

## Chapter 9 Operating the PPT 41xx

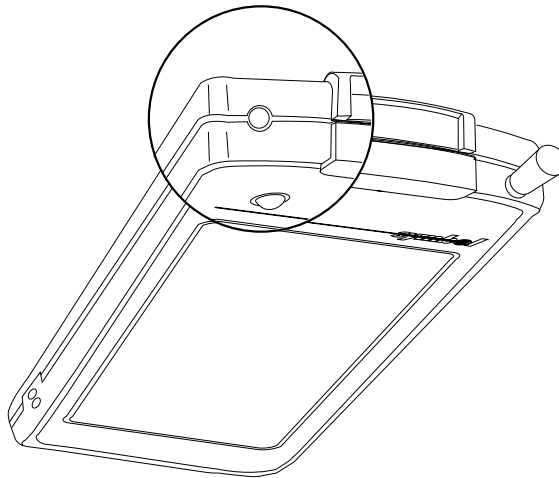
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### Introduction

Once initialized, the terminal is ready for use. This chapter covers basic instructions for operating the PPT 41xx terminal.

### Suspending and Resuming the Terminal

The terminal can be suspended (placed into a very low power mode of operation) by pressing the POWER button, shown in Figure 9-1.



**Figure 9-1. Power Button**

Also, when idle, the terminal may time out and suspend automatically. If the terminal suspends, you may resume through the use of an application-enabled wake-up source (e.g., trigger, pen touch, etc.), or by pressing the POWER button. The terminal continues where it left off.

In general, the terminal should always be suspended when any external connections are added or removed (e.g., serial cables, keyboard cables, phone cords, etc.) When adding or removing PCMCIA cards, terminals should be suspended and then rebooted before resuming.

## **Suspending and Resuming While Maintaining the Network Connection**

The maintenance of the network connection cannot be guaranteed during a suspend. When the terminal suspends because of inactivity, connection to the access point is maintained, if so requested by the application. After a predetermined (user-defined) period of time, the terminal emits a series of three beeps, indicating that the network connection is being terminated. The radio is turned off before the terminal suspends again. The application and the network server must be prepared to handle a log-out or timeout in such cases. Please note, however, that using a long timeout may deplete the main battery to the point where it will not allow the terminal to turn off the radio, thus allowing for the possibility of data loss.

### **WARNING**

To avoid possible data loss, the main battery should not be swapped during a suspend, if the network connection is being maintained. For best results, resume the terminal via the POWER button and suspend it again via the POWER button. This ensures that the radio is turned off. It is then safe to remove and replace the battery. If the battery is replaced and the terminal is resumed within 3-4 minutes, the association with the access point is maintained. If the terminal is suspended with a very low battery (battery level 2 or critical) the association with the access point will NOT be maintained.

## **Providing Power to the Terminal**

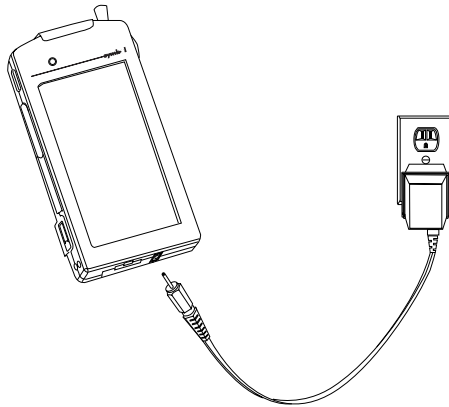
Power can be provided to the terminal through an AC adapter plugged into a standard electrical outlet, or through the use of a rechargeable NiMH (Nickel Metal-Hydride) battery pack.

**Note:** Be sure to fully charge the battery before attempting to run the terminal from the battery. (See *Recharging the Battery Pack* for instructions)

### ***Providing Power through an AC Adapter***

To connect power to the terminal through the AC adapter, do the following:

1. Plug the AC adapter (p/n 50-14000-015 for 220VAC, or p/n 50-14000-016 for 110VAC) into the electrical outlet.
2. Plug the adapter into the bottom of the terminal, as shown in Figure 9-2.



**Figure 9-2. Using an AC Adapter**

## Booting the Terminal

Once the terminal's battery is fully charged, or you've connected the AC adapter, you are ready to boot the terminal. To boot the terminal, press the RESET button, located on the right-hand side of the terminal, using the stylus as shown in Figure 9-3.



**Figure 9-3. Resetting the Terminal**

## Adjusting the Display

The screen display on the PPT 41xx terminal may be adjusted by executing the SETUP.COM utility. If the default ROM disk is present in the terminal, execute the SETUP.COM utility by doing the following:

1. Press and release the RESET button on the right-hand side of the terminal, using the pen.
2. As soon as you release the RESET button, press and hold the right side button.
3. When prompted, press and release the left side button to run SETUP.
4. On the next screen, select the SETUP box, using the pen.
5. Continue selecting the NEXT PAGE option until you've reached page 3 of SETUP.

Phoenix SETUP Utility (Version 1.xx)	
(c) Phoenix Technologies Ltd. 1985, 1993 All Rights Reserved	
PPT 4100 Advanced Feature Control	Page 3 of 3
Backlight Brightness: Off	
LCD Contrast: 8	
Buzzer Volume: High	
Boot Sequence: A,C	
<div><div>Exit Menu</div><div>Next Page</div><div>&lt; → Fields</div><div>↑ ↓ Fields</div><div>Prev. Value</div><div>Next Value</div></div>	

**Figure 9-4. PPT 4100 Advanced Feature Control Screen**

On this page (Figure 9-4), change the LCD Contrast option to a higher number to increase contrast, or to a lower number to decrease contrast. (The value of this field may be changed by pen-selecting either the Prev. Value or Next Value option, as appropriate.) The contrast will immediately change as you change the value of the field, and may be saved by selecting the Exit Menu option.

## **Adjusting the Backlight**

Through SETUP.COM, the backlight on the terminal may be turned higher, lower, or off. This may be done by pen-selecting the Backlight Brightness field, changing the value which appears in this field through the use of the options at the bottom of the screen, and then saving the value by selecting the Exit Menu option. If your terminal does not have a backlight, then this option is not available.

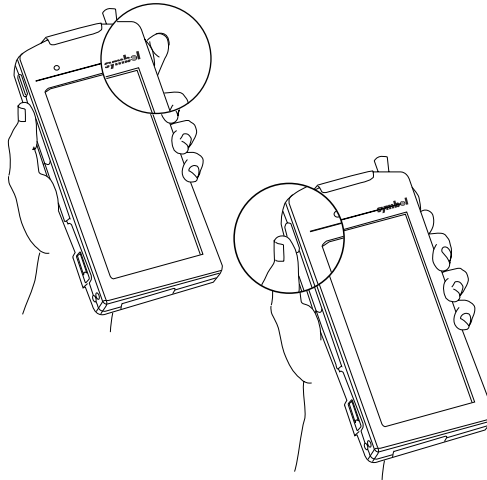
**Note:** The default value of this field is Off, and in order to conserve power on the terminal, this value should remain set to Off, unless absolutely necessary.

If the default ROM disk is not present in the terminal, then the above sequence for executing SETUP.COM will not work. SETUP.COM may be incorporated into the ROM disk, in which case the method of invoking it is defined by the developer of the ROM disk. Optionally, the default ROM disk can be reloaded to allow use of the execution method described above.

## Scanning

The PPT 41xx has an application-driven integrated laser bar code scanner, which allows for right- or left-handed scanning. The Scan/Decode LED lights red to indicate that the scanner is on, and green when a successful decode has occurred.

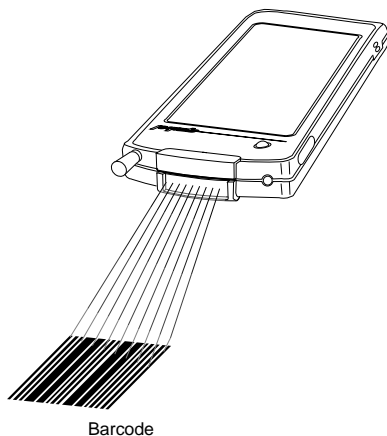
1. Press whichever scanning button on the terminal is more comfortable for you, as shown in Figure 9-5. Do not press both buttons at the same time.



**Figure 9-5. Pressing the Scanning Button**

**Note:** The scanner application and the Scanner Driver must be loaded in order to perform scanning.

2. Point the laser scanner at the bar code, holding the terminal at approximately a 30° angle. Position the red beam to cover the entire bar code.



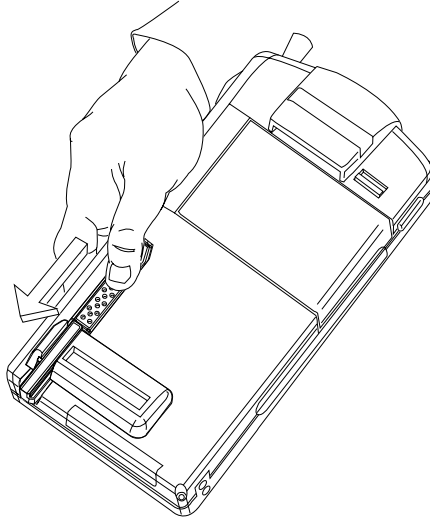
**Figure 9-6. Proper Scanning Angle**

## **Using the Pen**

The PPT 41xx comes with a stylus (pen) (p/n 30205-0174-01), which, depending upon the application running on your terminal, can be used to select items on the screen, as a mouse is used, or to write characters directly on the screen, which can be used in an application written to perform character recognition.

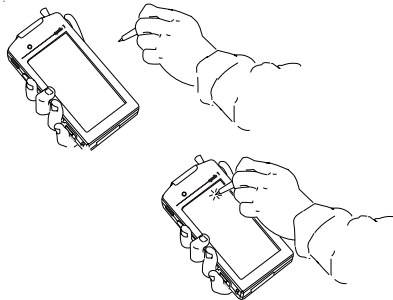
## Using the Pen to Select an Item

1. Remove the pen from the back of the terminal by pressing on the “dotted” area of the pen, and sliding it out of the pen slot, as shown in Figure 9-7.



**Figure 9-7. Removing the Stylus from the Terminal**

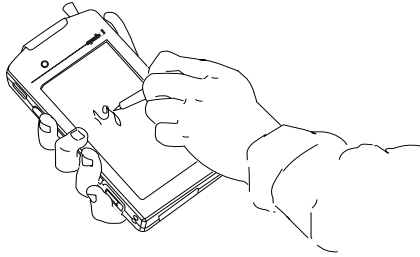
2. Gently apply pressure to the screen to select an item, as shown in Figure 9-8.



**Figure 9-8. Selecting an Item**

## Using the Pen to Perform Handwriting

1. Remove the pen from the back of the terminal by pressing on the “dotted” area of the pen, and sliding it out of the pen slot.
2. Gently apply pressure to the screen and write normally, as shown in Figure 9-9.



**Figure 9-9. Writing on the Screen**

## Replacing the Pen

To replace the pen in its slot, slide the pen into the pen slot on the back of the terminal, making sure that it snaps into place securely.

**Note:** If you lose your pen, either use your finger or a non-metallic, non-abrasive type plastic pointer to select items or to write on the screen. Do NOT use anything which will scratch or mark the screen. If you would like to order a new pen, the part number is 30205-0174-01.

## LCD Overlay

A protective overlay is available for use on the terminal's LCD. This overlay protects the terminal from scratches and other damage. The part number of the overlay is 11-16891-01.

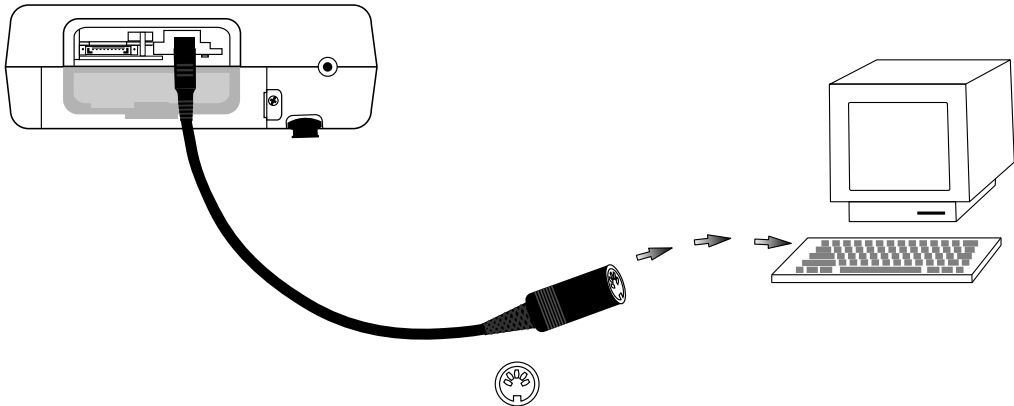
## Using a Keyboard

The PPT 41xx can be attached to a PC-XT keyboard using a subminiature/5-pin cable (p/n 25-12060-01). Once connected, the keyboard enables you to perform any of the functions you might perform on a PC, such as formatting an SRAM card, or performing SETUP. See [Chapter 11, Utilities](#), for information on the SRAMFORM utility, and Chapter 3, *Initializing the Terminal*, for information on invoking SETUP.COM using a keyboard.

**Note:** Some keyboards can support either XT- or AT- modes via a switch setting. Ensure that the switch is in the XT-position.

To attach a keyboard:

1. Suspend the terminal by pressing the POWER button on the top of the terminal.
2. Insert the cable's subminiature connector to the keyboard port on the bottom of the terminal as shown in Figure 9-10.



**Figure 9-10. Connecting an -XT Keyboard to the Terminal**

3. Connect the 5-pin end of the cable to the PC-XT keyboard.
- Resume the terminal by pressing the POWER button on the top of the terminal.