and your fixed disc drive is drive B. (This is why you placed the A and B stickers on your disc drive.)

4. Touch the box labeled B. (The box will be highlighted.)
5. Touch **No Disc Label** on the lower right corner of the screen.

Made a Mistake?

Touched the wrong box? If, after you've touched **No Disc Label**, you realize you didn't choose the box labeled B, you can go back and change it. Just touch the highlighted box so that it is no longer highlighted. Then touch the box for drive B. Go to Step 5.

6. Touch **Copy System**. An asterisk (*) will appear next to it: **Copy System***. (If you touch the box again, the asterisk will disappear. Touch it several times and watch the asterisk appear and disappear, but make sure the asterisk is present before you go on to the next step.)

When the asterisk (*) appears next to **Copy System**, the operating system will be copied onto the fixed disc—or any new disc—while it is being formatted.

7. Touch `Start FORMAT` .

The message

`Reading system files`

will appear at the top of the screen. Then you will see:

`All system files have been read.
Insert disc(s) to be Formatted.`

The disc you want to format is your fixed disc and it's always in the drive, so you don't have to insert anything.

Having Trouble?

If something doesn't work the way you think it should, look at the top line of the screen. An error message will appear here to tell you what is wrong. If you don't understand the error message, look it up in the **Error Message Appendix** of *Using Your HP Touchscreen Personal Computer*.



The formatting process cannot be halted quickly once it has begun. Before you perform the next step, be prepared to wait for 30 to 45 minutes while your fixed disc is formatting. If you decide not to format the disc now, touch `Stop Current` . Then press `Return` . Go to step 9.

8. Press `Return`.

The formatting operation will now begin. The operating system will be copied as part of the formatting process. Since this process may take 30 to 45 minutes, you may wish to take a break.

When the disc is formatted, you will see the following message at the top of your screen:

```
Press Start Over or Exit Format.
```

9. Touch `Exit Format`.
10. Remove the System Work Disc from drive A.

The next task is to tell your system processor what disc drive (model HP 9133D) you have connected to it. You'll do this in the next section.

Configuring the Fixed Disc Drive and Other Devices

Now that you have formatted your fixed disc and copied the operating system onto it, you must configure your disc drive.

You will only have to configure your disc drive(s) once, unless you add new drives later. If you have printers, plotters, a modem, or other devices, you should configure them now also. You need to configure all these devices to let the HP Touchscreen PC know where they are.

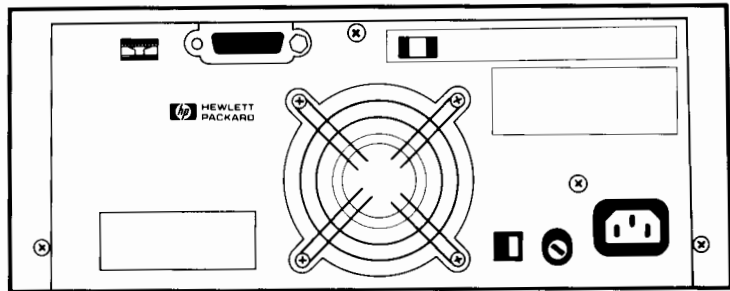
When you have finished configuring your system, you must then make some changes to your system. Return to the next section of this chapter, entitled **Changing the Address of Your Fixed Disc Drive**.

Go to **Appendix B** now to find out how to configure your entire HP Touchscreen Personal Computer system.

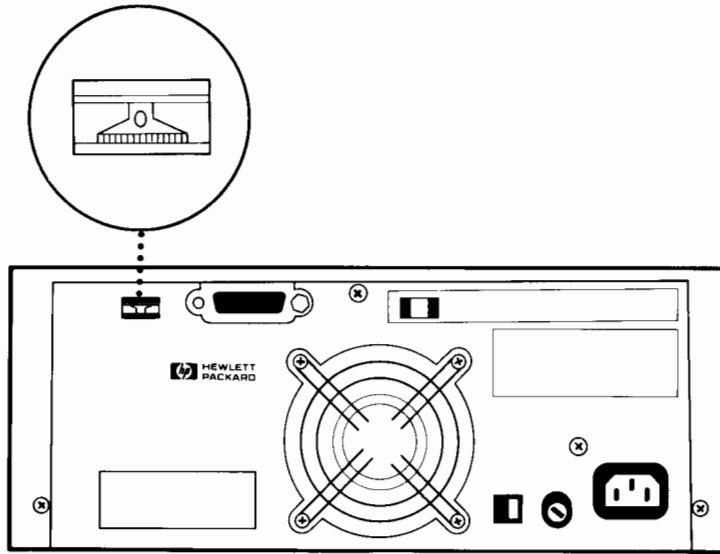
Changing the Address of Your Fixed Disc Drive

Now that you have configured your system, you have to make some changes so that the operating system is loaded automatically when you turn the computer on. To do this, you must change the address of the fixed disc.

1. Turn your disc drive off. The button marked LINE should be OUT.
2. Turn your system around so that the back of your disc drive and display unit faces you.



3. Turn the address wheel on the back of the disc drive so that the address is 0.

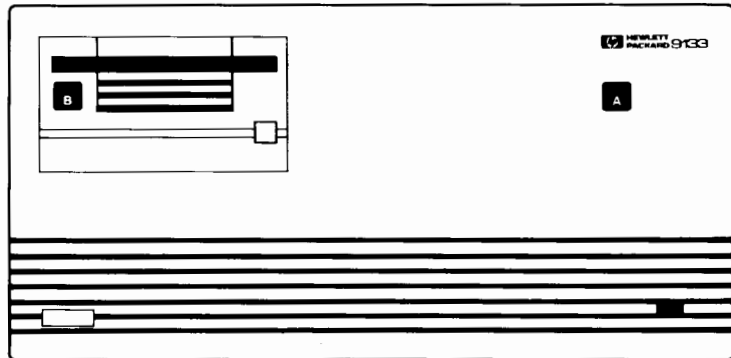


HP
9133D
DISC DRIVE

4. Turn your display unit and disc drive around so that the front is facing you.

Because your fixed disc is now drive A, you will need to change the names of the drives.

5. Remove the A and B stickers from your disc drive.
6. Place the A sticker over the fixed-disc drive and the B sticker under the flexible-disc drive.



*Change labels of disc drives
only AFTER configuring.*

Now you are ready to install applications onto your disc drive.

Installing Applications onto Your Fixed Disc

An application is a program that performs a special function. PCF, MEMOMAKER, and WORDSTAR are applications; so are the FORMAT, DEVICE CONFIG, and MSDOS COMANDS programs on your System Master and System Work Discs. To make these applications easier to use, you will want to install them onto your fixed disc.

You can install your applications as soon as you have formatted your fixed disc and configured your disc drive. INSTALL is a special application that allows you to make usable copies of your applications. (You CANNOT make a usable copy of an application using COPY/BACKUP. COPY/BACKUP is used for other purposes.)

You should install all of your applications as soon as possible. You should then store the master discs in a safe place.

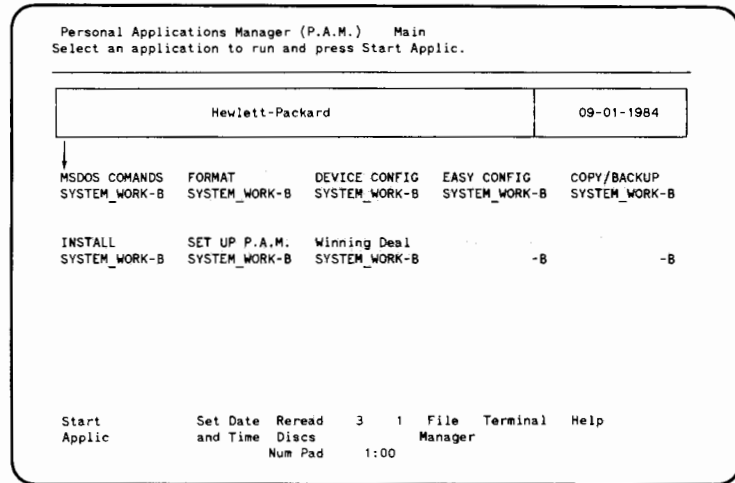


Flexible discs are sensitive. Don't leave them where they will be exposed to excessive heat, dust, or moisture. Keep your discs away from sources of magnetism, including telephones. For more information, see the chapter on **Discs** in *Using Your HP Touchscreen Personal Computer*.

Follow these steps to install the application programs that are on your System Master Disc onto your fixed disc:

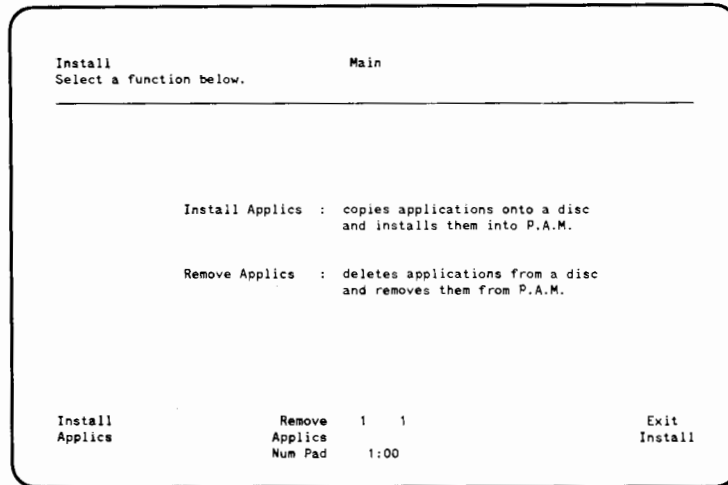
Loading INSTALL

1. Start with the P.A.M. Main menu on your screen.
2. Make sure the System Work Disc is in drive B. (It has the INSTALL application on it.)
3. Touch `Reread Discs` . The P.A.M. Main menu will now appear as illustrated below.



4. Touch `INSTALL` to highlight it.

5. Touch `Start Applic` . The message `Loading INSTALL` will appear on the screen and then the `INSTALL Main` menu will appear.



(Note that the message in the middle of the screen is not a choice, only an explanation. You make your choices by touching the function labels at the bottom of the screen or by pressing the corresponding function keys on the keyboard.)

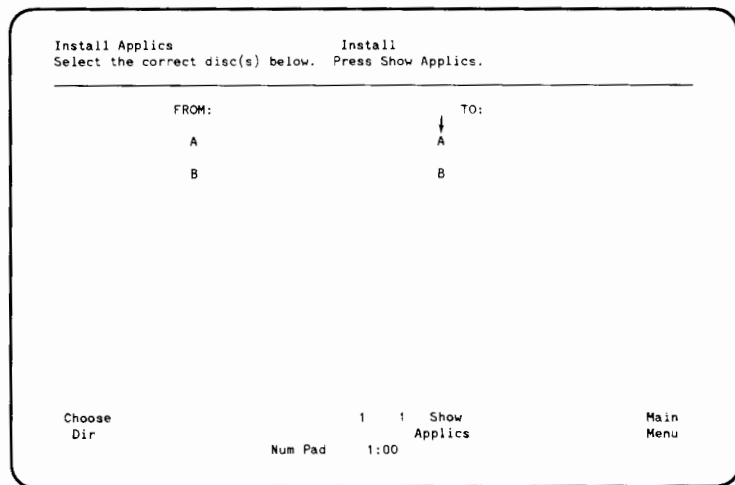
Preparing to Install Applications

1. Touch `Install Applics`.

The Install menu will now be on your screen.

There are two columns in the middle of this display: FROM and TO. The system assumes you are going to install an application from the disc in drive A onto a disc in drive B. But this is not the case here. Remember, your flexible disc is in drive B and your fixed disc is in drive A.

2. Touch the B box in the FROM column so that it is highlighted.
3. Touch the A box in the TO column so that it is highlighted.



You are now going to **INSTALL** the applications that are on the System Master Disc in Drive B onto your fixed disc.

4. Remove the System Work Disc from drive B and put it in a safe place.

Starting the INSTALL Process

1. Find the System Master Disc. The System Master Disc is in the back of this binder.
2. Insert the System Master Disc in drive B.



When duplicating applications, you must always install an application from a Master disc; you cannot install applications from a work disc.

3. Touch `Show Applics .`

A new display will appear on your screen. All the applications on your System Master Disc will be listed in boxes in the middle of the screen. You will be asked to select those applications you want to install.

4. Touch the names of the applications until they are ALL highlighted. (The applications on the System Master Disc are illustrated below.)

```
Install Applics                               Select
Select the applications to be installed. Press Start Install.
-----
Install from B:\ to A:\.

                                     Available space on disc A: 14700544 bytes

APPLICATION :VERSION                       APPLICATION :VERSION
↓
MSDOS COMANDS:2.11                          FORMAT      :B.01.00
DEVICE CONFIG:B.01.00                       EASY CONFIG :B.01.00
COPY/BACKUP  :B.01.00                       INSTALL     :B.01.00
SET UP P.A.M.:B.01.00

                                     Reread 4 1 Start
                                     Applics Num Pad 1:00 Install Exit
                                     Select
```

HP 9133D
CONNECTING YOUR
FIXED DISC DRIVE



Generally, when you install applications from a master disc to a fixed disc, you install all the applications found on a master. Some application discs may have only one application on them; others, such as the System Master Disc, have more than one application.

5. Touch `Start Install` .

The red lights below the disc drives will blink on and off for a minute or two. As each application is installed, the highlight will disappear. When the installation process is over, the message

`Install completed.`

will appear at the top of your screen.

6. Remove the Master disc from the flexible disc drive and put it away. Everything on this Master disc has now been copied onto your fixed disc.

Now you should install your Application Master Disc next and any other applications from their master discs after that. (If you have installed all the applications you wish to install, go to step 10 below.)

7. Put in a new Master disc.

8. Touch `Reread Applics` .

9. Repeat steps 4 through 6 in this section.

10. Touch `Exit Select` when you have installed all of your applications onto the fixed disc.

11. Touch `Main Menu` .

12. Touch `Exit Install` .

Now you have work copies of all of your master discs on the fixed disc. Put away the System Master and all other application master discs of your application programs in a safe place. You will only need them to create other work copies.

You are now ready to check to see if you have been successful by running the System Demo. You'll find it on the Application Work Disc in this binder. The System Demo application shows you some of the interesting features of the HP Touchscreen Personal Computer.



Running the System Demo

Now that you have loaded the operating system into the computer's memory and installed your applications, you can run the System Demo. The System Demo shows you some of the interesting features of the HP Touchscreen Personal Computer.

Here is what you must do to run System Demo:

1. You should have the P.A.M. Main menu on the screen if you've just completed the last section.
2. Touch the box that says `System Demo` to highlight it.
3. Touch `Start Applic .`

The message `Loading System Demo` will appear at the top of the screen while the System Demo is being loaded into the computer's memory. Then the demonstration will begin.

Note that the second and third lines of the screen are reserved for directions and error messages. If nothing seems to be happening, read the second and third lines. It could be that the computer is waiting for you! For example, after the System Demo has been running for a few seconds, a screen will appear with the message,

`TOUCH your area of interest .`

Touch one of the pictures on the screen.

When you are through looking at System Demo, look for a box labeled `EXIT DEMO` in the lower right-hand side of the screen. Touch it to return to the P.A.M. Main menu. If there is no `EXIT DEMO` box, do a hard reset.

At this point you are ready to begin using your HP Touchscreen as a personal computer. If you choose to continue, you may use an application on your System Work Disc — *Winning Deal* — which includes several card games you can play against the computer. The booklet *Winning Deal* is included in this binder.

Or, if you like, you can begin using MemoMaker or Personal Card File, the two applications you received with your Touchscreen PC. You'll find their booklets — *Setting You Free with MemoMaker* and *Setting You Free with Personal Card File* in this binder also. They will give you hands-on practice as well as train you in the application's basic features.

If you wish to use your HP Touchscreen PC as a terminal, go to Chapter 7, **Connecting Your Touchscreen PC to Use It as a Terminal**. Or you can set up your HP Touchscreen as a terminal at some later date.

CONNECTING YOUR
HP 9133D

7

Connecting Your HP Touchscreen PC To Use It as a Terminal

Your HP Touchscreen PC has two personalities: it is both a personal computer and a terminal. This chapter explains how to connect your HP Touchscreen PC in order to use it as a terminal. For detailed information on using it as a terminal, refer to *Using Your HP Touchscreen Personal Computer as a Terminal*.



We are assuming that you will be using your HP Touchscreen Personal Computer primarily as a personal computer. We also assume that you have already read Chapter 4 and have connected your disc drives, printers, or plotter according to the directions in Chapters 5 or 6 and Appendix A and have configured them according to the instructions in Appendix B.

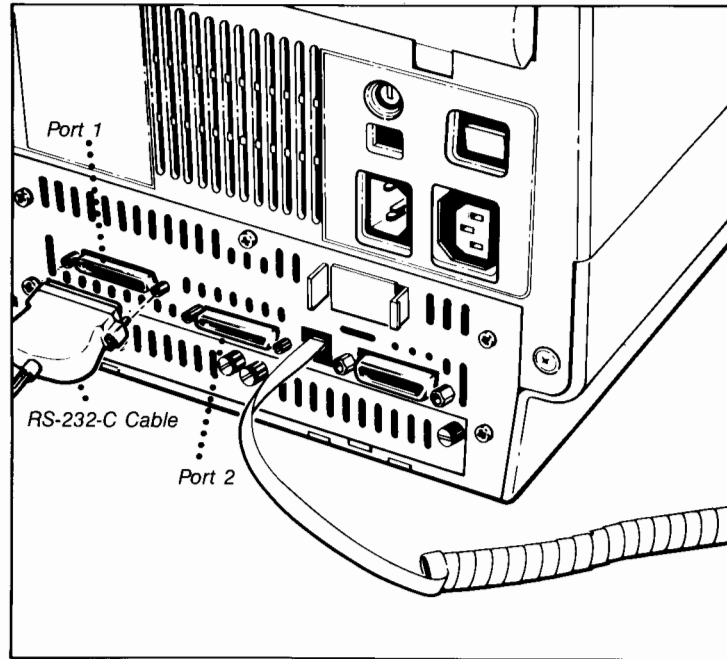
If you want to use your HP Touchscreen PC as a terminal, you will have to connect it to the host computer (the mini or mainframe computer for which your HP Touchscreen PC will serve as a terminal). You can do this in two ways:

CONNECTING
TO A TERMINAL

1. By “hardwiring” (physically connecting your HP Touchscreen PC to the host computer by electrical wires)
or
2. By using a modem (i.e., by connecting the HP Touchscreen PC to the host using telephone lines). A modem may be an accessory card inside your HP Touchscreen Personal Computer or an “external device” that plugs into a port on the back of your HP Touchscreen PC. Both types use a telephone to communicate with the host computer. Read the section below that covers your situation.

Hardwiring

If you are hardwiring your HP Touchscreen PC to a host computer, you need to have a cable connecting the two. The end of the cable that attaches to your HP Touchscreen Personal Computer should have an RS-232-C or RS-422 connector.* When the cable has been hooked up to the host computer, you simply plug the RS-232-C or RS-422 cable end into the DATACOMM Port 1 on the back of your HP Touchscreen PC display unit, as shown below:



* For example, HP Part #13242N is the cable you would use in the U.S. to connect your Touchscreen Personal Computer to a host.

You then tighten the screws on either end of the connector with a screwdriver.

Now go to the section of this chapter entitled **Configuring Your HP Touchscreen PC as a Terminal**.

Connecting a Modem

There are several types of modems that you can use with your HP Touchscreen Personal Computer:

An internal modem

The internal modem for your HP Touchscreen Personal Computer is the HP 150 Internal Modem accessory card. (Chapter 3 tells you how to install an accessory card.) You should refer to the manual that comes with your accessory card for specific instructions.

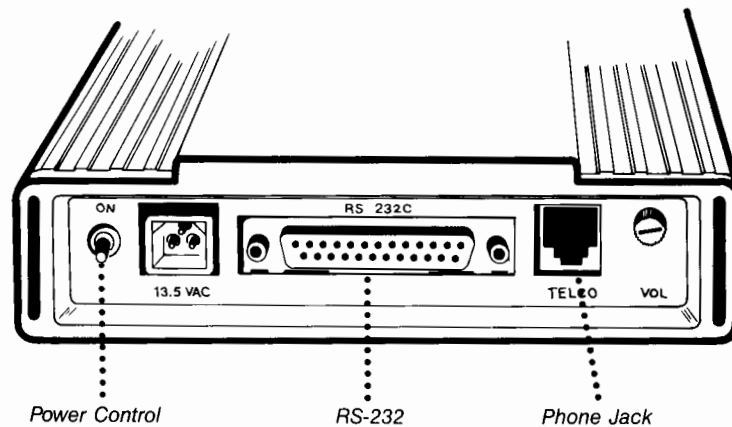
Once you have installed the accessory card, you will need to configure your system. Go to the section of this chapter entitled **Configuring Your HP Touchscreen Personal Computer as a Terminal**.

An external modem

There are a variety of external modems you can buy for your HP Touchscreen PC. They all have two connectors.

- The phone jack connector. This looks like the modular wall jack into which you plug your telephone. (In place of this connector, some modems have an acoustic coupler into which you place your telephone receiver.)
- The RS-232-C connector. This connector looks very much like the DATACOMM Port 1 on the back of your HP Touchscreen PC display unit.

(You should refer to the modem manual for further instructions on connecting your modem and setting its options.)



Once you have read through your modem manual to check for any special instructions, the following general instructions apply.

1. Connect your modem to your telephone line.

There are many ways to connect your modem to your telephone line. One option is to connect the modem to the telephone line in place of your telephone. Another option is to use a special Y-adaptor to allow you to have both your telephone and your modem connected to the telephone line. See your modem manual for more information.



The Federal Communications Commission (FCC) requires that you notify the telephone company about your modem.*

If your modem has an acoustic coupler, rather than connecting the phone line to the modem, you will fit the handset (receiver) of your telephone into the two cups on the top of the modem.

2. Connect the modem to your HP Touchscreen PC. You will need the appropriate modem cable. This is a male-to-male RS-232-C cable, HP Part No. 13242N. Note that both ends of the cable are the same.

* This step applies to North America.

- a. Plug one end of the cable into DATACOMM (Port 1) of your HP Touchscreen Personal Computer. (You may have to turn the connector at the end of the cable upside down and jiggle it until it slides into place.) Tighten the screws on the ends of the connector.
- b. Plug the other end of the cable into the RS-232-C connector on the modem. Tighten the screws on the ends of the connector.

Now you are ready to configure your HP Touchscreen PC as a terminal.


Configuring Your HP Touchscreen PC as a Terminal


Configuring Port 1

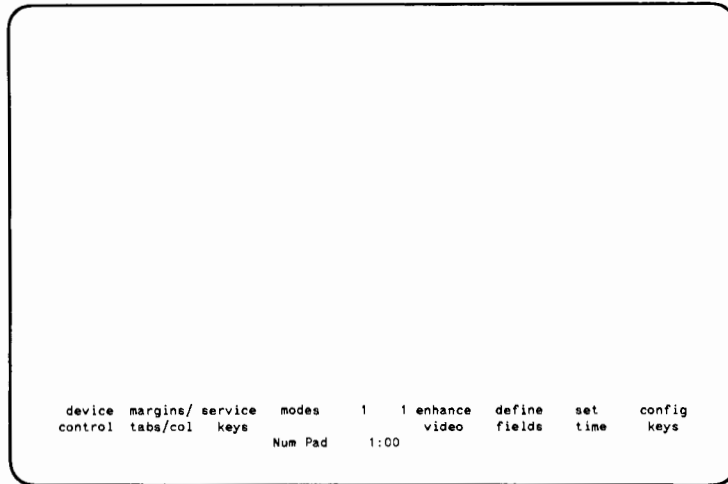
To configure your Touchscreen Personal Computer as a terminal to a host computer, you need to find the answers to the following six questions. To get the answers to these questions, go to your modem manual or speak to your system manager.

- What is the baud rate of the host computer?
- What type of parity does the host computer use?
- How many data bits does the host computer require?
- How many stop bits does the host computer require?
- Does the host computer support the HP ENQ ACK handshaking?
- If you are using a modem, is your modem compatible with the host's modem?

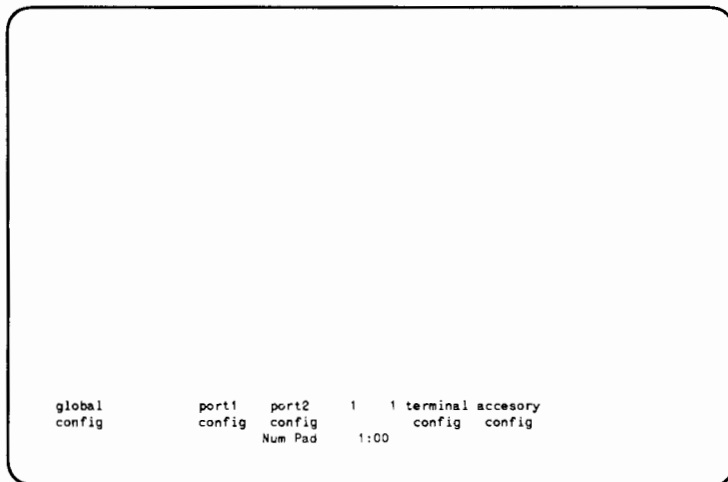
For more information about these questions, read Chapter 10 on **Configuring Your Touchscreen Personal Computer** in *Using Your HP Touchscreen Personal Computer*.

1. Start with the P.A.M. Main menu.
2. Touch the `Terminal` function label.
3. Find the light colored  key on the top row of your keyboard.

4. Press  until the following set of function labels appears on the screen.



5. Touch `config keys` . The following set of labels will appear.



6. Touch the `port1 config` function label. The following menu will appear on your screen.

```

                                FULL DUPLEX HARDWIRED      Port 1
BaudRate 2400      Parity 0'e      DataBits 7      Clock INT
Asterisk Off      Stop Bits 1      EnqAck Yes
TR(CD) Hi      Check Parity No      SR(CH) Lo
RecvPace None      SRRXmit No      RR(CF)Recv No
XmitPace None      SRRInvert No      CS(CB)Xmit No      DM(CC)Xmit No

SAVE      NEXT      PREVIOUS      system      3      10      config      DISPLAY      config
CONFIG    CHOICE    CHOICE    defaults    1:00      menus      FUNCTNS    keys

```

If your screen doesn't match the previous picture, follow the instructions in the following section. If your screen does match, go to the section entitled **How to Configure Your Terminal**.

How to Set System Defaults

1. Touch the `system defaults` function label. The following set of function labels will appear:

```

                                FULL DUPLEX HARDWIRED      Port 1
BaudRate 2400      Parity 0's      DataBits 7      Clock INT
Asterisk  Off     Check Parity No  Stop Bits 1     EnqAck Yes
TR(CD) Hi                               SR(CH) Lo
RecvPace  None                               SRRXmit No      RR(CF)Recv No
XmitPace  None                               SRRInvert No   CS(CB)Xmit No  DM(CC)Xmit No

config POWER ON ACTIVE DEFAULT 3 10 HP 1000      HP 3000
VALUES  VALUES  VALUES  VALUES PT. PT. PT. PT.
                                1:00
```

CONNECTING AS A TERMINAL
SEE GUIDANCE

2. Touch the `DEFAULT VALUES` function label.

How to Configure Your Terminal

There are many combinations of choices on this menu; the following examples of terminal and modem configurations are the most common examples. (If your system requires a different configuration, refer to the configuration chapter in *Using Your HP Touchscreen Personal Computer*.)

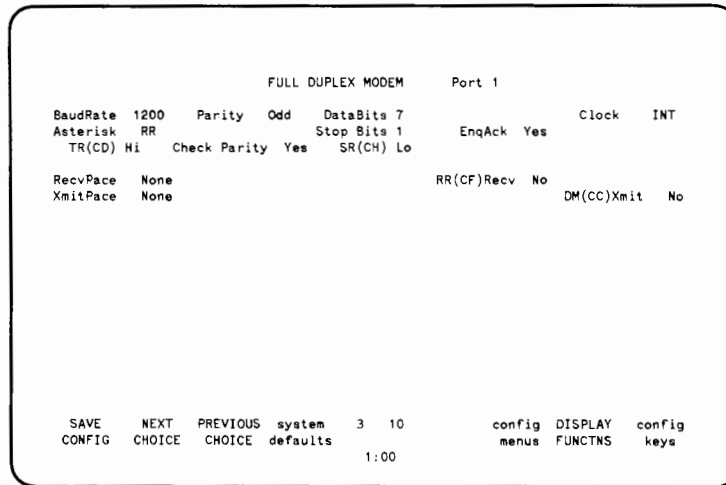
✎ If you are connected to a modem:

1. Touch the `config menus` function label. The following set of function labels will appear:

```
                                FULL DUPLEX MODEM   Port 1
BaudRate 1200   Parity 0's   DataBits 7           Clock INT
Asterisk  RR           Stop Bits 1           EnqAck Yes
TR(CD) Hi   Check Parity No   SR(CH) Lo
RecvPace  None
XmitPace  None                               RR(CF)Recv No
                                                DM(CC)Xmit No

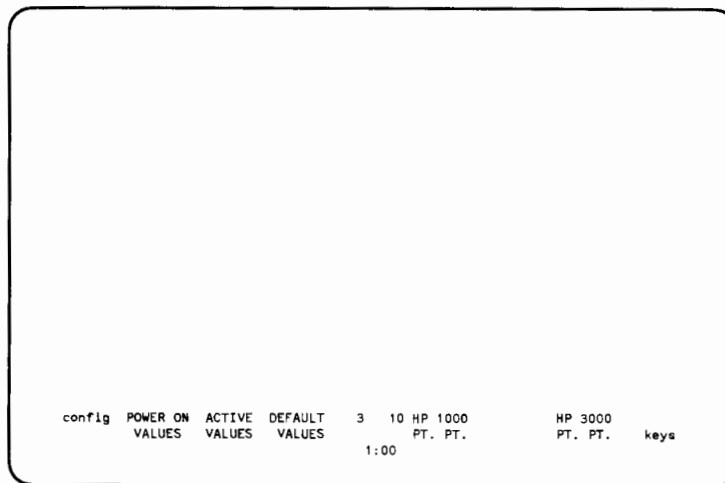
config  FULL DUP FULL DUP           3  10
        HRDWIRED MODEM
                                     1:00
```

2. Touch the FULL DUP MODEM function label. The following menu will appear:



If you are hardwired or connected to a modem:

1. Touch the system defaults function label. The following set of function labels will appear:



2. Touch the HP 3000 PT. PT. function label. The following menu will appear:

```

                                FULL DUPLEX MODEM      Port 1
BaudRate 1200  Parity  O'e  DataBits 7      Clock INT
Asterisk  RR   Check Parity No  Stop Bits 1  EndAck Yes
TR(CD) Hi  SR(CH) Lo
RecvPace  None
XmitPace  None

                                RR(CF)Recv  No
                                DM(CC)Xmit  No

SAVE      NEXT  PREVIOUS  system  3  10      config  DISPLAY  config
CONFIG    CHOICE CHOICE  defaults 1:00    menu   FUNCTNS  keys
```

Look at the entries in this menu and compare them to the answers you gave to the six questions presented at the beginning of this section, **Configuring Port 1**. If you need to change the entries, use the following instructions. If not, go to Step 4 below.

1. Use the **Tab** key on your keyboard (above the **Caps** key) to move the blinking cursor to the box you want to change.

You may also use the cursor keys on the keyboard to move the cursor. These are the arrow keys on the right side of the keyboard.

2. When you get the cursor positioned, touch **Next Choice** as many times as necessary to get the desired value in the box.
3. Repeat steps 1 and 2 until you have changed all the necessary values.
4. Touch the **SAVE CONFIG** function label.
5. Hold down **Shift** and press **Stop**. You will return to the P.A.M. Main menu.

Your HP Touchscreen PC is now ready to be used as both a personal computer and a terminal.

A

Connecting Your Printer and/or Plotter

Which Printers and Plotters Are Covered Here?

This appendix tells you how to connect the following printers and plotters:

- ❖ HP 2674A Internal thermal printer
- ❖ HP 2225A "ThinkJet" thermal inkjet printer
- ❖ HP 2601A Daisywheel printer
- ❖ HP 2602A Daisywheel printer
- ❖ HP 7470A Two-pen plotter
- ❖ HP 7475A Six-pen plotter



If your printer or plotter is not listed here, refer to the booklet *More About Connecting HP Printers, Plotters, and Disc Drives* that comes with your HP Touchscreen Personal Computer. If your printer or plotter is not listed there, you can call the appropriate HP support person listed in the *Series 100 Support Guide*.

In this appendix, the internal printer is covered in detail and then general instructions are outlined for external printers and plotters. For external printers and plotters, cables and how to connect them and how to set address switches is discussed. Then specific instructions are given on how to connect each external printer or plotter.

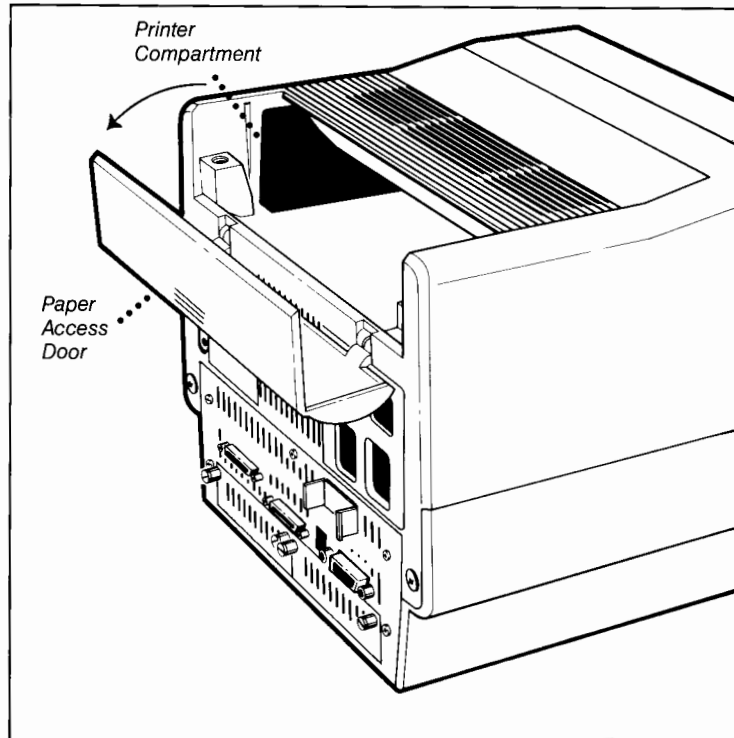
CONNECTING
PRINTERS AND PLOTTERS

Connecting Your HP 2674A Internal Printer

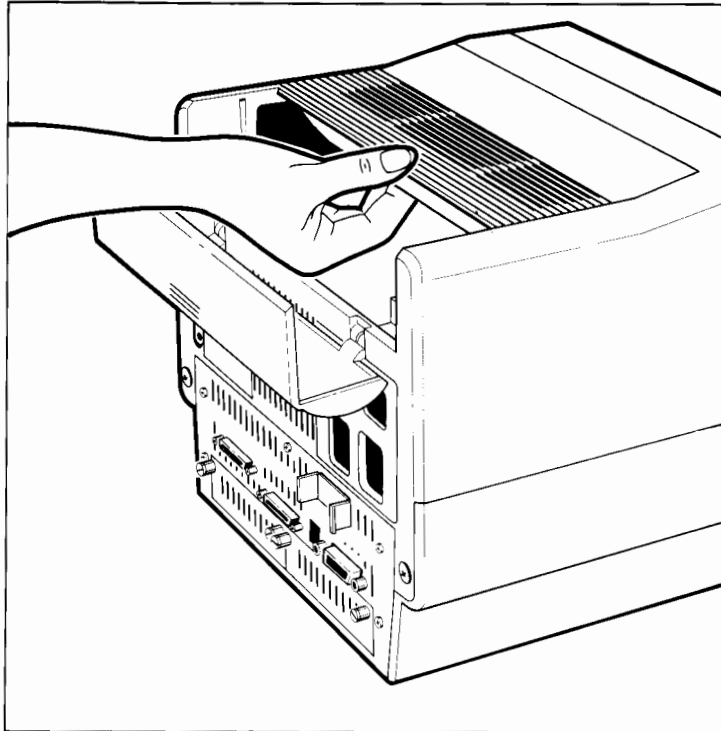
Getting the Display Unit Ready for the Internal Printer

You'll be putting the internal thermal printer into a compartment in the top of the display unit.

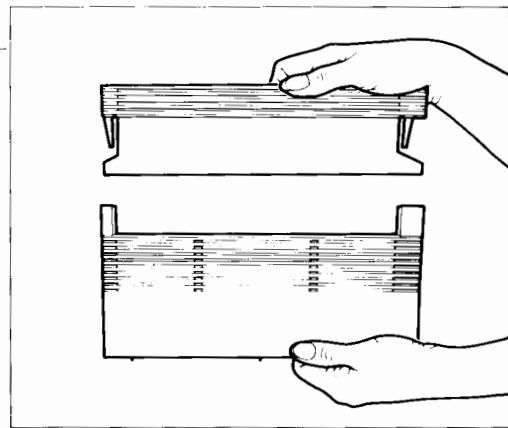
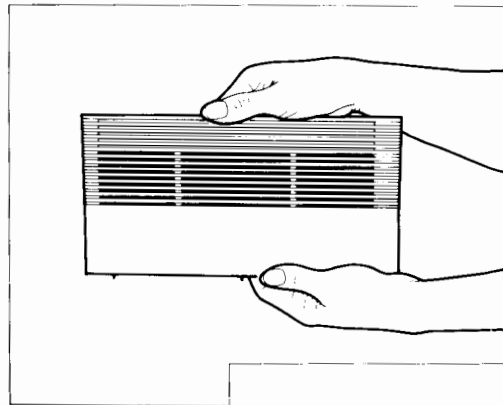
1. Be sure the POWER switch on your HP Touchscreen Personal Computer is OFF.
2. If the power cord for the computer is plugged into an electrical (wall) outlet, unplug it.
3. Open the **printer compartment** on the top back of the display unit by tilting the paper access door backwards.



4. Remove the printer cover from the display unit.

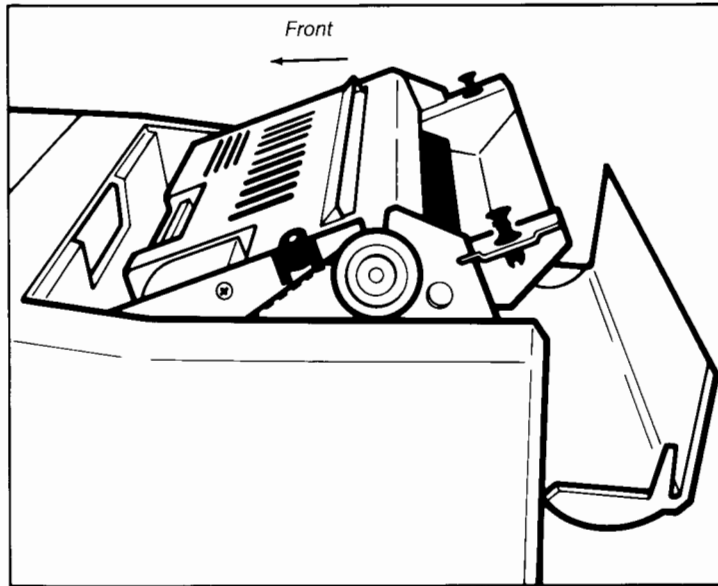


5. Slide apart the two parts of the printer cover. The smaller piece is called the filler plate. Save it; you will need it if you remove the printer at a later time.



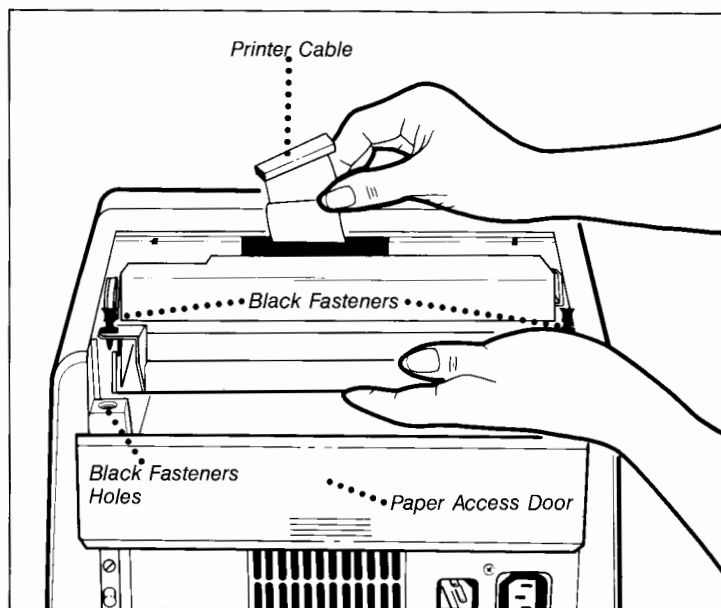
Putting in the Printer

1. Now pick up the printer.
 - a. Tilt the front of the printer downward.



- b. Position it in the printer compartment of the display unit.
 - c. Move the printer forward and down into the printer compartment until it is firmly in.

- d. If the black fasteners located on each side of the paper tray are down, pull them up. Make sure the black fasteners line up with the holes below them.



2. Push the black fasteners down firmly so that they click into place.

Connecting the Cable

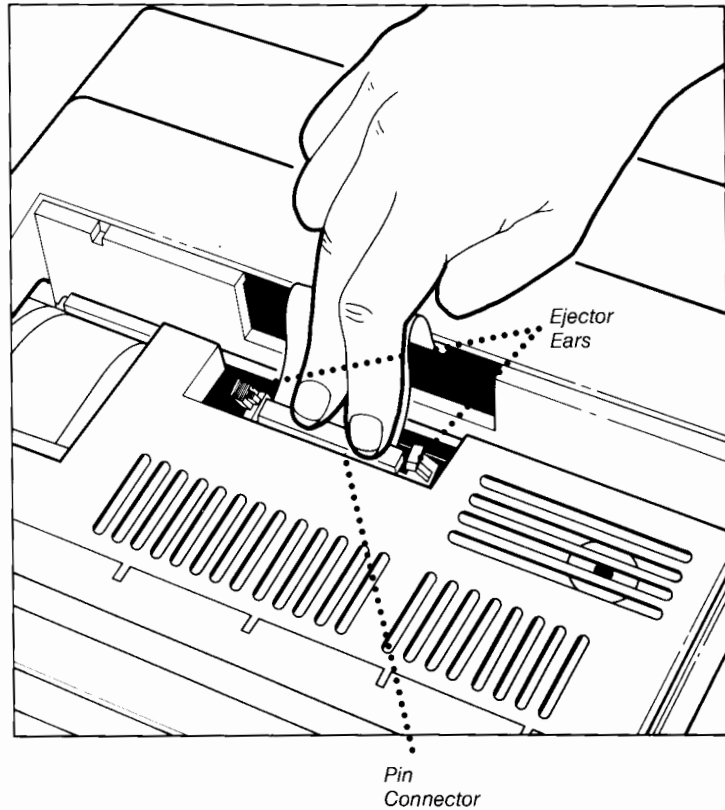
Now you'll connect the computer cable to the printer. The cable is the flat plastic ribbon that comes out of a slot in the display unit at the front of the printer compartment.

In the top front of the printer is a blue plastic holder with pins in it. This is the "pin connector." The ends of the pin connector are the "ejector ears."

1. Press the ejector ears out and down.
2. Place the end of the cable directly over the pin connector.

3. With two fingers, press the cable end into place by pushing down firmly on each end of the connector. Listen for the click as you press down each end of the connector. The ejector ears snap up as the cable is connected.

(If you want to remove the printer, simply press out and down on both ejector ears to release the cable.)



Checking the Power

1. Plug your HP Touchscreen power cord back into the electrical (wall) outlet.
2. Turn the computer's POWER switch ON. (You may have to reach under the open paper access door.)

Check to see that the PWR (power) light is on. The PWR light is the tiny green light on the printer to the left of the cable as you face the front of the display unit. If the light is on, the cable is connected properly and power is being supplied to the printer.

If you already have paper in the printer, when you turn power on, the printer will advance the paper two lines and the print head will sweep back and forth.

Because you have just turned your computer on, it performs the Power-On Self-Test. If you don't have the operating system loaded, you will get the message:

```
Load Op Sys failed. Op Sys device not found  
Press Return To Clear.
```

Press and ignore the message for now.

If Something Went Wrong

If the PWR light is not on, turn off the computer's **POWER** switch and then turn it back on. If the PWR light is still off:

- ✎ Check to be sure the cable is securely connected to the printer's pin connector.
 - ✎ Check to be sure the power cord is plugged into both the computer and an electrical outlet that works.
 - ✎ Check that the computer's **POWER** switch is **ON**.
 - ✎ If you have checked all these possibilities, and the PWR light still does not go on, call your dealer or the HP support person for your area, as listed in the *Series 100 Support Guide*.
-

Loading paper

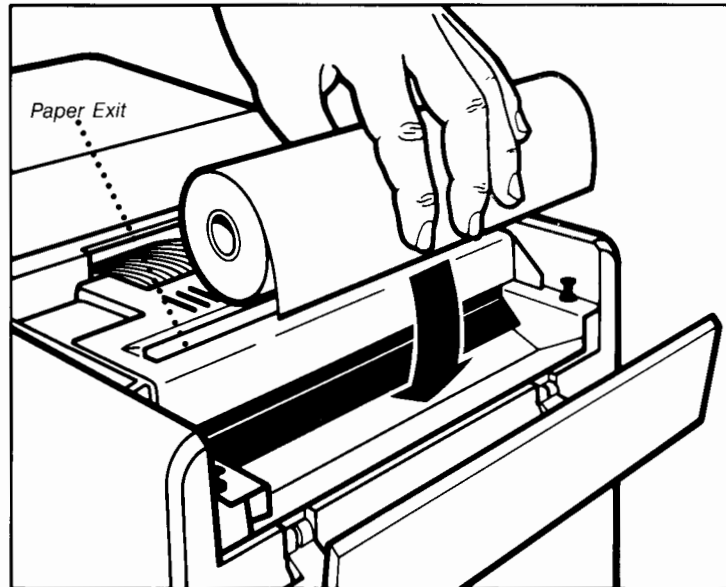
The HP 2674A uses a special heat-sensitive (thermal) paper. The thermal paper for your HP 2674A is available from computer dealers or HP's Computer Supplies Operation (CSO) as follows:

- ✎ Part #92160A—blue ink
- ✎ Part #92160B—black ink
- ✎ Part #92160C—black ink with page perforations



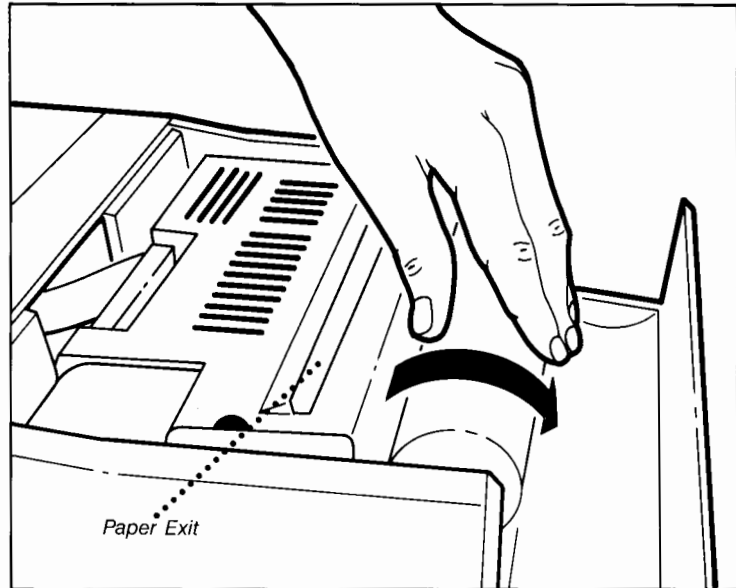
The HP 92173A paper tray allows you to use Z-fold (fan-fold) thermal paper—rather than rolls of paper—with the internal printer. HP part numbers 92160M and 92160N.

1. Carefully separate the cut edge of the paper from the paper roll at the glue spot or tape that attaches the end of the paper to the roll. Make sure the paper is rolled tightly and the cut edge of the paper is straight.
2. Rest the paper roll in the paper tray with the cut edge down and facing toward the front of the display unit. The cut edge should rest on the underside of the roll against the rear surface of the tray.



Connecting
Printers/Plotters

3. With your finger and thumb, gently push the paper forward with your fingertips under the black paper guide and toward the front of the display unit. If the display unit is ON, the paper is pulled through the paper path as soon as the printer detects it. (If you have pushed the paper into the paper guide as far as it will slide, but it is not pulled through the paper path, you may push the green self-test button—next to the PWR light—once or twice, until the paper is pulled through.)



4. Make sure the paper does not get trapped inside the printer, but escapes through the paper exit at the top of the display unit.

Closing the Printer

1. Put the printer cover back on (without the filler plate).
2. Close the paper access door, making sure that as the paper advances it will not be trapped inside the compartment.

Testing the Printer

To verify that your printer is ready to use, run the printer system self-test using the following steps:

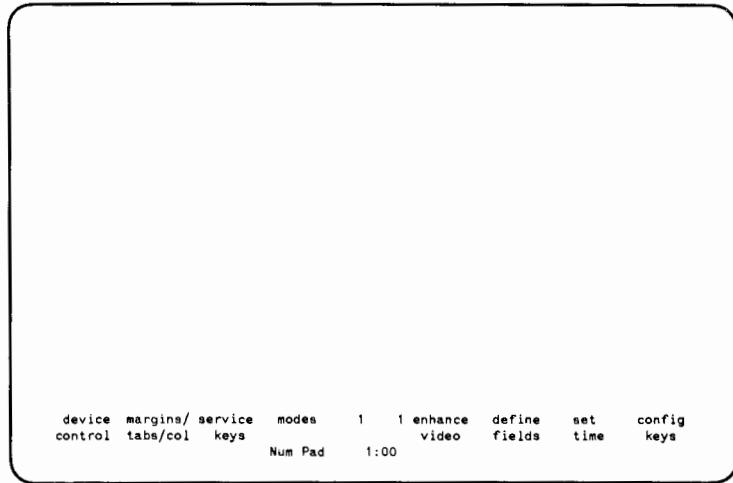
1. If the message

```
Load Op Sys failed. Op Sys device not found  
Press Return To Clear .,
```

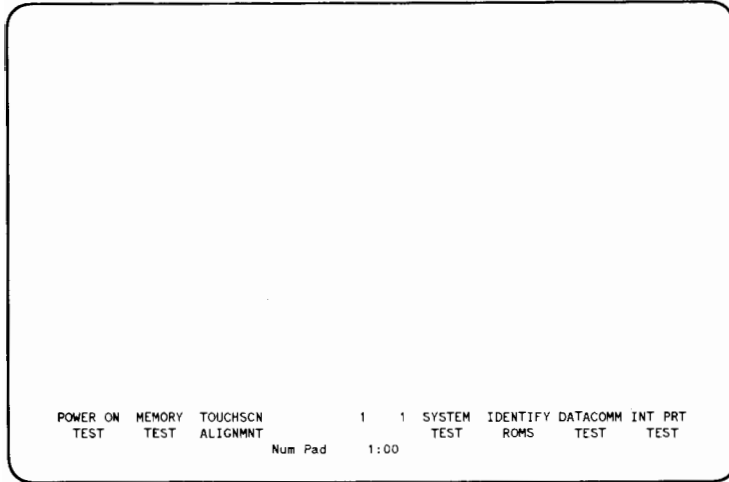
is on the screen, press **RETURN**.

If you or someone else has used the Touchscreen Personal Computer before, a screen labeled at the top **Personal Applications Manager (P.A.M.) Main** may appear. If it does, touch **Terminal** .

2. When only eight small green boxes (function labels) appear along the bottom of your screen, go to the center of the top row of keys on your keyboard and press `User System` until you see these function labels at the bottom of your screen.



3. Touch `service keys` to get this set of function labels:



4. Touch `INT PRT TEST` to print the following self-test example:

0123456789 : : : : : 0123456789 : : : : : 0123456789 : : : : : 0123456789 : : : : :
PROM CODE DATE: 07/15/83



The `INT PRT TEST` function label only appears on the screen after you have installed the printer into the printer compartment in the top of the HP Touchscreen PC display unit.

If it does not appear, check to make sure the printer cable is firmly in place.

If the printer system self-test fails, *one* of the following occurs:

1. Nothing happens, or
2. The test pattern is different from the example shown above, or
3. The following message appears on the screen:

```
Internal Printer Error  
Press RETURN To Clear
```

This message may also appear on the screen if the internal printer is out of paper. Before going further, check your paper supply. Put in a new roll of paper, if necessary. Once you've configured your system, the Power-On Self-Test also tests for paper. If the internal printer is out of paper, the following message will appear:

```
Power-On Test Failed 0200  
Press RETURN To Clear
```

Go on to next section or return to Chapter 5 or to Chapter 6.

If you have another printer or a plotter, go on to the next section of this appendix, **General Instructions for External Printers and Plotters**.

If you don't have another printer or a plotter, the next step is to tell the computer that you have connected your disc drive and printer. Go back to the section titled **Loading the Operating System** on page 5-10 of Chapter 5 if you have the HP 9122D disc drive or page 6-12 of Chapter 6 if you have the HP 9133D disc drive.

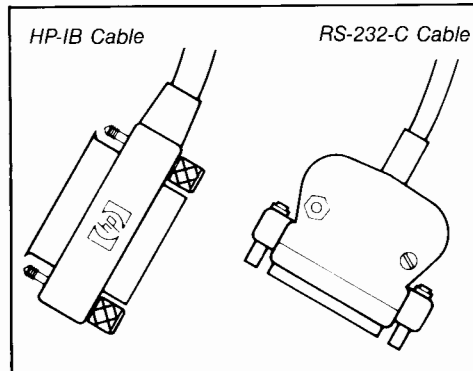
General Instructions for External Printers and Plotters

Follow the specific steps below to avoid damaging your equipment. Follow the instructions in the manual for your printer or plotter to unpack and prepare your printer or plotter for connection.

Data Cables

If you have a plotter or a printer other than the internal printer, you will need a power cord and a special data cable. The power cord is for plugging the printer or plotter into an electrical outlet. The data cable is for connecting the printer or plotter to the computer. There are several kinds of data cables for connecting your printer or plotter; you must have the right data cable for your unit.

The two most common kinds of data cables for HP printers are the **HP-IB cable** and the **RS-232-C serial cable**. The printer or plotter to which these cables connect will have either an HP-IB or RS-232-C interface. The interface is a connection built into the printer or plotter.



As you can see, the cables are very different. In addition, certain printers may require special cables and special accessory cards to allow the computer to communicate with the printer. For directions on installing other printers, see the manuals that accompany those printers.

You should have only one RS-232-C printer or plotter connected to your system at a time.* If you need two printers or a printer and a plotter, however, you can connect one device using an RS-232-C cable and another using an HP-IB cable.

* You may have more than one, but it requires special configuration and/or equipment.

The following chart tells you which cable to use for your particular printer or plotter.*

Choosing the right cable

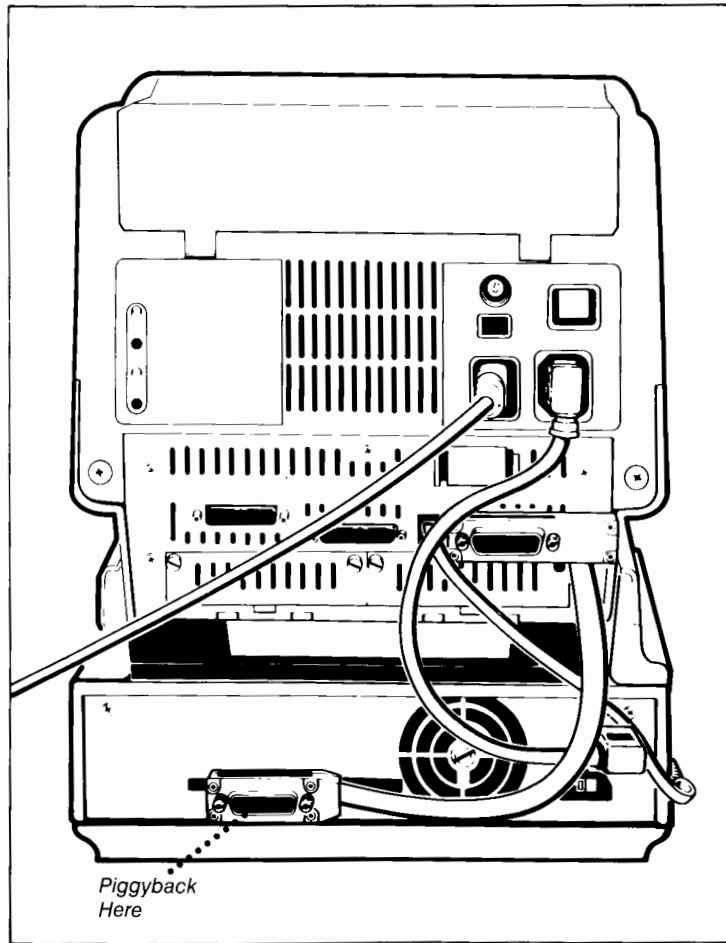
Printer or Plotter	Cable
HP 2225A ThinkJet Printer	HP-IB
HP 2601A Daisywheel Printer	RS-232-C
HP 2602A Daisywheel Printer	RS-232-C or HP-IB
HP 7470A Plotter	RS-232-C or HP-IB
HP 7475A Plotter	RS-232-C or HP-IB

* Note that the HP 2602A, HP 7470A, and the HP 7475A come with either an RS-232-C or HP-IB interface. If you are not sure which cable you should use for your printer, ask your dealer.

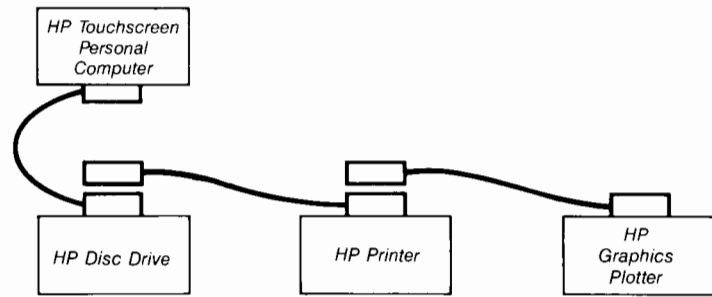
Furthermore, the internal wiring of an RS-232-C cable can vary. It is very important that you have the right version of the RS-232-C cable (be sure you are using HP Part No. 13242G and not No. 13242N).

How to connect HP-IB cables:

If you are using an HP-IB cable for your printer/plotter, connect that cable to the HP-IB cable you already attached to the back of your disc drive.



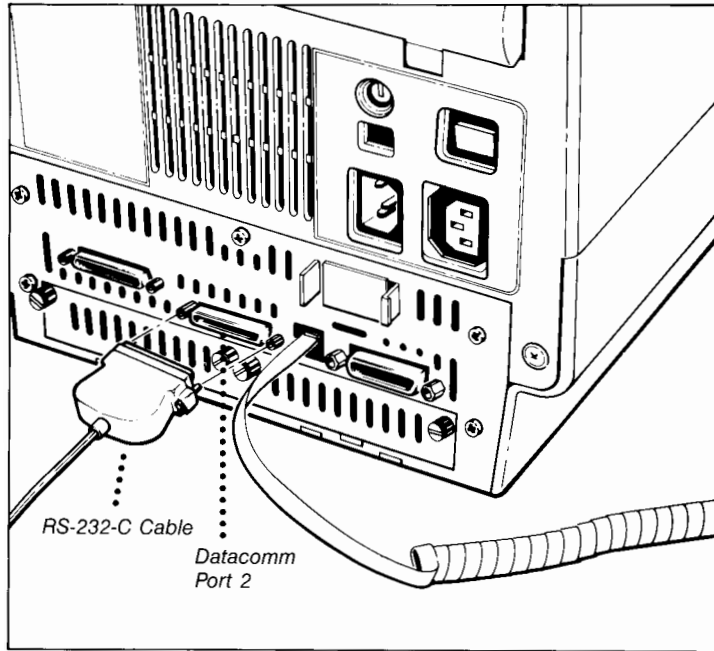
If you have a printer and a plotter and they both have HP-IB cables, piggyback them as shown in the picture below.



If you have more than one HP-IB printer, each will have its own switch settings and configuration settings. Refer to your printer manual for further information.

How to connect RS-232-C cables:

If your printer or plotter uses an RS-232-C cable, connect it to DATACOMM (PORT2) on the back of your display unit.



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Setting Address Switches

Only printers and plotters connected with an HP-IB cable have address switches.* When you are connecting these devices to your HP Touchscreen PC, you must set the address switches so that the computer knows where the printer or plotter is once you have configured them.

Here are some general rules about setting address switches: (You will find instructions in the sections below for the specific printers and plotters.)

1. The first (primary) printer should be set at HP-IB address 1.
2. A second printer should be set at HP-IB address 6. (You will find more information in *More About Connecting HP Printers, Plotters, and Disc Drives*.)
3. A plotter is usually set at HP-IB address 5.

Write down the address(es) that you set. You will need this information later when you configure your HP Touchscreen PC system.

* Devices connected with RS-232-C cables have switches, but they are not address switches.

Connecting an External Printer

Connecting Your HP 2225A ThinkJet Printer

This printer has an HP-IB interface.*

1. Follow the instructions in the *HP 2225A ThinkJet Reference Manual* for unpacking your HP 2225A printer and installing the print head cartridge and absorber.
2. Insert a sheet of paper according to the instructions in the *HP 2225A ThinkJet Reference Manual*.
3. Perform the printer's self-test. Hold down the LF (line feed) button and turn the printer's power switch to ON. Release the LF (line feed) button to start the test.

* Note: There are two other versions of the HP 2225 printer: the HP 2225B and the HP 2225C. Each has a different interface. The HP 2225B ThinkJet printer uses an HP-IL cable and an Extended I/O Accessory Card. The HP 2225C uses a Centronics-type parallel cable and the Extended I/O Accessory Card.



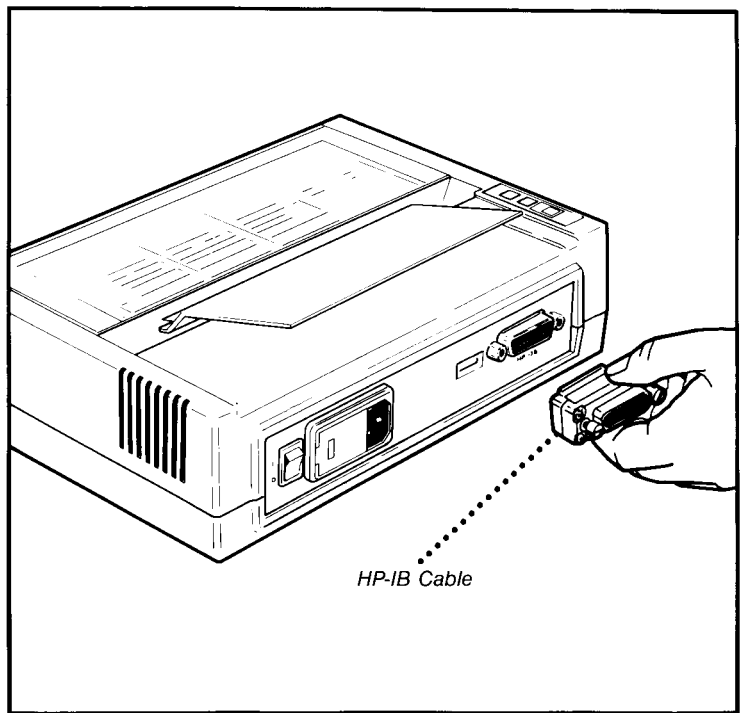
If nothing happens check that:

- a. The printer is ON.
- b. The printer is plugged in.
- c. The wall outlet is working. To check, plug a lamp into the same outlet.
- d. The fuse is present.
- e. The print head cartridge has ink in it.
- f. The paper is inserted properly.

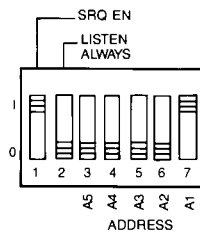
If all of the above are fine and your printer is still not working, refer to the *HP 2225A ThinkJet Reference Manual* to make sure that you have connected your printer properly. If it still fails to work, contact your dealer or the appropriate HP support person listed in the *Series 100 Support Guide*.

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HP-2225A-1

4. Plug the HP-IB cable into the HP-IB port in the back of the printer. Piggyback the other end of the cable on the HP-IB cable you already attached to the back of your disc drive.



5. Use the tip of a ball-point pen to make the switch settings on the back of the printer match the settings below:



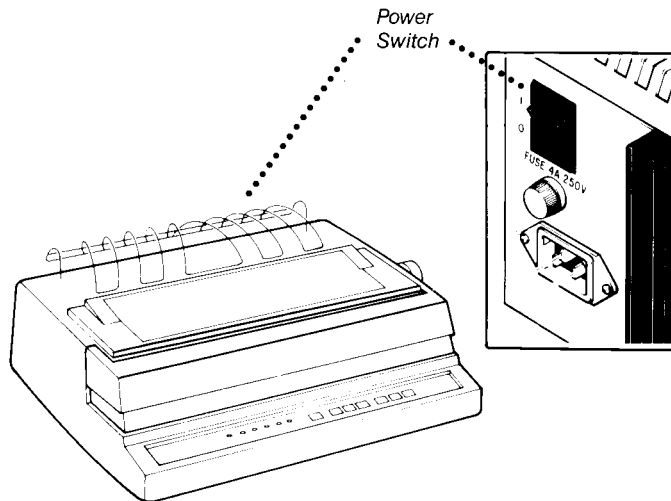
If you have another printer or plotter, find the relevant section of this appendix and follow the instructions for connecting it.

If you don't have another printer or a plotter, the next step is to tell the computer that you have connected your disc drive, printer, and other devices (configure your system). Go to the section titled **Loading the Operating System** on page 5-10 of Chapter 5 if you have the HP 9122D disc drive or page 6-12 of Chapter 6 if you have the HP 9133D disc drive.

Connecting Your HP 2601A Printer

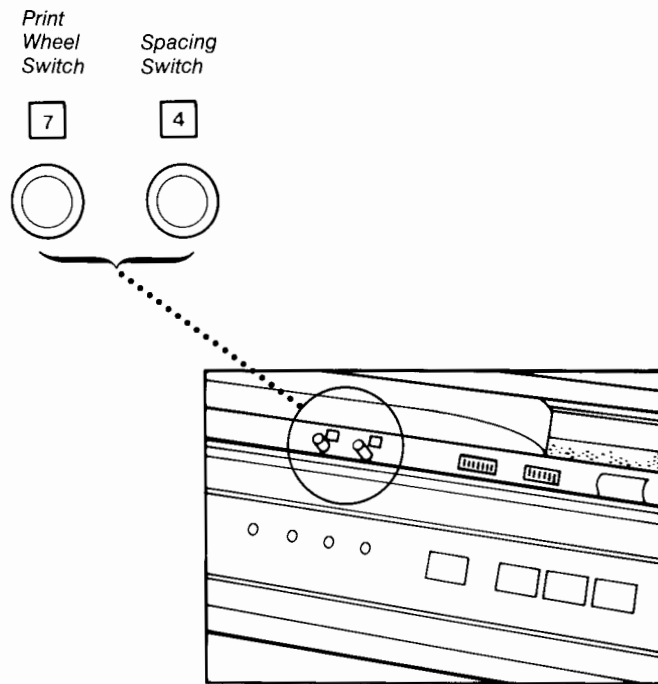
This printer has an RS-232-C interface.

1. Follow the instructions in the *HP 2601A Owner's Manual* for unpacking your HP 2601A printer and installing the print wheel and ribbon cartridge.
2. Remove the front cover of the printer by grasping the sides of the cover, pressing down with your thumbs and pulling the cover up toward you.

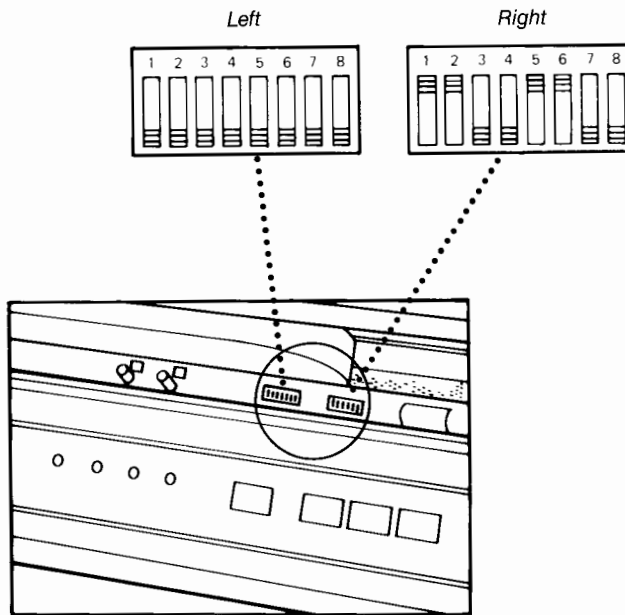


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- 3.** Set the switches for self-test:
- Turn the left (print wheel selection) knob until 7 appears in the left window. (This setting works only with a *plastic* print wheel.)
 - Turn the right (spacing) knob until 4 appears in the right window.

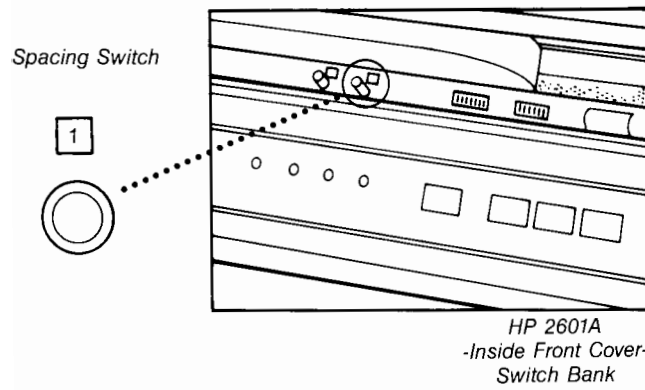


- c. Using the point of a ball point pen, set the series of rectangular switches as shown:



4. Replace the front cover of the printer.
5. Plug the power cord into the printer's AC outlet and then into the wall outlet.
6. Put paper in the printer as you would in a typewriter.

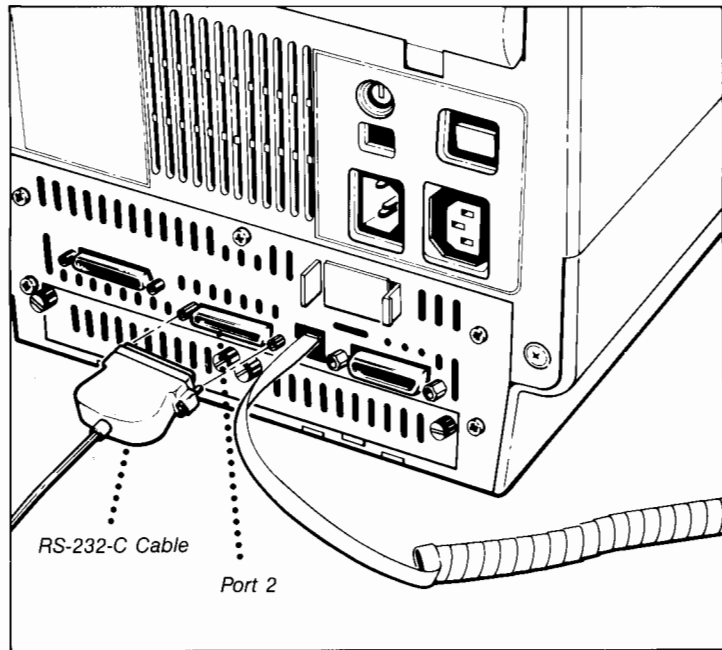
9. Remove the front cover of the printer again and set the spacing switch (the round knob on the right) to 1. Do not change the other switches.



10. Replace the front cover again and press the *reset* button.



11. Connect the RS-232-C cable to the computer and then to the printer. Use the DATACOMM (PORT2) on the back of the HP Touchscreen PC's display unit.



Go on to next section or return to Chapter 5 or to Chapter 6.

If you have another printer or plotter, find the relevant section of this appendix and follow the instructions for connecting it.

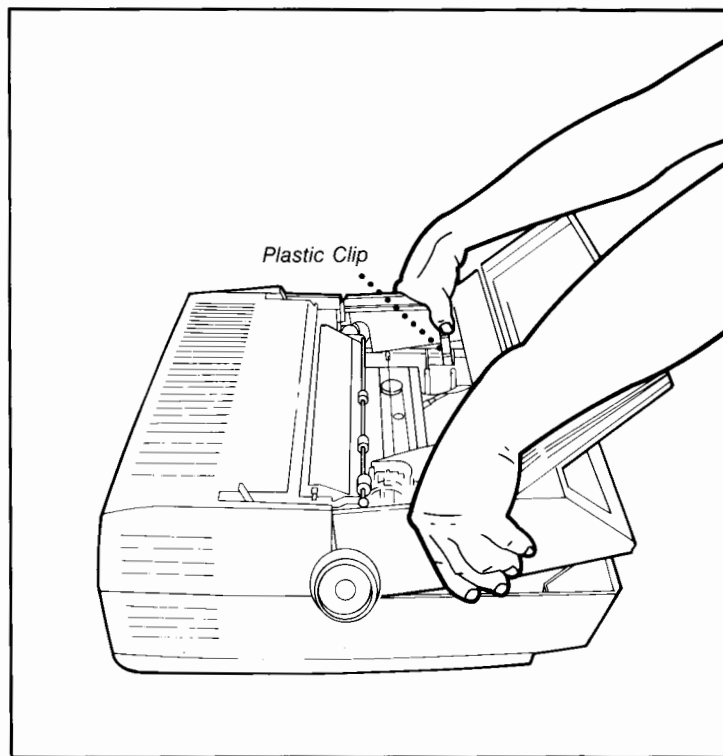
If you don't have another printer or plotter, the next step is to tell the computer that you have connected your disc drive, printer, and other devices (configured your system). Return to the section titled **Loading the Operating System** on page 5-10 of Chapter 5 if you have the HP9122D disc drive or page 6-12 of Chapter 6 if you have the HP 9133D disc drive.



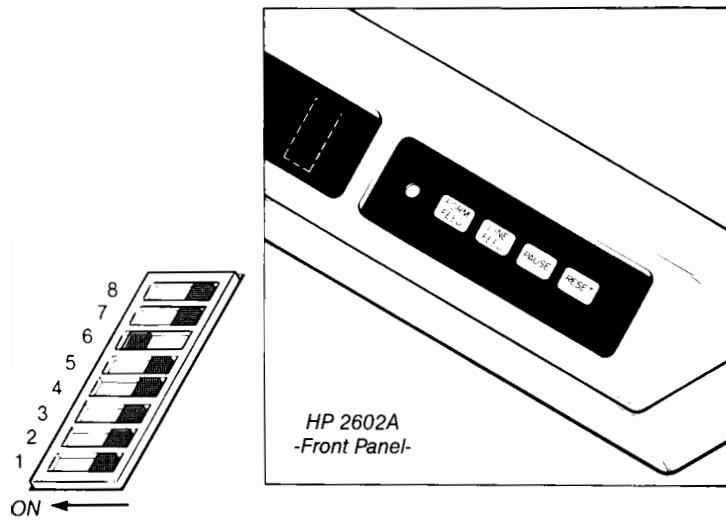
Connecting Your HP 2602A Printer

This printer can be ordered with either an HP-IB or RS-232-C interface.

1. Follow the instructions in the *HP 2602A Owner's Manual* for unpacking your HP 2602A printer and installing the ribbon cartridge and print wheel.
2. Remove the printer access cover (the plastic housing that fits over the front and the control panel of the printer):
 - a. Tilt the cover toward you.
 - b. Reach into the opening, and press outward on the plastic clips that are inside the printer on each side.
 - c. Lift up the cover to remove it.



3. Set the eight switches for the self-test as shown below and replace the front cover:



If Something Went Wrong

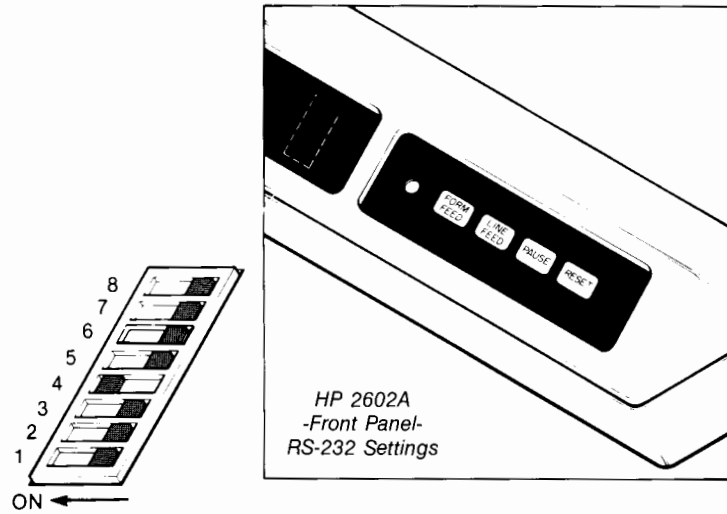
If nothing happens, check that:

- a. The printer is ON.
- b. The printer is plugged in.
- c. The wall outlet is working. To check, plug a lamp into the same outlet.
- d. The cover is on correctly.
- e. The switches are set correctly.
- f. The reset light is not on. If it is, push the *reset* button.

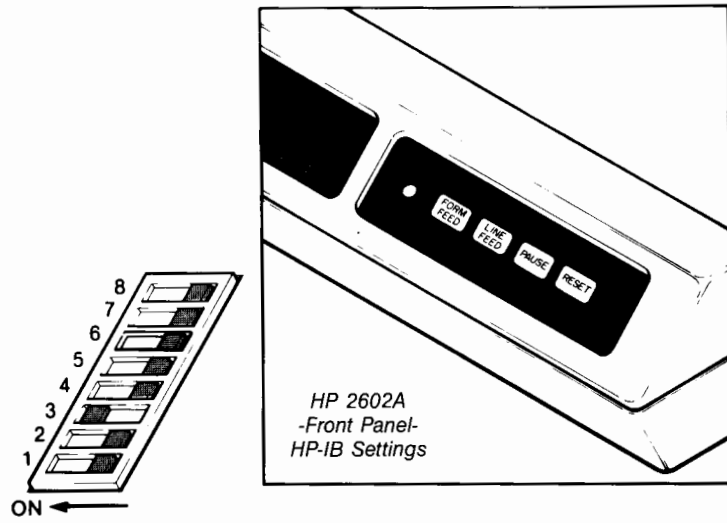
If all of the above are fine and your printer still does not work, refer to the *HP 2602A Owner's Manual* to make sure you have connected your printer properly. If it still fails to work, contact your dealer or the appropriate HP support person listed in the *Series 100 Support Guide*.

- 7.** After a few lines of the test pattern have printed, turn the printer OFF.

8. Remove the front cover and set the switches for regular operation. For an RS-232-C cable, set the switches to look like this:



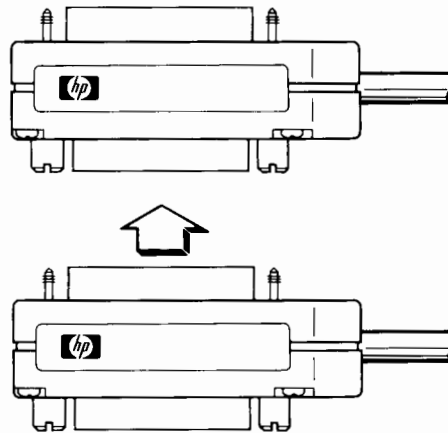
For an HP-IB cable, set the switches to look like this:



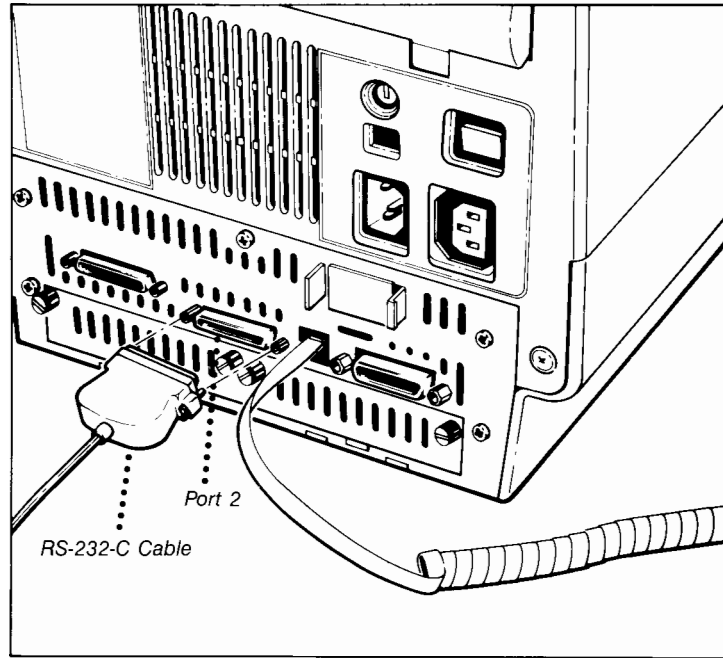
9. Replace the front cover and press the *reset* button.
10. Connect the appropriate cable (either HP-IB or RS-232-C, depending upon the interface your printer has).

If you are using an HP-IB cable for your printer, piggyback that cable on the HP-IB cable you already attached to the back of your disc drive.

If you have a printer and a plotter and they both have HP-IB cables, piggyback them as shown in the picture below.



11. If you have an RS-232-C interface, connect the RS-232-C cable to the computer and then to the printer. We suggest you use the DATACOMM (PORT2) on the back of the HP Touchscreen PC's display unit.



CONNECTING
PRINTERS/PLOTTERS

Go on to next section or return to Chapter 5 or to Chapter 6.

If you have another printer or plotter, find the relevant section of this appendix and follow the instructions for connecting it.

If you don't have another printer or plotter, the next step is to tell the computer that you have connected your disc drive, printer, and other devices (configured your system). Return to the section titled **Loading the Operating System** on page 5-11 of Chapter 5 if you have the HP9122D disc drive or page 6-12 of Chapter 6 if you have the HP 9133D disc drive.

Connecting a Plotter

In this section, you will learn how to connect your HP 7470A or your HP 7475A plotter to the HP Touchscreen PC display unit.

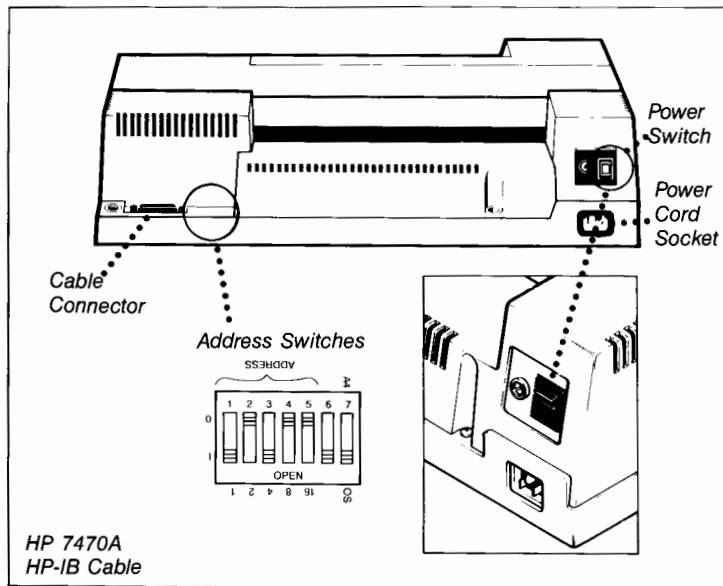
Each plotter comes with its own set of manuals. Be sure to keep those manuals, since you may have questions that are not answered here.

These plotters may be connected with either an HP-IB or an RS-232-C cable, depending on what interface comes with your plotter. (Instructions for connecting either cable to the computer are discussed in the section entitled **Data Cables** in the first part of this chapter.) The voltage for your plotter has been set at the factory.

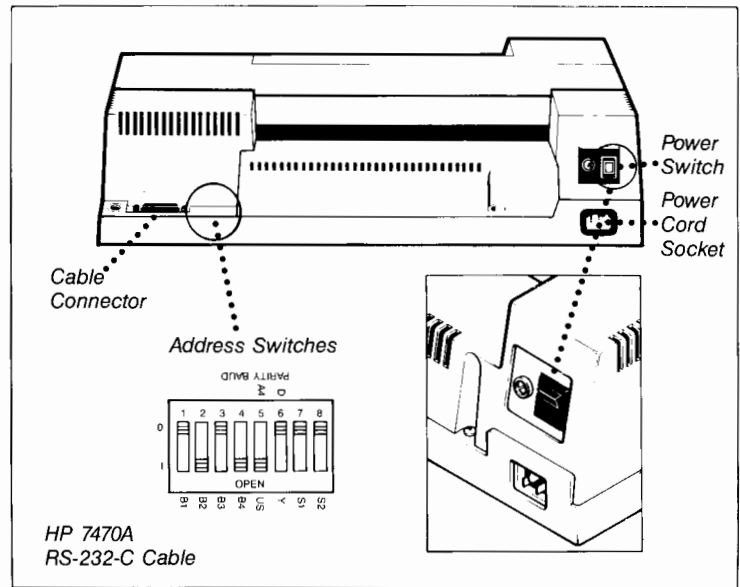
Connecting Your HP 7470A Plotter

Follow the instructions in the *HP 7470A Graphics Plotter Operator's Manual* for checking your HP 7470A plotter and inserting the pens and paper. Then follow these instructions:

1. Be sure the power switch on the rear panel of the plotter is OFF.
2. If you have an HP-IB cable, set the address switches on the back panel as shown below:

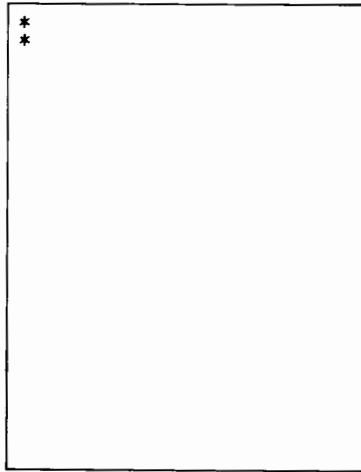


- 2b.** If your plotter has an RS-232-C cable, set the switches on the back panel as shown below: (Switch settings are shown for 9600 baud. For other baud rates, see the *HP 7470A Graphics Plotter Operator's Manual*.)



- 3.** Plug the power cord into the plotter and then into the wall outlet.

4. Run the self-test for the plotter by pressing the PEN UP button on the front panel **at the same time** you turn the power switch ON. (The power switch is a small toggle switch on the back of the plotter, to the left as you face the front. Press the top half of the switch to turn it ON. It may be labeled "ON" or "1"; or it may not have a label.) The self-test prints asterisks down the page at long intervals (two minutes) until you turn the POWER switch OFF.



Self-Test Example



If Something Went Wrong

If there is no action from the plotter, check the following:

- a. The plotter is ON.
- b. The plotter is plugged in.
- c. Make sure the wall outlet works. (To check, plug a lamp into the same outlet.)

If all of the above are fine and your plotter still does not work, refer to the *HP 7470A Graphics Plotter Operator's Manual* to make sure your plotter is connected properly and the switches are properly set. If it still does not work, contact your dealer or the appropriate HP support person listed in the *Series 100 Support Guide*.

5. Turn the power switches on the plotter and the computer OFF.
6. Connect either the HP-IB or RS-232-C cable to the plotter and then to the back of the display unit. If you have an RS-232-C cable, connect it to DATACOMM PORT2 on the back of the display unit.

If you have an HP-IB cable, piggyback it on the HP-IB cable you already attached to the back of your disc drive.

If other devices are already connected to the HP-IB connection, piggyback the plotter's HP-IB cable connection on top of another device's connection.

7. Turn the power switches on the plotter and the computer ON.

Go to next section or return to Chapter 5 or to Chapter 6.

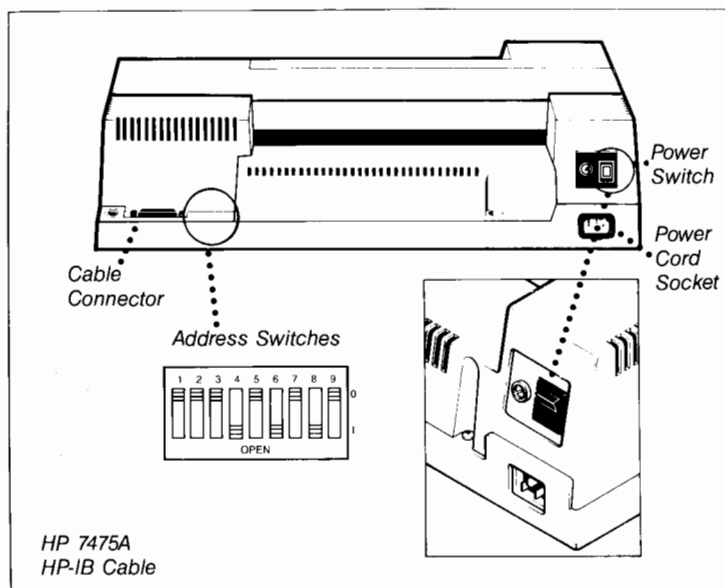
If you have another printer or plotter, find the relevant section of this appendix and follow the instructions for connecting it.

If you don't have another printer or plotter, the next step is to tell the computer that you have connected your disc drive, printer, and other devices (configure your system). Return to the section titled **Loading the Operating System** on page 5-10 of Chapter 5 if you have the HP 9122D disc drive or page 6-12 of Chapter 6 if you have the HP 9133D disc drive.

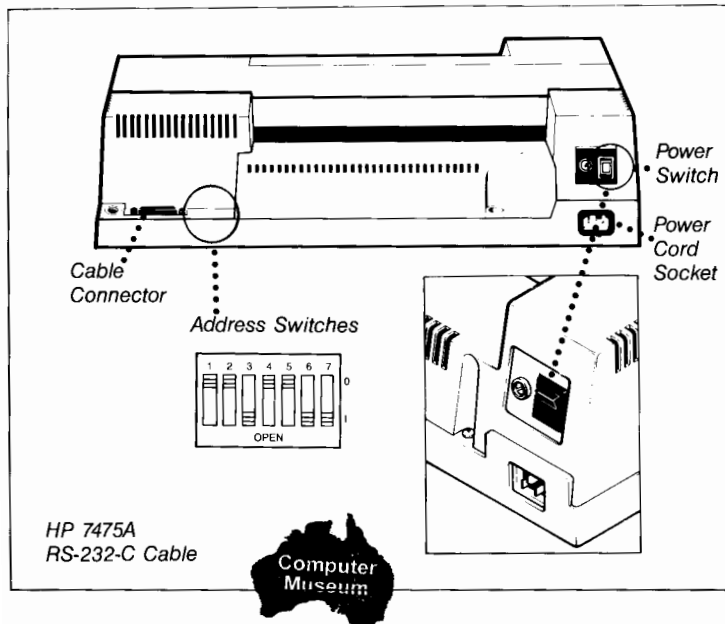
Connecting Your HP 7475A Plotter

Follow the instructions in your *HP 7475A Graphics Plotter Operation and Interconnection Manual* for checking your HP 7475A plotter and inserting pens and paper. Then follow these instructions.

1. Be sure the power switch on the rear panel of the plotter is OFF.
- 2a. If you have an HP-IB cable, set the address switches on the back as shown below:

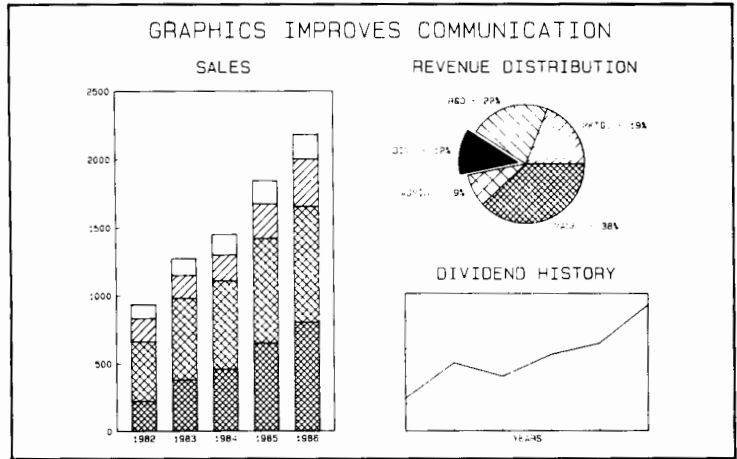


2b. If you have an RS-232-C cable, set the switches on the back panel as shown below: (Switch settings are shown for 9600 baud. For other baud rates, see the *HP 7475A Graphics Plotter Operation and Interconnection Manual*.)



- 3.** Plug the power cord into the plotter and then into the wall outlet.
- 4.** Run the self-test/demo plot for the plotter as follows:
 - a.** Simultaneously press the P1 and P2 buttons on the front panel while turning the power switch ON. (The power switch is a small toggle switch on the back of the plotter, to the left as you face the front. Press the top half of the switch to turn it ON. It may be labeled "ON" or "1." It may not have a label.)

- b. Continue pressing P1 and P2 until the pen carousel turns.
- c. Release P1 and P2, and the self-test will plot as shown in the example below. (If you wish to stop the self-test plot, simply turn the power switch OFF.)



If Something Went Wrong

If the plotter does nothing, check that:

- a. The plotter is ON.
- b. The plotter is plugged in.
- c. Make sure the wall outlet works. (To check, plug a lamp into the same outlet.)

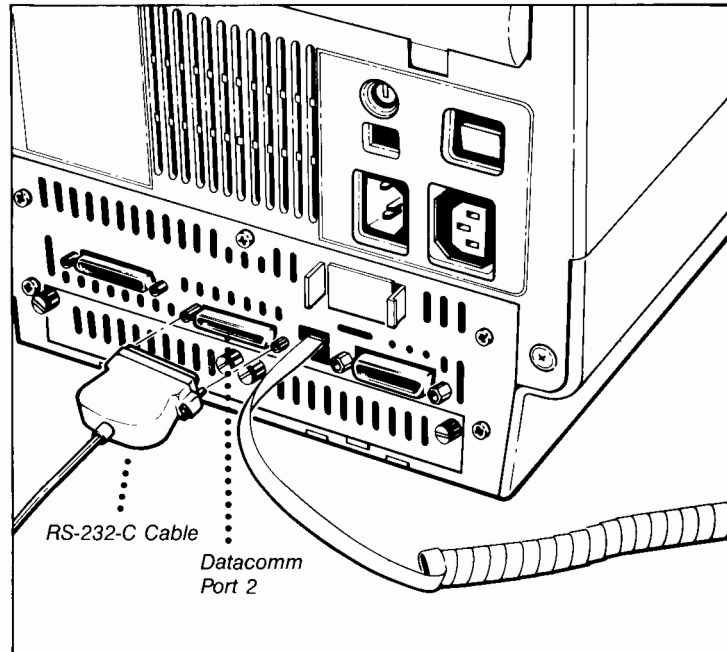
If all of the above are fine and your plotter still does not work, refer to the *HP 7475A Graphics Plotter Operation and Interconnection Manual* to make sure your plotter is connected properly and the switches are properly set. If it still does not work, contact your dealer or the appropriate HP support person listed in the *Series 100 Support Guide*.

- 5.** Turn the power switches on both the plotter and the computer OFF.



6. Connect either the HP-IB or RS-232-C cable to the plotter and then to the back of the display unit.

If you have an RS-232-C cable, connect it to DATACOMM (PORT2) on the back of the display unit. If you have an HP-IB cable, piggyback it on the HP-IB cable you already attached to the back of your disc drive.



If other devices are already using the HP-IB connection, piggyback the plotter's HP-IB cable connection on top of another device's connection.

7. Turn the power switches on the plotter and the computer ON.

Go to next section or return to Chapter 5 or to Chapter 6.

If you have another printer or plotter, find the relevant section of this appendix and follow the instructions for connecting it.

If you don't have another printer or plotter, the next step is to tell the computer that you have connected your disc drive, printer, and other devices. Return to the section titled **Loading the Operating System** on page 5-10 of Chapter 5 if you have the HP 9122D disc drive or page 6-11 of Chapter 6 if you have the HP 9133D disc drive.

B

Configuring Your HP Touchscreen PC

Overview

This appendix tells you how to configure your HP 150 computer system—disc drive, printer(s), plotter(s), and auxiliary device(s) such as a modem or accessory card.

You will start by using EASY CONFIG, an application that leads you through the process of configuring a number of devices. These directions are in the first section below, **Using EASY CONFIG**.

If you have one or more printers or a plotter you will have to do some further configuring. Follow the directions in the section on **Configuring Printers and Plotters**.

If you have more devices than those listed above—for example, a second disc drive—you must configure the additional devices using the instructions in the Chapter 10 on **Configuration** in *Using Your HP Touchscreen Personal Computer*. (You may still use EASY CONFIG to configure the devices listed above.)

Using EASY CONFIG

EASY CONFIG is designed to be used to configure the following:

- one disc drive

- two printers

- a primary printer (the one you will use most often)
- a secondary printer

- one plotter

- one auxiliary device (such as a modem, accessory card)

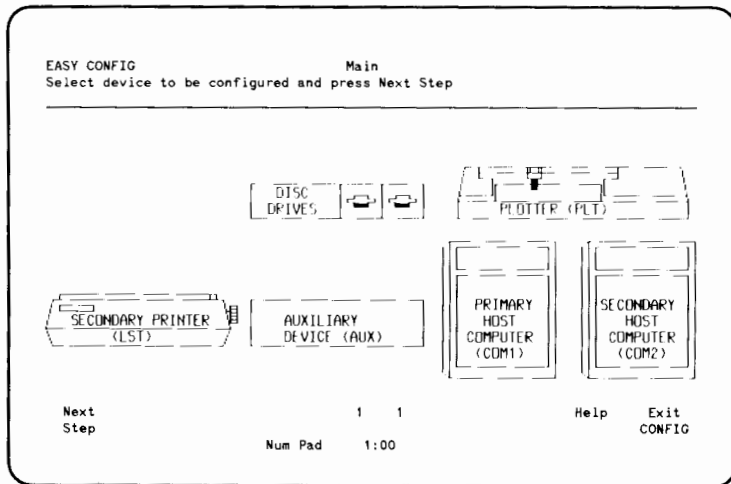
- two host computers

- a primary host computer (the one you will use most often)
- a secondary host computer

Loading EASY CONFIG

To use EASY CONFIG:

1. Make sure the System Work Disc is in drive A (the left-hand drive).
2. Start from the P.A.M. Main menu. You will see boxes on the screen with the names of all the applications that are on the System Work Disc. (If EASY CONFIG is not on the screen, touch Reread discs .)
3. Touch the box labeled EASY CONFIG to highlight it.
4. Touch Start Applic . The message EASY CONFIG will appear at the top of the screen for a few seconds. Then the EASY CONFIG Main menu will appear. Note that the menu name—Main—appears in the center of the top line.



Configuring Disc Drives with EASY CONFIG

1. Touch the picture labeled DISC DRIVES to highlight it.
2. Touch `Next Step` . The EASY CONFIG Disc Drive Connection menu will appear.
3. Touch the picture on the screen with the disc drive model number that corresponds to your disc drive to highlight it.



Both the HP 9122D and the HP 9133D disc drives are in the picture on the left.

4. Touch `Main Screen` . Your disc drive is now automatically configured.

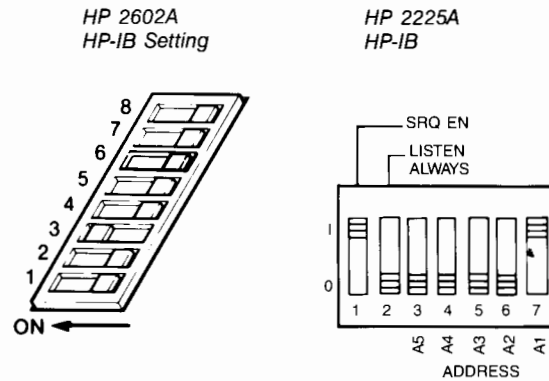
If you don't have any printers or plotters, or auxiliary devices (e.g., a modem), return to section **Running the System Demo** on page 5-16 of Chapter 5 if you have the HP 9122D disc drive or to section **Changing the Address of Your Fixed Disc Drive** on page 6-24 of Chapter 6 if you have the HP 9133D disc drive.

If you do have one of the devices listed above, go to the next appropriate section.

Configuring Your Primary Printer with EASY CONFIG

1. Touch the picture labeled PRIMARY PRINTER (PRN) to highlight it.
2. Touch `Next Step` . The EASY CONFIG Primary Printer screen will appear.
3. Touch the picture on the screen with the printer that corresponds to your **primary printer**. If you don't see your primary printer, touch `Next Page` for more choices. You can get back to the first choices you viewed by touching `Previous Page` .
4. When you've highlighted your primary printer, touch `Next Step` .
5. If your primary printer is an internal thermal printer, your primary printer is now automatically configured. If you have another printer, a plotter, or auxiliary devices (i.e., a modem), go on to the next appropriate section.
6. If your primary printer is not an internal thermal printer, the Printer Connection menu will appear.
 - a. Touch the picture on the screen that shows how your primary printer is connected.
 - b. If your primary printer is the HP 2601A or HP 2602A Daisywheel printer, there will be two special function labels on the screen:
`Previous Wheel` and `Next Wheel` . Touch them and watch the farthest upper right-hand corner of the screen change after the word "WHEEL". These are your print wheel choices. Keep touching until you display the appropriate wheel (e.g., USASCII for the standard United States print wheel). Go on to step c below if your printer is connected with an HP-IB cable. If it isn't, touch `Main Screen` . Your primary printer is now automatically configured.

- c. If you touched the HP-IB connection, EASY CONFIG will automatically inform the computer that your primary printer is address 1. You **MUST** check the actual switches on your printer to make sure that they match EASY CONFIG. Make sure the address switches are set as follows:



- d. Touch `MainScreen` . The EASY CONFIG Main menu will appear and your primary printer is now automatically configured.

Go on to the next section or return to Chapter 5 or to Chapter 6.

If you wish to be able to print what appears on the screen by using a keyboard command, you should also follow the instructions on page B-8 in section **Printing from the Keyboard**.

If you have a secondary printer, a plotter, or any auxiliary devices (e.g., a modem), go to the next section.

If you do not have one of the devices listed above, return to section **Running the System Demo** on page 5-16 of Chapter 5 if you have the HP 9122D disc drive or to section **Changing the Address of Your Fixed Disc Drive** on page 6-24 of Chapter 6 if you have the HP 9133D.

Configuring the Rest of Your Devices with EASY CONFIG

Configure your secondary printer, your plotter, your auxiliary device, and your primary and secondary hosts in the same way by touching the appropriate pictures on the EASY CONFIG Main menu. If you are not sure how to perform the necessary steps, touch `Help` for instructions.

If you are going to be using your plotter with certain graphics programs (for example, LOTUS™), you must configure your plotter both as a plotter *and* as an auxiliary device.

When you are done with EASY CONFIG:



1. Return to the EASY CONFIG Main menu.
2. Touch `Exit CONFIG`.

The P.A.M. Main menu will appear.

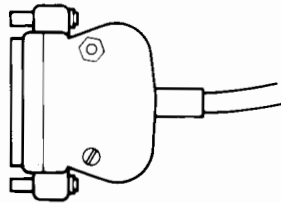


Additional Configuring You May Have To Do

You may have to do some additional configuring. Read 1 and 2 below and select either or both of the situations that apply to you.

1. You have any type of printer(s) at all. Follow the directions in the section **Printing from the Keyboard**. (This will allow you to use the   keys on the keyboard to print from certain applications (or when you are using your Touchscreen PC as a terminal).
or
2. Your printer(s) or your plotter is connected with an RS-232-C cable. You will use the directions in *Configuring Port 2*.

RS-232-C Cable

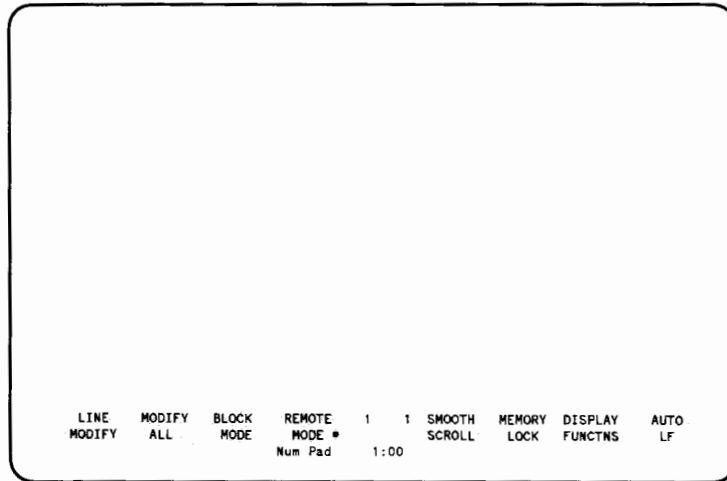


If you have more devices than those listed at the beginning of **Using EASY CONFIG**—for example, a second disc drive—you must configure the additional devices using the instructions in the chapter on **Configuration** in *Using Your HP Touchscreen Personal Computer*.

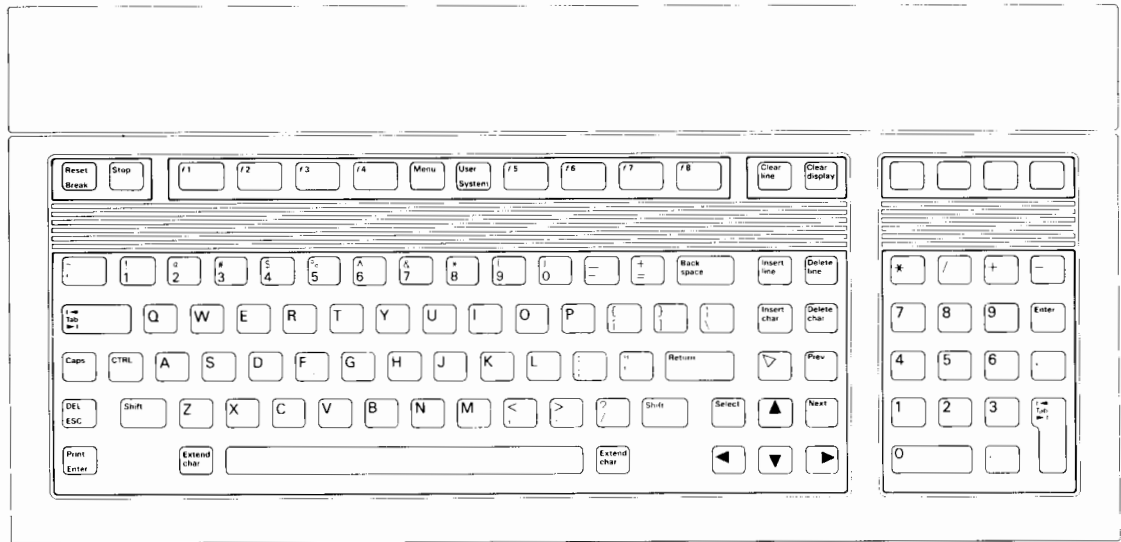
Printing From the keyboard

If you have any type of printer, even an internal thermal printer, you need to follow the directions below. This will allow you to print what appears on the display screen by using the keyboard command **Shift Print** from certain applications (or when you are using your Touchscreen PC as a terminal).

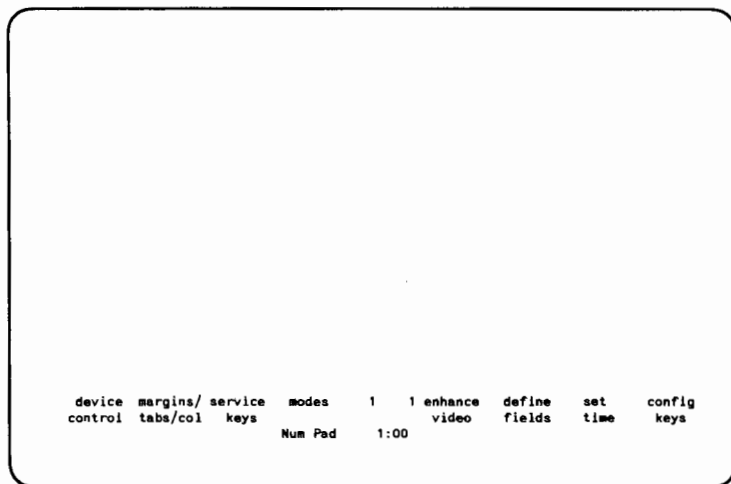
1. Start from the P.A.M. Main menu.
2. Touch the `Terminal` function label. The following will appear on the screen after a few seconds:



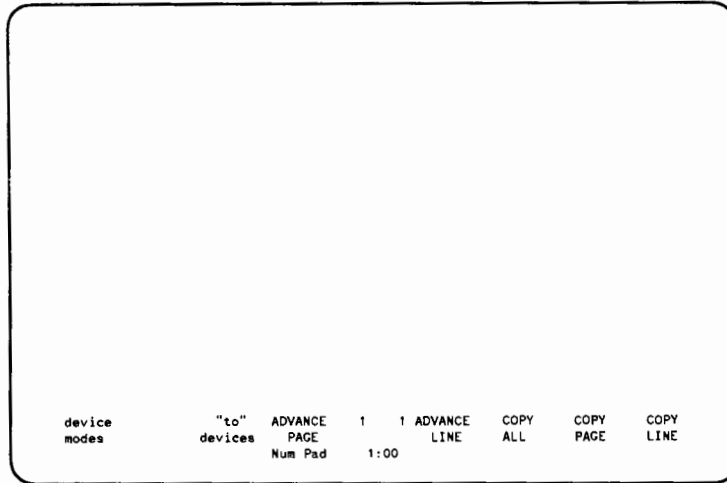
3. Find the **User System** key on the top row of keys on the keyboard. It is in the middle of the dark gray function keys.



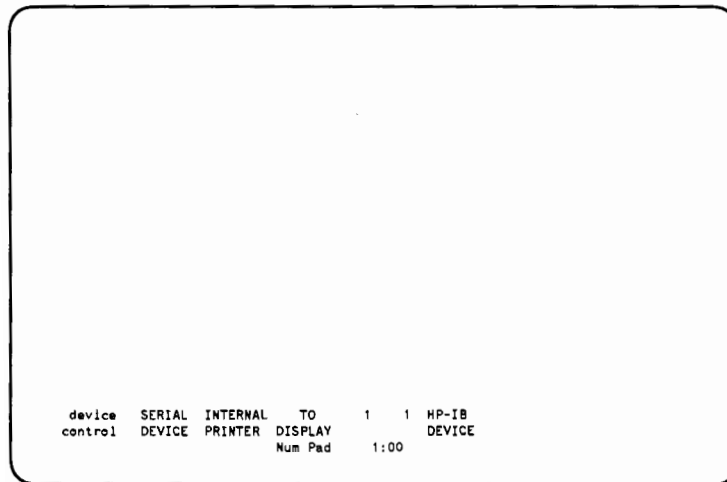
4. Press the **User System** key until you see the following set of function labels on the screen.



5. Touch `device control` . The following set of function labels will appear at the bottom of the screen.



6. Touch `"to" devices` . A new set of function labels will appear at the bottom of the screen.



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7. Look at the function labels on the screen. Do any of them have an asterisk (*)?
- If so, touch the function label with the asterisk (*) until the asterisk disappears.
 - If not, this is all right. You want to start with no asterisks (*).

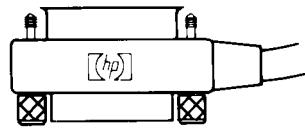
You are concerned with only three of the function labels. You will choose one according to the type of printer cable you have connected to the printer that you will use most often. You should choose *only one* printer here:* Choose a or b or c.

- a. Internal printer (model HP 2674A). Touch the INTERNAL PRINTER function label until the asterisk (*) appears. (If you don't have an internal printer, this label will not appear on your screen.)

OR

- b. Look at the cable hooked up to your printer. If it is an HP-IB cable (pictured below), touch the HP-IB DEVICE function label until the asterisk (*) appears.

HP-IB Cable



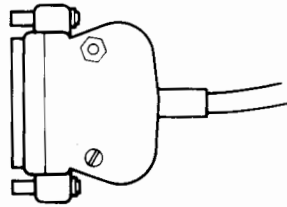
* If you choose more than one printer, when you do a from the keyboard, the information on your screen will go to *all* the selected printers.

The HP-IB printer you have chosen MUST be set at HP-IB address 1. If the printer's address switches are not set at HP-IB address 1, you cannot configure it as a "to" device.

OR

- c. Look at the cable hooked up to your printer. If it is an RS-232-C cable (pictured below), touch the SERIAL DEVICE function label until the asterisk (*) appears.

RS-232-C Cable



8. Hold down **Shift** and press **Stop**. The P.A.M. Main menu should appear.

Go on to next section or return to Chapter 5 or to Chapter 6.

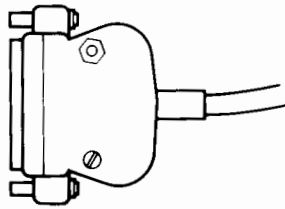
If you have a printer or plotter connected with an RS-232-C cable, go to the next section, **Configuring Port 2**.

If you do not have a printer or plotter connected with an RS-232-C cable, go to the section titled **Running the System Demo** on page 5-16 of Chapter 5 if you have the HP 9122D disc drive or to the section titled **Changing the Address of Your Fixed Disc Drive** on page 6-24 of Chapter 6 if you have the HP 9133D disc drive.

Configuring Port 2

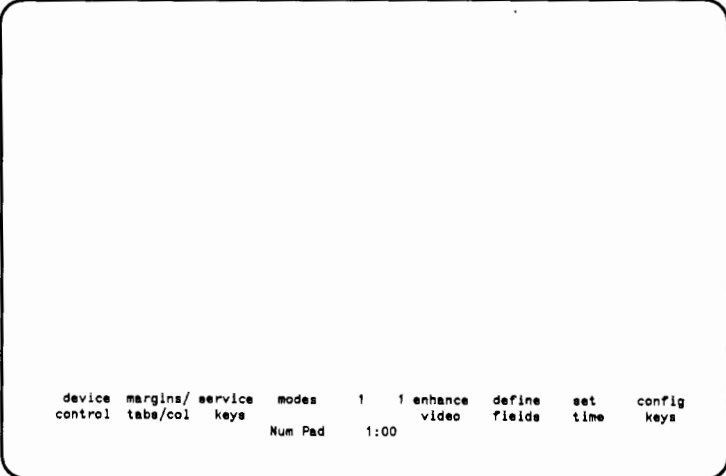
Introduction. Now your computer and operating system know what printers and plotters are connected to your HP Touchscreen PC. If you have a peripheral device (printer or plotter) connected with an RS-232 cable, however, you have one more task to perform.

RS-232-C Cable



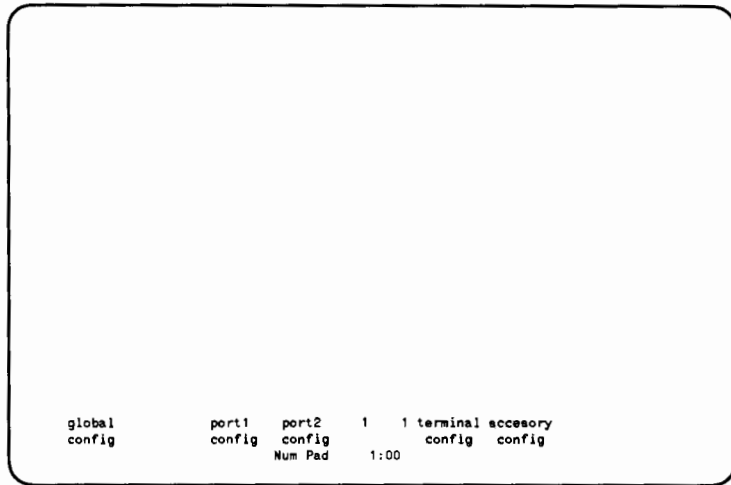
Do the following:

1. Start with the P.A.M. Main menu.
2. Touch the `Terminal` function label.
3. Find the light colored `User System` key on the top row of keys of your keyboard.
4. Press `User System` until the following set of function labels appears on the screen.

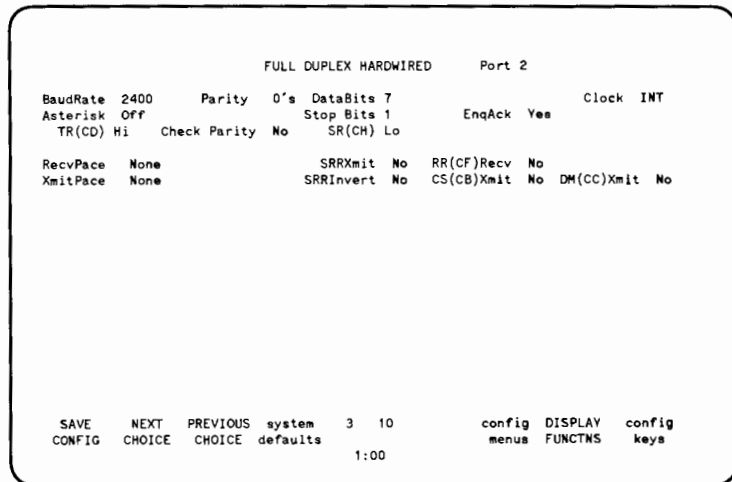


```
device margins/ service modes 1 1 enhance define set config
control tabs/col keys Num Pad 1:00 video fields time keys
```


5. Touch `configkeys` . The following set of function labels will appear.



6. Touch `port2 config` . The following display will appear on your screen.



B-16 Configuring Your HP Touchscreen PC

Port 2 is usually used to connect peripheral devices such as printers and plotters. Port 1 is usually used to connect your HP Touchscreen PC as a terminal to a host computer.

Because there are so many different possibilities in this menu, the format in this section will be different from the step-by-step instructions you have previously seen in this booklet.

The first section consists of instructions on how to change the values in the Port 2 Configuration menu.

The second section consists of examples of Port 2 Configuration menus for different printers and plotters. You will want your menu to match the appropriate example. To make the changes, use the instructions you read in the first section.

Changing a value in the Port 2 configuration menu:

1. Use the key on your keyboard (above the key) to move the blinking cursor to the box you want to change. (The example Port 2 Configuration menu will highlight these boxes.)

You may also use the cursor keys on the keyboard to move the cursor. These are the arrow keys on the right side of the keyboard.

2. When you get the cursor positioned, touch `Next Choice` as many times as necessary to get the same value in the box as in the example.
3. Repeat steps 1 and 2 until you have changed all the values that are highlighted in the example.
DO NOT GO ON UNTIL YOUR SCREEN EXACTLY MATCHES THE EXAMPLE SCREEN.

If You Made a Mistake

- ☛ You can keep touching `NEXT CHOICE` to change the value in one box.

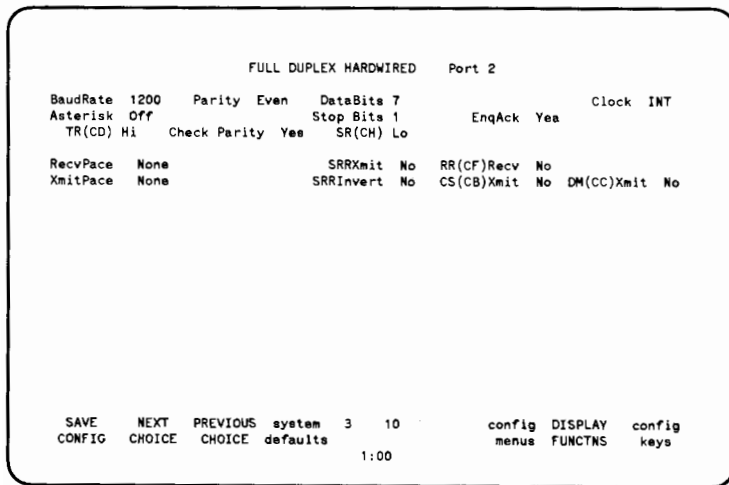
OR

- ☛ If you want to start over from the beginning:
 - a. Touch `system defaults`
 - b. Touch `DEFAULT VALUES`
-

4. When your port2 configuration looks exactly like that shown in the example, touch `SAVE CONFIG`. (You will automatically be returned to the function labels in Step 4 of the previous section.)
5. Hold down `Shift` and press `Stop`.

Examples of Port 2 configuration menus. Find the menu below that corresponds to your RS-232-C printer/plotter connected with an RS-232-C cable. Change the values as described above. You will only need to change the values highlighted in the examples. The other values in the examples are already correct on your screen.

Port 2 Configuration for HP 2601A and HP 2602A printers:



Port 2 Configuration for HP 7470A and HP 7475A plotters:

```

                                FULL DUPLEX HARDWIRED      Port 2
BaudRate 9600      Parity None      DataBits 8      Clock INT
Asterisk Off      Stop Bits 1      EnqAck No
TR(CD) HI      Check Parity No      SR(CH) Lo
RecvPace None      SRRXmit No      RR(CF)Recv No
XmitPace None      SRRInvert No      CS(CB)Xmit Yes DM(CC)Xmit No

SAVE NEXT PREVIOUS system 3 10      config DISPLAY config
CONFIG CHOICE CHOICE defaulta      menu FUNCTNS keys
                                1:00

```

Don't forget to follow steps 4 and 5 in the previous subsection. You must save the configuration menu or your printer/plotter will not operate correctly.

Return to Chapter 5 or to Chapter 6.

Now go to the section titled **Running the System Demo** on page 5-16 of Chapter 5 if you have an HP 9122D disc drive, or the section titled **Changing the Address of Your Fixed Disc Drive** on page 6-24 of Chapter 6 if you have an HP 9133D disc drive.

**Getting Started with Your HP Touchscreen Personal Computer
(45626-90002)**

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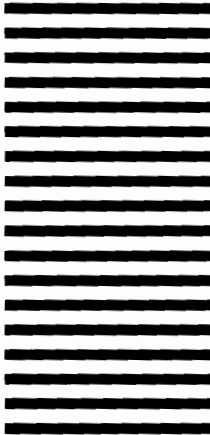
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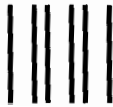
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