POS600/605
with B55 M/B
Installation Guide

Point-of-Sale
Hardware System

48200142

July 2003 (V2.0)

1. Accessory
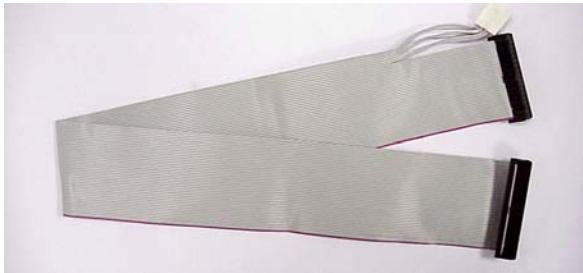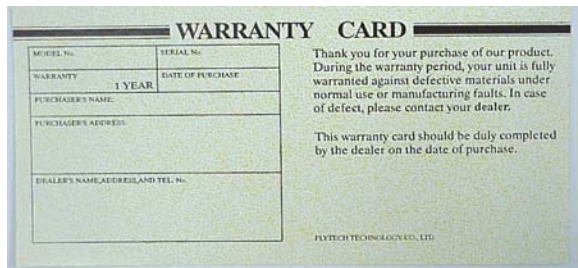
External Floppy Cable

Power Cable

VFD Cable

VGA Cable (optional for second display)

Drivers Bank

Warranty Card

The following drivers in the folders of Driver Bank are necessary for driver installation:

Folder	Driver	Function
Common	Acrobat	Acrobat Reader Installation
	BIOS Tool	BIOS Update Tool
	CDROMDrv	CDROM driver installation (for DOS)
	Elo_Touch	Touch screen driver Installation
	LAN_drive	LAN driver installation
	Netmos	Enable COM5/COM6
	Smart Card	Smart Card driver installation
B55	Audio	Audio driver Installation
	UDMA	UDMA driver installation
	VGA	VGA driver installation
Test Utility	Card Reader	Card Reader Test Program
	Cash Drawer	Cash Drawer Test Program
	VFD	Customer Display Test Program

When using B55 Mainboard, the Touch Screen was set on COM5. The Netmos driver must be loaded to enable COM5 & COM6 before installing ELO touch driver to COM5.
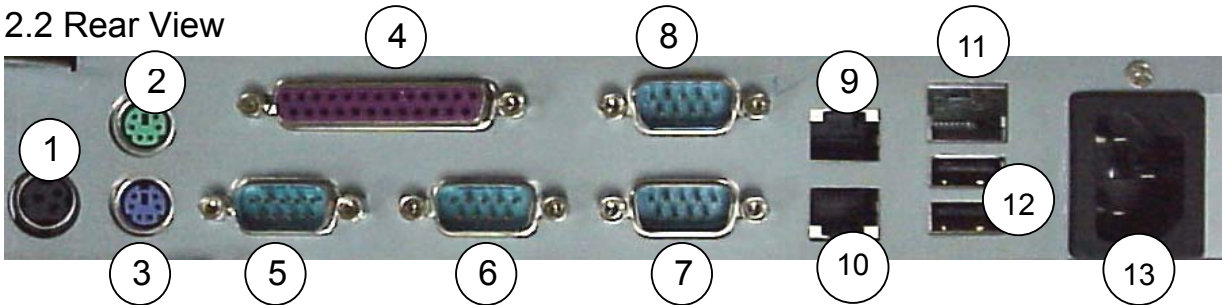
2. I/O Function

2.1 Front View
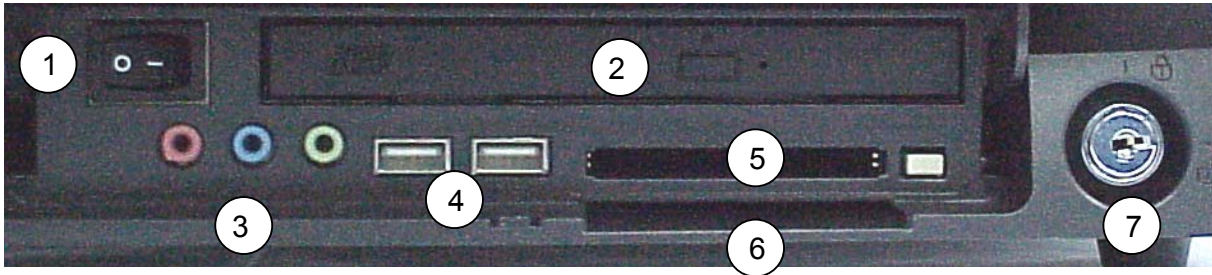
#	Function	#	Function
1	Power Switch	5	PCMCIA slot
2	CD-ROM Drive	6	Smart Card slot
3	MIC/Line-In/Line-Out	7	Key Lock
4	USB 3 & 4		

2.2 Rear View

#	Function	#	Function
1	DC Output 24V/2.0A	8	COM4(optional 2nd VGA port)
2	PS/2 Mouse	9	Cash Drawer 1
3	PS/2 Keyboard	10	Cash Drawer 2
4	LPT	11	LAN
5	COM1	12	USB1&2
6	COM2	13	AC Inlet
7	COM3		

Note: If you installed second display of COM4 , the Card Reader must be use keyboard type.

2.3 Side View
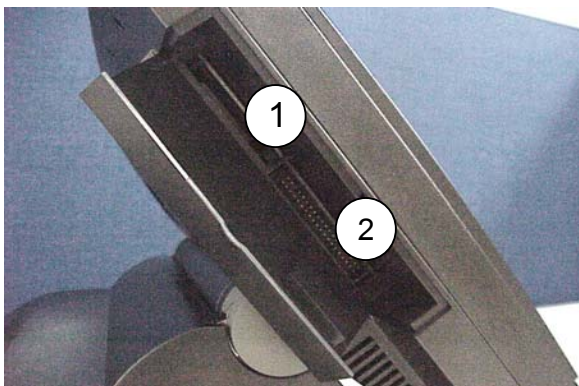
#	Function
1	Compact Flash Slot
2	External FDD Connector

3. Specification

Item	Description
Core Logic	SiS 630ST Single Chip
CPU	Supports Intel® Socket 370 CPUs Celeron® /PIII ® FC-PGA /FC-PGA2 FSB 66/100/133Mhz
Internal Cache	Built-in CPU
External Cache	Built-in CPU
System RAM	2 x 168-pin DIMM sockets, up to 1GB FSB 66/100/133MHz
BIOS	Award PnP BIOS
Video Display	Built-in Core Logic
Video RAM	SMA 2MB/4MB/8MB/16MB/32MB/64MB
IDE controller	UDMA33/66/100 One primary 40-pin 2.54 pitch & one 44-pin 2.0 pitch
I/O Controller	Built-in Core Logic SiS 630ST supports USB x 2 W83697HF x 1, supports PS2 Keyboard / PS2 Mouse x 1, COM1&2/LPT x 1 W83697HF x 1, supports COM3&4, Netmos/PCI 9835 COM5&6
Audio Controller	Built-in Core Logic supports AC97 2.1 w/CODEC
LAN controller	RTL8139C 10/100Mbps Fast Ethernet
I/O Connector Port	Audio(Line-in, Line-out, MIC), 24V2A DC output x1, RJ-45 LAN x1 USB x 4, Printer x1, COM x 4 ,pin1/pin9 w/5V/+12V selectable Cash Drawer x2 12V/24V selectable
Cash Drawer Port	Two Ports, output address 200H/input address 201H
Compact Flash	Socket supported
HDD drive	One 3.5" HDD (optional)
CD-ROM drive	One slim CD-ROM/DVD/CD-RW (optional)
FDD connector	Ext. 40-pin connector with DC power
PCMCIA/Smart Card Slot	Bundled at factory site (optional)
Internal Speaker	Built-in two speakers x 1W
LCD Panel	12.1" TFT LCD Panel, resolution 800x600 resistive touch panel view angle 0°- 60°(POS600)
	15" TFT LCD Panel, resolution 1024x768 resistive touch panel view angle 0°- 60°(POS605)
Card Reader	Options keyboard and serial interface type (3-track)
Customer Display	Options Fix type customer display supports LED/VFD/LCD type Pole display supports LED/VFD/LCD type
Second display	Optional 8.4"/10.4"/12.1" TFT LCD display
Power Supply	FT-8150 internal ATX 150W (+12V/4A, -12V/0.3A, -5V/0.2A, 5Vsb/1.5A, +5V/14A & 3.3V/10A max 100W)
Operation Temp.	5° ~ 35°
EMI/EMS	CE Class-A
	FCC(This device complies with part 15 of the FCC rules. Operation is subject to the following two condition: (1)This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.)
System Dimension	332 (W) x 344 (D) x 204-302(H) mm (POS600) 379(W) x 346.5 –362.5 (D) x 212.6 – 323.5 (H) mm (POS605)
Weight	N.W. 7.5kgs/ G.W 9kgs (POS600) N.W. 8.0kgs/ G.W 9.5kgs (POS605)

3.1 System Memory Combination

POS600/605

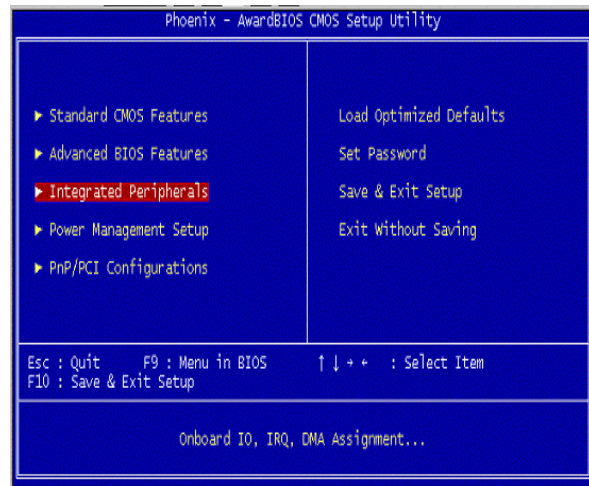| RAM Size Slot	128MB		256MB			512MB			1024MB
DIMM1	X	128	128	256	X	256	512	X	512
DIMM2	128	X	128	X	256	256	X	512	512

Please note that DIMM1 of POS600 does not support RAM over 29 mm in height.
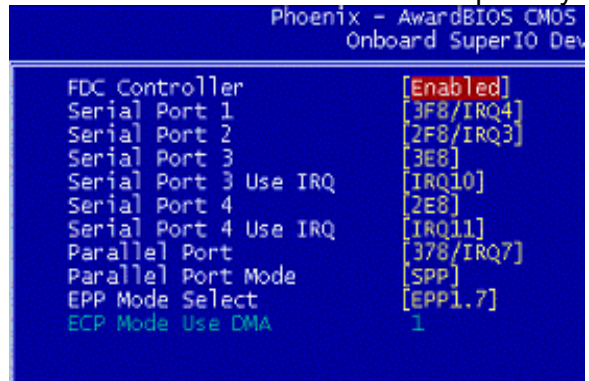
4. Install External Device

4.1 Install System FDD

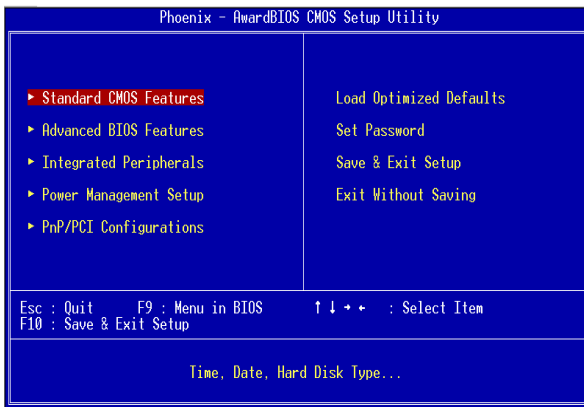a. Connect the FDD cable from 40 pin FDD connector left side of LCD module..

b. Enter "Integrated Peripherals" of the Main Menu of BIOS CMOS Setup Utility.

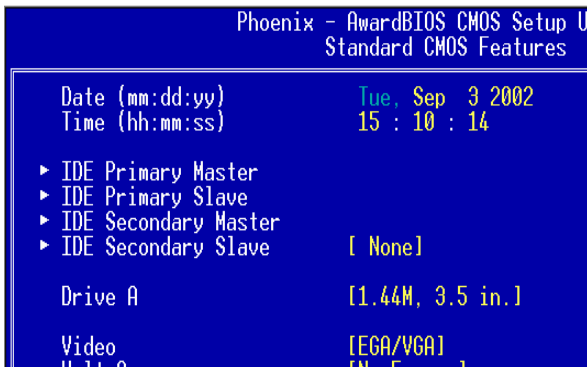c. Move the arrow key downward to the "Onboard Super IO Device" item

d. Move the arrow key downward to the "FDC Controller" item. Use "Page Up" or "Page Down" key change to "Enable"

```
              Phoenix - AwardBIOS CMOS Setup Utility

  ▶ Standard CMOS Features          Load Optimized Defaults
  ▶ Advanced BIOS Features          Set Password
  ▶ Integrated Peripherals          Save & Exit Setup
  ▶ Power Management Setup           Exit Without Saving
  ▶ PnP/PCI Configurations



  Esc : Quit       F9 : Menu in BIOS      ↑↓→←   : Select Item
  F10 : Save & Exit Setup

                 Time, Date, Hard Disk Type...
```

e. Enter "Standard CMOS Features" of the Main Menu of BIOS CMOS Setup Utility.

```
              Phoenix - AwardBIOS CMOS Setup U
                       Standard CMOS Features

   Date (mm:dd:yy)             Tue, Aug 13 2002
   Time (hh:mm:ss)             10 : 15 : 47

  ▶ IDE Primary Master
  ▶ IDE Primary Slave
  ▶ IDE Secondary Master
  ▶ IDE Secondary Slave

   Drive A                     [None]

   Video                       [EGA/VGA]
   Halt On                     [No Errors]
```
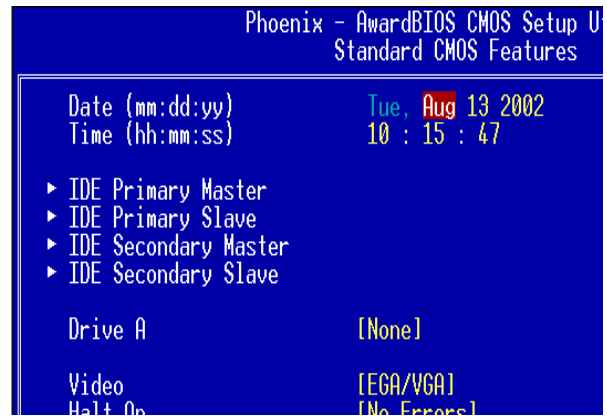
f. Move the arrow key downward to the "Drive A" item.

```
              Phoenix - AwardBIOS CMOS Setup U
                       Standard CMOS Features

   Date (mm:dd:yy)             Tue, Sep  3 2002
   Time (hh:mm:ss)             15 : 10 : 14

  ▶ IDE Primary Master
  ▶ IDE Primary Slave
  ▶ IDE Secondary Master
  ▶ IDE Secondary Slave        [ None]

   Drive A                     [1.44M, 3.5 in.]

   Video                       [EGA/VGA]
   Halt On                     [No Errors]
```

g. Use "Page Up" or "Page Down" key for FDD Installation. Make sure you save the changes by pressing F10 key or moving to "Save & Exit Setup."

4.2 Install the Magnetic Card Reader Module (optional)

The MCR unit is tested and can be supplied at your request. This MCR is removed during transportation and can be connected by the user. There are two types of MCR Module, either by the COM type or keyboard type. If the product barcode is P0700300, then the system you order is a COM type, and P0700400 stands for a keyboard type.
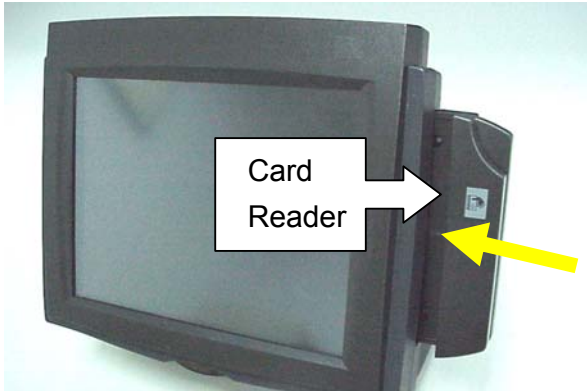
a. Push into the MCR module at the right side of System LCD Module then lock it with two screws.
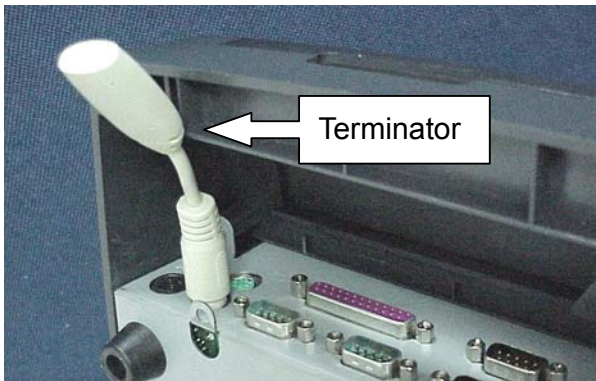
b. If you select K/B Wedge MCR, we provide a Terminator for you to insert into K/B PS2 for simulate PS2 K/B so you can use K/B Wedge MCR under NT/2K/XP OS.

4.3 Install the Card Reader with I-button

Push into the MCR module at the right side of System LCD Module then lock it with two screws.

4.4 Install Cash Drawer
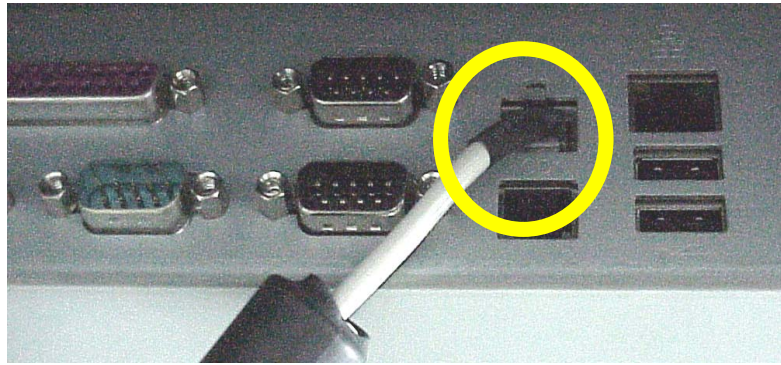
Please confirm the pin assignment before installing a cash drawer through the cash drawer port

4.4.1 Cash Drawer Pin Assignment

Pin	Signal	Pin	Signal
1	GND	7	GND
2	DOUT bit0	8	DOUT bit2
3	DIN bit0	9	DIN bit1
4	12V/24V	10	12V/24V
5	DOUT bit1	11	DOUT bit3
6	GND	12	GND

Data out address(200h)

Data in address(201h)

4.5 Install Customer Display

a. Insert the RS232 cable into any of the Com ports.

b. Insert the other end of the RS232 cable into the RJ45 connector of the Customer Display module.

c. Fasten the two screws at the right and left of the Customer Display module.

4.6 Install 2nd VGA.

For 2nd VGA installation, please refer to our "Second Display Installation Guide."

5.Driver Installation

The following procedures are for Windows 2000. Other platforms are similar.

5.1 Netmos

a. Click "COMMON" on the POS driver window.
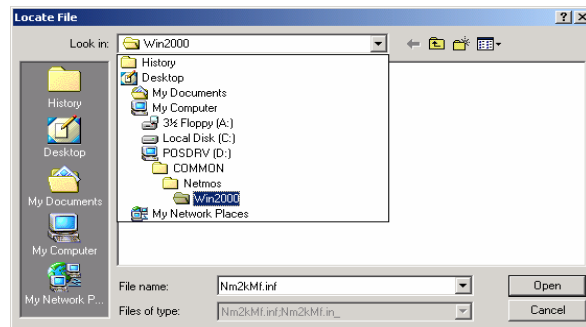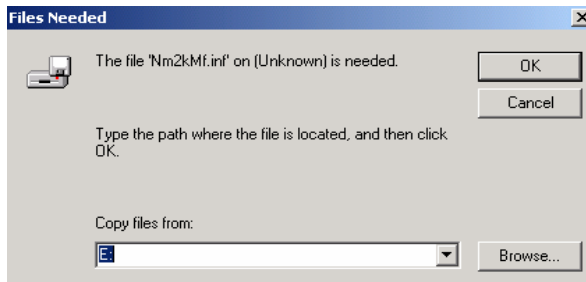
b. Click "OK" on the Files Needed window.

c. Indicate the location of the Netmos driver.
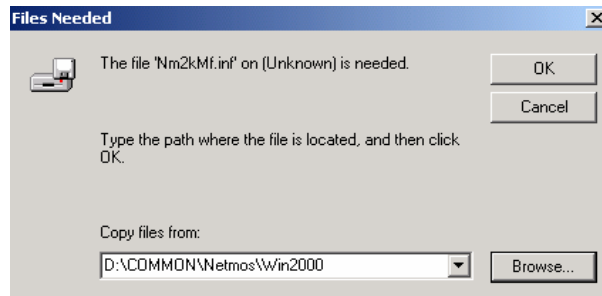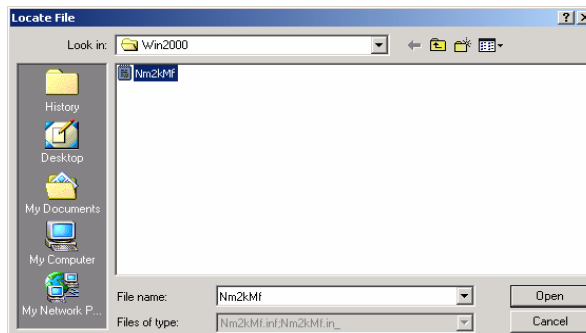
d. Choose "Nm2kMf" in the Locate File window.

e. Click "OK" on the Files Needed window.
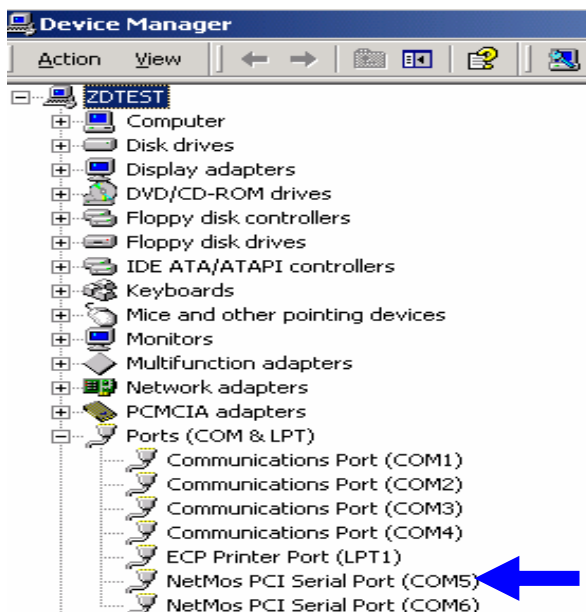
f. Now the Netmos driver is installed.
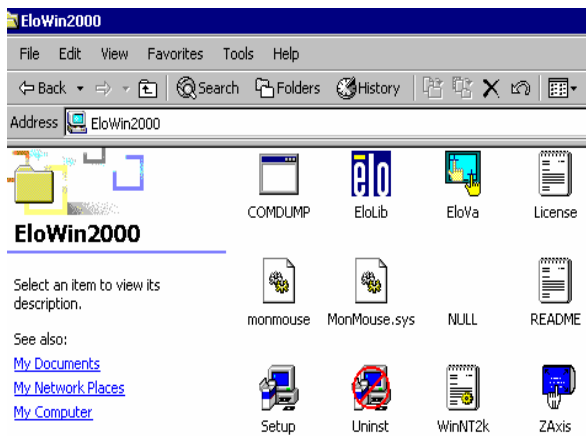
9

5.2 Elo_Touch

a. Click "COMMON" on the POS driver window.
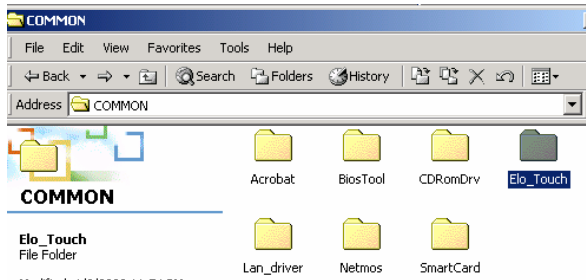
b. Click "Elo_Touch" on the COMMON window.
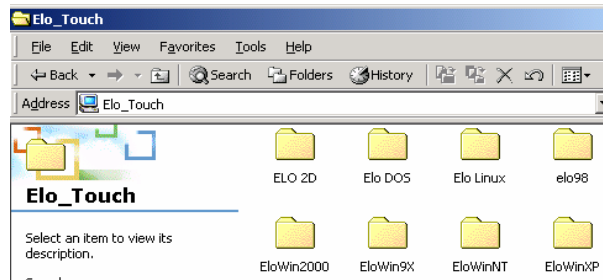
c. Choose the OS to be installed with Elo _Touch driver.

d. Click "Setup" on the EloWin2000 window.

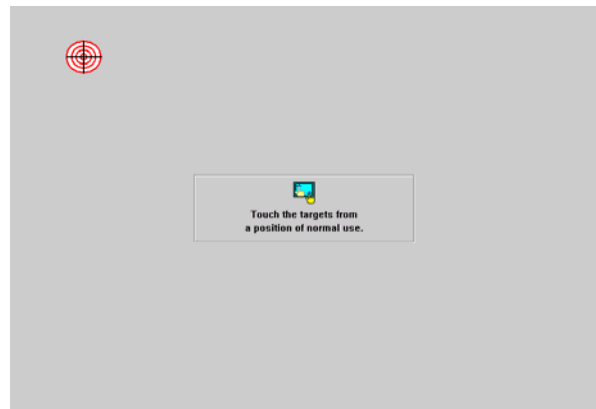e. Click "Next" on the Elo MonitorMouse for Windows 2000 Setup window.
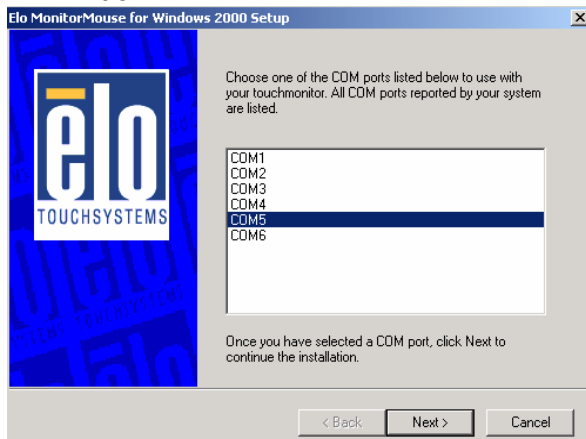
d. Choose "COM5" and click "Next" on the Elo MonitorMouse for Windows 2000 Setup window.
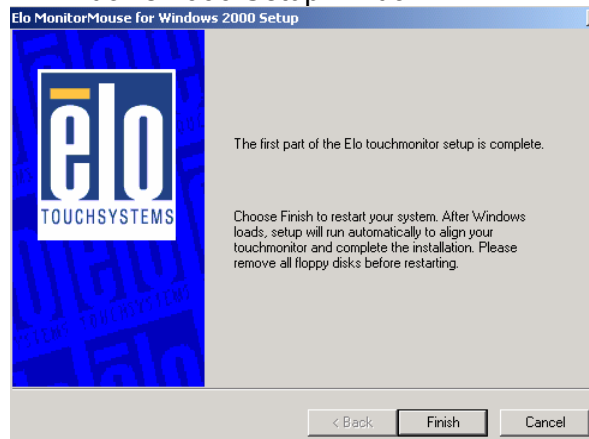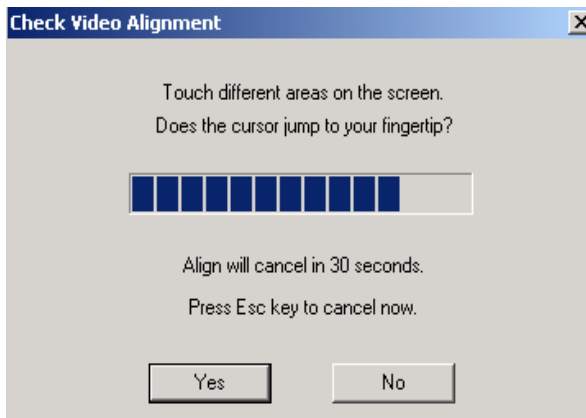

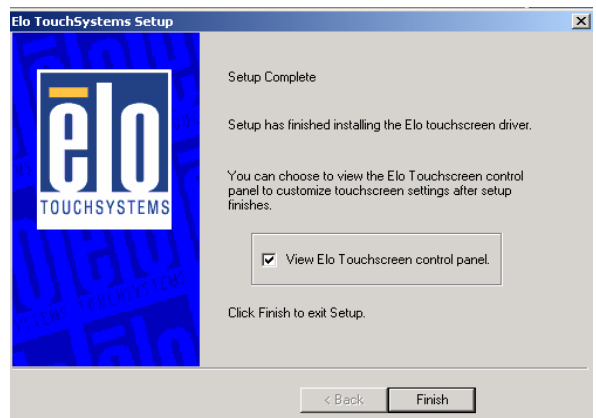e. Click "Finish" on the Elo MonitorMouse for Windows 2000 Setup window.
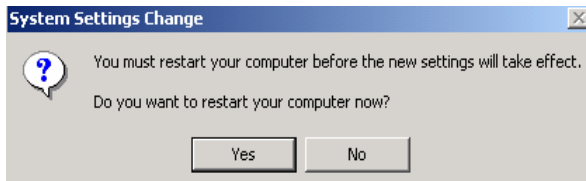
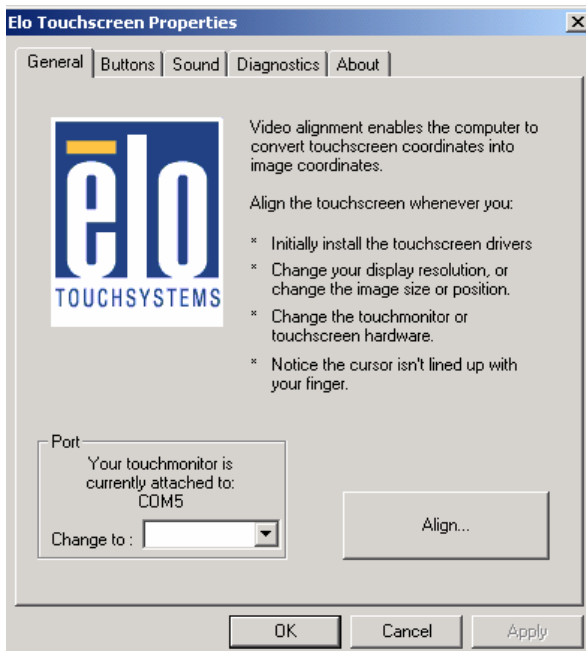f. Click "Yes" on the System Settings Change.

g. After the computer restarted, touch the targets with your finger for alignment.
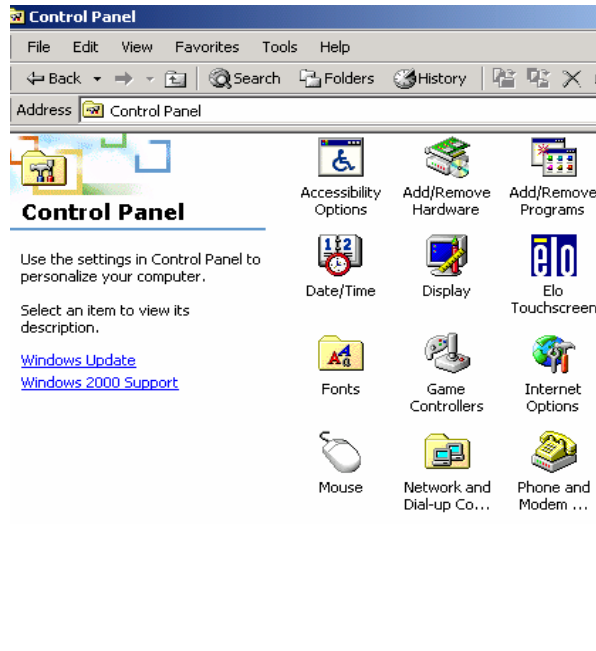

h. Click "Yes" on the Check Video Alignment window.

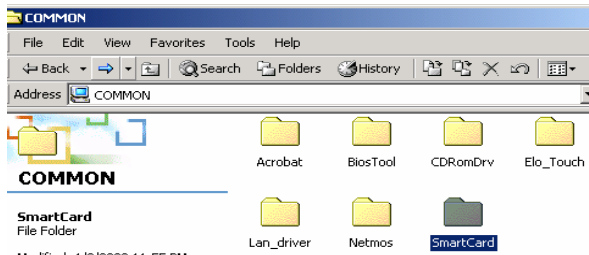i. Click "Finish" on the "Elo TouchSystem Setup window.

j. If the cursor is not in sync with your finger tip, click "Align…" to execute the alignment procedure again, or click "OK"
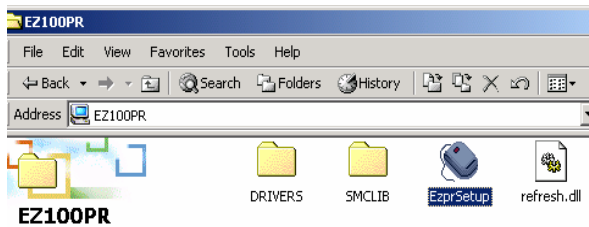
k. Now the Elo_Touch driver is installed.

5.3 Smart Card

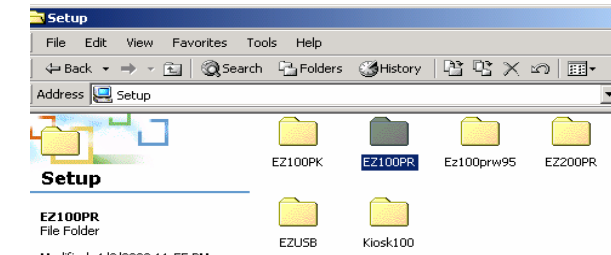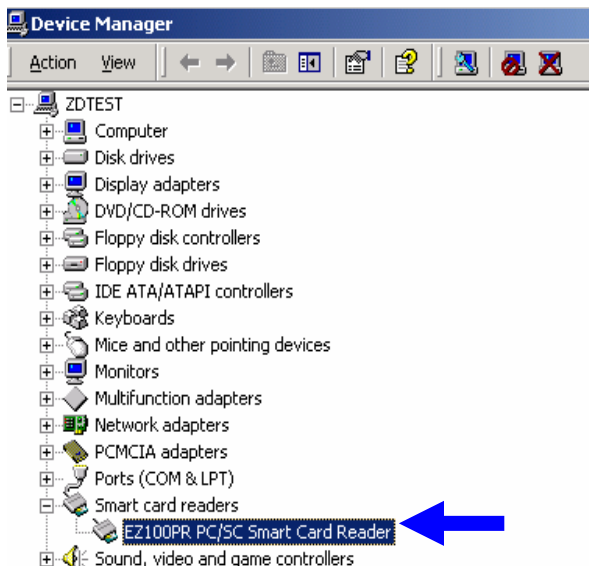a. Click "COMMON" on the POS driver window.

b. Click "SmartCard" on the COMMON window.

c. Click "EZ100PR" on the Setup window.

d. Click "EzprSetup"on the EZ100PR window.
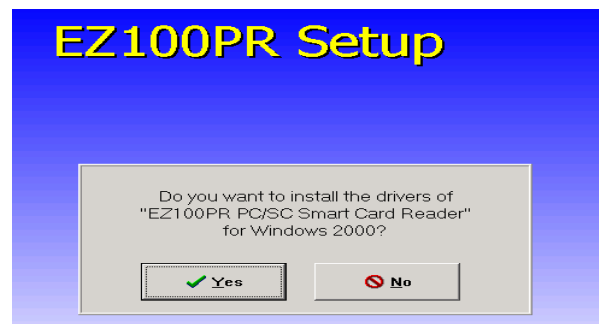
e. Click "Yes" on the EZ100 PR Setup window.

f. Click "OK" on Notice window.
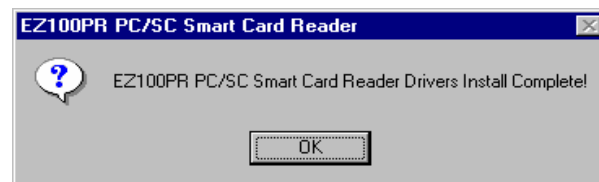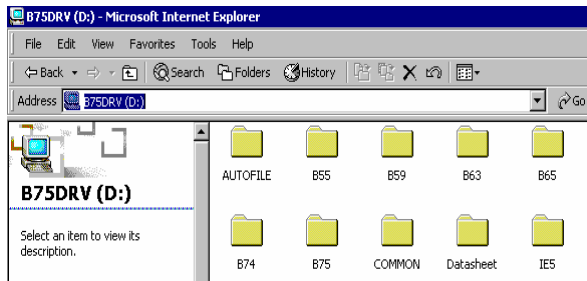

g. Click "OK" on the EZ100PR PC/SC Smart Card Reader window.

h. Now the Smart Card driver is installed.

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5.4 VGA

a. Click "B55" on the POS driver window.
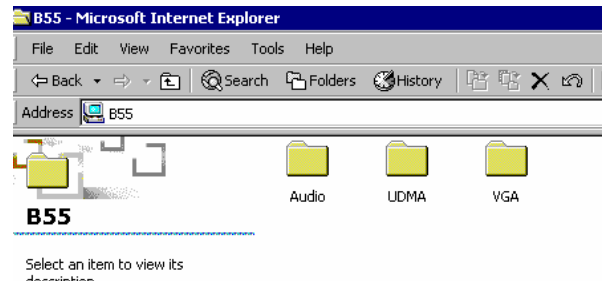
b. Click "VGA" on the B55 window.
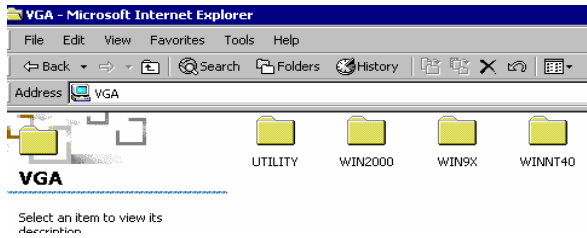
c. Click "Win2000" on the VGA window.
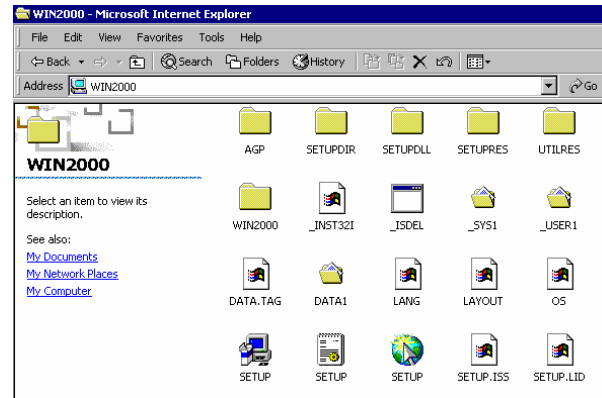
d. Click "SETUP" On the VGA2000 window.

e. Click "Next" on the Welcome window.
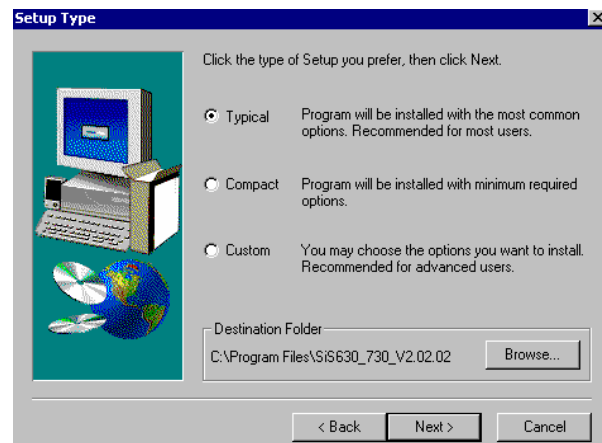
f. Click "Next" on the Setup Type window.

13
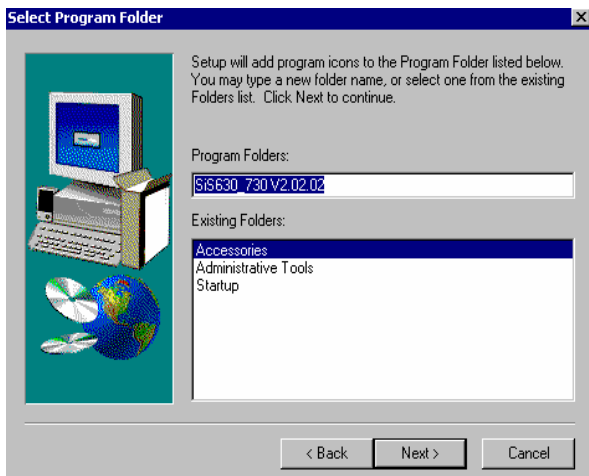
g. Click "Next" on the Select Program Folder window..
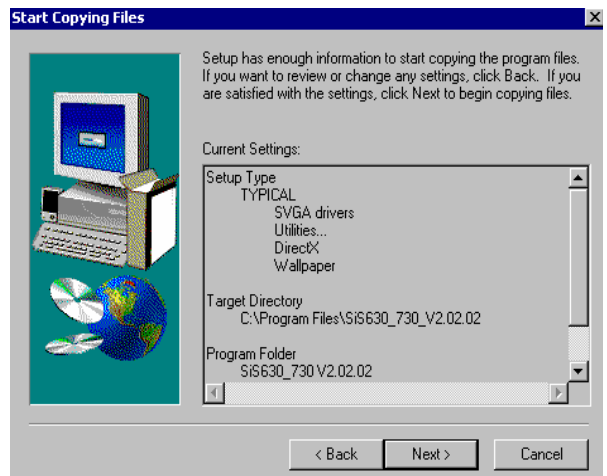
h. Click "Next" on the Select Copying Files window.
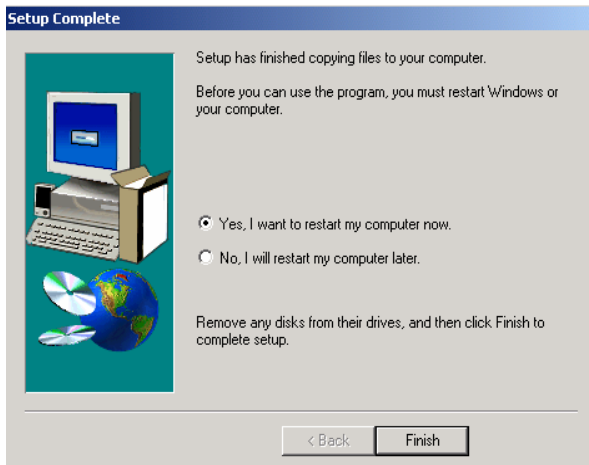
i. Click "Finish" on the Setup Complete window.
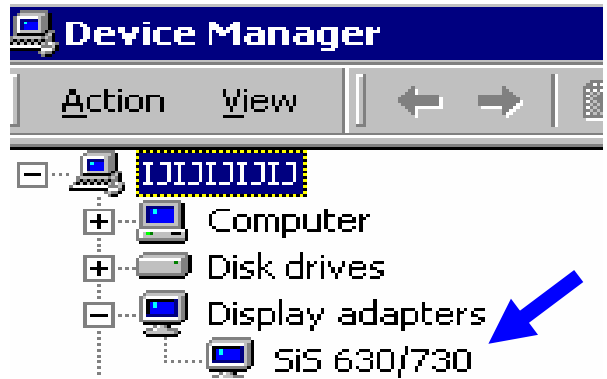
j. Now the VGA driver is installed.

6. Jumper Setting

6.1 Location of Main Board
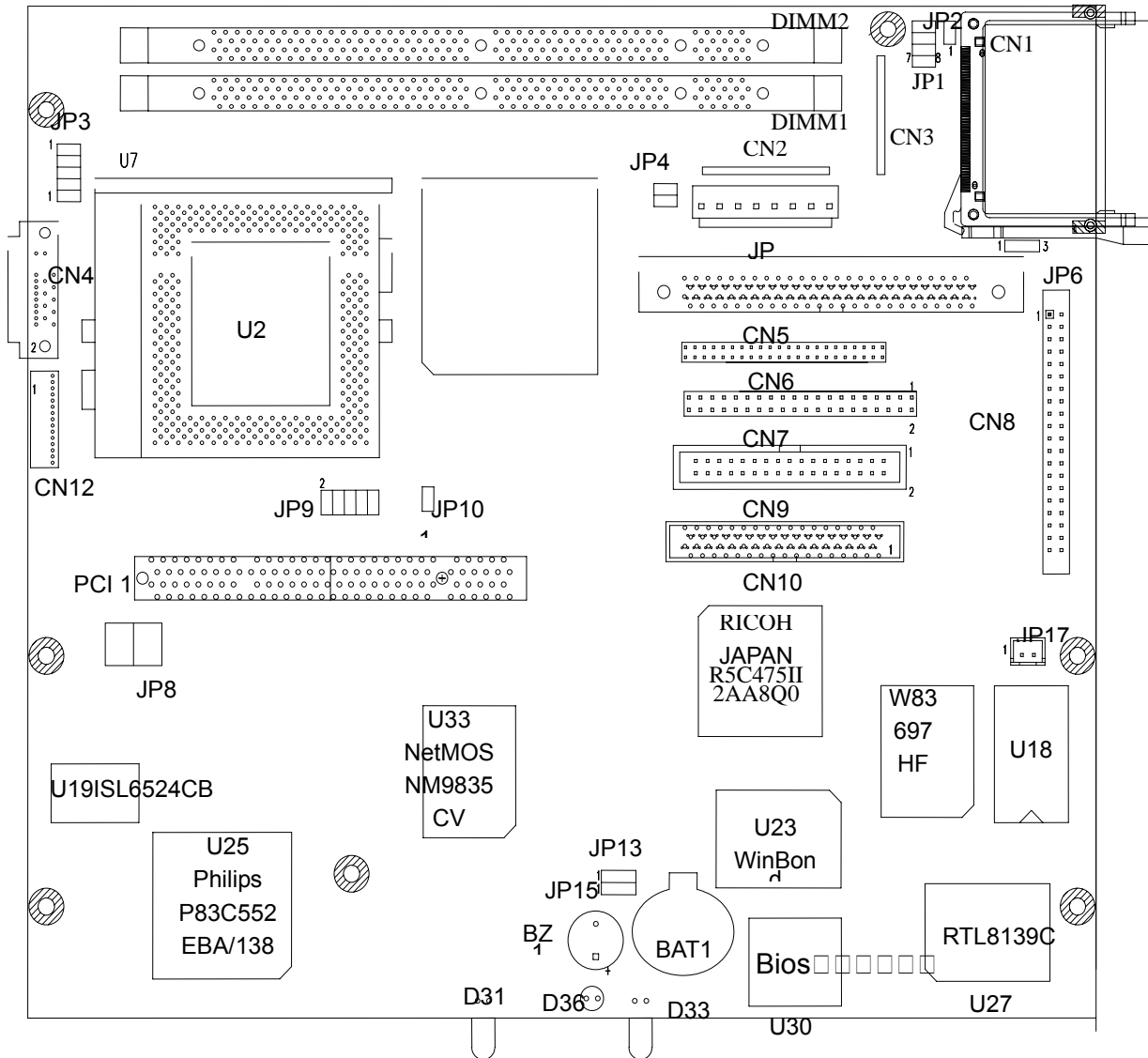
6.1.1 Compact Flash IDE Selection   *Factory Default Setting

Function	JP2
Master	*ON
Slave	OFF

6.1.2 CMOS Operation Mode

Function	JP13	JP15
CMOS Normal	*1-2	*1-2
CMOS Clear	2-3	2-3

6.1.3 Power Supply Type

Function	JP6	Function	JP6
ATX Power	*2-3	AT Power	1-2

6.1.4 CPU Frequency Ratio Selection   JP1

Ratio	1-2	3-4	5-6	7-8
Na	ON	OFF	ON	ON
1.5	ON	ON	ON	OFF
2	OFF	OFF	OFF	OFF
2.5	OFF	ON	OFF	OFF
3	OFF	OFF	OFF	ON
3.5	OFF	ON	OFF	ON
4	OFF	OFF	ON	OFF
4.5	OFF	ON	ON	OFF
5	OFF	OFF	ON	ON
5.5	OFF	ON	ON	ON
6	ON	OFF	OFF	OFF
6.5	ON	ON	OFF	OFF
7	ON	OFF	OFF	ON
7.5	ON	ON	OFF	ON
8	ON	OFF	ON	OFF

6.1.5 CPU-FSB/RAM/PCI Frequency Selection (MHz): JP3

| CPU-FSB	SDRAM	PCI	1-2	3-4	5-6	7-8
66.6	66.6	33.3	OFF	OFF	OFF	OFF
66.6	100	33.3	OFF	OFF	ON	OFF
66.6	133	33.3	OFF	OFF	ON	ON
100	66.6	33.3	ON	OFF	ON	OFF
100	100	33.3	ON	OFF	OFF	OFF
100	133	33.3	OFF	ON	ON	OFF
100	150	30	ON	OFF	ON	ON
112	112	33.6	OFF	OFF	OFF	ON
124	124	31	ON	OFF	OFF	ON
133	100	33.3	ON	ON	ON	OFF
133	133	33.3	ON	ON	OFF	OFF
138	138	34.5	OFF	ON	OFF	ON
150	100	30	OFF	ON	ON	ON
150	150	30	ON	ON	OFF	ON
160	120	30	ON	ON	ON	ON
166	166	33.3	OFF	ON	OFF	OFF

6.2 I/O Connector Jumper Setting

The COM port and Cash Drawer jumpers are located on the bottom of the base unit. Remove the screw of jumper cover to access jumpers.
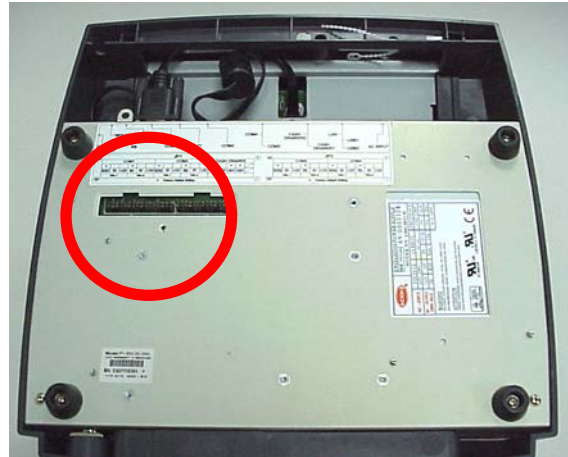
6.2.1 Location of I/O Connector Board
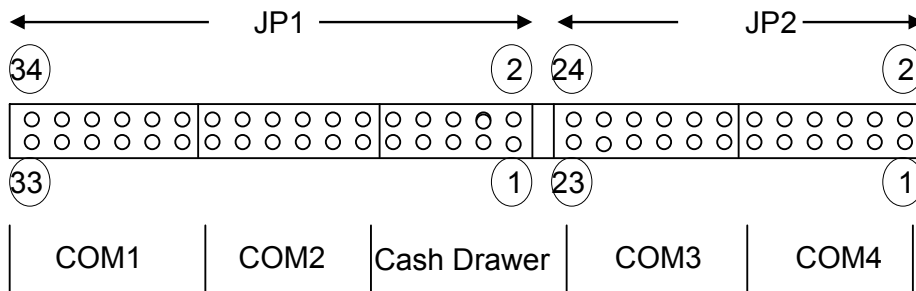
6.2.2 COM1/COM2 /Cash Drawer DC Power Jumper Setting   JP1

COM1						COM2						Cash Drawer				
33-34	31-32	29-30	27-28	25-26	23-24	21-22	19-20	17-18	15-16	13-14	11-12	9-10	7-8	5-6	3-4	1-2
DCD1 ●	5V	+12V	RI-1 ●	5V	+12V	DCD2 ●	5V	+12V	RI-2 ●	5V	+12V	+12V	+12V	+24V ●	+24V ●	
PIN1			PIN9			PIN1			PIN9							

● Factory Default Setting

6.2.3 COM3/COM4 DC Power Jumper Setting   JP2

COM3						COM4					
23-24	21-22	19-20	17-18	15-16	13-14	11-12	9-10	7-8	5-6	3-4	1-2
DCD3 ●	5V	+12V	RI-3 ●	5V	+12V	DCD4 ●	5V	+12V	RI-4 ●	5V	+12V
PIN1			PIN9			PIN1			PIN9		

● Factory Default Setting

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions carefully.   Save these instructions for future reference.

2. Follow all warnings and instructions marked on the product.

3. Do not use this product near water.

4. Do not place this product on an unstable cart, stand, or table.   The product may fall, causing serious damage to the product.

5. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.   The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.   This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.

6. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.

7. Do not allow anything to rest on the power cord.   Do not locate this product where persons will walk on the cord.

8. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.   Never spill liquid of any kind on the product.

Caution on Lithium Batteries

Danger of explosion if battery is incorrectly replaced.   Replace only with the same or

equivalent type recommended by the manufacturer.   Discard used batteries according

to the manufacturer's instructions.

CD-ROM Safety Warning
DANGER

INVISIBLE RADIATION WHEN OPEN.

AVOID EXPOSURE TO BEAM.