POS Touchscreen System

PT-3000

DISCLAIMER

The information contained in this manual has been validated and reviewed for accuracy. While every precaution has been taken in the preparation of this manual, manufacturer assumes no responsibility for errors or omissions. Neither do manufacture assumes any liability for damage(s) incurred directly or indirectly from errors, omissions or discrepancies between the product and the manual.

NOTICE
The information in this manual is subject to change without notice.

BATTERY REPLACEMENT

WARNING:

Your system is provided with a battery-powered Real-Time Clock circuit. There is a danger of explosion and risk of personal injury if the battery is incorrectly replaced or mistreated. Do not attempt to disassemble the battery, immerse it in water or dispose of it in fire.

CE

WARNING:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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How to Use This Manual

This manual will provide the user with as much information about the PT-3000 system as possible. This information will be very useful while installation of the system.

Chapter 1, "Introduction"; describes the various features about the system. And describe the safety precautions that will protect you and the system. Please read carefully to avoid any damages.

Chapter 2, "Getting Start & Outlooking"; tells you about unpacking details and the accessories along with the system. It will also explain you the detail identification about the various parts of the system.

Chapter 3, " System Installation"; gives you detail description about the installation of the system and connecting details for various external peripherals.

Chapter 4, "System Power-up"; tells you about the initial check-ups before switching "ON" the power to the system. Also provide some guideline with software installation.

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C H A P T E R 1
INTRODUCTION

1.1 General Description

PT-3000 is an integrated system with more functionality, performance, durability, and reliability. Its abundant built-in features allow you to widely use this system for different application such as supermarket, restaurant, hospitality, pharmacy, information service terminal and the likes.

PT-3000 system has a compact design & is lightweight. It can work in stand-alone or network environment. To simplify system integration, its packs POS provisions such as Ethernet, SVGA, Solid State Disk, PCMCIA interface, USB ports, Cash Drawer interface, Customer Display interface. Unique POS feature POS feature such as 4 serial port with power capability. Special features not commonly seen in other motherboards include watchdog timer for the system dependability during unattended operation. CMOS double backup in Flash memory to ensure the system to be automatically booted up when the CMOS data loss occurs.

Touch Panel feature on the PT-3000 system makes it still strong in application. Touch screen uses resistive sensor, providing unsurpassed performance in POS application. Touch the screen with a finger, gloved hand, fingernail, or even a credit card, and you'll receive a fast, accurate response- every time.

Touch Panel on the PT-3000 system is scratch-resistant, and completely sealed against contamination and moisture. It prevents fluid ingress through the air vent due to capillary action.

Due to its flexible design the PT-3000 system can be installed without its enclosure for embedded applications such as wall or table mounting.
Designed by POS experts and for POS professionals, the PT-3000 system is the ultimate one-step solution for your POS system.

1.2 Safety Precautions

- □ Read all of these instructions.
- □ Do not place this system on an unstable cart, stand, or table. The system may fall, causing serious injury to a child or adult and serious damage to the appliance.
- □ Slots and openings in the back or bottom are provided for ventilation, and to ensure reliable operation of the system and to protect it from overheating, these openings must not be blocked or covered. The system should never be placed near or over a radiator or heat register.
- □ This system should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, consult your dealer or local Power Company.
- □ This system is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type

power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

- Do not allow anything to rest on the power cord. Do not locate this system where persons working on it might abuse the cord.
- Never push objects of any kind into this computer through opening present on the system as they may touch dangerous voltage points or short out parts that could result in a fire electric shock.
- When replacements parts are required, be sure the service technician has used replacements parts specified by the manufacturer that have same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this system, ask the service technician to perform routine safety checks to determine that the system is in safe operating condition.
- Do not use this system near water. For example, bathtub, washbowl, kitchen sink, in a wet basement etc. Avoid installing the system exposed to direct sunlight, or near a heating device.
- Also avoid moving the system rapidly from a hot place to a cold place or vice versa. Otherwise, condensation may be casused from inside the system.
- When system not in use, remember to cover the system and store with care.
- Before plug the power cord on to the AC inlet of the power supply unit, please make sure the power switch is on correct voltage either 115V or 230V to avoid the damage of the power supply unit.

C H A P T E R 2
GETTING START

2.1 Unpacking the Package

Upon unpacking the PT-3000 system package, make sure that you have the following items in good conditions:

- □ PT-000 CPU Unit x 1 pc
- □ Pedestal Unit with Keylock x 1 pc
- □ Power Supply Unit x 1 pc
- □ MSR Unit x 1 pc
- □ The PT-3000 User's & Technical Reference Manual x 1 pc each
- □ AC Power Cord x 1 pc
- □ HDD & FDD cable, Connectors, Cable Fixer & Screw Kit
- □ Support Drivers and Utility Diskettes
- □ Front Base Cover x 1 pc
- □ Rear Base Cover x 1 pc
- □ Hinge Cover x 2 pc
- □ Customer Display Unit x 1 pc

If any of the above items are damaged or missing, please contact your supplier immediately.
After you have removed all items put the packing material and plastics wrap into the packing box and move it to a storage area. Save them for use when moving or shipping the system.

2.2 PT-3000 System Overview: The system consists of three main units

A) The CPU Unit: This unit contains following:

- Motherboard
- LCD interface hardware
- Main Power "ON/OFF" switch
- Serial / Parallel port connections
- HDD/ FDD Interface connections
- USB connections
- Cash Drawer connection
- Printer connection
- DC power connection
- PS/2 Keyboard & Mouse connection
- Ventilation slots for CPU cooling fan
- LAN port connection
- Customer Display connection
- PCMCIA connection slot
- MSR connection slot
- HDD & Power indicator window
- Touch panel sensor over the LCD
- Cover plate for the port connections

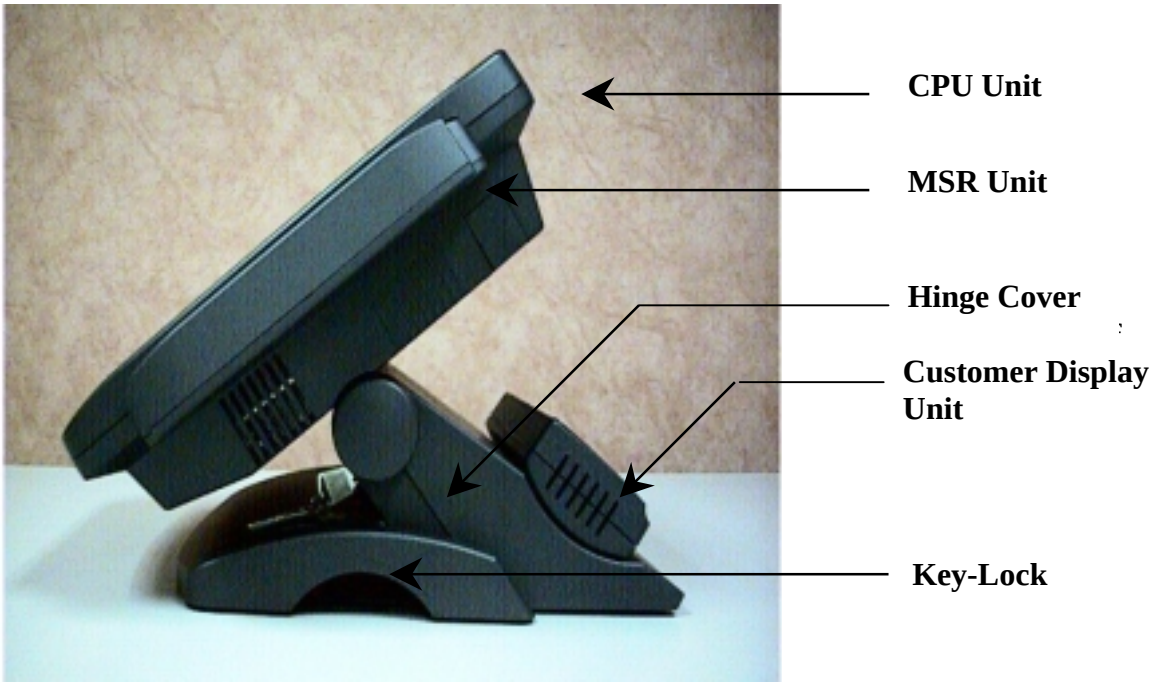
B) The Pedestal Unit : This unit consist of following,

- Metal Base to install the HDD / FDD
- Hinge connection to main CPU unit
- Front Base Cover
- Rear Base Cover
- Customer Display slot
- Key-lock interface

C) The Power Supply Unit : This unit consists of following,

- Main powers input socket, but before applying the power to the unit, make sure about the supply voltage. There is a switch to either select the 115 VAC or 230 VAC.
- Output DC voltages through this unit are delivered by two DIN type connectors that are to be interface to the main CPU unit.

Figure 1: PT-3000



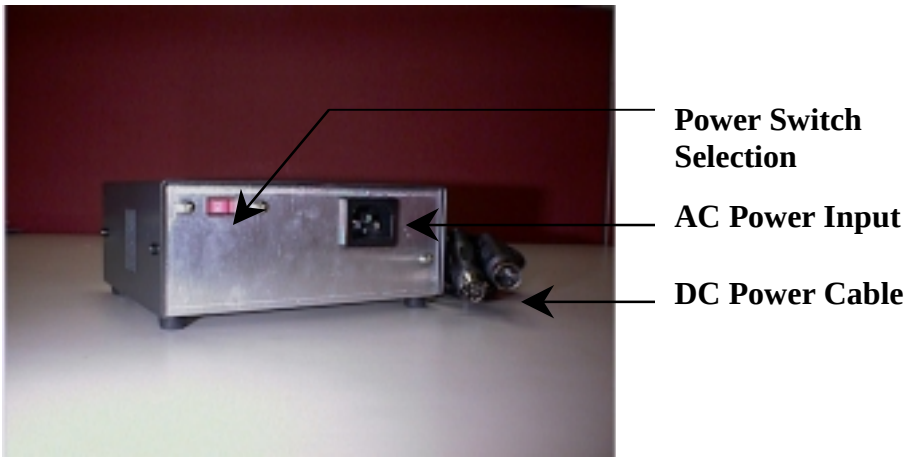


Figure 2: PT-3000 POWER ADAPTER UNIT

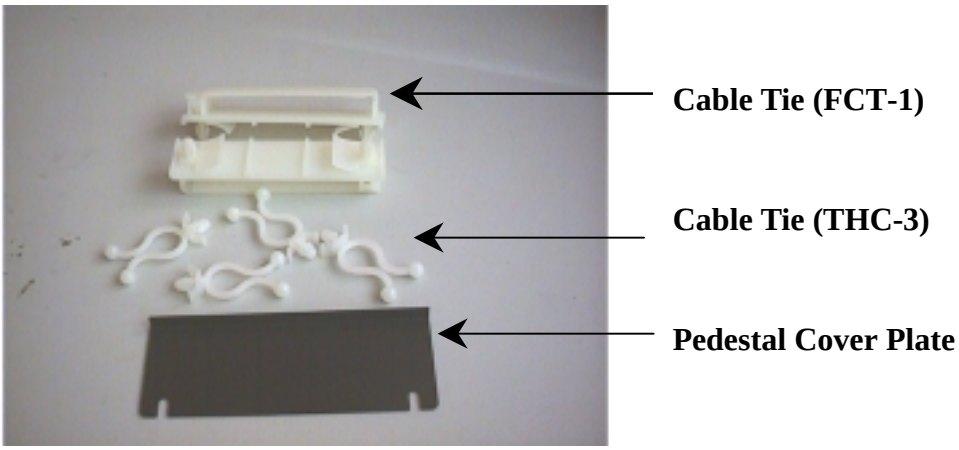


Figure 3: CABLE FIXER

C H A P T E R 3
SYSTEM INSTALLATION

Upon unpacking the system from the package, please follow the steps as explained below to install the system for operation:

3.1 Initial Check-up of the system

- Confirm that power switch is in "OFF" position.
- There are two round hinge covers on either sides of the system, which acts as a cover lock for the hinge between the CPU unit and the pedestal. Pull these round cover brackets downward, after that you can remove them out easily.
- There is a keylock on the front side of the pedestal unit. Insert the key into the lock, turn the key to unlock position. Once this done, you can remove the back cover placed on the rear side of the pedestal.
- Rotate the main unit to the biggest rise angle.
- There is an I/O cover plate on the rear side of the CPU unit, just below the serial number & CE label. To open the cover you have to pull it from the lower side. Once it is open you will get the access to the I/O port on the system.
- After following above steps, now you can remove the back base cover place on the pedestal. Once you remove the same you will get access to the HDD and the cable interfacing area.
- The CPU unit is fixed to the Pedestal with the help of two side hinges. The CPU unit is inserted through the slot into the hinge. Once fitted properly you can tight the same with the three screw connections on each side.

3.2 PS/2 Keyboard Connection

- There is one PS/2 port on the rear side of the CPU unit to which you can interface the PS/2 keyboard. Pass the keyboard cable through the slot provided on the lower right-hand side of the pedestal. Please crosscheck the label indicator before installing the keyboard.

3.3 PS/2 Mouse Connection

- There is one PS/2 port on the rear side of the CPU unit to which you can interface the PS/2 mouse. Pass the mouse cable through the slot provided on the lower right-hand side of the pedestal. Please crosscheck the label indicator before installing the mouse.

3.4 Printer Connection

- There is 25-pin D-type female connector on the rear side of the CPU unit to which you can interface the parallel printer. Pass the printer cable through the opening provided on the left-hand side base of the pedestal.

3.5 Cash Drawer Connection

- One RJ11 connector is provided on the rear side of the CPU unit that supports two cash drawer controllers. Pass the cash drawer cable through the right-hand side base opening of the pedestal.

3.6 VGA Connection

- One 15-pin D-type female connector is provided on the rear side of the CPU unit that supports not-interlaced CRT display to the system. Pass the display cable through the left-hand side base opening of the pedestal.

3.7 Serial Port Device Connection

- On the rear side of the CPU unit there are two 9-pin D-type male connectors that supports RS-232C interface. COM1 & COM2 both serial ports can be set to supply power +5V.

3.8 Customer Display Connection

- On the rear side of the CPU unit there is one RJ45 connector that is used to interface the customer display unit. This is a serial port with RS-232C interface signals but only difference is that the 9-pin D-type connector is not used.

3.9 MSR Connection

- On the left-hand front side of the CPU unit there is a covered slot which supports the 1/ 2 /3 track magnetic card reader. It is required to open the slot and interface the MSR connector and then fit in the MSR unit in the same slot.

3.10 PCMCIA Connection

- There is opening on the lower right hand side of the CPU unit that is used to interface the PCMCIA / FAX MODEM to the system through PC/104 interface.

3.11 Installing the Hard Disk Drive

- On the pedestal there is a pair of metal strips which are fixed with a screw to the base plate. Unscrew the strips from the base plate. Then fix the strips to the HDD edges in the respective slot provided. After this install the HDD on to the base plate of the pedestal with the interface and power cable facing towards you. Screw the metal strips to the base of pedestal. Connect the interface cable to the IDE 40-pin male connector present on the rear side of the CPU unit. Crosscheck with the label indicator. Also interface the power cable to any one of 4-pin male connector provided on the rear side of the CPU unit.

3.12 USB Devices Connection

- There are two USB ports connections provide on the rear side of the CPU unit. These ports are fuse protected and compliant with USB spec.

3.13 Ethernet Connection

- On the rear side of the CPU unit you will find one RJ45 connector just beside the IDE connector slot. This RJ45 connector is with 2 LED indicators on it. This port is Novell NE2000 compatible 10/100 Base-T interface. With the Ethernet boot ROM included into the system BIOS.

3.14 Installing the Floppy Disk Drive

- On the pedestal there is a pair of metal strips which are fixed with a screw to the base plate. Unscrew the strips from the base plate. Then fix the strips to the FDD edges in the respective slot provided. After this install the HDD on to the base plate of the pedestal with the interface and power cable facing towards you. Screw the metal strips to the base of pedestal. Connect the interface cable to the IDE 24-pin male connector present on the rear side of the CPU unit. Crosscheck with the label indicator. Also interface the power cable to any one of 4-pin male connector provided on the rear side of the CPU unit.

3.15 DC Power Supply Connection

- There are two DIN type female connectors on the rear side of the CPU unit.One is 4-pin DIN and the other 8-pin DIN. Both of the power cables must pass through the opening provided at the right-hand side base of the pedestal. Crosscheck the connections on the label indicator before plugging in the cable.

3.16 Installing the I/O cable cover

- Once all peripheral cables are attached to the I/O ports of the system it is advise to cover the area with a I/O cable cover provide along with the machine.

3.17 Installing the Back Cover on the Pedestal

- Once all the porting of the peripherals is completed, and the routing of the cables is done properly. It is advise to cover the pedestal back by the metal cover provided.

3.18 Installing the Hinge Cover

- Once the back cover is placed over the pedestal, it is advice to cover the hinges with the round cover brackets. To fit this hinge cover first press it over the hinge then push upward to lock the same.

3.19 Keylock Installation

- There is one keylock provided on the front side of pedestal. The function of this key is to provide a mechanical lock for the back cover on the pedestal. Which acts as security for the HDD. So once you have placed the back cover on the pedestal you have to switch the key to lock position. Similarly, while opening the same you have to first turn the key to un-lock position.

Figure 4: HINGE COVER REMOVAL

Figure 5: BACK BASE COVER REMOVAL

I/O cable cover on the rear side of the CPU unit

Figure 6: I/O CABLE COVER REMOVAL

- **Serial Port**
- **Printer Port**
- **VGA Port**

- **FDD Interface**
- **IDE Interface**
- **2.5" HDD Interface**

I/O Port:

- **Cash Drawer**
- **USB Port**
- **PS/2 Keyboard & Mouse**
- **5/12V supply for HDD/ FDD**
- **Customer Display Port**
- **LAN Port**
- **Printer Supply**
- **Input DC Supply**

Figure 7: REAR SIDE VIEW OF CPU UNIT

Opening provided on the base of the pedestal front cover.

Figure 8: PS/2 KEYBOARD INTERFACE

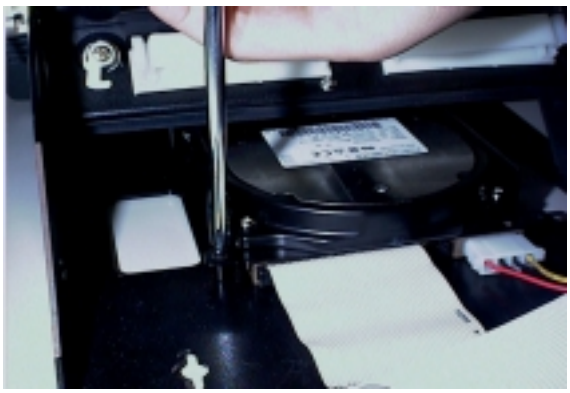


Figure 9: HDD INTERFACE

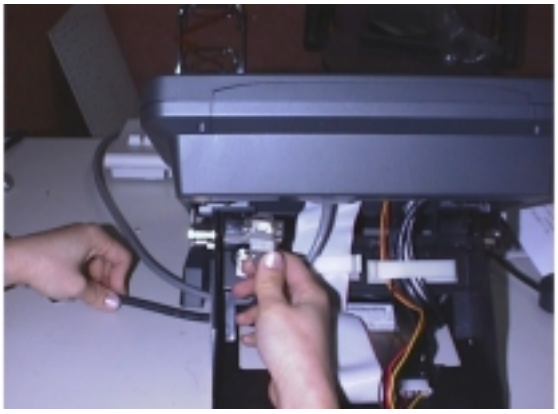


Figure 10: PRINTER INTERFACE

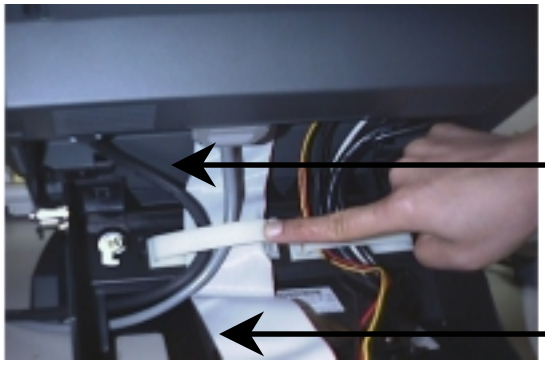


Figure 11: CABLE ROUTING (FCT-1)

DC Power cables to be interface to the CPU unit.

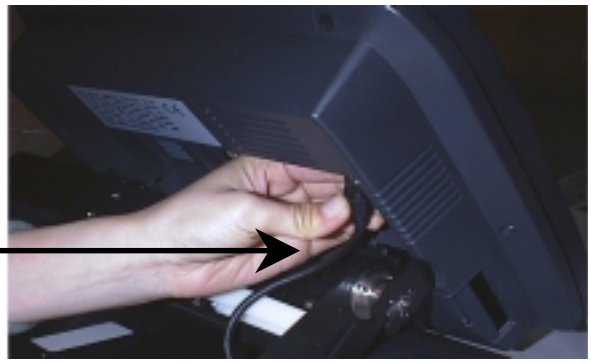


Figure 12: DC POWER INTERFACE

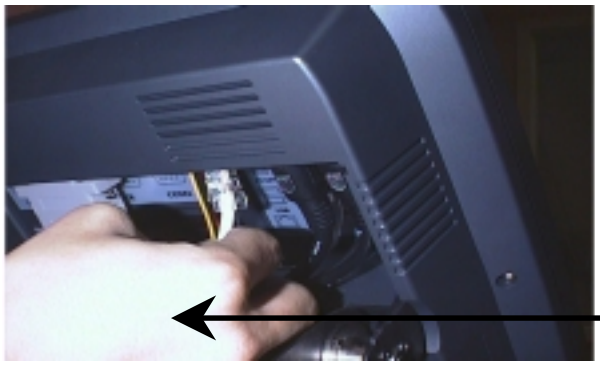


Figure 14: CUSTOMER DISPLAY INTERFACE

Cable Fixer (FCT-1)

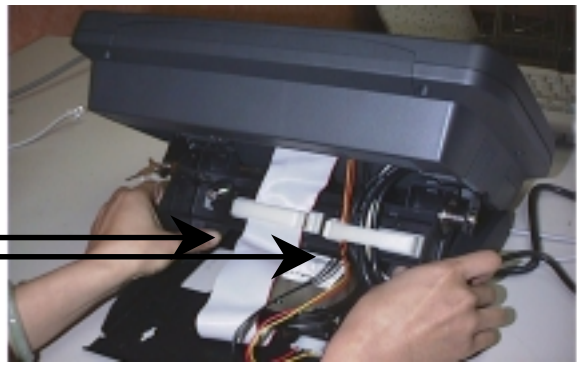


Figure 15: CABLE ROUTING

Figure 16: INSTALLING THE BASE COVER

Figure 17: INSTALLING THE HINGE COVER

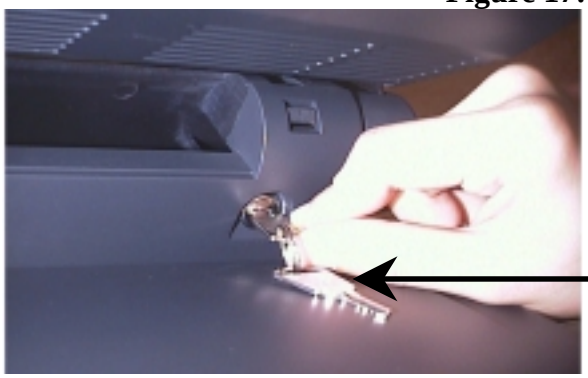


Figure 18: KEY-LOCK

Figure 19: MSR INTERFACE

PCMCIA Slot, to which the Fax/ Modem card can be interfaced.

Figure 20: PCMCIA INTERFACE

Inserting the CPU unit on to the hinge present on the pedestal unit.

Figure 21: CPU UNIT INTERFACE TO PEDESTAL

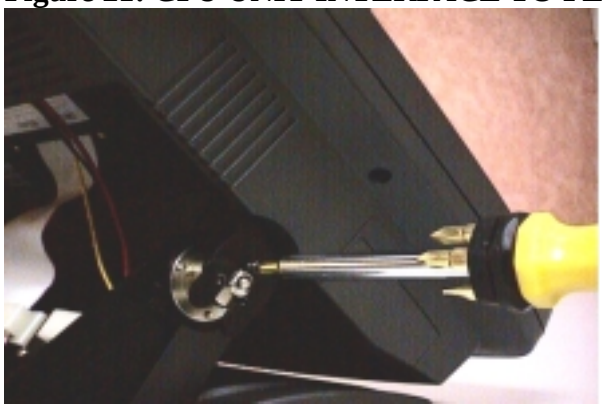


Figure 22: SCREW FIXING ON HINGE

Figure 23: REAR VIEW OF PT-3000

Figure 24: POWER SWITCH

C H A P T E R 4
SYSTEM POWER-UP

4.1 Check the Input Power Supply

- Before you plug the power cord on to the AC inlet of the power supply unit, please make sure the power switch is on correct voltage either 115V or 230V to avoid the damage of the power supply unit.
- Check the main supply grounding.
- Check the electricity supply is protected by differential switch.

4.2 Switching "ON" the system

- After going through above steps, it is advice to switch on the system with the switch provided.

4.3 Brightness Adjustment

- LCD display brightness can be adjusted by a rotary switch provided on the front lower side of the CPU unit.

4.3 Software Installation

- Once the system is ready for operation you can install the application software through Floppy Disk or by interfacing the CD-ROM drive to the PC-104 interface (PCMCIA port) or by interfacing the system in network and downloading the software from the server.