



E-Touch Integrated

User Manual

TABLE OF CONTENTS

Introduction	-	2
Table of Contents	-	3
Location	-	4
Do's & Don'ts	-	5
Accessories	-	6
Input /Output Function	-	7
Specifications	-	8
Peripherals Installation	-	9
Driver Installation	-	18
Jumper Settings	-	25



LOCATIONS

Corporate Head Quarters

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South East Asia	E-PoS International Nasik-Pune Road Ayodhya Nagri Nasik, Maharashtra India	Tel: +91-253-2411806 Fax: +91-252-2415295 Email: pradeepw@sancharnet.in
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DO'S & DON'TS

(Integrated circuits on All E-PoS System boards are sensitive to static electricity. To avoid damaging any Components on the computer board, before getting started, read these following precautions and other instructions and save them for later reference).

- i. Do not remove the computer from the anti-static Packaging until you are ready for installation.
- ii. Make sure the voltage of the power source is correct before connecting the computer to the power outlet, (110~220 volts).
- iii. Connect Rubber Legs provided to avoid damaging Cabinet Cover and Door, (where provided).
- iv. Do not change any Hardware Devices online when System or the device is on and running, because the sudden surge of power may ruin any sensitive components. Also make sure the computer is properly grounded.
- v. Turn off the computer before cleaning. Always clean with a damp or dry cloth only. Do not spray any liquid cleaner on screen directly.
- vi. The power outlet socket used to plug in the computer power cord must be located near the system and easily accessible. Do not use outlets on the same circuit of the system that regularly switch on and off.
- vii. If the computer is sharing an extension cord with other devices, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating.
- viii. Do not expose the power cord, extension cord and power outlet to moisture.
- ix. The openings on the computer enclosure are for the cabin ventilation to prevent the computer from overheating. DO NOT COVER THE OPENINGS.
- x. Do not connect any devices to Powered COM Ports (5V/12V), other then the devices that take power from Powered COM Ports to avoid damaging the Device.
- xi. Any Hardware upgrades or changes to be made are to be informed, and do not tamper with Serial Nos. and Warranty Seals, to avoid Warranty Void.
- xii. If the computer is not equipped with an operating system. An operating system must be loaded first before installing any software into the computer.
- xiii. If the computer is equipped with a touch panel, avoid using sharp objects to operate the touch panel. Scratches on the touch panel may cause mal-calibration or non-function to the panel.
- xiv. The LCD panel display is not subject to shock or vibration. When assembling the computer, make sure it is securely installed.
- xv. Choose an Ideal dust free location and reliable surface for the System with proper ventilations.

ACCESSORIES

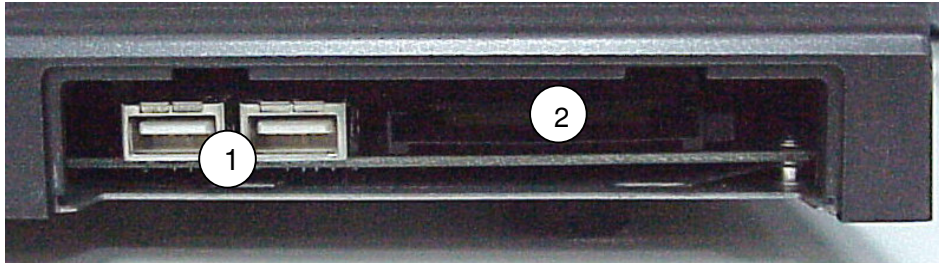
1. Warranty Card.
2. Power Cable.
3. Driver Bank CD.
4. External Floppy Disk Cable.
5. External IDE Cable.
6. Keys.

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

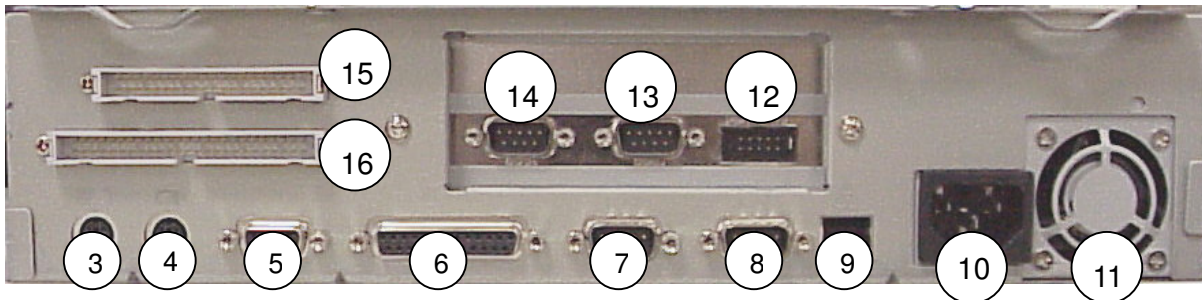
Folder	Driver	Function
Common	Acrobat	Acrobat Reader Installation
	BIOS Tool	BIOS Update Tool
	CD ROM Drv	CDROM Driver Installation (for DOS)
	Elo Touch	Touch Screen Driver Installation
	LAN drive	LAN Driver Installation
	Netmos	Net mos Driver Installation
	Smart Card	Smart Card Driver Installation
B63	VGA	VGA Driver Installation
Test Utility	Card Reader	Card Reader Test Program
	Cash Drawer	Cash Drawer Test Program
	VFD	Customer Display Test Program

INPUT / OUTPUT FUNCTIONS

2.1 Front View



2.2 Rear View



#	Function	#	Function	#	Function	#	Function
1	USB 1 & 2	5	VGA	9	LAN	13	COM3
2	Compact Flash	6	Printer	10	AC Power	14	COM4
3	Keyboard	7	COM2	11	Power Fan	15	External FDD
4	Mouse	8	COM1	12	DIO	16	External CD-ROM

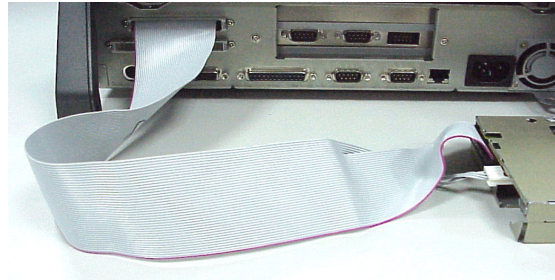
SPECIFICATIONS

Item	Description
M/B	B63
CPU	Intel PPGA / FC-PGA Processor
Co-processor	Built-in CPU
Internal Cache	Built-in CPU
External Cache	Built-in CPU
System RAM	2 x 168pin DIMM sockets, support 16 / 32 / 64 / 128 / 256 MB
BIOS	AWARD PnP BIOS
Core Logic	Intel FW82443ZX / BX
Video Display	S3 Trio 3D AGP
Video RAM	4MB SGRAM
Video Display port	One 15-pin D-SUB female VGA monitor connector
HDD Controller	Support two 40-pin 2.54 pitch IDE pin-header
FDD Controller	SMSC37C602 support one 34-pin 2.54mm pitch pin-header
I/O Port	9-pin D-SUB COM port x 4 10-pin DIO port x 1 25-pin D-SUB Parallel Port (SPP/EPP/ECP) x 1
Keyboard & Mouse	PS2 Keyboard x 1 , PS2 mouse x 1
LAN	Optional LAN Rising Card
USB	USB x 2
ROM disk	Disk On Chip Socket supported
Compact Flash	Compact Flash Socket Supported
Expansion Slot on board	Manufacturer Bus Slot for system expansion slot used
Main board Dimension	29cm(W) x 21cm(D)
System Dimension	36cm(W) x 33.5cm(D) x 36 cm(H)
POS400 Weight (Net)	7.5 Kgs. (16.5 Lbs.)
LCD panel	12.1-inches, color TFT type, 800 x 600
Back light life	25,000 hours until brightness is reduced to half
Touch panel	Resistor film type
VFD Module	
Data transmission	Serial
Synchronization	Asynchronous
Handshaking	DTR / DSR
Signal level	Mark = -3 to -15 V (logic "1"), Space = +3 to +15 V (logic "0")
Baud rates	4800, 9600, 19200, 38400 bps
Parity	None, even
Bit length	8 bits
Stop bits	1 or more

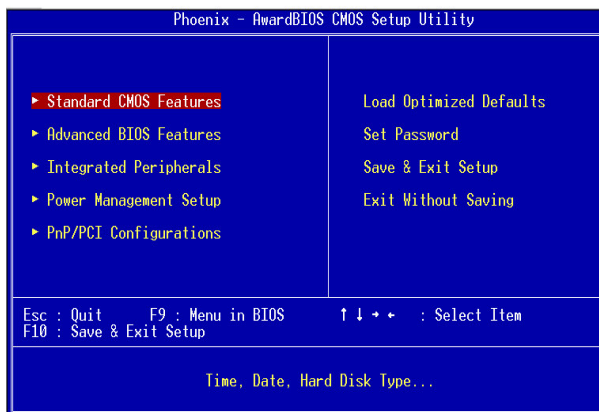
PERIPHERALS INSTALLATION

4.1 Install External FDD

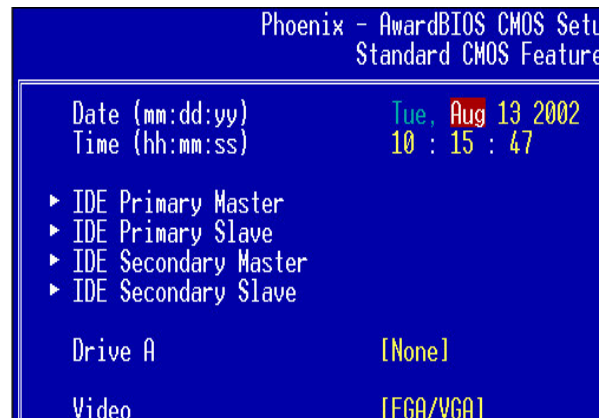
Use the floppy cable from the accessory bag to connect the floppy disk drive to the system bay module.



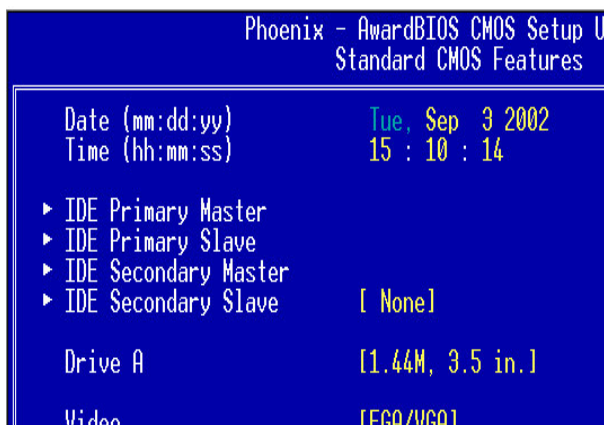
4.1.1 Enable FDD BIOS Setup



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



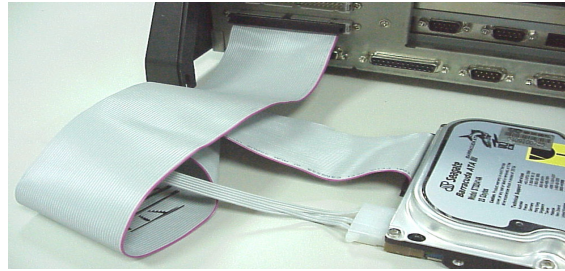
b. Move the arrow key downward to the "Drive A" item.



c. 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 External IDE Device

Connect the IDE cable from either the second HDD or CD-ROM drive to the 50 pin Header hidden in the Front Cover of the Base Stand.

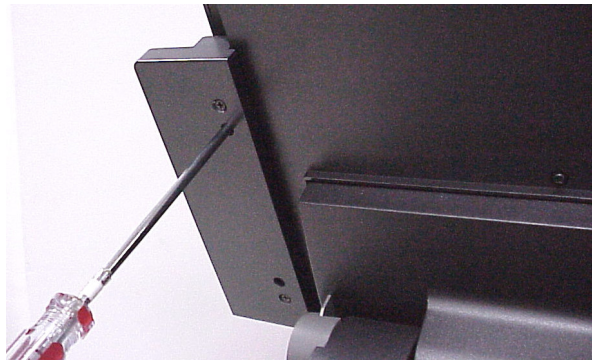


4.3 Install MCR Module (optional)

The optional MCR is removed during transportation and can be connected by the user. The manufacturer offers two types of MCR Module: Serial type or keyboard type. If the product barcode is P0700300, the POS system you order is a Serial type, P0700400 stands for a keyboard type. If you order POS system with no MCR, the jumper setting will be set for a serial type. A keyboard type MCR must be mounted onto the POS system if jumpers are set for keyboard type MCR, otherwise the keyboard device will malfunction.



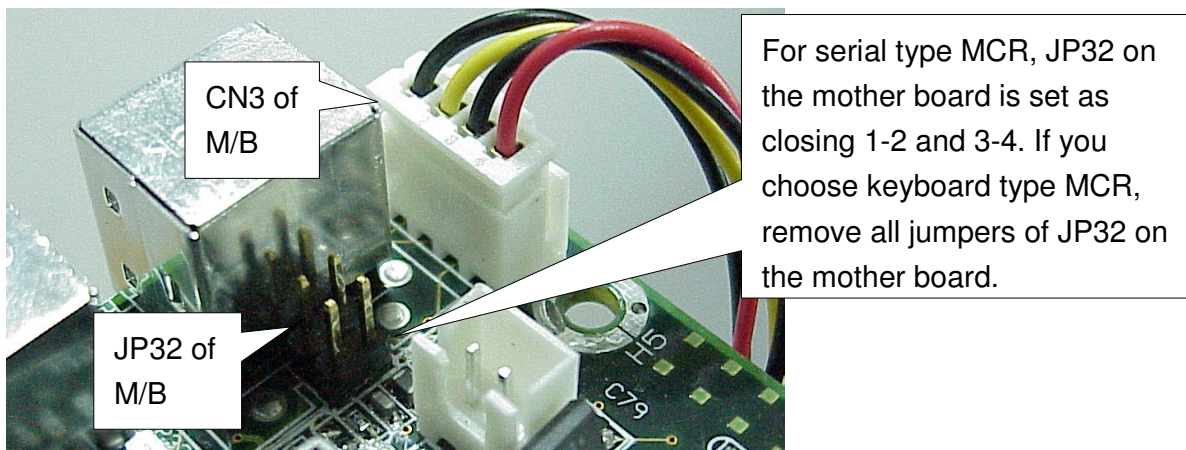
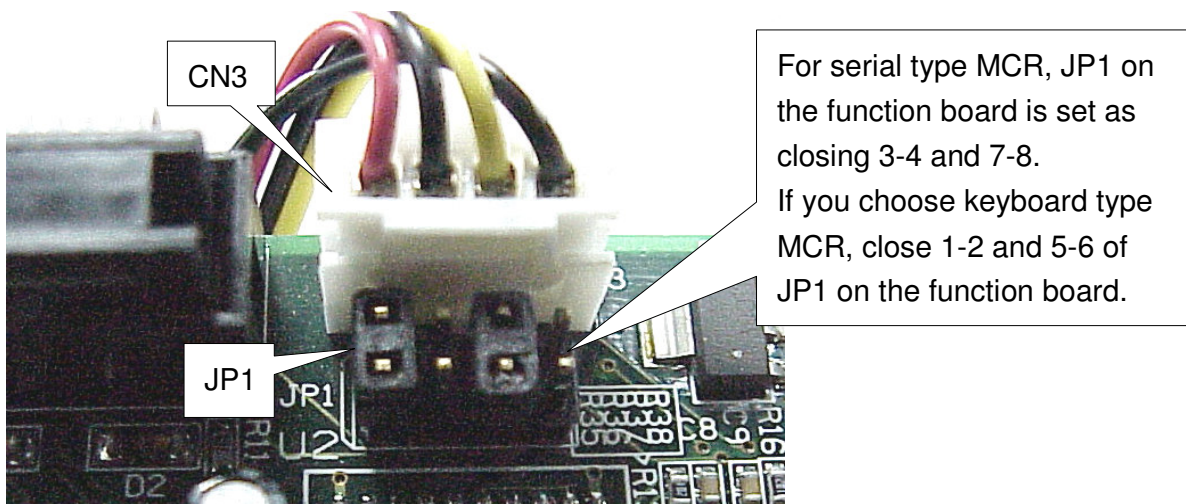
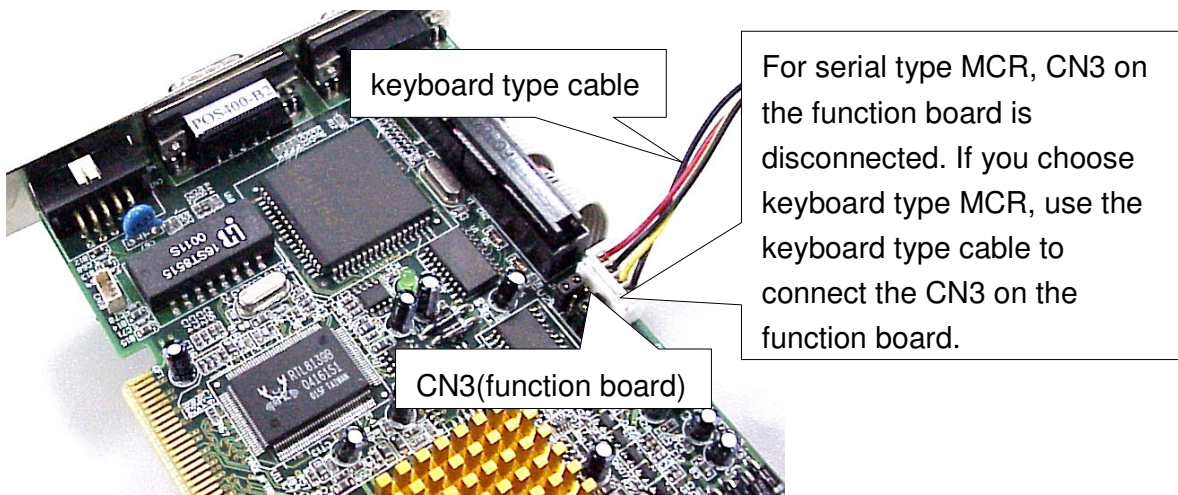
Install the MCR module to the right side of System Bay Module



And lock it with two screws.

4.3.1 Change Serial Type MCR to Keyboard Type MCR.

Our factory default for MCR is set as serial type. If you want to change your MCR to keyboard type, please see the instructions below.



4.4 Install a Compact Flash Card

You can install a CF card into the Compact Flash slot.



4.5 Install Cash Drawer(optional)



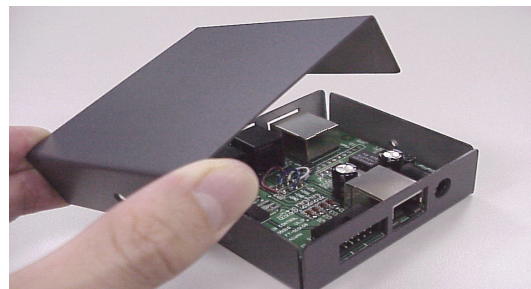
a. We provide a Cash Drawer Control Box for Cash Drawer installation.



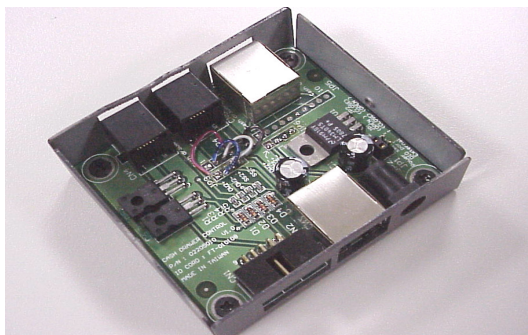
b. Loosen a screw at one side of the Box...



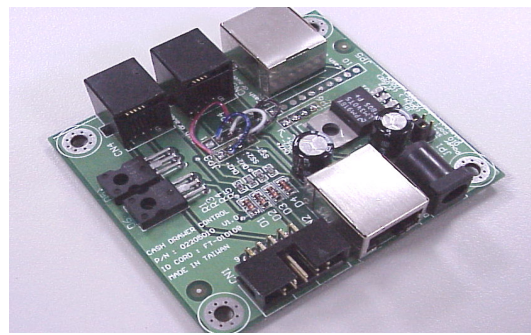
c. ...and the other one at the opposite side of the Box...



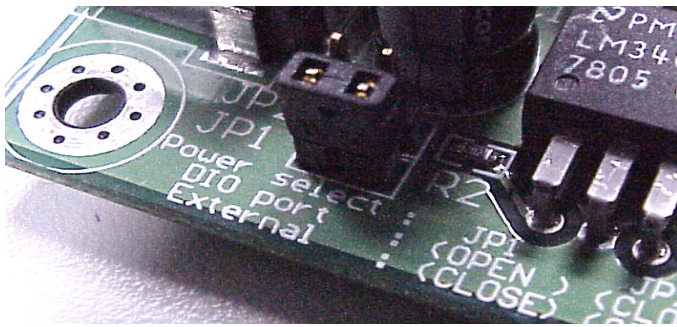
d. ...to remove the upper metal cover of the box.



e. Loosen the four screws at the four corners of the Cash Drawer Control Board...



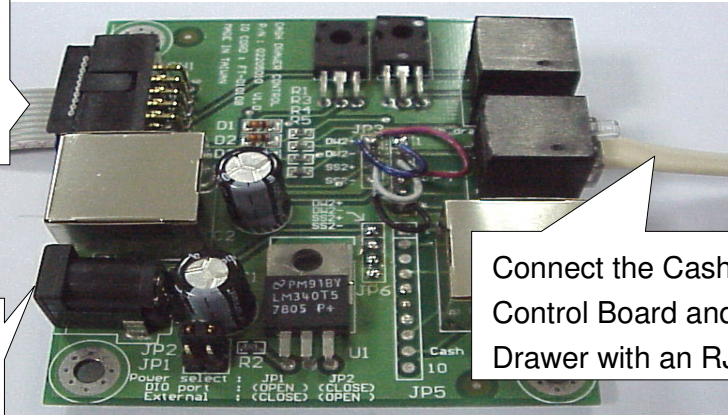
f. ...to release it from the bottom of the Box. Now you can start setting the jumpers.



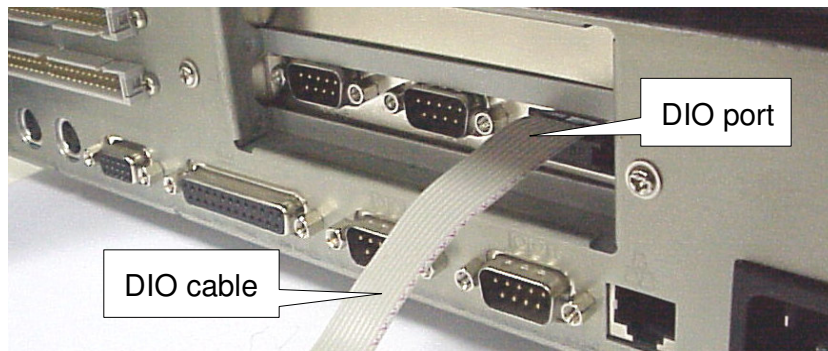
g. Our factory default for Cash Drawer power source is set to close JP2(through the DIO cable), but if you want to acquire power from an external source, close JP1 as the picture shows. Now you can start connecting the Cash Drawer with the POS system.

Connect the Cash Drawer Control Board and the POS system with a DIO cable.

For external power input, connect the DC jack with the DC slot.



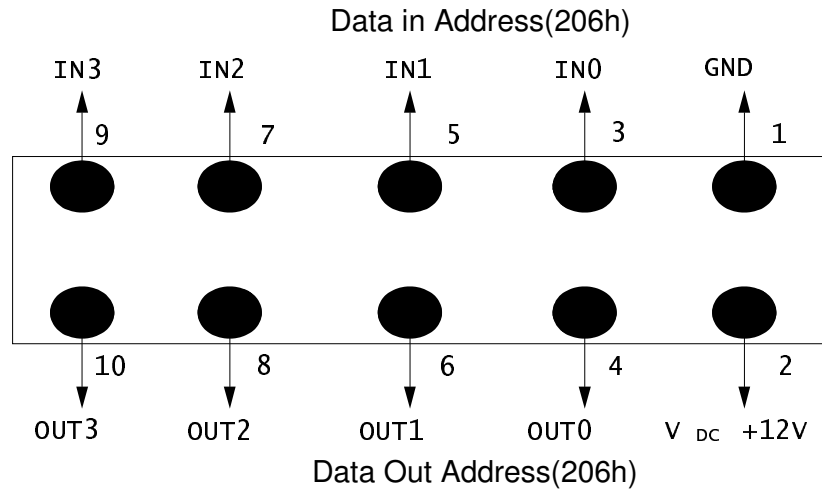
Connect the Cash Drawer Control Board and the Cash Drawer with an RJ-11 cable.



DIO port

DIO cable

4.5.1 DIO port Pin Assignment



4.5.2 Digital Output Programming

The output is TTL Level. The output signal must be TTL compatible.

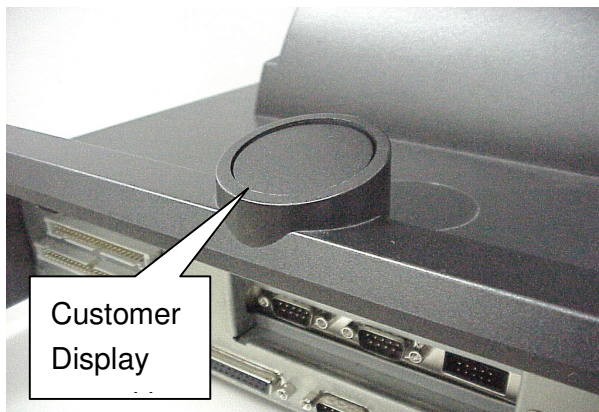
Output	Address	Bit
Out 0	206	0(customer define)
Out 1	206	1(default)
Out 2	206	2(customer define)
Out 3	206	3(customer define)

4.5.3 Digital Input Programming

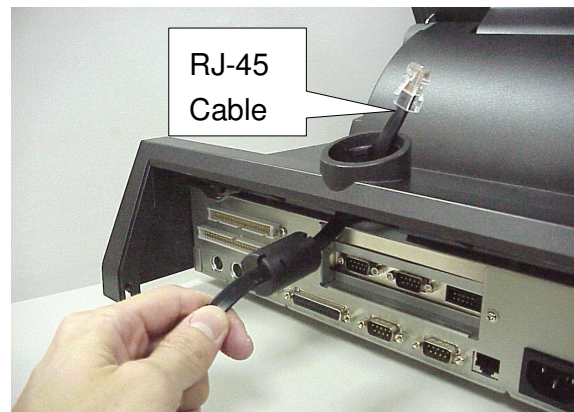
The input signal must be TTL compatible.

Input	Address	Bit
IN 0	206	0
IN 1	206	1
IN 2	206	2
IN 3	206	3

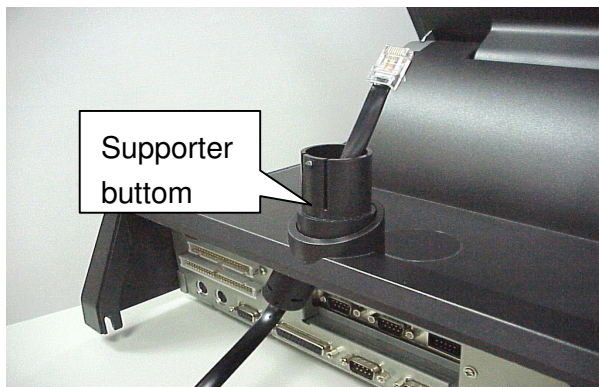
4.6 Install Customer Display Module (optional)



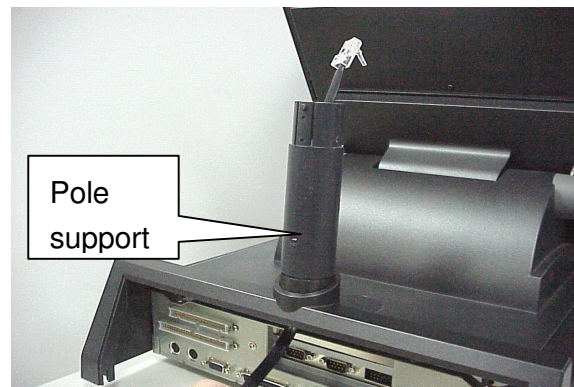
a. Remove the Customer Display cover kit from the system base.



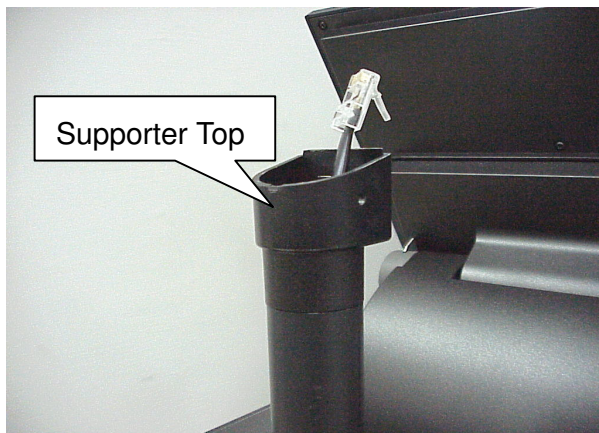
b. Make the RJ-45 cable go through the system base.



c. Install the supporter bottom onto the cover kit.



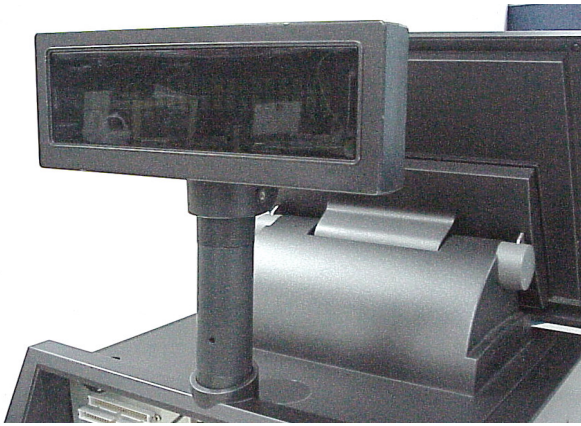
d. Install the pole supporter onto the supporter bottom.



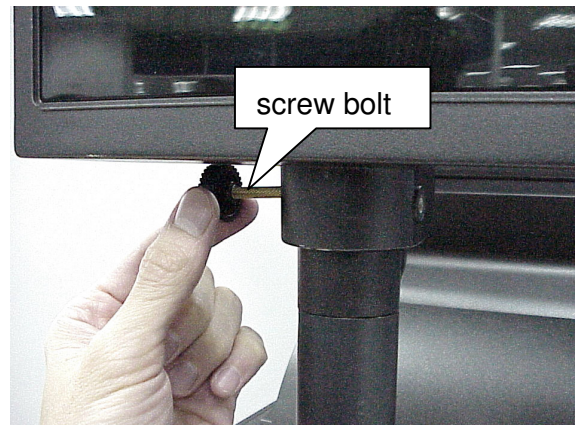
e. Install the supporter top onto the pole supporter.



f. Connect the RJ-45 cable with the Customer Display module .



g. Now the Customer Display is in an erect position.



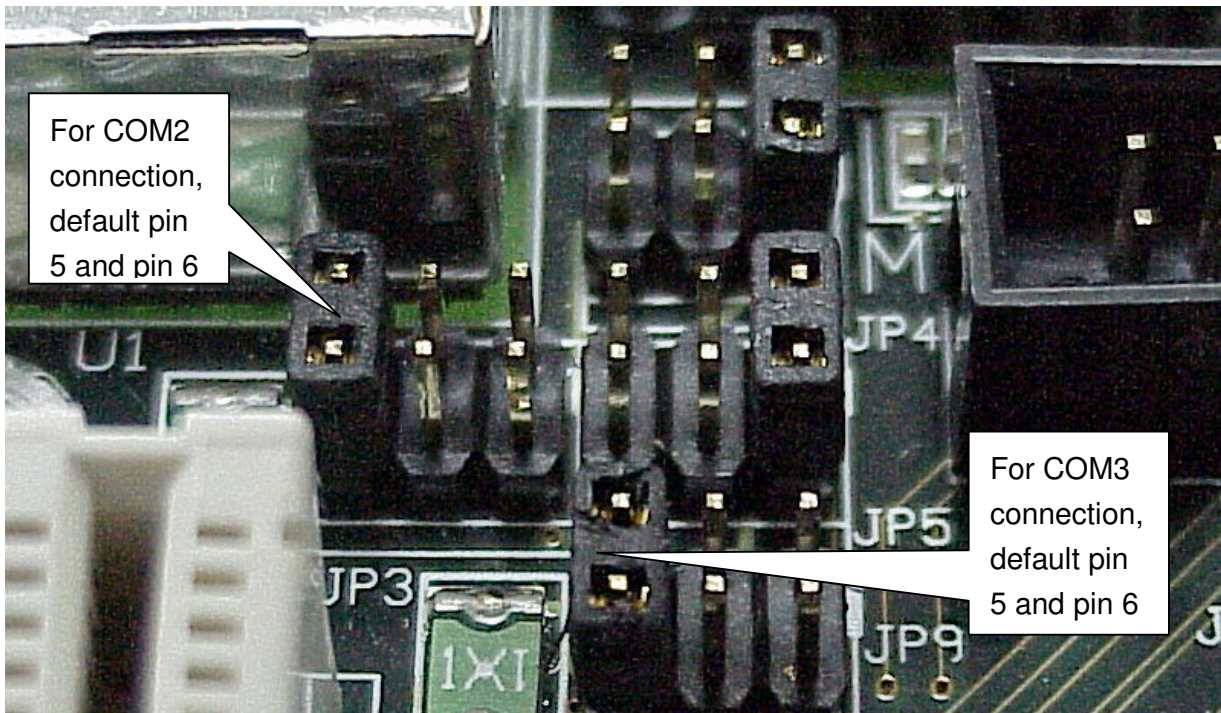
h. Insert the screw bolt into the supporter top.



i. Fasten the nut of screw bolt.



j. Connect the RJ-45 cable to COM2 (default).



k. If you would like to connect the Customer Display to other COM ports, please refer to the chapter of Jumper Setting in this Installation Guide.

4.6.1 Customer Display DIP Switch Setting

SW1	SW2	SW3	Command type
ON	ON	ON	DSP800
OFF	ON	ON	ESC/pos
ON	OFF	ON	ADM 787
OFF	OFF	ON	WD202
ON	ON	OFF	EMAX
OFF	ON	OFF	UTC/P
ON	OFF	OFF	UTC/S
OFF	OFF	OFF	CD5220

4.6.2 Baud rate selection

SW8	SW9	Baud rate (bps)
ON	ON	4800
OFF	ON	9600
ON	OFF	19200
OFF	OFF	38400

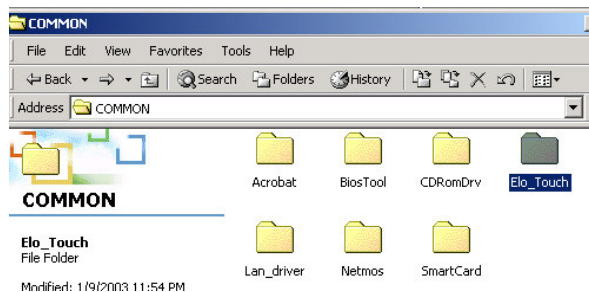
SW10	Parity check
ON	None-parity
OFF	Even-parity

DRIVER INSTALLATION

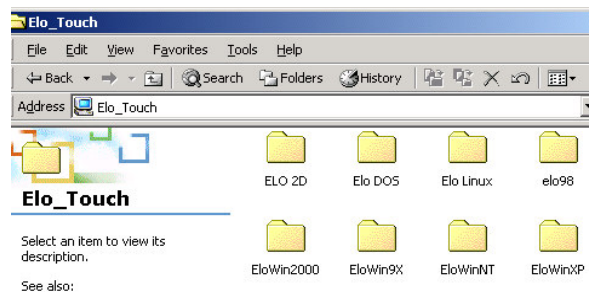
The following procedures are for Windows 98. Other platforms are similar.

5.1 Elo_Touch

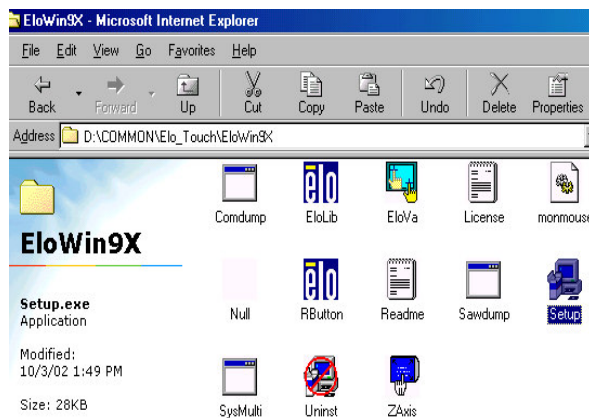
a. Click "COMMON" on the POS driver window.



b. Click "Elo_Touch" on the COMMON window.



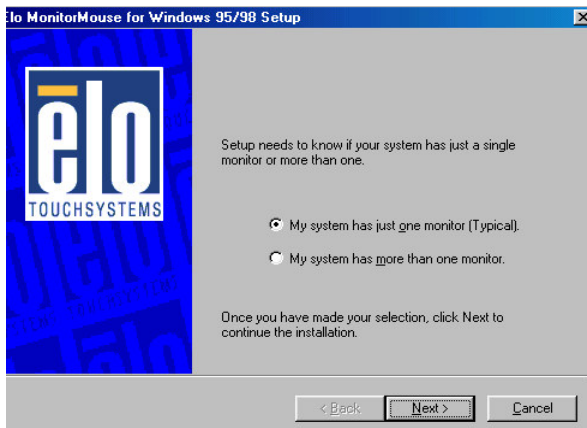
c. Choose the OS to be installed with Elo_Touch driver.



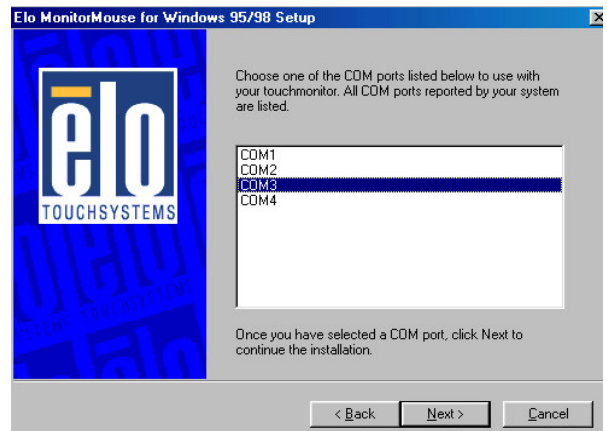
d. Click "Setup" on the EloWin9X window.



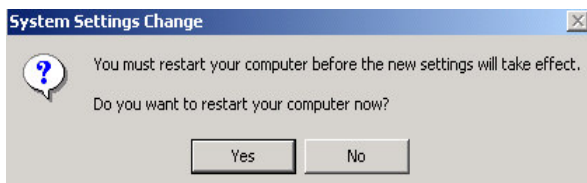
e. Click "Next" on the Elo MonitorMouse for Windows 95/98 Setup window.



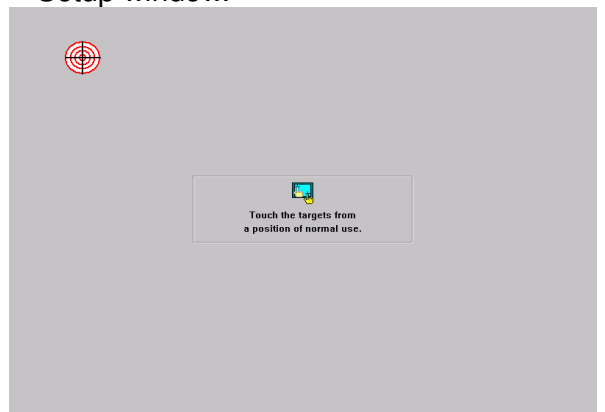
f. Click “Next” on the Elo MonitorMouse for Windows 95/98 Setup window.



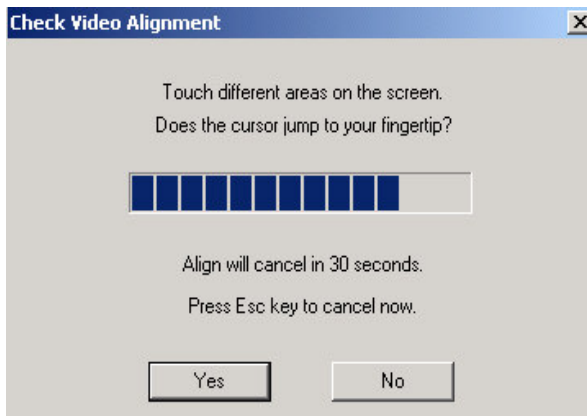
g. Choose “COM3” and click “Next” on the Elo MonitorMouse for Windows 95/98 Setup window.



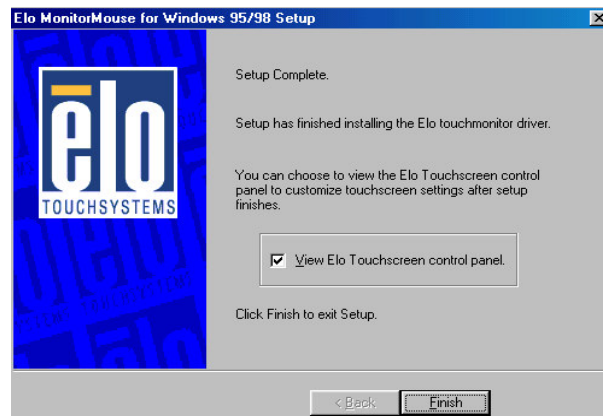
h. Click “Yes” on the System Settings Change.



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



j. Click “Yes” on the Check Video Alignment window.



k. Click “Finish” on the “Elo Monitor Mouse for Windows 95/98 Setup window.

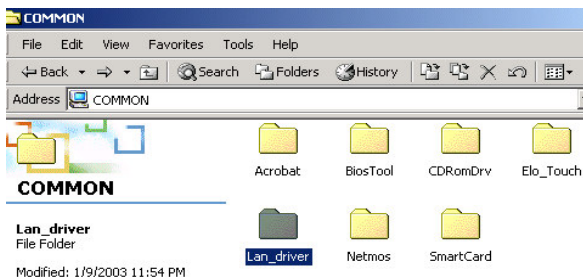


m. Now the Elo_Touch driver is installed.

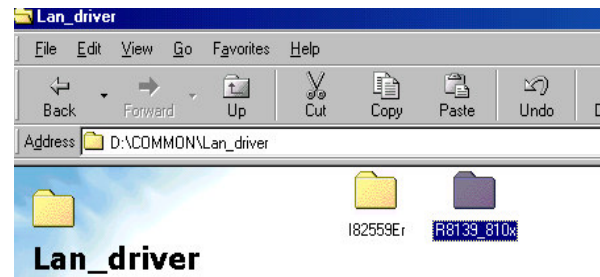
- i. If the cursor is not lined up with your finger, click "Align..." to execute the alignment procedure again, or click "OK"

5.2 LAN

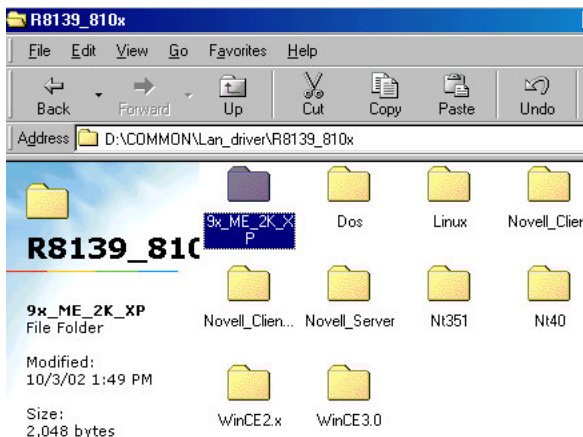
- a. Click "COMMON" on the POS driver window.



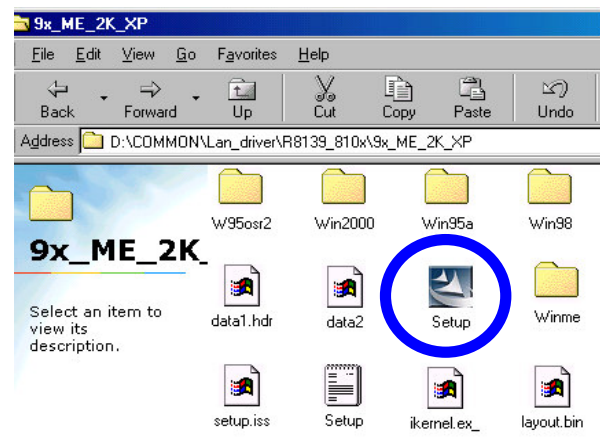
- b. Click "Lan_driver" on the COMMON window.



- c. Click "REL8139_810x" on the Lan_driver window.

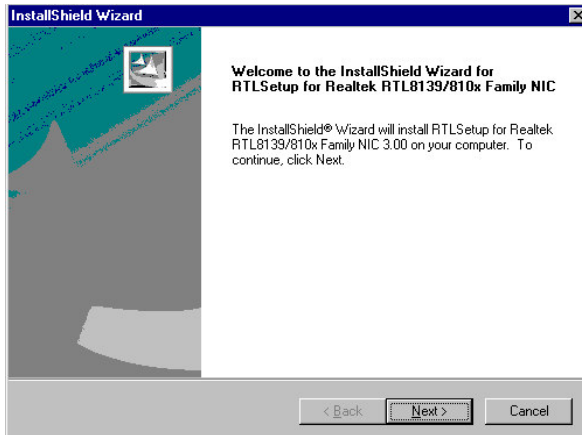


- d. Click "9x_ME_2K_XP" on the

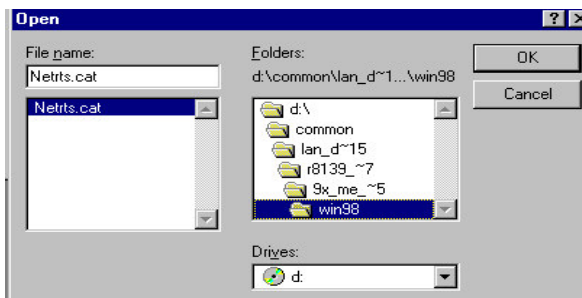


- e. Click "Setup" on the 9x_ME_2K_XP

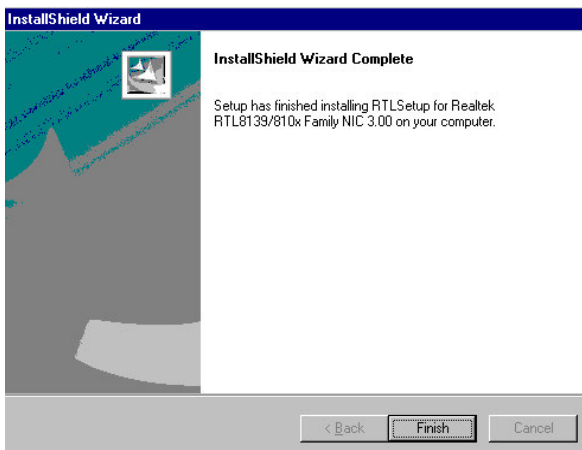
REL8139_810x window.



f. Click “Next” on the InstallShield Wizard.

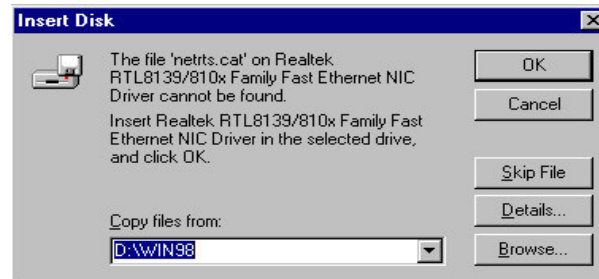


h. Point out the exact location of the new LAN driver and click “OK”.

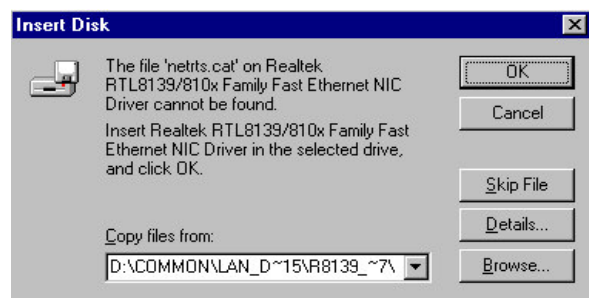


j. Click “Finish” on the InstallShield Wizard.

window.



g. Click “Browse” on the Insert Disk window.



i. Click “OK” on the Insert Disk window.

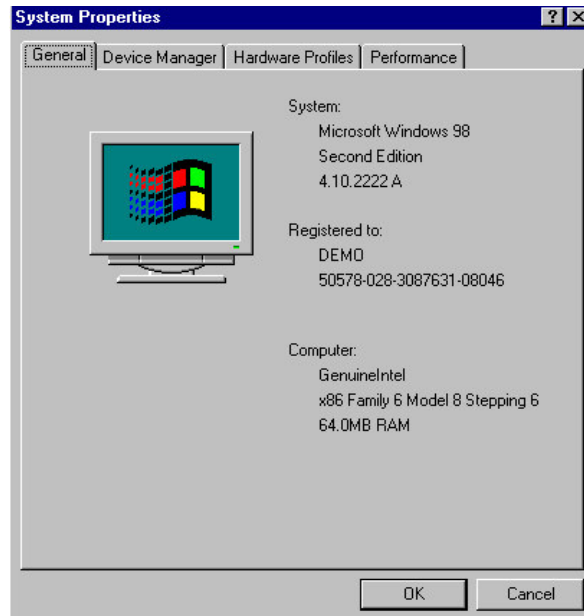


k. Now the Lan_driver is installed.

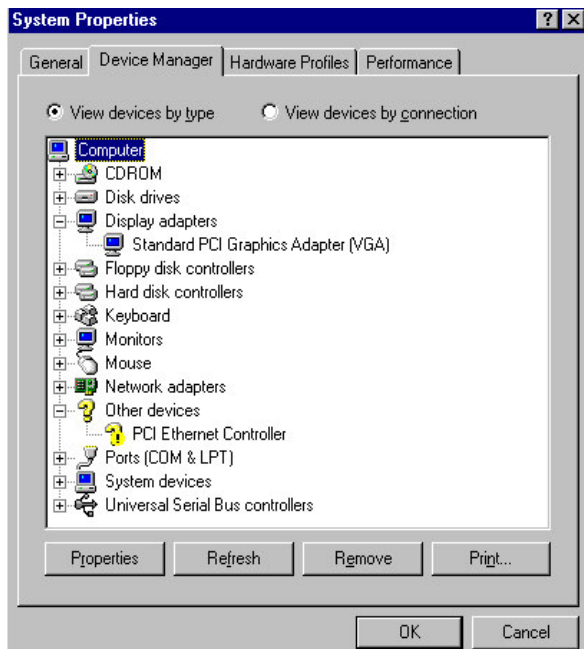
5.3 VGA



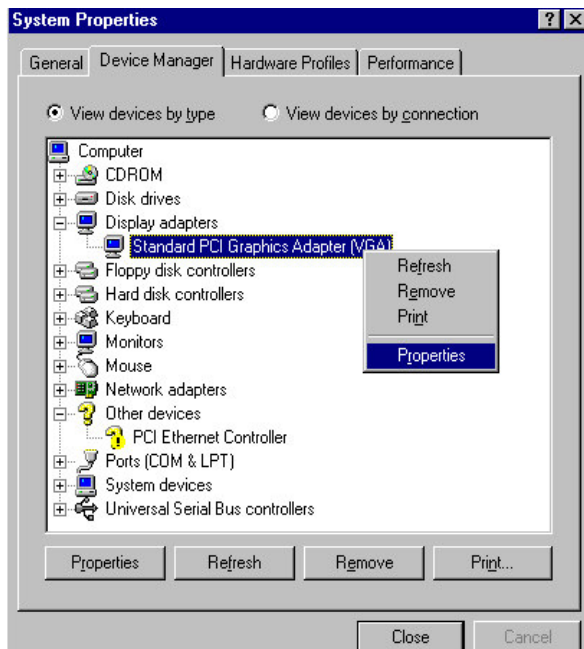
- a. Click “My Computer” on the desktop by the right key of the mouse and then click “Properties” by the left key of the mouse.



- b. Click “Device Manager” on the System Properties” window.



- c. Click “Display adapters” and you will not see the desired VGA driver “S3”,



- d. Click “Standard PCI Graphic Adapter (VGA)” by the right key of the mouse and then click “Properties” by the left key of the mouse.



e. Click “Driver” and then click “Update Driver...” on the Standard PCI Graphic Adapter (VGA) window.



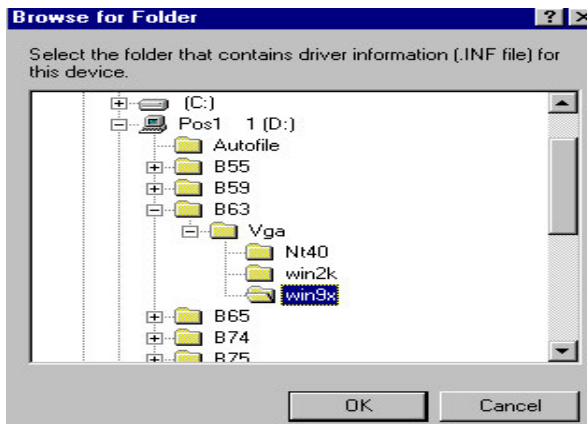
f. Click “Next” on the Add New Hardware Wizard window.



g. Choose “Search for the best driver for your device” and click “Next”.



h. Click “Browse” on the Add New Hardware Wizard.



i. Point out the exact location of the new VGA driver and click OK.



j. Click "Next" on the Update Device Driver Wizard window.



k. Click "Next" on the Add New Hardware Wizard window.



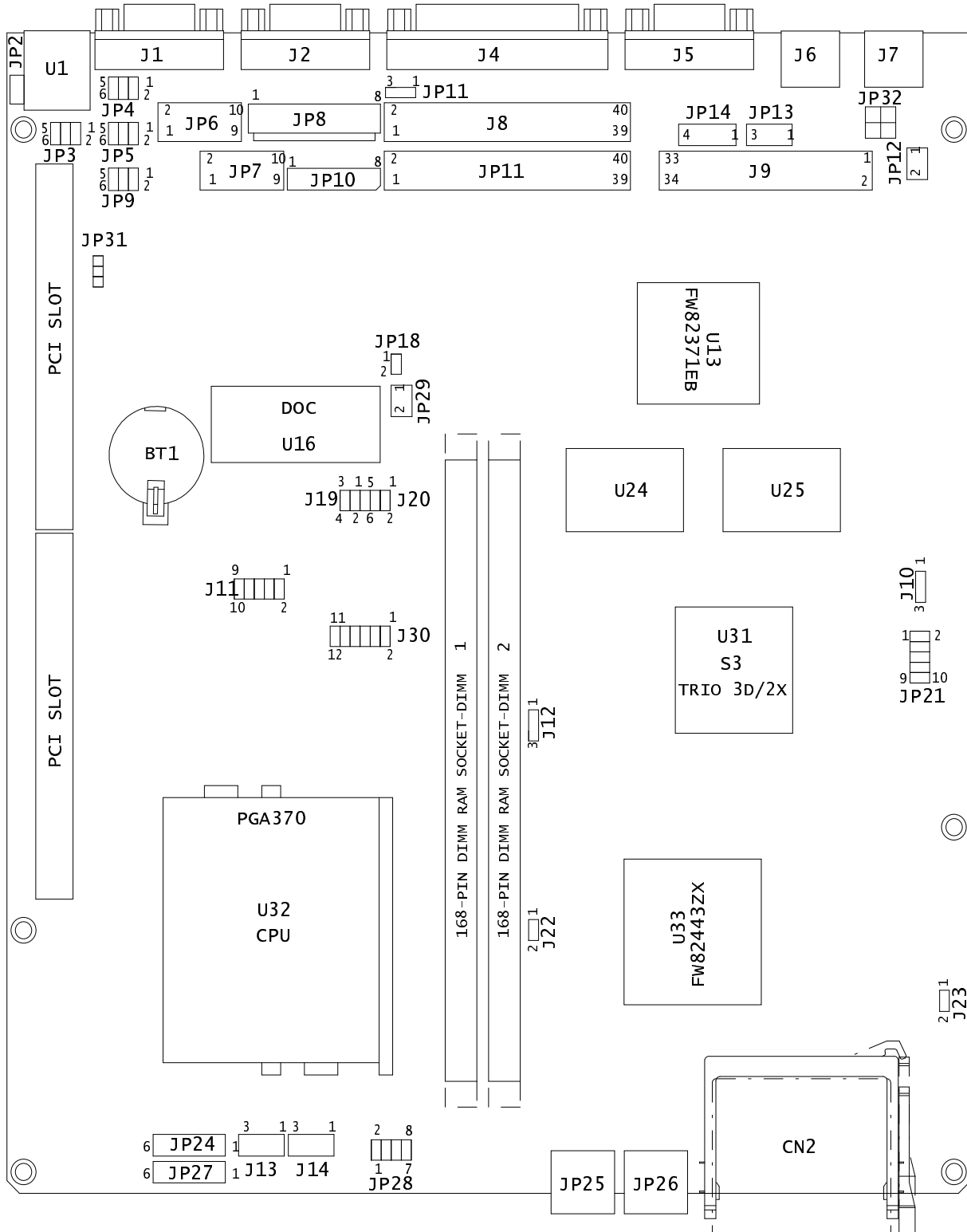
l. Click "Finish" on the Add New Hardware Wizard window.



m. The new VGA driver(S3) is successfully installed.

JUMPER SETTINGS

6.1 Location of Main Board



6.2 Watch Dog Timer Settings: JP1 (On slot card FT-7364)

Time	1-2	3-4	5-6
0.1 sec	ON	ON	ON
0.5 sec	ON	ON	OFF
1.0 sec	ON	OFF	ON
1.6 sec	ON	OFF	OFF
10 sec	OFF	ON	ON
1 min	OFF	ON	OFF
10 min	OFF	OFF	ON
1hr	OFF	OFF	OFF

6.2.1 Watch Dog Timer Programming:

Input / Output	Address	Function
Output	205H	Watch Dog ON
Input	205H	Watch Dog WDI
Input	204H	Watch Dog OFF

6.3

COM1

*Default Setting

Function	JP4
*Data	1-2
+5V	3-4
+12V	5-6

6.4 COM2

Function	JP3
*Data	1-2
+5V	3-4
+12V	5-6

Customer Display use COM2 (+12V)

6.5 COM3

Function	JP9
*Data	1-2
+5V	3-4
+12V	5-6

Touch Panel use COM3 (+5V)

6.6 COM4

Function	JP5
*Data	1-2
+5V	3-4
+12V	5-6

Card Reader use COM4 (+5V)

6.7 M-System DiskOnChip

Address	JP19	JP20
*0C800-0C9FF	1-2	1-2
0CC00 - 0CDFF	3-4	1-2
0D000 - 0D1FF	1-2	3-4
0D400 - 0D5FF	3-4	3-4
0D800 - 0D9FF	1-2	5-6
0DC00 - 0DDFF	3-4	5-6

6.8 CPU Frequency Selection: JP30

CPU Clock	PCI CLock	FS0	FS1	FS2	FS3
100.3 MHz	33.43 MHz	1-3	7-9	2-4	10-12
66.8 MHz	33.40 MHz	1-3	7-9	4-6	10-12

6.9 CPU Type Selection: JP21

CPU	Frequency	Ratio	Ext. Clock	1-2	3-4	5-6	7-8	9-10
Intel Celeron	300MHz	4.5x	66MHz	Open	Close	Open	Close	Close
Intel Celeron	333MHz	5.0x	66MHz	Open	Open	Close	Close	Close
Intel Celeron	366MHz	5.5x	66MHz	Open	Open	Open	Close	Close
Intel Celeron	400MHz	6.0x	66MHz	Close	Close	Close	Open	Close
Intel Celeron	433MHz	6.5x	66MHz	Close	Close	Open	Open	Close
Intel Celeron	466MHz	7.0x	66MHz	Close	Open	Close	Open	Close
Intel Celeron	500MHz	7.5x	66MHz	Close	Open	Open	Open	Close

6.10 CMOS Operation Mode

Function	JP12
*CMOS Normal	2-3
CMOS Reset	1-2

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