

# **Installation & Maintenance Manual**

TeamPoS 3000 XL and  $XL^2$ 





# Team**PoS** 3000® Installation and Maintenance Manual

Fujitsu Transaction Solutions Inc. endeavors to ensure that the information in this document is correct and fairly stated but does not accept liability for any error or omission.

The development of Fujitsu products and services is continuous and published information may not be up to date. It is important to check the current position with Fujitsu Transaction Solutions Inc. This document is not part of a contract or license save insofar as may be expressly agreed.

Issue Date	Revision
September 5, 2006	1
August 1,2008	2
August 7, 2009	3

## **Regulatory Information**

#### **EMC**

#### Radio Frequency Interference Requirements - U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### Radio Frequency Interference Requirements – Canada

This Class A digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

#### Radio Frequency Interference Requirements – Europe

This apparatus has been tested and found to comply with the limits for a Class A digital device, per EN55022, for use in Information Technology equipment. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. This apparatus also meets the susceptibility requirements per EN55024. Overall the product qualifies for and bears the CE mark.

## <u>Safety</u>

#### **Lead Acid Battery**



**Caution:** Danger of explosion if the lead acid 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.

#### **Hazardous Voltage**

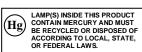


Caution: Hazardous voltage, service engineer only to open front cover and rear backplane.

## Recycling



**WARNING:** The LCD's used with this product may contain a backlight that contains mercury. Please dispose of according to local, state, or federal laws.



## **Table of Contents**

Preface		V
Regulatory		vii
Chapter 1	Overview	1-1
1.1.	TeamPoS 3000 XL Control Unit Flow Diagram	1-2
1.2	TeamPoS 3000 XL <sup>2</sup> Control Unit Flow Diagram	
1.3	Front Panel LEDs and Switches	
	1.3.1 TeamPoS 3000 Front Panel Switch & LCD Matrix	
1.4	Intelligent Pins	1-6
Chapter 2	Environmental Specifications	2-1
2.1	Environmental Specifications for both XL and XL <sup>2</sup>	2-2
Chapter 3	Dimensions	3-1
3.1	Standard TeamPoS 3000 12" LCD Stacked Configuration	3-1
	3.1.1 Model D22 & D25 LCD in Dual Stacked Configuration	3-2
	3.1.2 Model D25 & D25IR LCD in Dual Stacked Configuration	
3.2	Control Units	3-3
3.3	Keyboards	3-4
	3.3.1 Model 133UQ Keyboard	3-4
	3.3.2 Model 133AU Keyboard	
	3.3.3 Model 92U Keyboard	
3.4	Cash Drawers	3-5
	3.4.1 Model TP15 Cash Drawer - Standard	3-5
	3.4.2 Model TP5C Cash Drawer – Compact	3-7
3.5	Displays	
	3.5.1 Model 22 LCD and Model D25 LCD Displays	3-8
	3.5.2 LCD VESA Bracket Mounting	
	3.5.3 Model D22/D25 LCDs on Stacked Stand	
	3.5.4 Model D22/D25 LCDs w/MSR	
	3.5.5 Model D22/D25 LCD on Stacked Stand w/MSR & VF60	
	3.5.6 Model D22/D25 LCD on Dual Stacked Stand	
	3.5.7 Model D25/D25 LCD on Dual Stacked Stand	
	3.5.8 Model D22/D22 LCD on Dual Stacked Stand	
	3.5.9 Model D22/D22 LCD on Dispersed Stand	
	3.5.10 VF60 Customer Display (stacked)	
	3.5.11 VF60 Customer Displays (dispersed)	
3.6	Printers	
5.0	3.6.1 Model DT50III Printer	
	3.6.2 Model CT10 Printer	
Chapter 4	Site Preparation	4-1
4.1	Unpacking/Inspecting the Shipment	
4.2	Reporting Shipment Damage	
4.3	Returning Equipment	

4.4	Using Anti-static Protection	4-2
4.5	Preparing for Installation	
4.6	Determining Power Requirements	
4.7	General Requirements	
4.8	Installation with Other Equipment	
4.9	Mains Power Cables	
4.10	Warning Labels	4-7
Chapter 5	Installation	5-1
5.1	Panel Removal/Installation Process	5-1
	5.1.1 Front Panel	
	5.1.2 Rear Panel	
5.2	Removing the motherboard assembly	5-4
5.3	Installing CPU and Heat Sink	5-6
5.4	Installing the Hard Disk Drives	5-8
5.5	Installing Memory (XL Motherboard only)	
5.6	Installing Memory (XL <sup>2</sup> Motherboard only)	5-12
5.7	Installing the CD/DVD Drive	5-15
5.8	Installing the Partial Backup Battery	5-18
5.9	Removing the Backplane Assembly	
5.10	Installing PCI Add-In Cards	
5.11	Installing the I/O Boards	5-24
	5.11.1 No I/O Board	5-25
	5.11.2 Powered USB I/O Board	5-26
	5.11.3 Combo Board	
	5.11.4 Combo Board with Com Board (XL Motherboard only)	5-33
5.12	Port Labels	
5.13	Standard Bracket Locations	5-39
5.14	Installing the LCD Stands	5-40
	5.14.1 Single Stacked LCD Stand	
	5.14.2 Single Dispersed LCD Stand	
	5.14.3 Dual Stacked LCD Stand	
	5.14.4 DVI15 LCD	
5.15	Installing the MSR or Keypad/MSR	
5.16	Installing the VF60 Stacked Stand	
5.17	Stacking the LCD Monitor	
5.18	Installing the Central Filler and Keyboard	
0.10	5.18.1 Installing the Keyboard	
	5.18.2 Installing the Central Filler	
5.19	Installing the Printer I/O Board (DT 50 Series Only)	
5.20.	Stacking the Printers	
3.20.	5.20.1. Stacking the DT50 Series Printer	
	5.20.2. Stacking the CT10 Printer	
Chapter 6 -	- General Operations	6-1
	System Operations	

	6.1.1 General Care and Maintenance	6-1
	6.1.2 Power ON and OFF Sequence	6-2
	6.1.3 Powering ON	6-3
	6.1.4 Powering OFF	
Chapter 7 – I	Maintenance	7-1
7.1	Periodic Maintenance	7-1
	7.1.1 Power ON and OFF Sequence	7-1
	7.1.1.1 Powering ON	7-2
	7.1.1.2 Powering OFF	7-3
7.2	Replacing the Motherboard	
	7.2.1 XL Motherboard Layout	7-8
	7.2.2 XL Motherboard Settings	7-9
	7.2.3 Picture of XL Motherboard	7-10
	7.2.4 XL <sup>2</sup> Motherboard Layout	7-11
	7.2.5 XL <sup>2</sup> Motherboard Settings	7-12
	7.2.6 Photo of XL <sup>2</sup> Motherboard	7-13
7.3	Replacing the CPU and Heat Sink	7-14
7.4	Replacing the Hard Disk Drives	7-16
7.5	Adding or Replacing Memory	7-17
	7.5.1 Adding or Replacing XL Motherboard Memory	
	7.5.2 Adding or Replacing XL <sup>2</sup> Motherboard Memory	
7.6	Replacing the CD/DVD Drive	
7.7	Replacing Battery Backup	7-25
7.8	Removing the backplane assembly	7-27
7.9	Replacing I/O Boards	
	7.9.1 No I/O Board	7-30
	7.9.2 Powered USB I/O Board	7-30
	7.9.2.1 USB Board Jumper Settings	7-34
	7.9.3 Combo Board	
	7.9.3.1 Combo Board Installation	7-37
	7.9.3.2 Combo Board Diagram	7-39
	7.9.3.3 Combo Board Jumper Settings	7-40
	7.9.3.4 Combo Board (picture)	
	7.9.3.5 Combo COM 4 Port connector Signals	7-42
	7.9.3.6 Printer (PTR) connector Signals	
	7.9.4 Combo Board with COM Board (XL Motherboard only)	
	7.9.4.1 Combo Board Connectors (XL Motherboard only)	7-49
	7.9.4.2 Combo Board Jumpers	7-50
7.10	Replacing PCI Add-in Card	7-51
7.11	Replacing the Power Supply	
7.12	Replacing the Power Supply Fan	
7.13	Replacing the Backplane	
	7.13.1 Backplane Jumpers & Connectors	
	7.13.2 Team PoS 3000 Pin Assignments - Backplane	
	7.13.3 Cash Drawer Plug	

Chapter 8	Trouble	shooting	8-1
8.1	Power c	annot be turned on or the unit powers off after a few minutes.	8-1
8.2		will not boot up	
8.3	Display	/LCD shows correctly during Power On Self Test (POST) but to	fails
when the ope		stem starts	
8.4	Display	/LCD is blank at all times	8-4
8.5	Printing	errors	8-5
8.6	Impossi	ble to input data from keyboard and/or abnormal input	8-6
8.7	Keyboa	rd MSR reading error	8-7
8.8	Cash Dr	awer Operation errors	8-8
8.9	Custom	er display errors	8-8
8.10	Deletion	n of Data, time and disk setup data when turning off power	8-9
8.11	The syst	tem fails to switch to battery backup when power failure occur	s8-9
8.12	Operation	on errors of other peripheral devices	8-10
Chapter 9	BIOS S	etup Procedures Aurora Motherboard	9-1
9.1	Opening	g CMOS Setup Screen	9-1
	9.1.1	CMOS Settings	
	9.1.2	Main Menu Aurora Motherboard	9-2
	9.1.3	Standard CMOS Setup – Motherboard	9-3
	9.1.4	BIOS Features Setup – Motherboard	
	9.1.5	CPU Feature Setup – Motherboard	9-5
	9.1.6	Hard Disk Boot Priority – Motherboard	9-6
	9.1.7	Advance Chipset Features Setup – Motherboard	9-7
	9.1.8	Integrated Peripherals Setup – Motherboard	9-8
	9.1.9	USB Configuration setup –Motherboard	9-9
	9.1.10	On Chip IDE Device Setup –Motherboard	
	9.1.11	Onboard Device Setup –Motherboard	
	9.1.12	Super IO Device Setup – Motherboard	9-11
	9.1.13	Power Management Setup – Motherboard	
	9.1.14	PnP/PCI Configurations Setup – Motherboard	
	9.1.15	Frequency/voltage Control Setup – Motherboard	9-13
	9.1.16	Hardware Monitoring Setup – Motherboard	9-14
	9.1.17	Event Log Setup – Motherboard	
	9.1.18	Others – Motherboard	
	9.1.19	System Information – Motherboard	9-16
	9.1.20	Set Supervisor/User Passwords –Motherboard	9-17
Chapter 10	BIOS S	etup Procedures XL <sup>2</sup> Motherboard	10-1
10.1		g CMOS Setup Screen	
	10.1.1	CMOS Settings	10-1
	10.1.2	Main Menu – XL <sup>2</sup> Motherboard	10-2
	10.1.3	IDE Primary/Master Setup – XL <sup>2</sup> Motherboard	
	10.1.4	IDE Primary/Slave Setup – XL <sup>2</sup> Motherboard	10-4
	10.1.5	SATA Port 1 Setup – XL <sup>2</sup> Motherboard	

10-6
10-7
10-8
10-9
10-9
10-10
10-11
10-11 10-12
10-13
10-14
10-15
10-16
10-16
10-17
10-18
10-19
11-1

## Chapter 1. Overview

This manual is provided to illustrate how to install and maintain the TeamPoS 3000 XL and  $\text{XL}^2$  and describes in detail the procedures required for field installation and maintenance, including site preparation, equipment inspection, BIOS setting, and trouble shooting the controller.

The following sections provide a brief overview of the TeamPoS 3000 XL and XL<sup>2</sup> control units (standard and compact) and peripherals:



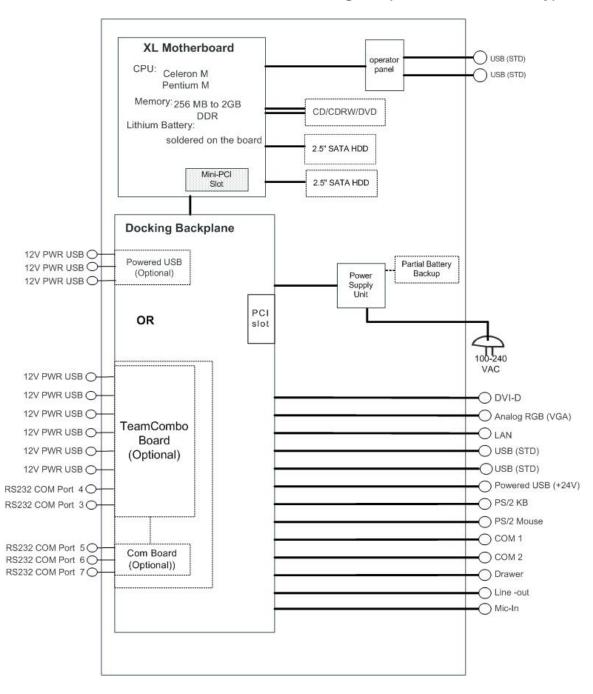


TeamPoS 3000 w/12.1" LCD

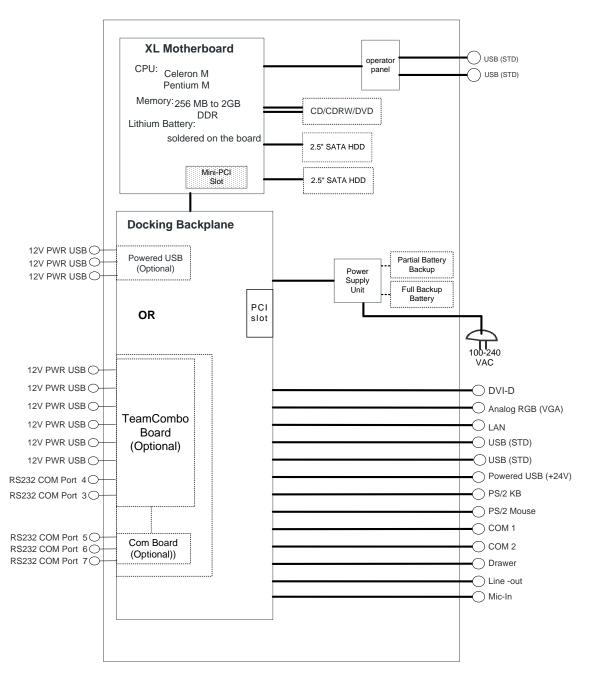
TeamPoS 3000 w/15" LCD

The TeamPoS 3000 is a state-of-the-art Point-of-Sale (POS) terminal. Built on an industry standard platform the TeamPoS 3000 leverages Intel embedded components and standard operating system, software applications and peripherals. It supports standard PC components such as high-performance CPU's, memory, hard disk, video and audio. It can be used as a PC, to run standard PC applications, such as word processing, spreadsheets, etc., subject to operating system and licensing restrictions. This controller offers duplicate 2.5" hard disk drives, on board LAN, 12.1" or 15" LCD's; USB, Combo and COM I/O boards and on a variety of software platforms. The TeamPoS 3000 XL and XL² also contain functionality required by retail application software and are "retail hardened" to support the harsh environments found in most retail stores. Depending on the application requirements, there are a very large number of possible configurations. Memory capacity, number of hard disks, CPU speed, and the number of powered RS232 and USB ports are selectable by the customer. Chassis configurations, memory, memory storage devices (such as CD and DVD drive), and operating systems are also selectable.

#### 1.1. TeamPoS 3000 Control Unit Flow Diagram (XL Motherboard only)

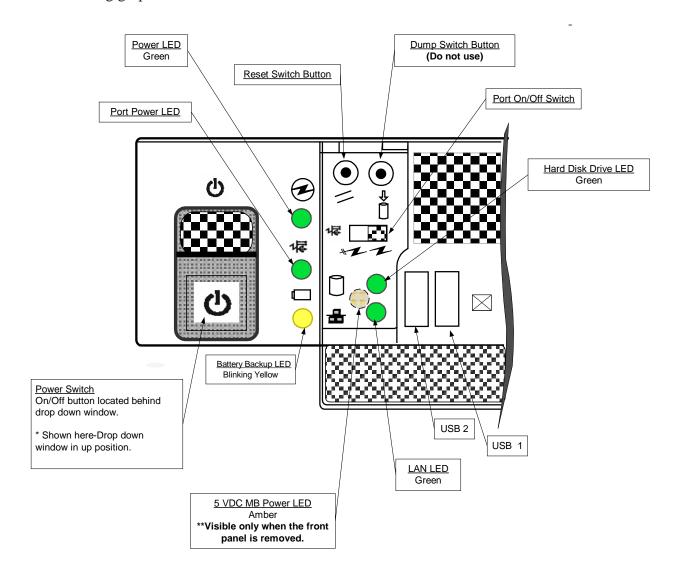


# 1.2. TeamPoS 3000 XL2 Control Unit Flow Diagram (XL<sup>2</sup> Motherboard only)



#### 1.3. Front Panel LED's and Switches

The following graphic and table show the TeamPoS 3000 unit LED's and switches:



#### 1.3.1. TeamPoS 3000 Front Panel Switch and LCD Matrix

Symbols	Name Switch/LED	<b>Mounting Position</b>	LED Color	Remark	
വ	Power Switch	Under drop down window in front panel		Depending on the BIOS setup, the power switch can be instant off or delayed off.	
<b>②</b>	Power LED	Outside of front door.	Green	Indicates AC power is supplied to the power supply and all DC voltages are available to the motherboard and other devices.	
堰	Port Power LED	Outside of front door, below the Power LED.	Green	Indicates +24 and +5 V power is on the printer and RS232 ports. Turning off the port switch will cause this light to turn off after 5 or more seconds.	
	Battery Backup LED	Outside of front door below the Port Power LED.	Blinking Yellow	Indicates terminal is running on battery backup when "ON."	
/	Reset Switch	Inside front panel door.		Resets terminal, all data in memory will be lost.	
Ď	Dump Switch	Inside front panel door.		Not used.	
根****	Port Switch	Inside front panel door		Default setting is "ON"(right position). Turns on/off power to all RS232 ports (including COM 1 & COM 2).	
N/A	5VDC MB Power LED	Behind front panel.	Amber	Indicates AC power is supplied to the power supply and standby voltages for motherboard are available. Note: Do not remove motherboard from chassis when light is "ON" Unplug AC cord before removing motherboard.	
	HDD LED (Hard Disk Drive)	Inside front panel door.	Green	Indicates hard disk drive activity.	
#	LAN LED	Inside front panel door.	Green	Indicates activity on the LAN when lit	
4	USB-IF2 & IF	Inside front panel door.		USB ports with +5V power supplied when AC power light is "ON"	
<b>Caution:</b> It is assumed that the user of this manual fully understands and strictly					



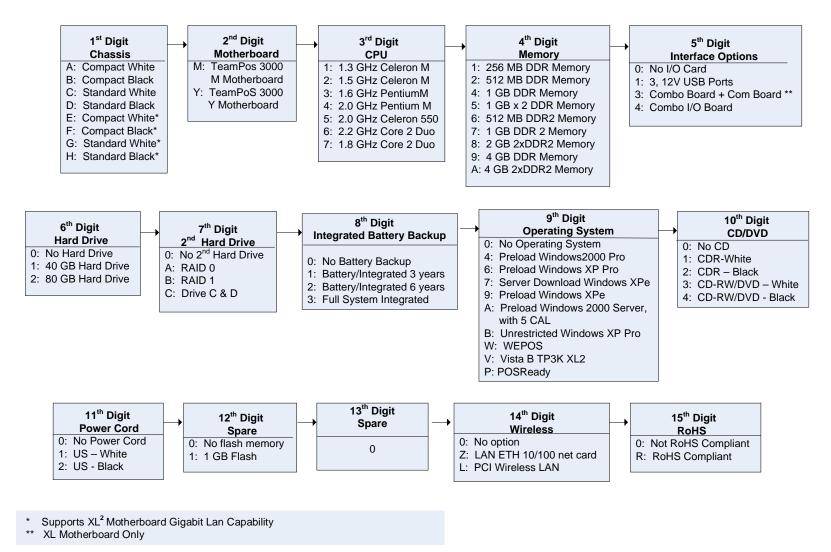
**Caution:** It is assumed that the user of this manual fully understands and strictly adheres to proper Electrostatic Discharge (ESD) precautions. Failure to adhere to precautions can cause damage to this equipment.

Always remove the power cord from the unit prior to performing any controller maintenance.

TeamPoS 3000 XL and XL<sup>2</sup> Overview

#### 1.4. Intelligent PIN's (Product Identification Numbers)

# TeamPoS 3000 Controller Intelligent PIN Configuration Guidelines



This Page Intentionally Left Blank

# **Chapter 2 Environmental Specifications**

The figure below shows a typical integrated configuration for the TeamPoS 3000 XL<sup>2</sup> (black without cash drawer). Depending on the store environment, the configuration and components may differ. The tables in the remainder of this section list the environmental specifications.



# 2.1 Environmental Specifications for both XL and XL<sup>2</sup>

			Unit		
Specifications		TP3000 XL & XL <sup>2</sup> With Covers		DT50III	CT10 Printer
		Compact	Compact Standard		
T	Width	348 (13 6/8")	450 (17 <sup>3</sup> / <sub>4</sub> ")	190 (7 3/8")	127 (5.0")
External dimensions	Depth	450 (17 7/8")	490 (19")	298 (11 <sup>3</sup> / <sub>4</sub> ")	207 (8 1/8")
mm (inches)	Height	112 (4 ½")	110 (4 1/2)	184 (7 1/4")	134 (5 ¼")
Weight kg (lbs)		12 (26.5)	13 (28.7)	5.8 (12.8)	2.0 (4.3)
	Front	1000	1000		
Maintenance area	Rear	1000	1000		
mm (inches)	Right	1000	1000		
	Left	1000	1000		
	Voltage	AC100-240	AC100-240	Supplied	Supplied
Power requirements	Frequency	50/60Hz	50/60Hz	from the main unit	from the main unit
Dissipation power (	W) Max	270	270	120W-	144W
Temperature	Operating	0~40 32~104	0~40 32~104	5~45 41-113	0~40 32~104
°C (°F)	Not operating	-5~50 23~122	-5~50 23~122	-10~50 14~122	-5~50 23~122
II '1' (0/)	Operating	10~95	10~95	10~90	10~95
Humidity (%) (Non-condensing)	Not operating	8~95	8~95	10~90	8~95
(G)		0.2	0.2	0.2	0.2
Dust (mg/m3) weight density Steering acid standard		0.3	0.3	0.3	0.3
Noise (dB) Operating: Idle:		65dB or less 50dB or less			

## **Environmental Specifications (cont.)**

		Unit			
Specifications		LCD display D22 – w/o stand	LCD display D25 – w/o stand	VFD (Customer display) – w/o stand	
External dimensions in mm (inches)	Width	300 (11 7/8")	360 (14 ¼")	245 (9 5/8")	
	Depth	57 (2 ½")	60 (2 3/8")	42 (1 5/8")	
	Height	285 (9 15/16")	295 (11 ½")	100 (4")	
Weight kg (lbs)		2.3 (5.2)	3.6 (8.0)	.8 (1.8)	
Power requirements	Voltage	Supplied from the main unit	Supplied from the main unit	Supplied from the main unit	
Dissipation power (W) Max		10W	12W	4W	

Specifications		Unit		
		Cash drawer (Standard type)	Cash drawer (Compact type)	
External dimensions in mm (inches)	Width	450 (17 ¾")	343 (13 <sup>3</sup> / <sub>4</sub> ")	
	Depth	450 (17 ¾")	450 (17 ¾")	
	Height	122 (4 ¾")	121 (4 ¾")	
Weight kg (lbs)		9.7 (21.4)	6.3 (13.85)	
Power requirements Voltage		Supplied from the main unit	Supplied from the main unit	
Dissipation power (W) Max				

This page intentionally left blank.

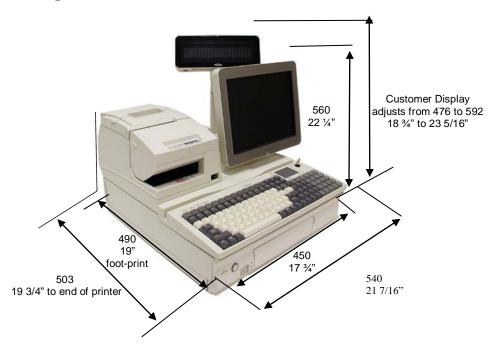
#### **Chapter 3 - DIMENSIONS**

This section shows the dimensions of the TeamPoS 3000 XL and XL<sup>2</sup> control units and peripherals. For 3<sup>rd</sup> party peripherals not shown, refer to the appropriate 3<sup>rd</sup> party manufacture documentation. *Note: All dimensions are expressed as mm and inches.* 

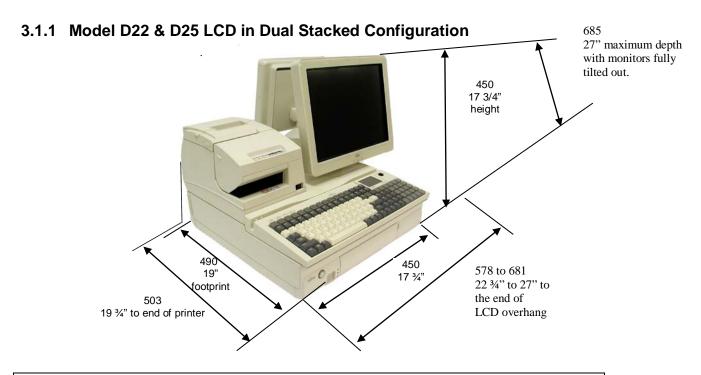
The TeamPoS 3000 XL and XL<sup>2</sup> control unit is available in two sizes, compact and standard, and in two colors, black and white. Comparable black and white units are the identical size.

The standard unit can be stacked where peripherals (printer, keyboard, operator display and customer display) are stacked *on top of* the control unit. This requires brackets to be installed on the control unit that restrain movement of the peripherals. The cash drawer, if stacked, is located *under* the control unit. In this case, brackets are installed on top of the cash drawer to restrain the controller.

# 3.1 Standard TeamPoS 3000 XL and XL<sup>2</sup> 12" LCD Stacked Configuration Dimensions

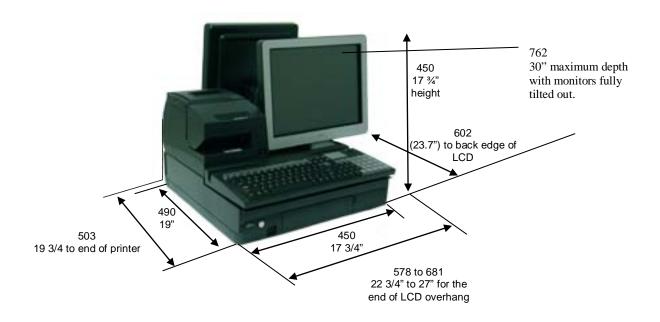


Note: Dimensions taken with monitor facing straight forward. The 12" LCD overhangs the right edge of the controller. In this position the widest point is 21 7/16". The customer display is mounted on a stacked adjustable pole which can extend up to 23 5/16". The printer overhangs the rear edge by 3/4 inch. The longest dimension front to back is 19 3/4".



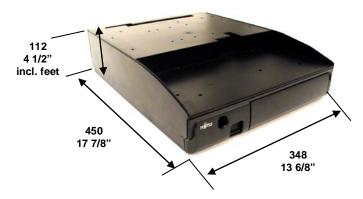
Note: Dimensions shown with D25 monitor facing straight forward. The 15" LCD overhangs the right edge of the controller by 5". In this position the widest point is 22 3/4". A D22 monitor used as a customer display and is mounted on a dual display stand with arms that rotate. Both monitors also rotate and tilt. With the stand rotated to its maximum width and with the monitors at maximum rotation and tilt, the maximum width for this configuration is 27 1/8" and maximum depth is 27". The printer overhangs the rear edge by 3/4 inch.

#### 3.1.2 Model D25 & D25IR LCD in Dual Stacked Configuration

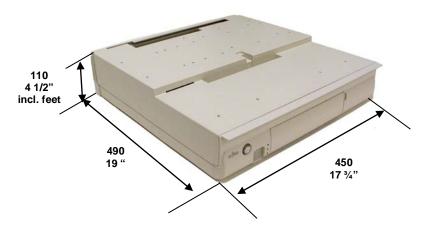


Dimensions shown above indicate the smallest space requirement to accommodate the printer overhang, the LCD overhang and the keyboard overhang. The largest space required to accommodate the widest spread of the monitor arms and the greatest tilt of the LCD is 681 (27") wide x 762 (30") deep x 450 (17 3/4") high.

#### 3.2 Control Units



Compact TeamPoS 3000 XL and XL<sup>2</sup> Control Unit (without brackets installed)



Standard TeamPoS 3000 XL and XL<sup>2</sup> Control Unit (without brackets installed)

#### 3.3 Keyboards

#### 3.3.1 Model 133 UQ Keyboard Dimensions

(PIN #s 90000829 white, 900001519 black)



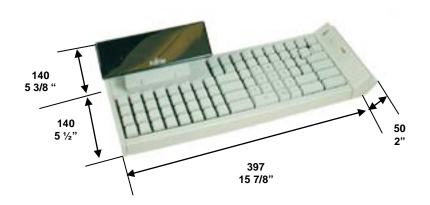
#### 3.3.2 Model 133 AU Keyboard Dimensions

#### (PIN #'s 11001689 white, 11001699 black)



#### 3.3.3 Model 92U Keyboard Dimension

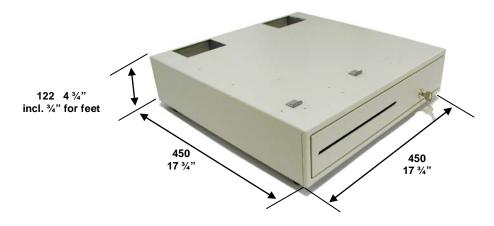
(PIN # 90000630)



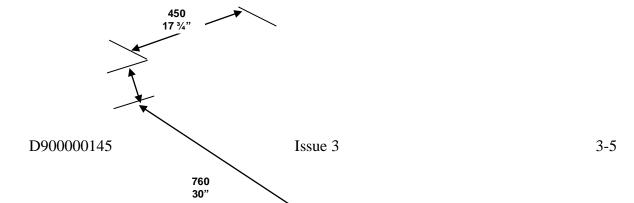
#### 3.4 Cash Drawers

#### 3.4.1 Model TP15 Cash Drawer - Standard

(11001467 white w/o lock, 11000153 white w/lock, 11001468 black w/o lock, 11000154 black w/lock)



Standard Cash Drawer

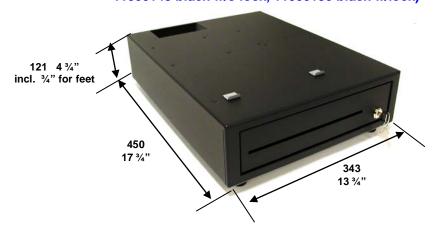




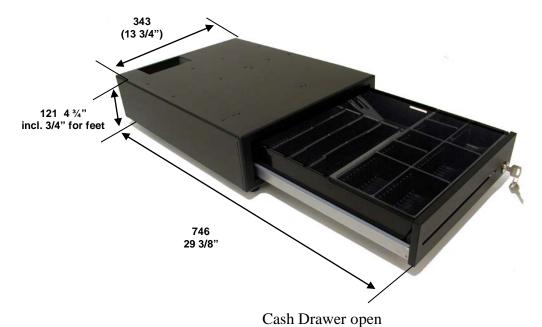
Standard Cash Drawer in Open Position

#### 3.4.2 Model TP5C Cash Drawer - Compact

(11000147 white w/o lock, 11000149 white w/lock, 11000148 black w/o lock, 11000150 black w/lock)



Closed Cash Drawer

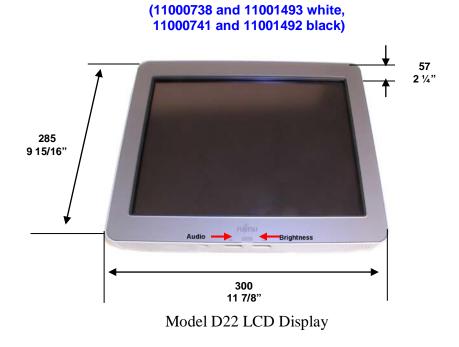


#### 3.5 Displays

#### 3.5.1 Model D22 LCD and Model D25 LCD Displays

Two LCD's are offered for use with the TeamPoS 3000 XL and XL<sup>2</sup> controller. The D22 LCD is a 12.1" LCD and the Model D25 LCD is a 15" LCD. Both LCD's support both analog and digital interfaces in the same unit. To use either of the LCD's as an analog device, simply connect with a VGA cable. To switch from analog to digital use a DVI cable. Download video drivers from the following website: <a href="http://us.fujitsu.com/support">http://us.fujitsu.com/support</a>.

The D22 is available with 5-wire resistive touch screen. The D25 is available with 5 wire resistive or infrared touch. Options include a 3-track MSR which can be added separately or with a 5x8 keypad/MSR (future release). Speakers are standard. The D25 with MSR and keypad can only be stacked on a standard POS unit. All LCD monitors come with an audio adjustment dial and a brightness adjustment dial on the bottom edge of the monitor.



(11000742-1000744 white, 11000745-11000746 black)



Model D25 LCD Display

#### 3.5.2 LCD VESA Bracket Mounting

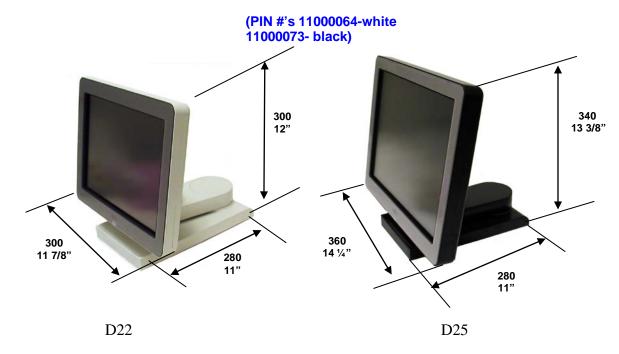
Although usually mounted on Fujitsu stands, the D22 and D25 LCD's can both use a standard 100mm (4") VESA mount. The cosmetic back panel has predrilled holes for the screws to pass through and attach to the back of the monitor.



35 1 3/8" 80 3 1/8"

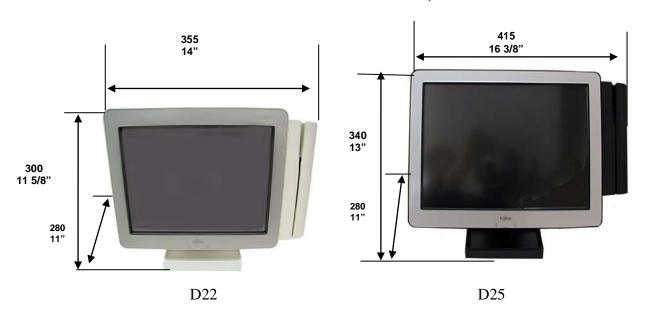
Back Panel for D25

#### 3.5.3 Model D22 & D25 LCD's on Stacked Stand.



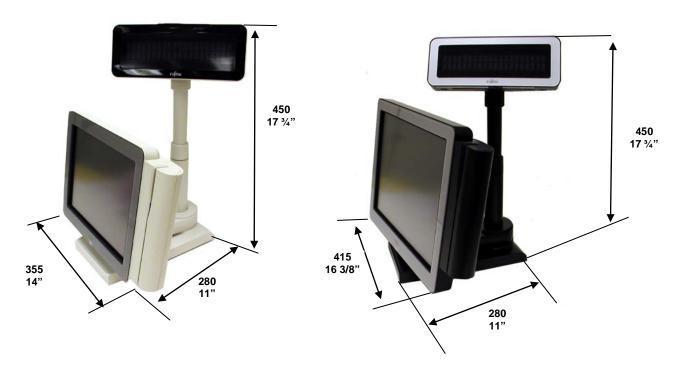
#### 3.5.4 Model D22 & D25 LCD's w/MSR

# (PIN #'s 11002245-white 11002248-black)



# 3.5.5 Model D22 & D25 LCD on Single Stacked Stand w/MSR & VF60 Display

(VF60 PIN #'s 11000076-white-11000077-black Telescoping Pole PIN #'s 11000078-white, 11000079-black)



#### 3.5.6 Model D22 & D25 LCD on Dual Stacked Stand

(PIN #'s 11000481-white, 11000484-black)



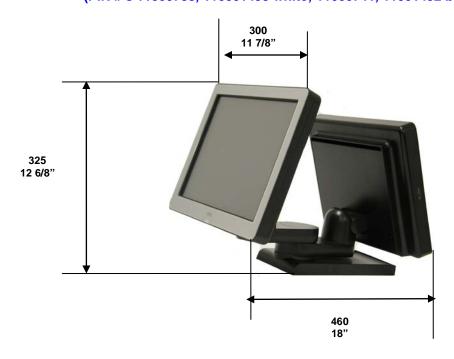
#### 3.5.7 Model D25 & D25 on Dual Stacked Stand

(PIN #'s 11000742-744 white, 11000745-747 black)



#### 3.5.8 Model D22 & D22 on Dual Stacked Stand

(PIN #'s 11000738, 110001493 white; 11000741, 11001492 black)



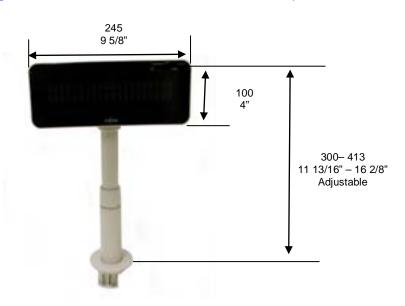


#### 3.5.9 Model D22 & D25 LCD on Dispersed Stands

#### 3.5.10 VF60 Customer Display (stacked)

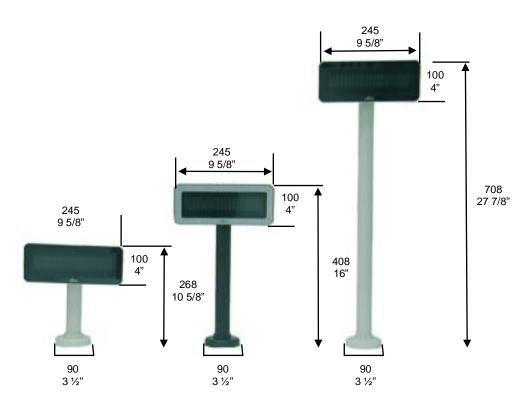
The customer display is mounted on a stacked adjustable pole which reaches up to 16.3° from the pole base to the top of the display. The display rotates 330° horizontally and tilts 30° vertically

(VF60 PIN #'s 11000076 white -11000077 black) (Telescoping Pole PIN #'s 11000078-white, 11000079-black)



#### 3.5.11 VF60 Customer Display (dispersed)

(VF60 PIN #'s 11000076-white, 11000077-black)



Dispersed Customer Display Pole Kits

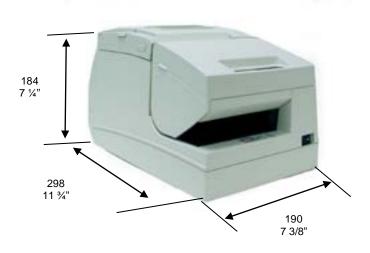
White	11000300	11000302	11000304
Black	11000301	11000303	11000305

### 3.6 Printers

Two printers are available for the TeamPoS 3000 XL and XL2: the DT50III and the CT10. Their dimensions are show in the figures that follow.

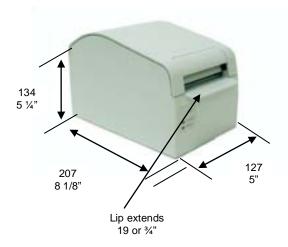
# 3.6.1 Model DT50III Printer

(PIN #'s 11000187-white, 11000197-black)



### 3.6.2 Model CT10 Printer

(PIN #'s 110000133-white, 110000134-black)



This page intentionally left blank.

# **Chapter 4 SITE PREPARATION**

This chapter defines the following pre-installation details for the TeamPoS 3000:

- Shipment inspection and return
- Anti-static protection
- Electrical supply requirements
- Mains power cables
- Warning labels
- The procedures assume that in-store wiring for the terminals, its peripherals, and terminal-to-terminal communications have been installed.

## 4.1 Unpacking/Inspecting the Shipment

TeamPoS Series terminals are thoroughly inspected prior to shipment; however, damage can occur during transit. Any damage to the terminal can lead to problems after installation. Before accepting a shipment, inspect all shipping containers for external damage. Ensure that all packages listed on the shipment billing form have been delivered.

- Verify that all the accessories listed on the packing list have been included in the shipment. If components are missing, contact your Help Desk for instructions. Then report shortages and damage to Customer Care. The customer needs to provide the sales order number and a description of the piece of equipment damaged. The customer should then telephone 1-800-780-5525 and a Customer Care representative will arrange for replacement. Customer Care is not responsible for equipment damaged by the customer after it is delivered.
- Inspect the exterior of each shipping box noting damage on the shipping documents so that the carrier has a record. Remove the unit and components from the box and check for damage. If the unit or components are damaged, contact your Help Desk for instructions.
- Inspect the exterior of each unit for any obvious physical damage (scratches or abrasions on painted or display surfaces, or on plastic surfaces) that could have occurred during shipping.
- Damaged equipment received from a source other than Fujitsu Transaction Solutions Inc.'s Foothill Ranch facility should be reported to the sender.

## 4.2 Reporting Shipment Damage

If any damage is detected, it is both the recipient's and the carrier's responsibility to note the damage. Follow all applicable policies and procedures for notifying the carrier, management, and Fujitsu Transaction Solutions of the damage, and for filing damage claims.

Please note that all components are packaged separately. Keep the packaging in case it is necessary to return any of the components.

### 4.3 Returning Equipment

All equipment returned to the factory must be packed in either the original container or a substitute container of equal strength and durability. Packing material, about 76.0 mm (3.0 inches) thick, should surround all protruding edges, switches, and surfaces. Parts shipped in a package separate from the unit must also be repacked and included in the return. Each return must include the following information:

- Description of the equipment defect
- RMA number (received from Customer Care representative)
- Order number
- Date received
- Name, address, and phone number of the person making the return

#### 4.4 Using Anti-static Protection

When installing and disassembling equipment, one must follow anti-static protection procedures. All controllers, terminals, peripherals, and boards are susceptible to damage due to electrostatic discharge. Insufficient anti-static protection when handling boards causes failure, degraded operation, and reduced reliability.



**Caution:** Avoid touching connector pins on data cables or units. Touching exposed connector pins could cause a discharge into the circuitry resulting in failed components.

#### 4.5 Preparing for Installation:

Before installing equipment, perform the following steps:

- Move all terminal components, accessories, and cables to the locations specified in your local site plan.
- Position the cables according to the site plan. Make sure you have the correct data cable at each terminal location.
- Place the optional equipment next to the terminal to which it will be connected.
- Remove the shipping tape from those components that have been taped.

### 4.6 Determining Power Requirements

Electrical power to the equipment must comply with all local, state, and national wiring codes and meet the requirements described here. If you do not have qualified in-house personnel to ensure that power requirements are met, an electrical contractor familiar with computer equipment should be hired. This section provides the electrical supply data and main power cable information to prepare a site for the installation of the TeamPoS 3000XL and XL<sup>2</sup> Series terminal. This product is also designed for IT power systems with phase-to-phase voltage of up to 240V.

Before installing the terminal, check the power lines for loads that could cause large variations in voltage. Electrical devices that use a great deal of power such as air conditioners, elevators, copying machines and large motors can cause large drops in voltage. When severe electrical interference occurs, installing radio frequency (RF) filters, or an isolation transformer, or both may be necessary. If voltage surges caused by lightning are likely to occur, install an arrester.



**Caution:** To prevent data loss, do not plug other equipment that can produce sudden surges (i.e., vacuum cleaners) into the same power circuit as the terminal.

#### 4.7 General Requirements

- 1. The safety standards for Information Technology Equipment are only valid if the building installation conforms to the National Electrical Code for the country where the equipment is being installed.
- 2. For equipment that has a pluggable connection to its power source, the power source outlet socket must be located near the equipment and must be easily accessible.
- 3. For protection against electric shock, certain parts of this equipment, including the interface connections have been designed so that the voltage is limited to a safe value. In order to maintain this protection it is essential that any equipment connected to Fujitsu products shall have interface connections which are similarly protected.
- 4. When installing and disassembling equipment, be sure to follow anti-static protection procedures. All controllers, terminals, peripherals, and boards are susceptible to damage due to electrostatic discharge. Insufficient anti-static protection when handling boards causes failure, degraded operation, and reduced reliability.

The following are general electrical supply requirements:

- a. Line noise limitations must not exceed 1250V with a maximum 1µs duration, and the repetition rate not to exceed 100Hz
- b. Socket outlets must provide protective earth grounding and be of a polarized type
- c. Before installing the terminal, check the power lines for loads that could cause large variations in voltage. Electrical devices that use a great deal of power such as air conditioners, elevators, copying machines, and large motors can cause large drops in voltage. When severe electrical interference occurs, installing radio frequency (RF) filters, or an isolation transformer, or both may be necessary. If voltage surges caused by lightning are likely to occur, install an arrester.
- d. Fujitsu supplied cables should be used to connect the system to the power supply outlet but, where this is not possible, the minimum requirement for the mains cables is as follows: For connection to 100-240V phase-to-neutral power supply systems; power supply cord to be rated at phase-to-neutral power supply systems; power supply cord to be unshielded and rated at 5 amps (minimum), 240 volts with one end terminated in a plug suitable for that location and the other end terminated in a mould IEC type CEE-22 female connector.
- e. This ITE (Information Technology Equipment) power supply is designed for use on a power system with an earthed neutral, i.e., a TN or TT power

system. The terminals must not be directly connected to a power system with impedance earthed neutral, i.e., an IT power system.

f. For pluggable equipment, the supply plug shall be connected as follows:

Black or Brown Live (Hot)
White or Blue Neutral
Green or Yellow Ground/Earth

#### To the User:

- DO read the operating instructions carefully before you attempt to use this equipment.
- DO ensure that the supply connector or isolator is readily accessible to enable isolation of the equipment
- DO ensure that a competently trained person checks that all electrical connections (including the supply plug and any extension leads) are properly made in accordance with the instructions.
- DO NOT allow the supply cord to be positioned where it may be snagged, trodden-on or stretched across a sharp edge.
- DO NOT continue to operate the equipment if you have ANY doubt about it working normally, or if it is damaged in any way. Instead, switch it off and, if the equipment is pluggable, remove the supply cord and contact your local service agent.
- DO NOT remove any fixed covers unless you are qualified / authorized to do so for the preparation of the equipment. There are no user serviceable parts under the covers unless expressly indicated in the equipment governing manual. Always remove the supply plug from the power source before removing any covers, and ensure ALL covers are replaced and correctly secured before reconnecting the supply plug.
- DO NOT obstruct any of the ventilation slots in the equipment. Obstruction of these slots can cause overheating, reduce equipment reliability and shorten the life of the equipment.
- DO NOT expose the equipment to spilled liquids
- DO NOT replace the supply cable with a different type than is called up in the instruction documentation or supplied with the equipment.

### 4.8 Installation with Other Equipment

In most cases, dedicated AC mains circuits are not required for the TeamPoS 3000XL and XL² terminals. In rare instances, other electrical equipment sharing power with the terminal may cause adverse effects on the terminal. When this occurs, electrical isolation may be required and is the responsibility of the customer or installing contractor.

#### Terminals at 100-240 volts

The table below details the power requirements for the TeamPoS series control unit. Provide 100-240 volts AC, 50/60 Hz, single phase, with the following amperage requirements:

Property	Value or Description
Grounding	The terminals are Class 1 equipment and must be supplied via a socket-outlet which has a protective ground contact connected to the protective ground of the terminal.
Power system	The terminals are designed for use on a power system with a grounded neutral, i.e., a TN or TT power system. The terminals must not be directly connected to a power system with impedance grounded neutral, i.e., an IT power system.
Rated voltage and frequency	100 - 240 volts, 50/60 Hz
Rated current	1.8 A / 3.6 A
Operational frequency limits	47 – 63 Hz
Earth leakage current	< 1.0 mA
Power dissipation	250 watts
Maximum HRC fuse rating for	10 A / 20 A
external short-circuit protection	
Main power cord:	
Length	3.00 m (9.80 ft.)
Diameter	8.0 mm (0.30 in.)
Minimum bend radius	10.0 mm (0.40 in.)

#### 4.9 Mains Power Cables

The mains power cables for the TeamPoS 3000XL and XL<sup>2</sup> terminals are terminated with a plug suitable for the ordering country.



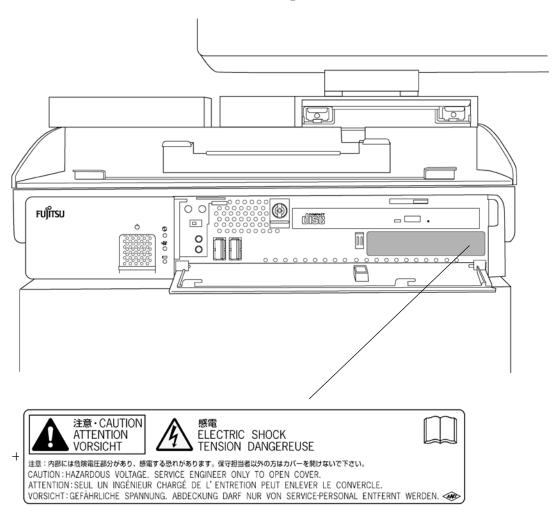
**Caution:** The power supply cord is used as the main disconnect device. Ensure that the socket-outlet is located/ installed near the equipment and is easily accessible.

## 4.10 Warning Labels

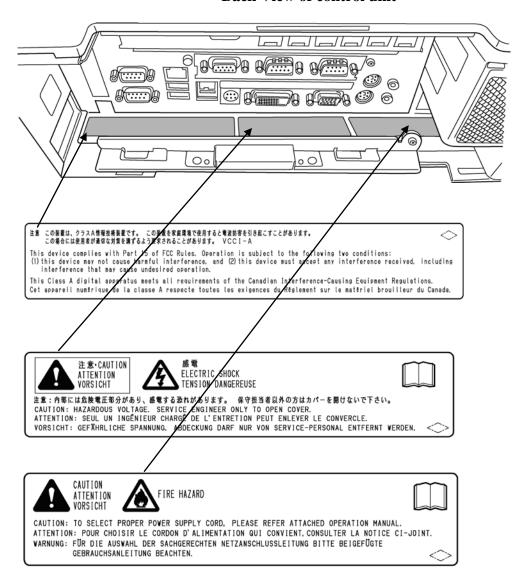
The equipment contains warning labels shown below.

Do not remove any warning label. If a label becomes damaged or soiled to the point where it is illegible, contact your Customer Service Engineer

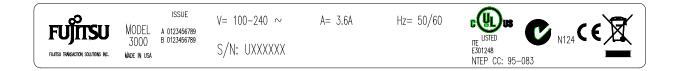
## Interior of the front panel of the control unit



#### **Back View of control unit**



#### **Bottom of the TeamPoS Controller**



#### **CHAPTER 5 INSTALLATION**



**Caution:** Confirm that the external power source is 100-240 VAC before starting the operation. To prevent electric shock, confirm that the AC cable is removed from the AC outlet anytime the panels are removed. Be sure to observe all ESD precautions and power OFF procedures.

#### 5.1 Panel Removal/Installation Process

In many cases, TeamPoS 3000 control units will be fully configured from the factory or at configuration centers. Others will be configured during installation. This section shows how to access the control unit components to add or change configurations and installation of Team PoS 3000 peripherals. Accessing the TeamPoS 3000 internal components always requires the removal of the front panel.

#### 5.1.1 Front Panel

Removing the front panel gives access to the motherboard, disk drives, CD/DVD drive and optional partial battery backup.



Caution: Be sure to observe all ESD precautions and power off procedures.

1. To remove the front panel, use your assigned key to unlock the front door. Next open front door by pulling forward from the notch.



- 2. Loosen thumbscrew.
- 3. The metal locking tab (behind the thumbscrew) will likely drop down and unlock of its own accord. If not, gently pull down on the locking tab.



4. Rock front panel out at the top and remove.



- 5. To reinstall, insert the tabs of the front panel into notches in the chassis.
- 6. Rock the front panel up and back until it snaps into the chassis.
- 7. Make sure the front panel is properly seated all the way around.
- 8. Lift up on the metal tab located behind the thumbscrew and hold up while tightening the screw.
- 9. Close the front door.
- 10. Use the keys to then lock the front door.



### 5.1.2 Rear Panel

Removing the rear panel gives you access to the docking backplane.

1 To remove the rear panel, lift up on the locking tabs at the sides of the rear panel.





2. Pull back to remove. This gives you access to the docking backplane, where PCI cards and I/O boards are installed.

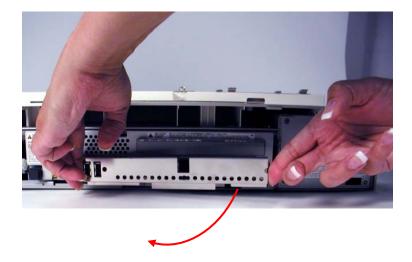
3. To reinstall the rear panel, insert the metal tabs into the sides of the chassis and slide the locking tabs down.

## 5.2 Removing the motherboard assembly



**Caution:** Be sure to observe all ESD precautions and power off procedures.

- 1. Remove the back panel (See Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1). The Yellow LED should be off. (See Section 1.2).
- 4. Remove hard disk drive shield by pushing in on the right side and pulling outward.



5. Pull white release lever below the motherboard assembly out and to the left.



6. Pull the entire assembly out of the controller.





- 7. To reinstall, make sure that the assembly rails line up with the rails in the chassis.
- 8. Slide the motherboard assembly in with the release lever at  $45^{\circ}$  angle.
- 9. Push in slowly until motherboard assembly engages the lever.
- 10. Use the lever to fully seat the motherboard assembly.



- 11. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 12. Reinstall the back panel (See Section 5.1.2).

## 5.3 Installing CPU and Heat Sink

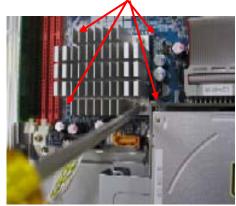


Caution: Be sure to observe all ESD precautions and power off procedures.

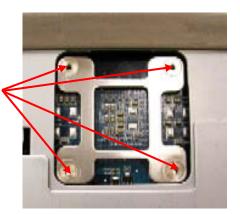
The heat sink and CPU are installed on the motherboard (towards the front of the motherboard) just to the right of the memory. Both parts come in the same kit.

- 1. Remove the rear panel from the controller (see Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1), and then yellow LED should be off (See Section 1.2).
- 4. Remove the motherboard assembly (see Section 5.2).
- 5. Remove the heat sink by loosening the 4 spring-loaded screws that attach it to the motherboard. There is a mounting bracket on the bottom of the motherboard.

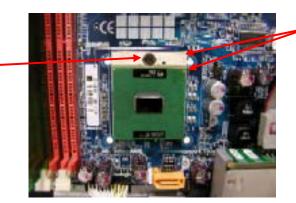




Heat Sink Bracket 4 spring-loaded screws thread through from top)



6. Open the CPU lock by turning approximately ¼ turn counterclockwise. Lock and Unlocked cions are imprinted in the CPU mount as a reminder.



Align arrows here White arrow on socket

CPU Lock
Unlock --1/4 turn counter clockwise
Lock --1/4 turn clockwise

- 7. Place the CPU on the CPU socket with the arrows aligned.
- 8. Using a small flathead screwdriver, rotate the lock 1/4 turn clockwise to the lock position.



9. Place the heat sink over the CPU with fins aligned front to back and secure the heat sink with the four screws attached to it. Grip the heat sink bracket to hold it in place while the spring-mounted screws are tightened.



Note: When replacing the CPU, do not reuse the existing heat sink without having proper heat sink compound for heat dissipation. Otherwise damage to CPU could result.

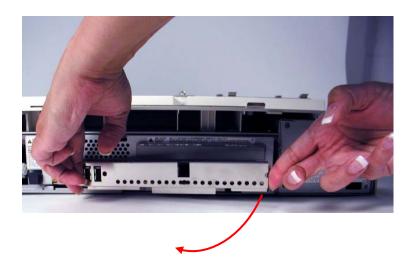
- 10. Reinstall the motherboard (See Section 5.2).
- 11. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 12. Reinstall the back panel (see Section 5.1.2).

# 5.4 Installing the Hard Disk Drives

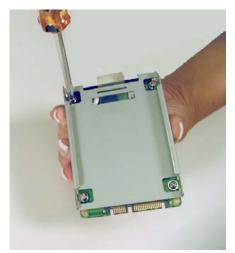


Caution: Be sure to observe all ESD precautions and power off procedures.

- 1. Remove the front panel. (See Section 5.1.1)
- 2. Remove hard disk drive shield.



3. If hard disk is not already assembled attach hard disk drive to hard drive bracket and secure with four M3 x 6 screws, but do not over tighten the screws.



4. Slide the new hard disk drive into the bay making sure that the runners align with the guides.



- 5. Press firmly to make the connection and reinstall hard disk drive shield.
- 6. Reinstall the front panel (See Section 5.1.1).

## 5.5 Installing Memory (XL Motherboard only)



**Caution:** Be sure to observe all ESD precautions and power off procedures.

The TeamPoS 3000XL motherboard has two memory sockets or slots and can use 256MB, 512MB or 1GB DDR memory in combination.

- 1. Remove the rear panel (See Section 5.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Remove the motherboard assembly (See Section 5.2)
- 5. Insert memory (or additional memory) into an empty socket. (There is only one way the memory stick will fit.)



6. Check to make sure that both levers for the socket are locked into place.



- 7. Reinstall the motherboard (See Section 5.2).
- 8. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 9. Reinstall the back panel (See Section 5.1.2).
- 10. If this is a memory upgrade, install the upgrade label that comes with the upgrade kit on the side of the unit near the serial number.



## 5.6 Installing Memory (XL2 Memory)



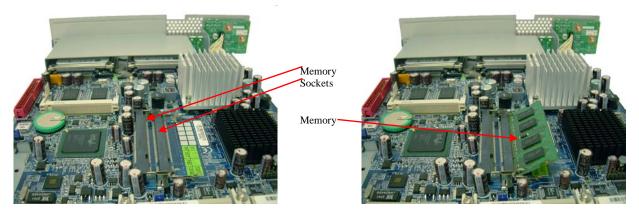
Caution: Be sure to observe all ESD precautions and power off procedures.

The TeamPoS 3000XL<sup>2</sup> motherboard has two memory sockets or slots and can use 512MB, 1GB or 2GB SO DIMM memory in combinations. Memory on the Yosemite motherboard is mounted horizontally rather than vertically as in previous motherboards.

- 1. Remove the rear panel (See Section 5.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel. (See Section 5.1.1). Yellow LED should be off. (See Section 1.2).
- 4. Remove the motherboard assembly (See Section 5.2)
- 5. Insert memory (or additional memory) into the bottom socket. (There is only one way the memory stick will fit.) With the motherboard seated in front as shown in the picture below, angle the stick approximately 30° pressing to the left to make sure the stick is properly seated. Then press down slightly on the edge of the stick that is elevated to make sure the memory is properly seated.
- 6. The release latch for the memory stick will snap into place when the stick is properly seated.

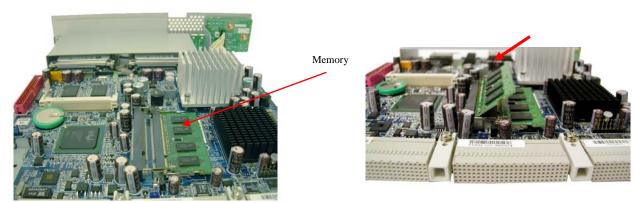
7. If two memory sticks are being installed, insert the 2<sup>nd</sup> stick in the top slot following the same procedure as for the first.

 ${\rm XL}^2$  Motherboard w/o memory sticks  ${\rm XL}^2$  Motherboard w/1 memory ready to install



XL<sup>2</sup> Motherboard with 1 stick installed.

 $XL^2$  Motherboard  $w/2^{nd}$  stick ready to install



- 8. Reinstall the motherboard (See Section 5.2).
- 9. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 10. Reinstall the back panel (See Section 5.1.2).

11. If this is an upgrade, install the upgrade label that comes with the upgrade kit on the side of the unit near the serial number.



## 5.7. Installing the CD/DVD Drive



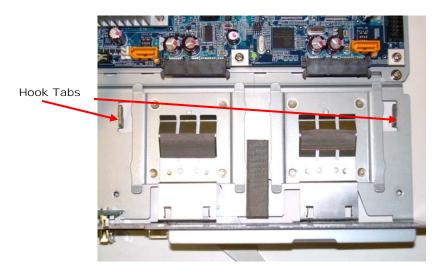
Caution: Be sure to observe all ESD precautions and power off procedures.

The CD/DVD drive rides on top of the motherboard assembly and requires a narrow Phillipshead screwdriver to install.

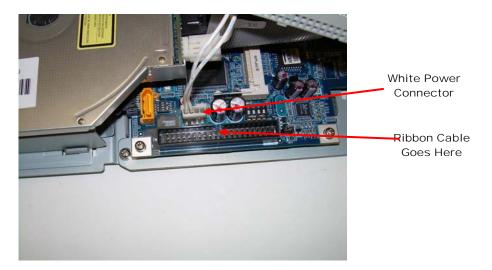
- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off.
- 4. Remove motherboard assembly. (See Section 5.2).
- 5. Remove the metal blanking plate by removing the 2 screws holding it in place. Retain the screws.



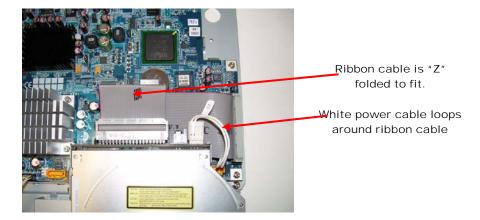
6. The CD/DVD drive comes already mounted onto a bracket. Align the slots in the mounting bracket so that they pass over the hook tabs on the chassis. Slide the CD/DVD drive forward so that it fits into the opening in the chassis and the holes in the bracket are aligned with the holes in the chassis. Attach the bracket to the chassis with the two screws retained in Step 5 above.



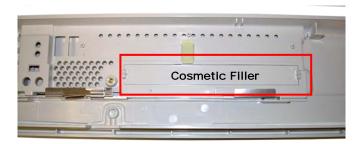
7. The power cable and ribbon cable come attached to the back of the CD/DVD drive. Attach the other end of the white power cable to the motherboard as shown in the photo.



8. Attach the gray ribbon cable to the motherboard. The white power cable needs to loop around the ribbon cable as in the attached photo.



- 9. Reinstall the motherboard (See Section 5.2). Make sure the cables are clear of any obstruction.
- 10. Pop out the cosmetic filler in the front panel.



11. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).



12. Reinstall the back panel (See Section 5.1.2).

## 5.8. Installing the Partial Backup Battery



**Caution:** Be sure to observe all ESD precautions and power off procedures.

The partial backup battery is located on the front of the TeamPoS 3000XL and XL<sup>2</sup> on the left.

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1), and the yellow LED should be off. (See Section 1.2).
- 4. Remove the protective front metal covering as shown.



5. Gently pull the white power cable for the battery out of the way and insert the battery.





6. Connect the white connector attached to the battery to the white power cable in the controller. Tuck the cables out of the way - on top of the battery.





- 7. Reinstall the front panel and the power cable (See Section 5.1.1).
- 8. Reinstall the front panel and reconnect power cable (See Section 5.1.1).
- 9. Reinstall the rear panel (See Section 5.1.2).

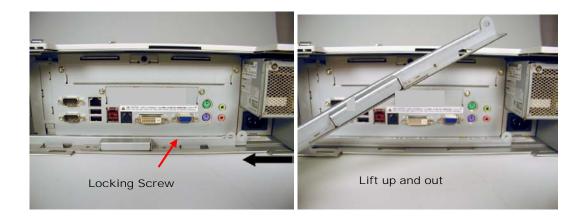
## 5.9. Removing the Backplane Assembly



**Caution:** Be sure to observe all ESD precautions and power off procedures.

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Unseat the motherboard assembly (See Section 5.2).
- 5. At the rear, remove the locking screw on the right hand side of the backplane assembly. Looking from the rear, the power supply is on the right.

6. Slide the locking bar to the left and lift it out. The entire backplane assembly and power supply will slide out.





Pull out with both hands

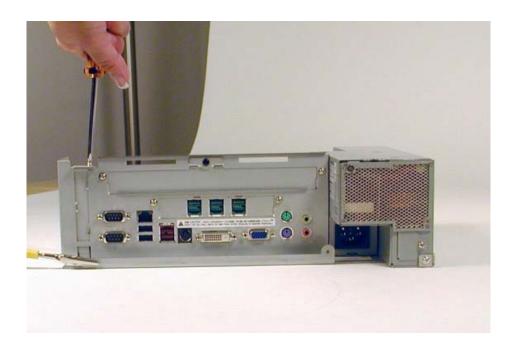
- 7. Reinstall backplane assembly and secure into place with slide bar and locking screw before reseating the motherboard.
- 8. Reinstall the motherboard (See Section 5.2).
- 9. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 10. Reinstall the back panel (See Section 5.1.2).

## 5.10. Installing PCI Add-In Card(s)

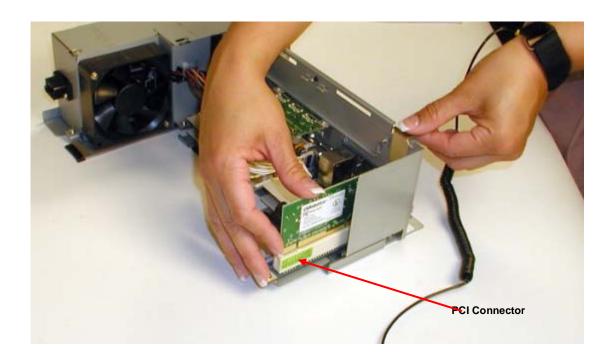


Caution: Be sure to observe all ESD precautions and power off procedures.

- 1. Remove the back panel (See section 5.1.2.).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Unseat the motherboard by pulling gently on the seating lever (See section 5.2).
- 5. Remove the backplane assembly (See Section 5.9).
- 6. Viewing the backplane assembly from the rear, there is a vertical slot on the left hand side for the ½ height PCI card. The PCI connector is located directly below this slot.
- 7. Remove the locking screw from the PCI slot filler plate. Retain the screw for anchoring the PCI card.



8. Insert the PCI card into the slot and seat firmly.



- 9. Secure PCI card with the screw that was used for the blanking plate.
- 10. Reinstall the backplane assembly and secure into place using the locking bar before reseating the motherboard.
- 11. Reinstall the motherboard (See Section 5.2).
- 12. Reinstall the front plate and reconnect the power cable (See Section 5.1.1).
- 13. Reinstall the back plate (See Section 5.1.2).

# 5.11. Installing the I/O Boards



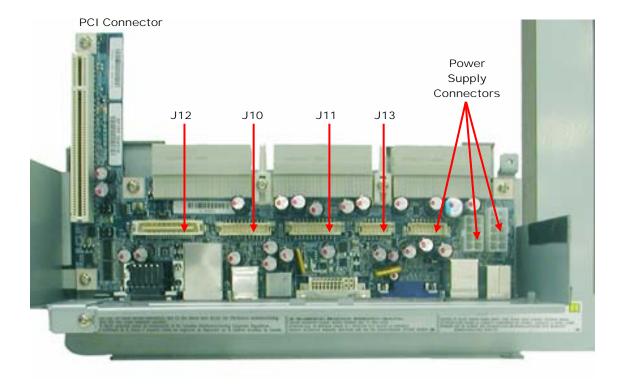
**Caution:** Be sure to observe all ESD precautions and power off procedures.

The following I/O board options are available on the TeamPoS 3000XL and XL<sup>2</sup>:

- 1. No I/O board.
- 2. Single Powered USB (one board with 3 powered USB ports).
- 3. Combo Board (The XL Combo Board has 6 powered USB ports, and 2 RS232 ports. On the XL<sup>2</sup> there are only 5 active USB ports and 2 RS232 ports).
- 4. Combo Board with COM Board (Combo board in #3 plus COM Board with 3x RS232 ports). COM board cannot be used with the XL<sup>2</sup> motherboard.

**Note:** The Combo board cannot be combined with single powered USB. The Combo board can be installed without the COM board on the TeamPoS 3000 only, but the COM board cannot be installed without the Combo board.

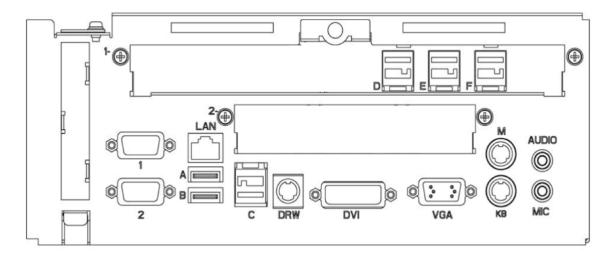
5. I/O boards are connected to the backplane assembly. Refer to the instructions that follow to identify which connectors support which I/O board.



# 5.11.1 No I/O Board

Backplane assembly will have two filler plates, a long one and a short one.

#### 5.11.2 Powered USB I/O Board





Caution: Ports designated as Port C on the backplane (24V PUSB) and Port 3 on the Combo board (24V RS232) do not meet UL limited power source (LPS) requirements. These ports are limited to only allowing 24V Retail POS RS232 or powered USB peripherals that do not exceed a rated current of 4 Amps and are provided with a Fire Enclosure, Rated Min. V-1 or Metal. Peripherals intended to be connected via - Jacketed Cable for external use rated 30 V, max 3.05m long, marked VW-1 or FT-1



**Caution:** Be sure to observe all ESD precautions and power off procedures.

The Powered USB I/O board has 3, 12V powered USB connections installed in the top slot (the long slot).

- 1. Remove the rear panel. (See Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1.).
- 4. Unseat the motherboard (See Section 5.2.).
- 5. Remove the backplane assembly (See Section 5.9.).
- 6. Remove top filler plate by first removing the retainer clip at the center of the filler plate. To do this pull outward on the black plug. Retain the retainer clip.

#### **Mounting Screws**



- 7. Remove 2 mounting screws holding the upper filler plate. Retain the screws.
- 8. Invert the USB board so that the ports face away from the backplane. Connect the white cable to J11 connector. The J11 connector is labeled. It is the second white connector from the left when looking down at the backplane from the rear.

9. Flip the USB board over, slide it into the slots at the side of the top opening and attach it with the two screws.

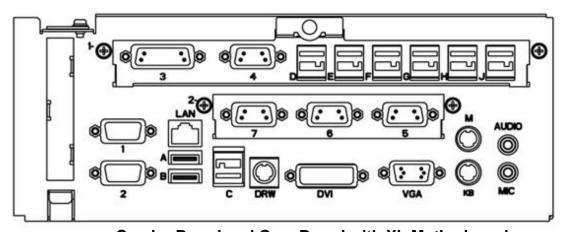


- 10. Replace the retainer clip and secure by pressing in on the black plug.
- 11. Reinstall the backplane assembly (See Section 5.9).
- 12. Reinstall the motherboard (See Section 5.2).
- 13. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 14. Reinstall the back panel (See Section 5.1.2).

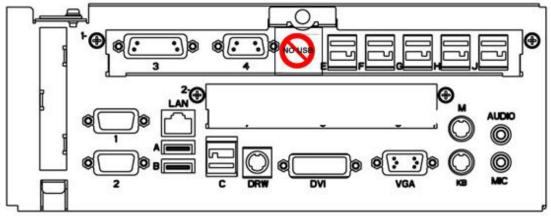
## 5.11.3 Combo Board



Caution: Be sure to observe all ESD precautions and power off procedures.



Combo Board and Com Board with XL Motherboard



Combo Board with XL<sup>2</sup> Motherboard

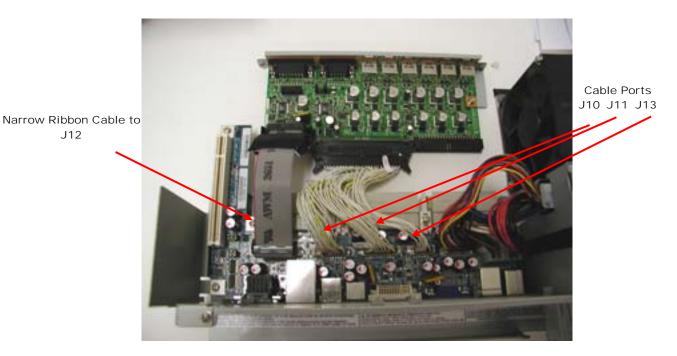


**Caution:** Ports designated as Port C on the backplane (24V PUSB) and Port 3 on the Combo board (24V RS232) do not meet UL limited power source (LPS) requirements. These ports are limited to only allowing 24V Retail POS RS232 or powered USB peripherals that do not exceed a rated current of 4 Amps and are provided with a Fire Enclosure, Rated Min. V-1 or Metal. Peripherals intended to be connected via - Jacketed Cable for external use rated 30 V, max 3.05m long, marked VW-1 or FT-1.

**Note**: When Combo Board is installed, only one 24V port should be used for 24V printer. Port 3 and Port C cannot provide 24V power to 2 printers simultaneously.

- 1. Remove the back panel (See Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED light should be off (See Section 1.2).
- 4. Unseat the motherboard (See Section 5.2).
- 5. Remove the backplane assembly (See Section 5.9).
- 6. Remove top filler plate by first removing retainer clip by pulling on the black plug at the center of the filler plate then remove the 2 mounting screws. Retain screws and clip (See Section 5.10.2).
- 7. Invert combo card so that the ports face away from the backplane. Connect the three port cables to the following ports on the backplane: J13, J11, and J10. The ports are labeled on the backplane.

8. Connect the narrow ribbon cable to port J12 on the backplane.



9. Flip combo board, slide it into the slots at the side of the top opening and attach it with the two screws.



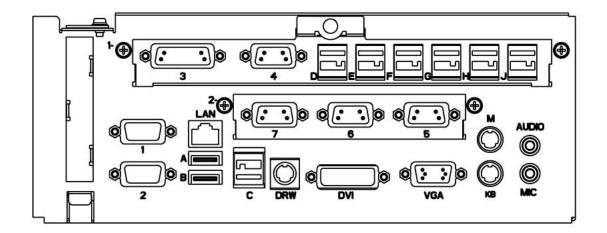
10. Reattach the retainer clip and secure by pressing in the black plug.



- 11. Reinstall the backplane assembly (See Section 5.9).
- 12. Reinstall the motherboard (See Section 5.2).
- 13. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 14. Reinstall the back panel (See Section 5.1.2).

# 5.11.4 Combo Board with COM Board (XL Motherboard only)

(XL<sup>2</sup> Motherboard does not support the COM board)





**Caution:** Ports designated as Port C on the backplane (24V PUSB) and Port 3 on the Combo board (24V RS232) do not meet UL limited power source (LPS) requirements. These ports are limited to only allowing 24V Retail POS RS232 or powered USB peripherals that do not exceed a rated current of 4 Amps and are provided with a Fire Enclosure, Rated Min. V-1 or Metal. Peripherals intended to be connected via - Jacketed Cable for external use rated 30 V, max 3.05m long, marked VW-1 or FT-1.

**Note**: When Combo Board is installed, only one 24V port should be used for 24V printer. Port 3 and Port C cannot provide 24V power to 2 printers simultaneously.

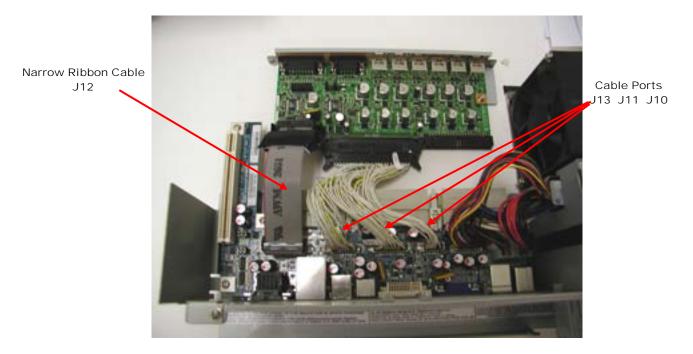
- 1. Remove the back panel. (See Section 5.1.2).
- 2. Disconnect the AC power cord from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Unseat the motherboard (See Section 5.2).
- 5. Remove the backplane assembly (See Section 5.9).

- 6. Remove top filler plate by removing the black pin and retainer clip at the center of the filler plate and unscrewing the filler plate. Retain the screws and clip.
- 7. Remove the bottom filler plate by removing the two screws.

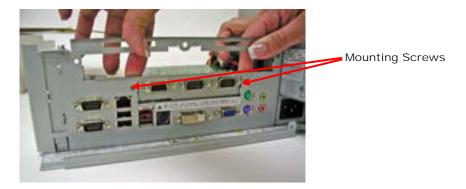


8. Invert Combo card (ports face away from the backplane). Connect the three port cables to the following ports on the backplane: J13, J11, and J10

9. Connect the narrow ribbon cable to port J12 on the backplane and to Combo card.

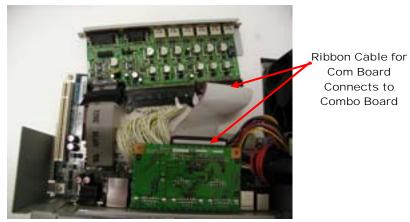


10. Attach the COM board to the bottom opening in the backplane assembly by sliding downward into notches on the chassis and secure with the 2 mounting screws.



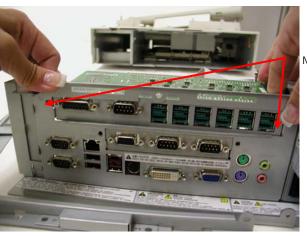
Com Board

11. Connect the wide ribbon cable on the COM board to the ribbon socket on the Combo board



12. Flip combo board and attach it to the top opening of the chassis of the backplane assembly by sliding it down into the notches on the chassis. Secure board with the 2 mounting screws.





Mounting Screws

13. Make sure that the cables do not interfere with the motherboard. Bend and fold the ribbon cables as needed to clear the motherboard.

14. Reattach the retainer clip and the black pin.



- 15. Ensure that all connectors are securely installed.
- 16. Reinstall backplane assembly (See Section 5.9).
- 17. Reinstall Motherboard (See Section 5.2).
- 18. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 19. Reinstall the back panel (See Section 5.1.2).

### 5.12. Port Labels



DVI

VGA

Keyboard

NOTE: Com Board is used only on TeamPoS 3000 XL Motherboard

24V C Dwr

**USB** 

USB

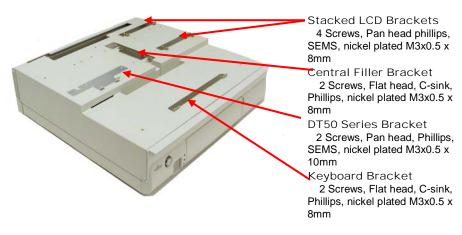
#### 5.13. Standard Bracket Locations

For stacked configurations, keyboard, printer, filler and operator display brackets are available. The brackets attach to the top of the control unit and restrain the peripherals from sliding. When installing the peripheral brackets, install each bracket using the two screws that have been provided with the bracket. For most stacked installations keyboard, printer, filler and display brackets will be required.

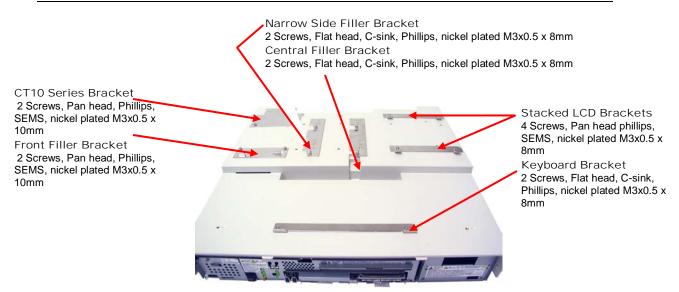
**Note:** See bracket options in Chapter 11 for part numbers. When installing, do not overtighten the screws.

Installing the brackets requires placing the bracket on the appropriate screw holes on the top of the chassis and securing with the two screws provided for each bracket. To prevent dust and moisture penetration, apply a screw-hole cover label from the provided label sheet over each screw hole on the top cover where a bracket will not be used.

The following shows peripheral bracket locations for the standard control unit. If an LCD is installed on a standard unit with a DT50 Series printer, then central filler occupies the space between them. When a CT10 printer is used, an additional two-part filler occupies the space to the right and front of the printer.



Standard Unit showing Bracket Configuration for DT50 Series

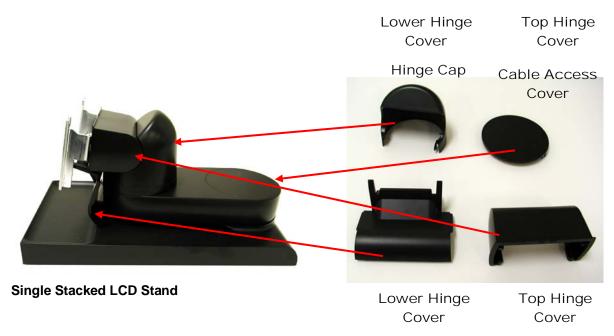


Standard Unit showing Bracket Configuration for CT10

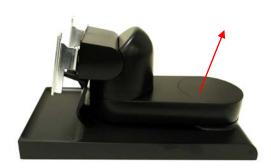
# 5.14. Installing the LCD Stands

There are four LCD stands/mounts that can be used with the TeamPoS 3000 XL: single stacked, dual stacked, single dispersed and VESA.

## 5.14.1. Single Stacked LCD Stand



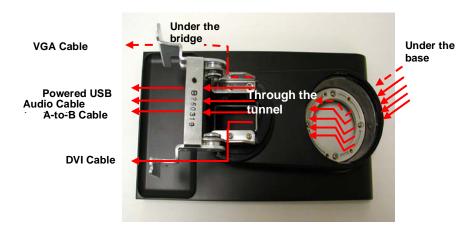
- 1. Remove only the hinge cap and cable access cover from the stand; leave the top and bottom hinge cover in place. Some photos in this section show the top and bottom hinge cover and cover removed in order to more clearly show the cable route; however, assembly is easier if the bottom hinge cover and top hinge cover are left in place.
- 2. Remove the cable access cover by pressing from the underside. The cable access cover should pop out easily.



3. To remove the hinge cap, grasp it firmly as shown in the photo and pull back using your thumbs.



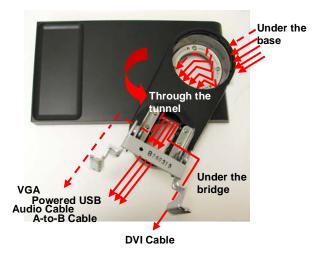
4. Thread the cables through the stand beginning with the larger cables first. Video cable (either DVI or VGA) and powered USB are required. Audio cable and A-to-B USB cable (for MSR or keypad/MSR) are optional. See cable configurations below.







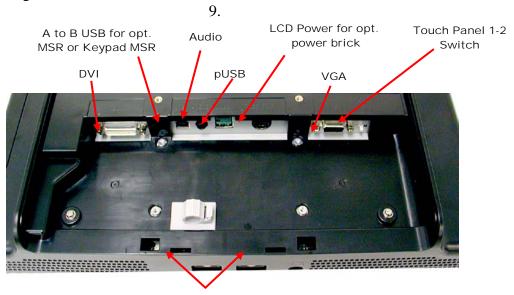
- 5. Use DVI or VGA, not both. Bend DVI (or VGA) 90° towards the outside of the bracket (before the bridge) and then 90° again towards the LCD mount. Powered USB, audio (optional), and A-to-B USB (optional) need to be threaded under the bridge.
- 6. Rotate the monitor stand as needed so that you can reach the cables as they are threaded through the stand.



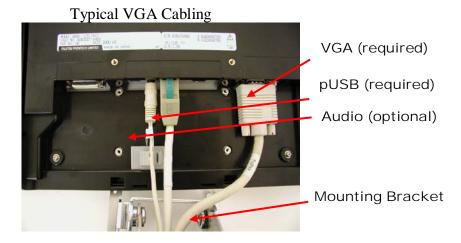
7. Place the LCD face down on a clean dry surface. Remove the back cover by pressing in where indicated by symbol. Note the screws required to attach the LCD are taped to the inside of this cover.



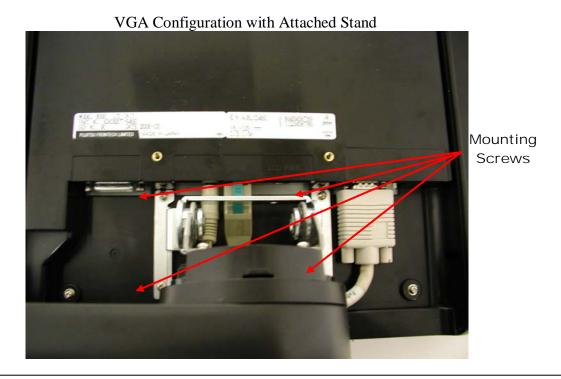
8. Attach the cables to the connectors on the LCD. Connector labels are etched into the plastic casing of the LCD monitor.



Notches for lower hinge cover



10. Attach the stand to the back of the LCD with the screws provided. Make sure that the tabs on the bottom hinge cover fit into the notches in the back of the LCD. To assure proper alignment of the LCD, attach screws "lightly" at first. Before tightening the screws make sure that the stand is slid up as far as it will go, then tighten screws.

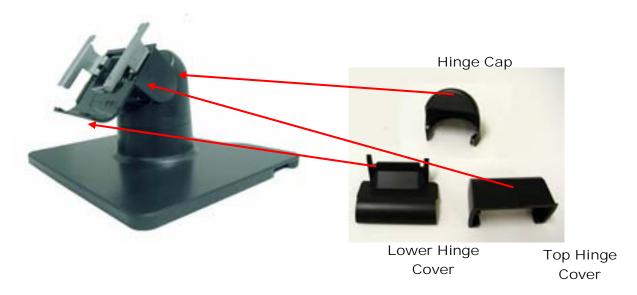


Note: The Video (VGA) cable is routed so that it comes out the *right* side of the bracket rather than at the top. Where the DVI cable is used, it is routed so that it comes out the *left* side of the bracket.

- 11. Replace the back of the monitor. The stand needs to be perpendicular to the monitor to do this. The back of the monitor must be replaced before replacing any of the other cosmetic covers. Replace cable access cover, rotating it until it is flush with the stand.
- 12. With stand facing away from you ease hinge cap into position over the hinge until it snaps in place. Make sure that the tabs on each side ease into the notches.



# 5.14.2 Single Dispersed LCD Stand



- 1. Remove only the hinge cap from the stand; leave the top and bottom hinge cover in place. Some photos in this section show the bottom hinge cover and top hinge cover removed in order to more clearly show the cable route; however, assembly is easier if the bottom hinge cover and top hinge cover are left in place.
- 2. Remove the cover plate on the bottom of stand by removing the 4 M3x 05 flathead, phillips 6mmcountersunk screws. Retain screws to reattach the cover plate after cables have been routed.



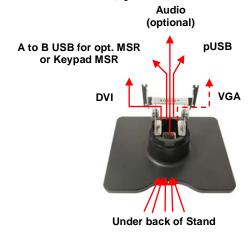
3. Thread the cables through the stand beginning with the larger cables first. Video cable (either DVI or VGA) and powered USB are required. Audio cable and A-to-B USB cable (for MSR or keypad/MSR) are optional. See cable configurations below.

DVI Cable Configuration with optional Audio Cables

Audio DVI USB



4. Use DVI or VGA, not both. Bend DVI (or VGA) 90° towards the outside of the bracket (before the bridge) and then 90° again towards the LCD mount. Powered USB, audio (optional), and A-to-B USB (optional) need to be threaded under the bridge.

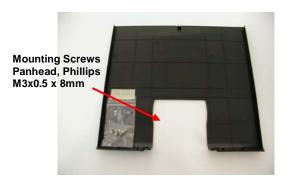


5. Place the LCD face down on a clean dry surface. Remove the back cover by pressing in where indicated by symbol. Note the screws required to attach the LCD are taped to the inside of this cover.

Back of LCD

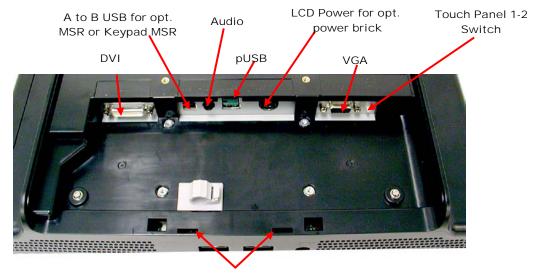


Back Cover

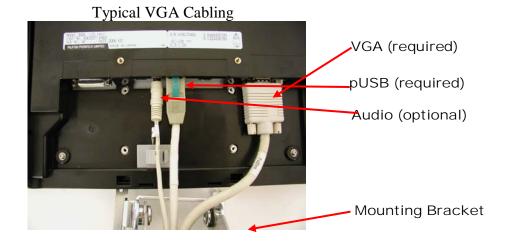


Press Here and Lift

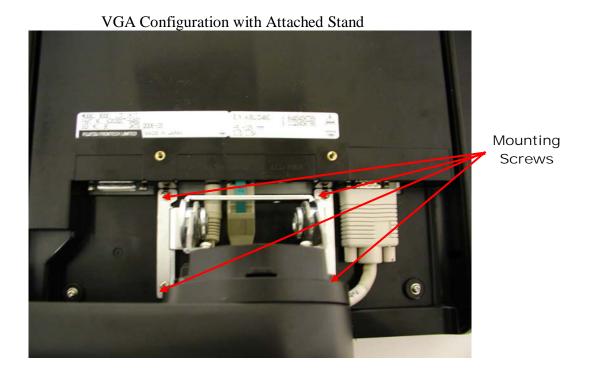
6. Attach the cables to the connectors on the LCD. Connector labels are etched into the plastic casing of the LCD monitor.



Notches for lower hinge cover



7. Attach the stand to the back of the LCD with the screws provided.

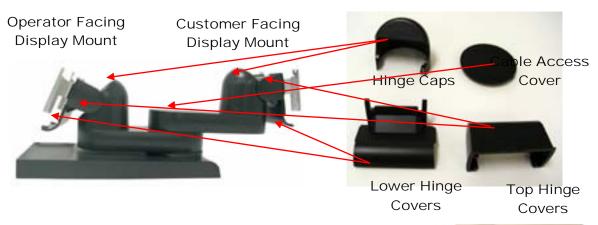


- 8. Replace the back of the monitor. The stand needs to be perpendicular to the monitor to do this. The back of the monitor must be replaced before replacing any of the other cosmetic covers. Replace circular filler, rotating it until it is flush with the stand.
- 9. With stand facing away from you ease hinge cap into position over the hinge until it snaps in place. Make sure that the tabs on each side ease into the notches.



10. Dispersed stands can be secured to the surface using brackets that come with the stand. This will prevent them sliding during operation. A template showing the placement of the brackets follows at the end of this section.

#### 5.14.3 Dual Stacked LCD Stand



- 1. Remove only the hinge caps and cable access cover from the stand; leave the top and bottom hinge covers in place.

  Some photos in this section show the bottom hinge cover and top hinge cover removed in order to more clearly show the cable route; however, assembly is easier if the bottom hinge cover and top hinge cover are left in place. To remove the hinge cap, grasp it firmly as shown in the photo and pull back using your thumbs.
- 2. Remove the cable access cover by pressing from the underside. The cable access cover should pop out easily.



3. Thread the cables through the stand beginning with the larger cables first. Two video cables must be used; a DVI and a VGA. Two powered USB cables are required, one for each arm of the stand. Audio cable and A-to-B USB cable (for MSR or keypad/MSR) are optional. See cable configurations below. Thread the cables for the operator facing display first followed by the cables for the customer facing display.

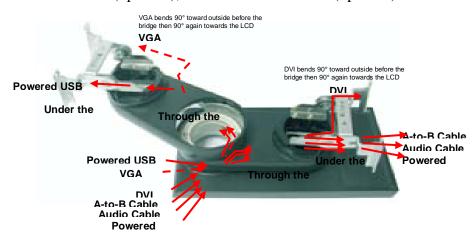
DVI Cable Configuration with optional Audio Cable





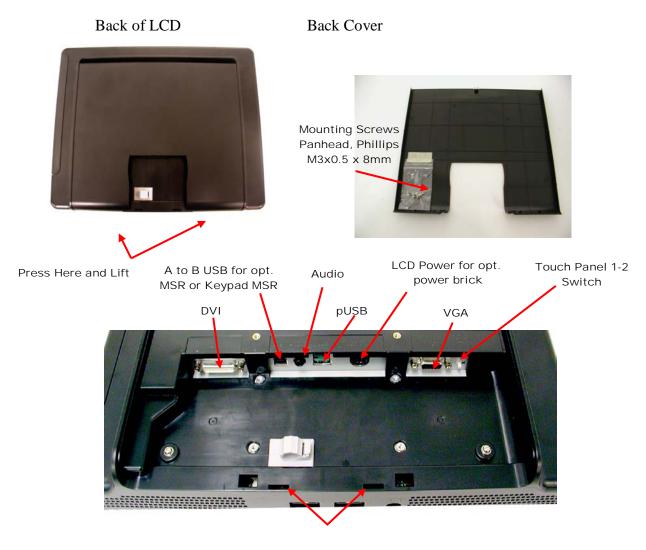
VGA Cable Configuration

4. For the operating facing display, thread the DVI (or VGA) cable through the bottom cable channel as shown below, then bend 90° towards the outside of the bracket, then 90° again towards the LCD mount. Thread the powered USB cable next followed by the audio cable (optional), and A-to-B USB cable (optional).



5. For the customer facing display, thread the VGA (or DVI) cable through the top cable channel as shown above, then bend 90° towards the outside of the bracket, then 90° again towards the LCD mount. Thread the powered USB cable next followed by the audio cable (optional), and A-to-B USB cable (optional).

6. Place the first LCD face down on a clean dry surface. Remove the back cover by pressing in where indicated by symbol. Note the screws required to attach the LCD are taped to the inside of this cover.



Notches for lower hinge cover

- 7. Attach (lightly) the operator facing arm of the stand to the back of the LCD with the screws provided pushing the LCD as far towards the connectors as it will go. Make sure that the tabs on the bottom hinge cover of the stand fit into the slots in the back of the LCD. Finish tightening the screws so they are snug.
- 8. Place the customer facing LCD flat

- 9. Place the second LCD face down on a clean dry surface. Remove the back cover by pressing in where indicated by the symbols.
- 10. Attach the cables to the connectors on the LCD. Connector labels are etched into the plastic casing of the LCD monitor.
- 11. Very loosely attach the top two screws to the back of the LCD. It may be necessary to ease the cables back into the stand
- 12. Place the dual stacked stand upright on a clean flat surface. Slide the monitor onto the customer facing mounting bracket and attach the bottom two screws. Make sure that bracket is as far up against the connectors as possible. Tighten the top two screws. Make sure that the tabs on the bottom hinge cover of the stand fit into the slots in the back of the LCD.
- 13. Replace the back of the monitor. The stand needs to be perpendicular to the monitor to do this. The back of the monitor must be replaced before replacing any of the other cosmetic covers. Replace circular filler, rotating it until it is flush with the stand.
- 14. With stand facing away from you ease hinge cap into position over the hinge until it snaps in place. Make sure that the tabs on each side ease into the notches.

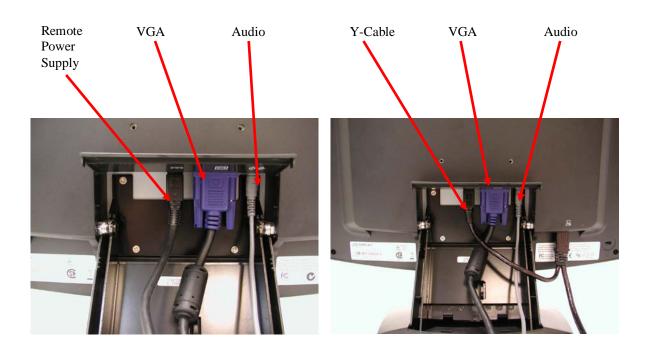


D900000145 Issue 3 5-56

#### 5.14.4 DVI15 LCD

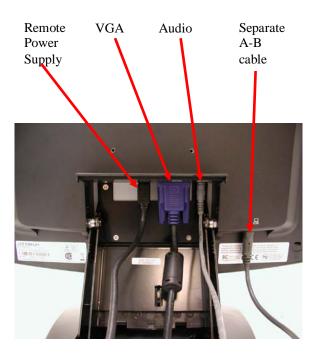
The DV15 LCD comes in two configurations, touch and non touch. Integrated stand and speakers are standard in both configurations. A VGA cable for video is also included. If mounting the LCD on a VESA mounted check stand, the integrated stand must be removed to access the VESA mounting holes. To utilize the integrated speakers, an optional audio cable is required.

The non touch version of the DV15 LCD is powered by a remote power supply. The non touch does not require a USB connection. The touch version of the DV15 requires both power and a USB connection for the touch panel. Two options are available, (1) a Y cable and (2) a remote PSU and A-B USB cable. The Y cable connects to a 12 VDC Powered USB connection on the TeamPoS terminal and the other end connects to the DV15 power port and a optional separate A-B cable connects to the TeamPoS terminal's powered or standard USB connector and the DV15's USB connector.

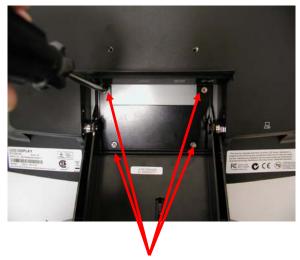


**No Touch Configuration** 

**Touch Configuration with Y-cable** 



Touch Configuration with A-B USB and Power Brick



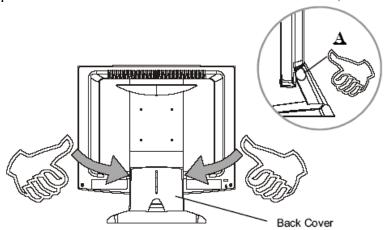
Unscrew these four screws for VESA mounting



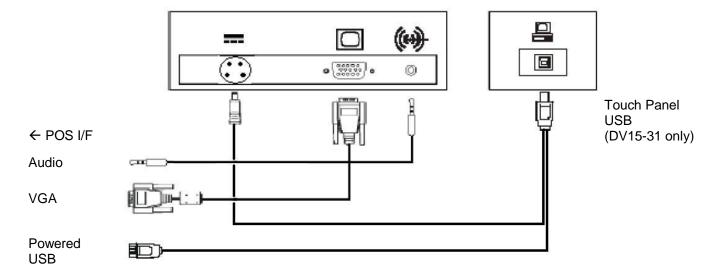
**DV15** ready for VESA mounting

## Connecting/ Forming the Cables

(1) Open the Back Cover - Press the side wall of the stand, and then remove the Back Cover.



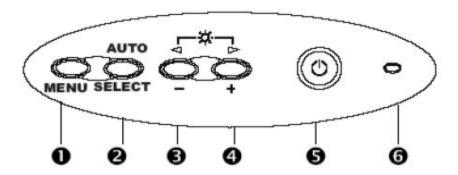
(2) Plug the audio, VGA, power, and USB(DV15-31 Touch Panel Model only) - Connect the cables to the controller as following image.



D900000145 Issue 3 5-60

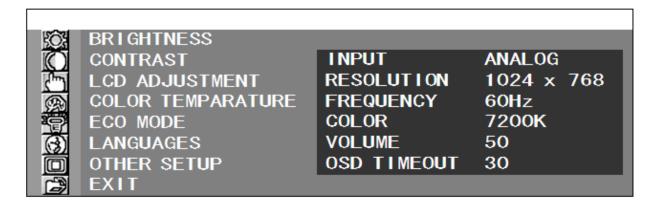
# Configuring the screen by OSD (On Screen Display) Menu

### (1) Buttons on the Front Panel



Button	Function	
	When OSD Menu off	When OSD Menu on
• MENU	Display the OSD menu (*1)	
2 AUTO/SELECT	Auto Adjust (*2)	Select a courored item
<b>❸</b> ⊲/-	Brightness Menu	Move the cursor down / Decrease the Value
● ▷/+	Mute on/off (Sound on/off)	Move the cursor upper / Increase the Value
<b>⑤ 心</b> Power	Switches on/off the power of the LCD display.	
<b>⑤</b> Power LED	Off: indicates the display is turned off.  Red: indicates the display is in power-saving mode.  Green: indicates the display is turned on. (*3)	

a. OSD Menu - The following figure is the OSD top menu.



b. Auto Adjust works properly when the screen shows color image entirely. However, for example, when the screen is black or striped texture the

function doesn't does not work properly, because it uses the signal at the edges of the screen. In case when adjusted improperly, adjust the Clock, H.Position, V.Position, or Phase from LCD Adjustment Menu in the OSD menu manually.

c. When Configuring the OSD menu, the display has to be powered on and be input valid signal, with showing Green.

## (2) Usages

#### Basic Usage

- a. Press the "MENU" button to pop up the OSD menu
- b. Choose the items by pressing the "<//--"or "▷/+"button and then press "AUTO/SELECT" button.
- c. Adjust the value of the items by pressing the " $\langle /-$ " or " $\rangle /+$ " button.
- d. Select Exit from the menu or, leave it for 30 seconds, and then the OSD menu will be closed. (Time out can be configured by OSD Time out menu.)

Disabling / Enabling OSD menu - In order to prevent unintentional manipulation, OSD Menu can be disabled.

- a. Disable the OSD menu When the OSD menu is enabled, press and hold the "
  "-"and "MENU" key simultaneously for 4 seconds, and then with showing message "OSD Locked" all front buttons. (except Power button) will be disabled.
- b. Enable the OSD menu When the OSD menu is diabled, press and hold the "
  "
   "and "MENU" key simultaneously for 4 seconds, and then with showing message "OSD Unlocked", all front buttons(except Power button) will be disabled.

D900000145 Issue 3 5-62

OSD Menu Structure - The following table shows the menu structure of the OSD menu.

Menu Level 1	Menu Level 2	Function Description			
Brightness	_	Adjusts the brightness.			
Contrast	_	Adjusts the contrast.			
LCD	Clock	Configures the width of the screen.			
Adjustment		(Minimizes any vertical bars or stripes visible on the			
		screen.)			
	Phase	When the screen blurs, adjusting Phase may solve it.			
		(Minimizes any horizontal distortion and clears or			
		sharpens the displayed characters.)			
	H. Position	Changes the horizontal position of the image.			
	V. Position	Changes the vertical position of the image.			
Color	_	Selects the desired color temperature of the image.			
Temperature		(SRGB/9300K/7200K/6500K/5000K/USER)			
ECO mode	_	Enables/disables the power savings mode. (On/Off)			
Language	_	Selects the desired language of the OSD.			
Other Setup	Smooth	Adjusts the smoothness of the image.			
	OSD H. Position	Changes the horizontal position of the OSD			
	OSD V. Position	Changes the vertical position of the OSD.			
	OSD Transparency	Changes transparency of the OSD background.			
	OSD Time out	Configures OSD menu time out.			
	Volume	Adjusts the sound volume.			
	Mode Message	Enables/disables showing display mode information.			
	Reset	Resets the display parameters back to its factory default			
		settings.			
Exit	_	Exit the OSD menu.			

### 5.15. Installing the MSR or Keypad/MSR

The following instructions show the Keypad/MSR being installed on a D22 LCD, but the process is the same for both the D22 and the D25 LCD. Installation procedures for the Keypad/MSR and MSR are identical. They both use the same connector located in the back of the LCD. Screws to attach the Keypad/MSR or MSR to the LCD are inside the LCD.

1. Place the LCD face down on a clean dry surface with the left side of the LCD facing you.



- 2. Gently press in and up on the arrow icon on the side panel and remove. Discard side panel.
- 3. Remove the tape holding the cable connector. Ease the end of the connector cable out of the side of the LCD.



4. With the Keypad/MSR facing down, remove the back cover by pushing in on the latches at the bottom and long edge then lift off the back cover. (The MSR has one latch.)



5. With Keypad/MSR face down, slide it into the side of the LCD so that the guide pins slide into the slots. Make sure that the connector cable is not pinched between the Keypad/MSR and the LCD. Fasten with screws.



6. Insert connector cable into the connector in the Keypad/MSR. The cable only fits one way and will snap into place.



- 7. Reattach rear cover of keypad/MSR. Align the top and outer edges first then ease the tabs at the lower edge inside the shell until they snap into the notches.
- 8. For keypad/MSR installation only, snap the keycaps onto the keys.



9. Be sure the A-B USB cable is connected to the back of the LCD to power the keypad/MSR. The MSR and MSR/Keypad have separate USB interfaces. AN A-BUSB cable is required to connect to the controller.

### 5.16. Installing the VF60 in Stacked Stand

Parts required for assembly of the VF60 customer display in the stacked stand:

- VF60 display (2x20)
- LCD stacked stand
- Adjustable pole
- Cosmetic collar
- Tilter unit
- Powered USB cable (pUSB)



Powered USB Cable

- 1. Place the above parts on a clean dry surface. The lens on the VF60 is fragile and can be easily scratched so leave the protective film on the VF60 display until the entire installation is complete.
- 2. Slip the cosmetic collar over the top end of the adjustable pole. Gently twist the powered USB cable connector and ground so that they are compact and will not catch on edges in the pole or tilter display.
- 3. Thread the powered USB cable through the adjustable pole and the tilter unit.



4. Remove the cosmetic back panel of the VF60 display.



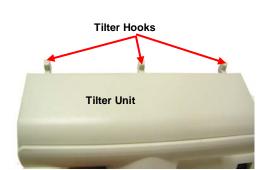
5. Connect the white USB connector (fits only one way) and attach the ground to the back of the display with the screw provided.

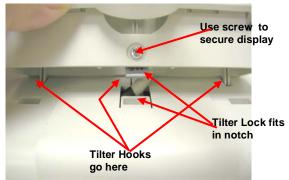


6. Reattach the cosmetic back panel of the VF60 display. Flatten the cable so that the black tape on the cable is inside the VF60.



7. Fit the hooks of the tileter mechanism into the openings in the back of the display. Align so the tilter lock fits into the notch in the back of the display and tighten the screw until it feels snug.







8. Slip the tilter mechanism into the adjustable pole until it snaps.



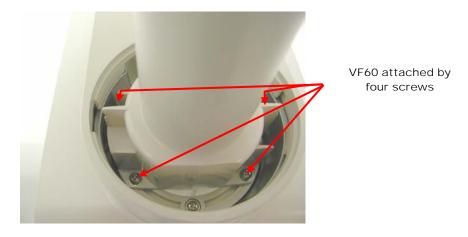
9. Adjust the pole to the desired height and tighten locking collar in a clockwise direction. To adjust the height of the pole, turn the locking collar in a counter clockwise direction to loosen, adjust the length of the pole and tighten the locking collar again.



10. Pop the circular filler out of the LCD stand and discard.



11. Thread the cable through the opening in the stand and attach the pole with the four screws provided. This will be easier to do if the cosmetic collar is taped to the pole to keep it out of the way while attaching the screws.



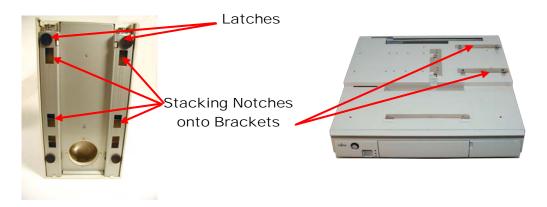
# 12. Fit the collar into place.



13. Install on TeamPoS 3000 controller (See section 5.13).

# 5.17. Stacking the LCD Monitor

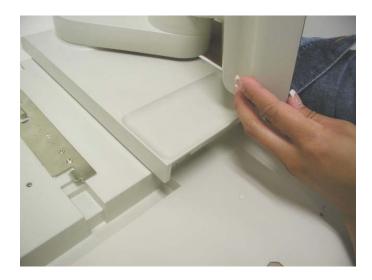
The LCD stacked monitor stand has notches in the bottom that fit over the LCD brackets attached to the top of the controller. There are also latches in the bottom of the stand that provide additional security for the stacked stand. These are held in place with locking screws.



1. Remove the cosmetic cover on the front of the stand with a small flathead screwdriver.



2. Slide display into place by setting it so that the front edge of the LCD stand extends approximately ½" over the lip in the center of the chassis with the right side aligned with the right edge of the chassis. The brackets should align with the openings in the bottom of the LCD stand. Push the stand back until the front edge of the LCD stand aligns with the edge of the lip.



3. Press back on the latches in the front of the stand to lock the LCD into place and secure with the screws



4. Put cosmetic face plate over the opening in the stand

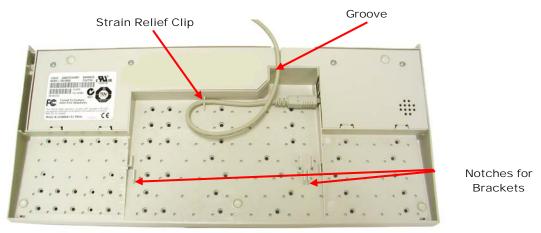


5. When removing the stand for maintenance, the screws holding the latches need to be loosened and the latches pulled forward. Finally, the entire monitor and stand need to be

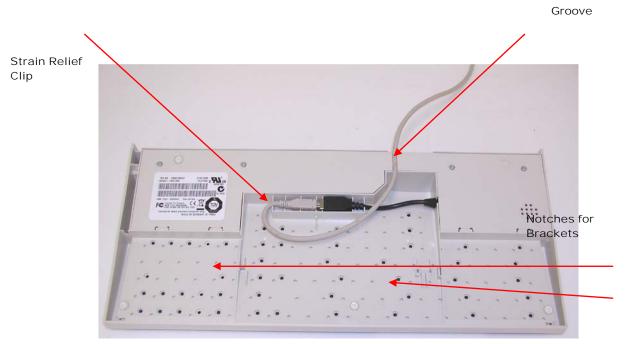
# 5.18. Installing the Central Filler and Keyboard

# 5.18.1 Installing the Keyboard

1. Insert the keyboard cable into the USB connector on the bottom of the keyboard. Run the cable through the strain relief clip, and then out the back of the keyboard through the groove.

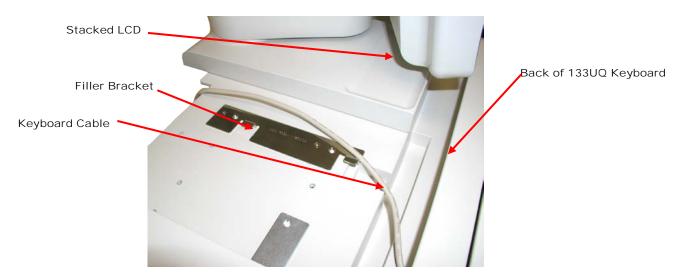


133 UQ Keyboard



133 AU Keyboard

2. Place the 133UQ or 133AU keyboard on the ledge for the keyboard,

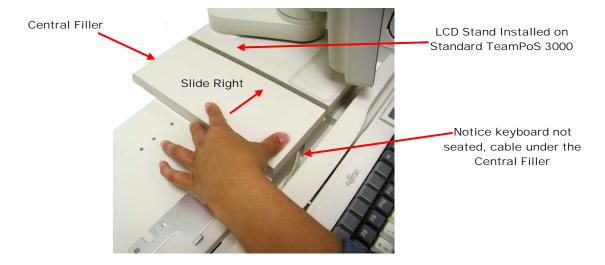


3. Run keyboard cable under the Central Filler. The keyboard cable should be positioned behind the Central Filler bracket as shown. *Do not seat the keyboard on the bracket until the LCD, filler(s) and LCD are installed.* 

# 5.18.2 Installing the Central Filler

The Central Filler is used to occupy the free space on a standard control unit with a stacked LCD (either D22 or D25) and a model DT50III printer. The cable for the keyboard is threaded through the underside of the central filler and therefore the keyboard is installed at the same time as the Central Filler.

1. Install Central Filler by placing it on the chassis with the front edge aligned with the central lip and ½" to the left of the LCD (facing the front of the unit).



2. Slide Central Filler to the right so that the front and back of the Central Filler align with the front and back of the LCD.

# 5.19. Installing the Printer I/O Board (DT50 Series only).

The DT 50 Series printer comes without the I/O board installed. The I/O Board is ordered separately and either installed at the Foothill Ranch facility or in the field.

- 1. Turn printer upside down on a clean dry surface.
- 2. Remove blanking plate for I/O port if necessary.



3. Remove cosmetic back panel if it interferes with installation.



4. Insert the I/O board (it only fits one way) and attach with screws.



5. Attach powered USB cable

### 5.20. Stacking the Printers

Both the DT50 Series and the CT-10 printers stack on the TeamPoS 3000 controller and are restrained from shifting by brackets attached to the controller. A filler is used to occupy the free space on a standard control unit with a stacked LCD (either D22 or D25) and a DT50 Series printer. The cable for the keyboard is threaded through the underside of the central filler and therefore the keyboard is installed at the same time as the central filler.

# 5.20.1. Stacking the DT50 Series Printer





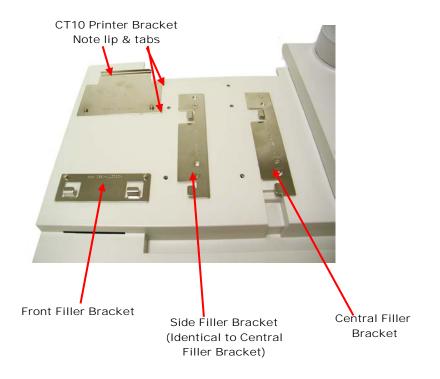


1. After installing the I/O board and the cable, the printer is ready to be stacked on the TeamPoS  $3000~\rm XL$  or  $\rm XL^2$  controller.

- 2. Place the printer approximately ½" in front of the keyboard lip with the left side aligned with the left side of the controller chassis. Push toward the rear to lock. The DT50 Series printer should fit snugly against the Central Filler and align with the outside edge of the controller.
- 3. When LCD, filler and printer have been stacked, seat keyboard so that bracket resists shifting.



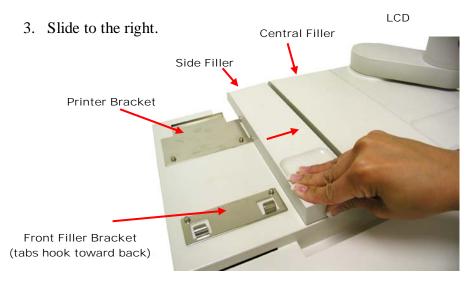
### 5.20.2. Stacking the CT10 Printer



Bottom of CT10 Printer



- 1. Install Central Filler (See Section 5.17.2)
- 2. Install narrow Side Filler by placing it on the chassis with the front edge aligned with the Central Filler and ½" to the left of the Central Filler (facing the front of the unit).



4. Slide Front Filler from back to front until it catches the bracket. If the front filler is installed properly, the front edge will align with the lip of the chassis. If there is an overhang, turn the filler around and install from the other side.



5. Set the CT10 Printer in place.



# **Chapter 6 - General Operations**

**Note:** The procedures in this chapter are intended for **store personnel**. The procedures in succeeding chapters are for **authorized service personnel only**.

### 6.1 System Operations

This section contains general and periodic care and maintenance, and power ON and OFF procedures for the TeamPoS terminals.

#### 6.1.1 General Care and Maintenance

General cleaning of the terminal, peripherals, and MSR is required on a regular basis. In particular, dust must be removed from external components, air vents, fans, and exhaust screens to allow sufficient airflow to maintain proper internal operating temperatures. Printers must also have paper dust and other foreign matter removed regularly to maintain proper printer operation. The frequency of this cleaning depends on installed environments. Lack of this cleaning will greatly reduce equipment reliability.

To achieve the maximum reliability of the MSR, cleaning with an MSR cleaner card must be performed approximately every 1,000 passes.

To keep the terminal and its peripherals in good working condition, follow the guidelines in this section.

- 1. Wipe the terminal and peripherals with a clean, soft cloth, dampened with water and mild soap. Never use abrasive pads or cleansers.
- 2. Handle the touchscreen with reasonable care when not integrated into a monitor. Do not pull or stress the cables. Clean the touchscreen with Isopropyl Alcohol 99% and lint free wipes. Always dampen the wipes and then clean the touchscreen.
- 3. Vacuum the paper wells of the receipt and journal printers to remove paper particles and dust.
- 4. Clean the MICR mechanism on the printer once a month or after every 6,000 checks.

- 5. If the keyboard or LCD has the MSR option installed, pass a magnetic stripe reader cleaner through the magnetic stripe reader to remove dust particles from the reader. The cleaner is a card covered with cloth on one side. Pass the card through the reader with the cloth side facing the MSR head. An embossed arrow on the keyboard shows where the MSR head is located.
- 6. Never remove covers from the control unit and peripherals while power is connected.
- 7. Keep the rear cover of the TeamPoS 3000 terminal installed at all times unless the terminal is being serviced. The cover protects the cable connections and ensures adequate clearance for proper ventilation.
- 8. Make sure all cable connectors are securely installed on the terminal and peripherals to prevent the cables from being accidentally pulled off. Disconnecting and connecting cables (except USB cables) to the terminal while the power is on could cause damage to the terminal and its peripherals.
- 9. Do not expose the terminal to liquids. Although the units are designed to resist liquids from entering the internal components, liquids should be kept away from the terminal.

#### 6.1.2 Power ON and OFF Sequence

This section presents the general procedures for powering the TeamPoS 3000 control unit ON and OFF. The instructions in this section assume that the terminal, operating system, and the application software have been installed. For any additional power on and off procedures dictated by the retail application, refer to the manuals provided with your PoS and application software.



Caution: With the exception of USB peripherals, never remove or connect any peripheral while power is on its port. To avoid damage to the control unit and peripherals, when connecting and disconnecting RS232 peripherals from the I/O Boards, the turn power OFF with the ports OFF switch (see Section 1.2), the TeamPoS 3000 power switch (in the front of the unit) or by disconnecting AC power.

### 6.1.3 Powering ON

- 1. Make sure all peripherals are securely connected to the control unit.
- 2. Make sure the power cord is plugged into the power source.
- 3. Lift the plastic switch cover at the front of the control unit.



- 4. Press the ON switch.
- 5. Confirm the power/battery status LED is ON and not blinking, indicating the successful completion of power-up diagnostics.

Any hardware errors detected on power up will appear on the operator display (CRT or LCD). Note that the Model VF60 two-line alphanumeric display does not display error messages.

# 6.1.4 Powering OFF

Note: Some peripherals, such as scanners and scales, may be separately powered on.

- 1. Lift the plastic switch cover.
- 2. Press the ON/OFF switch.

**Note:** Depending on BIOS setup, a momentary depression of the switch may signal the application to shut the unit down, which could take a few minutes. If power is not immediately turned off, either wait for the application to shut the unit down, or keep the switch depressed for approximately 4 seconds. For proper shutdown procedures, see the application software documentation.

# Chapter 7 - Maintenance



**Caution:** Confirm that the external power source is 100-240 VAC before starting the operation. To prevent electrical shock, confirm that the AC cable is removed from the AC outlet anytime the covers are removed. Be sure to observe all ESD precautions and power OFF procedures.

#### 7.1 Periodic Maintenance

Only trained personnel must perform the following:

Vacuum all ventilation passageways on the control unit and peripherals. Ensure that these passageways are open and free of dust and other debris that could restrict airflow. Check the Power Supply Unit fan for proper operation annually. See BIOS settings for typical fan speeds. If fan speed is approaching the low end, the fan should be replaced. Fan speeds can be found under the hardware monitoring section of the BIOS. Replace lead acid batteries every three years. If the model DT50III has the MICR option, check the function of, and clean the MICR after every 6000 checks.

#### 7.1.1 Power ON and OFF Sequence

This section presents the general procedures for powering ON and powering OFF the TeamPoS 3000 control unit. The instructions in this section assume that the terminal, operating system and the application software have been installed. For any additional power-up procedures dictated by the retail application, refer to the manuals provided with the application software.



Caution: With the exception of USB peripherals, never disconnect or connect a peripheral while power is on its port. To avoid damage to the control unit and peripherals, when connecting and disconnecting RS232 peripherals from the Boards, turn power OFF with the ports OFF switch (see section 1.2), the TeamPoS 3000 power switch in the front of the unit or by disconnecting AC power.

#### 7.1.1.1 Powering On

- 1. Make sure all peripherals are securely connected to the control unit.
- 2. Make sure the power cord is plugged into the power source.
- 3. Lift the plastic switch cover at the front of the control unit.



- 4. Press the ON switch.
- 5. Confirm the power/battery status LED is lit solid, indicating the successful completion of power-up diagnostics.

**Note:** Some peripherals, such as scanners and scales, may be separately powered. Check the peripheral manuals for instructions on powering on these peripherals.

Any hardware errors detected on power up will appear on the operator display (LCD). Note that the model VF 60 two-line alphanumeric display does not display error messages.

**Note:** Depending on setup, a momentary depression of the switch may signal the application to shut the unit down, which could take a few minutes. If power is not immediately turned off, either wait for the application to shut the unit down, or keep the switch depressed for approximately 4 seconds. For proper shutdown procedures, see the application software documentation.

# 7.1.1.2 Powering OFF

- 1. Lift the plastic switch cover.
- 2. Press the ON/OFF switch.

**Note:** For proper shutdown procedures, see the application software documentation.

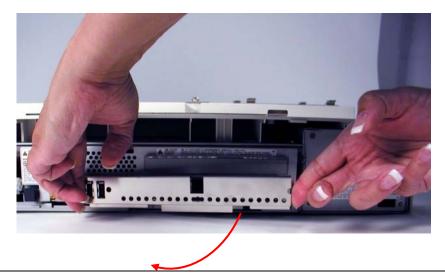
### 7.2 Replacing the Motherboard



Caution: Be sure to observe all ESD precautions and power off procedures.

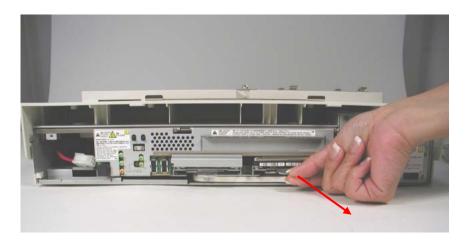
Before installing a new motherboard, ensure that the replacement motherboard jumpers have been set correctly. (See Section 7.3.1 Motherboard Settings and Section 7.3.2, Picture of Motherboard)

- 1. Remove the back panel (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Remove hard disk drive shield by pushing in on the right side and pulling off.



Note: Where more than one drive is used, notice which bay each disk drive is in. It is important for correct reinstallation of the drives.

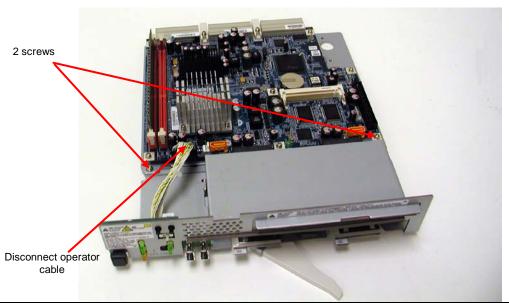
5. Remove hard disk from unit by pressing down on the metal latch (CH1 or CH2) below the hard drive and then pulling on the clear plastic tab attached to it. When the drive is new, the fit may be snug and require pulling firmly.



6. Pull on the white release lever below the motherboard assembly to unseat the board.



7. Pull the entire assembly out of the controller. Unscrew motherboard from chassis (2 screws) and disconnect the operating panel cable from the motherboard.

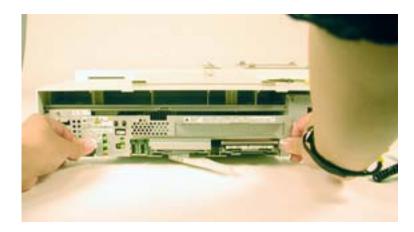


Note: Depending on your maintenance procedures, it may be necessary to remove the CPU, heat sink, memory, CD drive and/or mini-PCI card from the old motherboard and reinstall on the new motherboard. See appropriate sections of this chapter for removal and replacement instructions.

- 8. Insert the replacement board onto the chassis and secure with 2 screws.
- 9. Reconnect the operating panel cable. Reinstall any other optional hardware. See note above.
- 10. Make sure that the assembly rails line up with the rails in the chassis. Slide the motherboard assembly in with the release lever at 45° angle.



11. Push in slowly until motherboard assembly engages the lever.

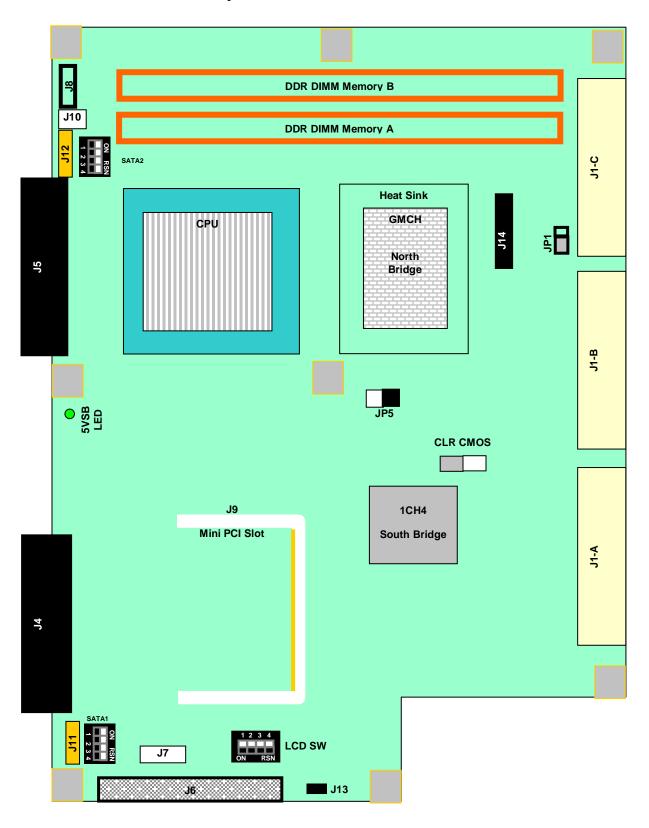


- 12. Use the lever to fully seat the motherboard assembly.
- 13. Reinstall hard disk drives. Be sure to keep them in the same bay from which they were removed.
- 14. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 15. Reinstall the back panel (See Section 5.1.2).
- 16. If this is an upgrade, install the upgrade label that comes with the upgrade kit to the side of the unit near the serial number.



Note: The system CMOS must be set after replacing the motherboard. Be sure to execute the BIOS Setup Operation on the BIOS setup screen. (For BIOS Setup Procedures please see Chapter 9 for BIOS XL motherboards and Chapter 10 for BIOS XL<sup>2</sup> motherboards.)

# 7.2.1 XL Motherboard Layout

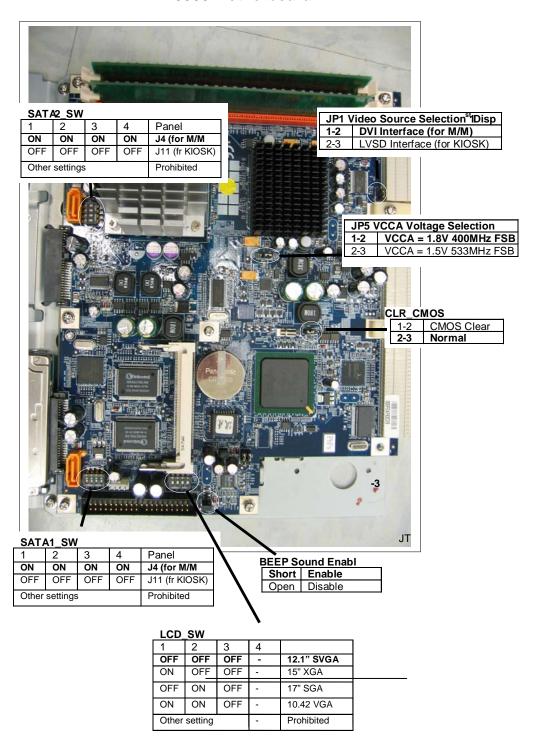


# 7.2.2 XL Motherboard Settings

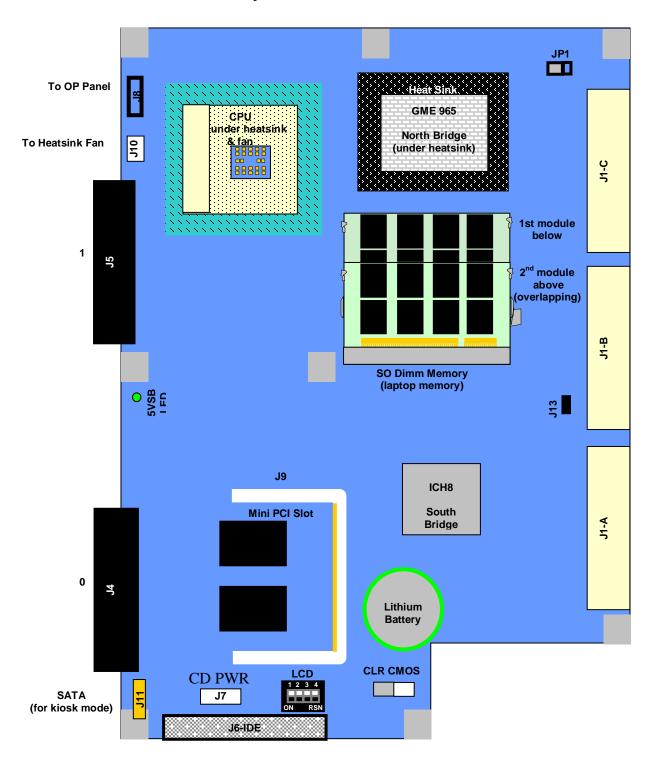
Switch and jumper settings on the TP3000 XL motherboard					
Setting Pin#	Function	Default Setting			
JP1	Video source selection of 1-2 – XL – DVI Interfact 2-3 – XT – Kiosk LVDS	1-2			
JP5	VCCA voltage selection 1-2 – only - VCCA is 1.8 2-3 – Do not use. VCCA				
J13	Beep sound enable	Short			
CLR_CMOS	CMOS Clear 1-2 - CMOS Clear 2-3 - Normal Operati	2-3			
LCD_SW	Panel selection for LVD  1 2 3 OFF OFF OFF ON OFF OFF ON ON OFF ON ON OFF Other setting  Connector selection of 1	4 — — — — — — — — — — — — — — — — — — —	Panel 12.1 inch SVGA 15 inch XGA  Reserved A HDD	1 OFF 2 OFF 3 OFF 4 OFF  1ON 2ON	
SATAI	ON ON ON OFF OFF OFF OTHER SETTING	ON OFF	J4 XL J11 XT (Kiosk) Prohibited	3ON 4ON	
SATA2	Connector selection of 2  1 2 3  ON ON ON  OFF OFF OFF  Other setting	2nd SA'  4  ON  OFF	Panel J4 XL J11 XT (KIOSK) Prohibited	1 ON 2 ON 3 ON 4 ON	

#### 7.2.3 Picture of XL Motherboard

#### **TP3000 Motherboard**



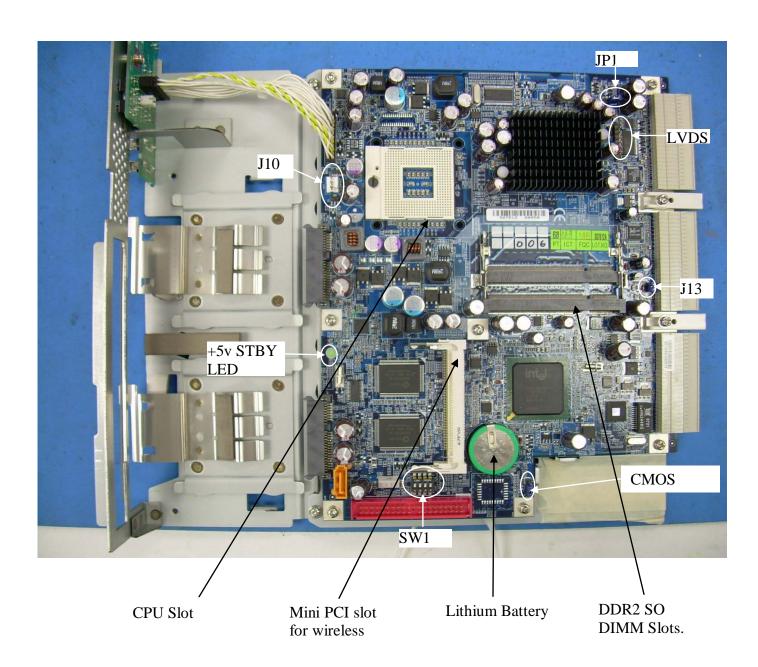
## 7.2.4 XL2 Motherboard Layout



# 7.2.5 XL2 Motherboard Settings

Switch and jumper settings on the TP3000 XL <sup>2</sup> motherboard							
Setting Pin#	Function				Default Setting		
JP1	Video source selection of 1st display 1-2 DVI Interface (for M/M) 2-3 LVDS Interface (for KIOSK)				1-2		
J13	Beep sound enable Short Beep sound enabled Open Beep0 sound disabled Short						
CLR_CMOS	CMOS Clear 1-2 CMOS Clear 2-3 Normal Operation 2-3						
	Panel selection for LVDS panel						
	1	2	3	4	Panel		1 OFF
LCD_SW	OFF	OFF	OFF	—	12.1 inch SVGA		2 OFF
	ON	OFF	OFF	_	15 inch XGA		3 OFF
	OFF	ON	OFF	-			4 OFF
	ON	ON	OFF	-			
	Other setting				Reserved		

#### 7.2.6 Photo of XL2 Motherboard



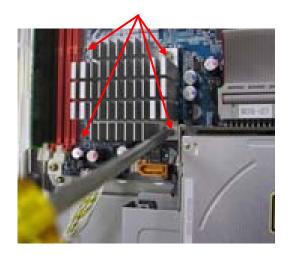
#### 7.3 Replacing the CPU and Heat Sink

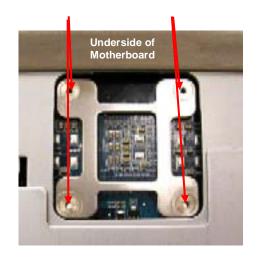


**Caution:** Be sure to observe all ESD precautions and power off procedures.

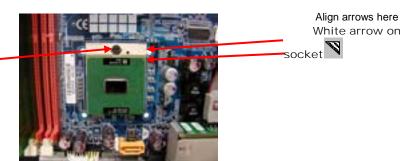
The heat sink and CPU are installed on the front of the motherboard (viewed from the front of the unit) just to the right of the memory. Both parts come in the same kit.

- 1. Remove the back panel (See section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Remove the motherboard assembly (See Section 5.2).
- 5. Remove the heat sink by loosening the 4 spring-loaded screws that attach it to the motherboard. There is a mounting bracket on the bottom of the motherboard. Leave this bracket in place. If the motherboard is moved, the mounting bracket may drop out of place. Be sure to hold on to the bracket to keep it in place when reinstalling the heat-sink..



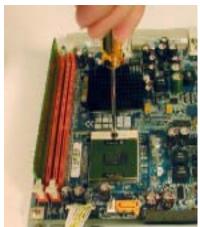


6. Open the CPU lock by turning ¼ turn counterclockwise. Lock 🖨 and Unlocked 🗂 icons are imprinted in the CPU mount as a reminder. Remove the CPU chip.



CPU Lock:
Unlock-1/4 turn counter-clockwise
Lock-1/4 turn clockwise

- 7. Place the new CPU on the CPU socket aligning the gold arrow on the corner of the chip with the white arrow etched on the corner of the socket.
- 8. Using a small flathead screwdriver, rotate the lock 1/4 turn clockwise to the lock position.
- 9. Spread a thin layer of heat sink compound over the CPU core before reinstalling the heat sink. The compound should be used only in the center core of the CPU (Only if reusing existing heat sink. If new heat sink is installed this is not necessary).



10. Place the heat sink over the CPU with fins aligned front to back and secure the heat sink with the four screws attached to it. Grip the heat sink bracket to hold it in place while the spring-mounted screws are tightened.



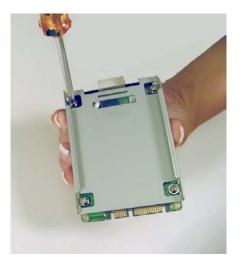
- 11. Reinstall the motherboard and reconnect the power cable (See Section 7.2).
- 12. Reinstall the front panel (See Section 5.1.1).
- 13. Reinstall the back panel (See Section 5.1.2).
- 14. If this is an upgrade, install the upgrade label that comes with the upgrade kit to the side of the unit near the serial number (See Section 7.2).

#### 7.4 Replacing the Hard Disk Drives



**Caution:** Be sure to observe all ESD precautions and power off procedures.

- 1. Remove the front panel (See Section 5.1.1).
- 2. Remove existing hard drive from motherboard by pressing down on the metal tab (below the hard drive bracket near the left side) and pulling on the transparent pull tab.
- 3. If the new drive does not come with the bracket, remove the 4 screws for disk drive and then install the new drive.



4. While holding down the metal tab, slide the new hard disk drive or hard drive filler into the bay making sure that the runners align with the guides.



- 5. Press firmly to make the connection.
- 6. Reinstall the front panel (See Section 5.1.1).
- 7. If this is an upgrade, install the upgrade label that comes with the upgrade kit to the side of the unit near the serial number. (See Section 7.2).

#### 7.5 Adding or Replacing Memory



Caution: Be sure to observe all ESD precautions and power off procedures.

#### 7.5.1 Adding or Replacing XL Motherboard Memory

The TeamPoS 3000 XL Motherboard has two memory sockets or slots and can use 256MB, 512MB or 1GB DDR memory in combination.

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1), and the yellow LED should be off. (See Section 1.2).
- 4. Remove the motherboard assembly (See Section 5.2).

5. Remove memory by pressing down on the white locking levers at the side of each socket.



- 6. Insert memory (or additional memory) into an empty socket. (There is only one way the memory stick will fit.)
- 7. Check to make sure that both levers for the socket are locked into place.



8. If this is an upgrade, install the upgrade label that comes with the upgrade kit to the side of the unit near the serial number. (See Section 7.2).



#### 7.5.2 Adding or Replacing XL2 Motherboard Memory



**Caution:** Be sure to observe all ESD precautions and power off procedures.

The TeamPoS 3000 XL² Motherboard has two memory sockets or slots and can use 512MB, 1GB or 2GB SO-DIMM memory in different combinations.

- 1. Remove the rear panel, (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Remove the motherboard assembly (See Section 5.2).

5. Remove old memory by pulling outward on the small metal latches at the side of the stick as shown in the photo below. The memory stick will pop up and can be removed.



- 6. Insert upgraded memory (or additional memory) into the bottom socket first. (There is only one way the memory stick will fit.) Angle the stick approximately 30° pressing to the left to make sure the stick is properly seated. Then press down slightly on the edge of the stick to make sure the memory is properly seated.
- 7. The release latch for the memory stick will snap into place when the stick is properly seated.

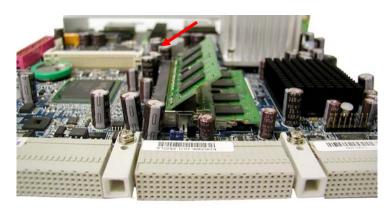
8. If two memory sticks are being replaced, insert the 2nd stick in the top slot following the same procedure as for the first.

# XL<sup>2</sup> Motherboard w/o memory sticks XL<sup>2</sup> Motherboard w/1 memory stick in place





 ${\rm XL}^2{\rm Motherboard}$  w/one memory stick completely installed with the  $2^{\rm nd}$  stick ready to snap into place.



- 9. Reinstall the motherboard (See Section 5.2).
- 10. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 11. Reinstall the back panel (See Section 5.1.2).

12. If this is an upgrade, install the upgrade label that comes with the upgrade kit on the side of the unit near the serial number.



### 7.6 Replacing the CD/DVD Drive

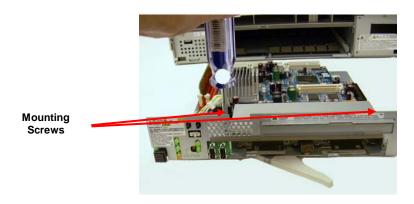


Caution: Be sure to observe all ESD precautions and power off procedures.

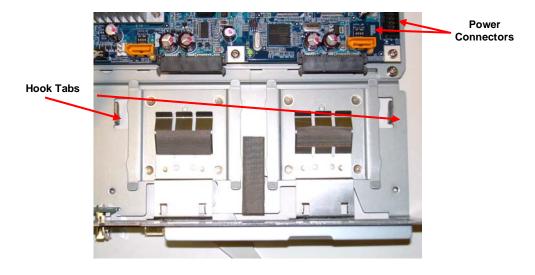
The CD/DVD drive rides on top of the motherboard assembly and requires a narrow Phillipshead screwdriver to install. The CD/DVD drive kit comes with the white bezel installed on the DVD. For black units, the white bezel needs to be removed and the black bezel installed.

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Remove motherboard assembly by pulling outwards on the seating lever to unseat the motherboard. Then pull the motherboard entirely out of the chassis (See Section 5.2).
- 5. Disconnect the CD/DVD drive ribbon cable and the white power cable from the motherboard.

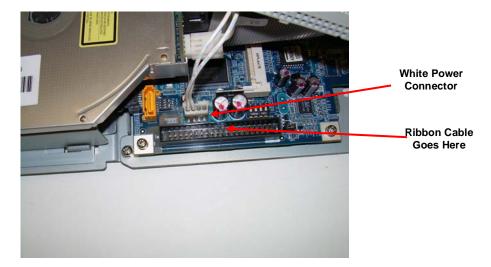
6. Remove the metal mount with the old CD/DVD drive attached by unscrewing the 2 screws holding it in place. Retain the screws.



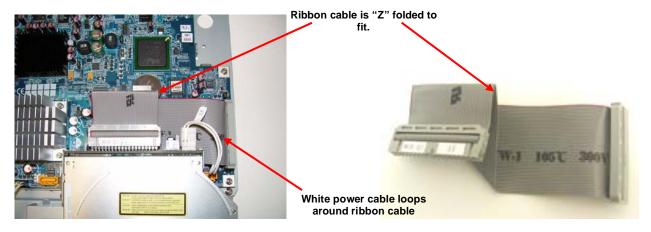
7. The replacement CD/DVD drive comes already mounted onto a bracket. Align the slots in the mounting bracket so that they pass over the hook tabs on the chassis. Slide the CD/DVD drive forward so that it fits into the opening in the chassis and that the holes in the bracket are aligned with the holes in the same chassis. Attach the bracket to the chassis with the two screws retained in #5 above.



8. The power cable and ribbon cable come attached to the back of the CD/DVD drive. Attach the other end of the white power cable to the motherboard as shown in the photo.



9. Attach the ribbon cable to the motherboard. The white power cable needs to loop around the ribbon cable as shown in the photo below.



- 10. Reinstall the motherboard (See Section 5.2.). Make sure the cables are clear of any obstruction.
- 11. Reinstall front panel and reconnect the power cable (See Section 5.1.1).

12. Reinstall the back panel (See Section 5.1.2).



13. If this is an upgrade, install the upgrade label that comes with the upgrade kit to the side of the unit near the serial number. (See Section 7.2).

### 7.7 Replacing Battery Backup

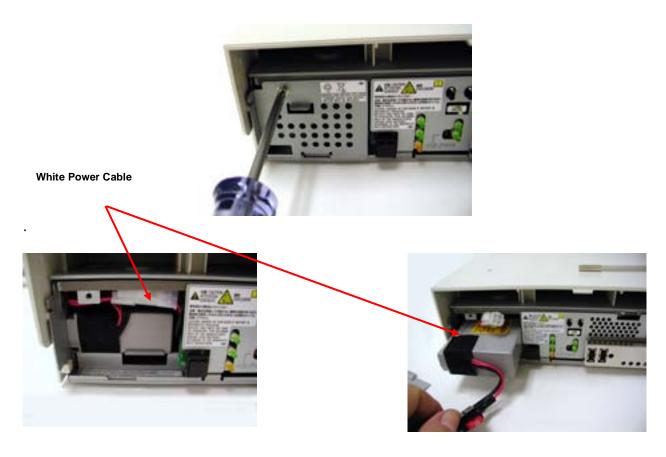


Caution: Be sure to observe all ESD precautions and power off procedures.

The partial backup battery is located on the front of the TeamPoS 3000XL on the left.

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off. (See Section 1.2).
- 4. Snap off the protective front metal covering.

5. Disconnect the white power cable for the battery and remove the old battery.



6. Insert the new battery and connect the white connector attached to the battery to the white power cable in the controller. Tuck the cables out of the way - on top of the battery.





- 7. Attach the protective front cover with retained screws.
- 8. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 9. Reinstall the back panel (See Section 5.1.2).
- 10. If this is an upgrade, install the upgrade label that comes with the upgrade kit to the side of the unit near the serial number. (See Section 7.2).

#### 7.8 Removing the backplane assembly



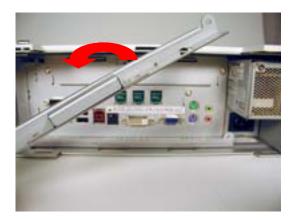
**Caution:** Be sure to observe all ESD precautions and power off procedures.

Looking from the rear, the power supply is on the right.

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Unseat the motherboard assembly (See Section 5.2)
- 5. At the rear, remove the locking screw on the right hand side of the backplane assembly.

6. Slide the locking bar to the left and lift it out. The entire backplane assembly and power supply will slide out.







- 7. The backplane assembly contains the power supply and I/O boards.
- 8. Reinstall the back plane assembly and lock into place before reseating the motherboard.
- 9. Reinstall the motherboard (See Section 5.2).
- 10. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 11. Reinstall the back panel (See Section 5.1.2).

#### 7.9 Replacing I/O boards



Caution: Be sure to observe all ESD precautions and power off procedures.

The following I/O board options are available on the TeamPoS 3000 XL and XL<sup>2</sup>:

No I/O board.

Powered USB (One board with 3 powered USB ports).

Combo Board (One board with 6 powered USB ports, the Yosemite motherboard has only 5 powered USB ports, 1 RS 232 male and 1 15-pin).

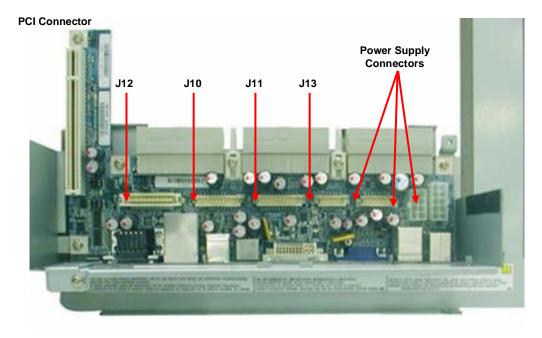
Combo Board with COM Board (Combo board as shown above plus COM Board ports of 3 RS232, 2 male and 1 female) (M motherboard only).

Note: Combo board cannot be combined with single powered USB. The Combo board can be purchased without the COM board, but the COM board cannot be purchased without the Combo board.

Note: The powered USB board cannot be combined with the COM or the Combo board.

Note: The XL<sup>2</sup> board does not support the COM board option.

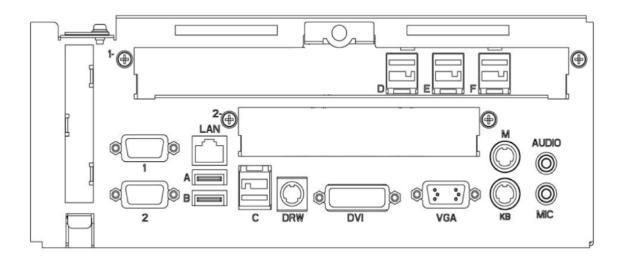
 ${\rm I/O}$  boards are connected to the backplane assembly. Refer to the instructions which follow to identify which connectors support which  ${\rm I/O}$  board.



### 7.9.1 No I/O Board

Backplane assembly will have two filler plates, a long one and a short one.

#### 7.9.2 Powered USB I/O Board





Caution: Ports designated as Port C on the backplane (24V PUSB) and Port 3 on the Combo board (24V RS232) do not meet UL limited power source (LPS) requirements. These ports are limited to only allowing 24V Retail POS RS232 or powered USB peripherals that do not exceed a rated current of 4 Amps. Peripherals intended to be connected via - Jacketed Cable for external use rated 30 V, max 3.05m long, marked VW-1 or FT-1



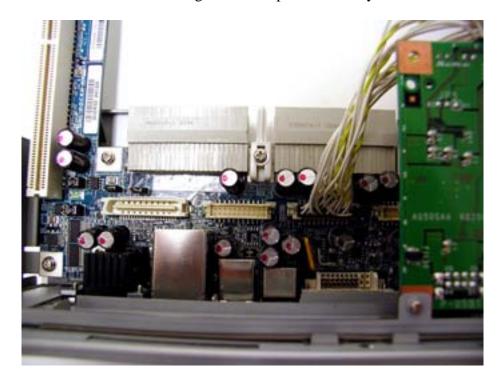
Caution: Be sure to observe all ESD precautions and power off procedures.

The Powered USB I/O board has 3, 12V powered USB connections, which are installed in the top slot of the backplane assembly and cannot be used in combination with any of the other I/O boards. A blanking plate fills in the short slot.

- 1. Remove the back panel (See Section 5.1.2).
- 2. Disconnect the power cable from the back of the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Unseat the motherboard (See Section 7.2).
- 5. Remove the backplane assembly (See Section 7.8).
- 6. Remove top filler plate by pulling out on the retainer clip in the center of the filler plate.



- 7. Remove 2 mounting screws holding the upper filler plate. Retain screws and retainer clip.
- 8. Connect the USB board into connector J11. The connector is labeled; it is the second white connector from the left when looking at the backplane assembly from the rear.



9. Slide the USB board into the slots and attach it with the two screws.



10. Replace the locking bracket with the plug.



- 11. Reinstall the back plane assembly (See Section 7.8).
- 12. Reinstall the motherboard (See Section 7.2).
- 13. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 14. Reinstall the back panel (See Section 5.1.2).

## 7.9.2.1 USB Board Jumper Settings



JP3, 4 & 5 Power Source		
1-2	+5V	
2-3	+5VSB (Standby	
	power always on.	

Powered Retail USB connector (12VDC)

Pin#	DC-Out Mo	de
1	5VDC USB Power	
2	Data -	Std. USB
3	Data +	Signals
4	Ground	
5	12 VDC PIN Power	
6	12 VDC PIN Power	12 VDC
7	12 VDC PIN Power	Power
8	12 VDC PIN Power	

Note: The powered USB connector will also accommodate a standard USB connector, which end

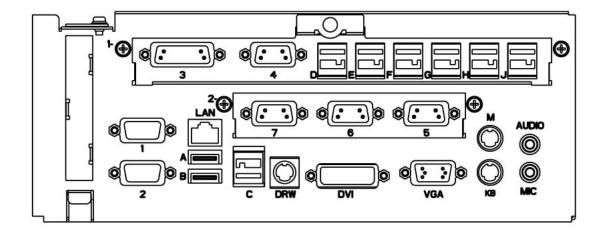
#### 7.9.3 Combo Board

Combo cards provide support for both USB and legacy devices. The Combo card can be used by itself or with the COM card in the XL model only. It contains six +12V powered USB ports, a DB9 - RS232 port (COM 4), and a DB15 connector for a +24V powered printer (COM 3).



Caution: Be sure to observe all ESD precautions and power off procedures.

The first diagram below shows a XL Motherboard with the Combo Board and a COM Board installed beneath it. The Combo Board can be installed by itself or with the COM card.

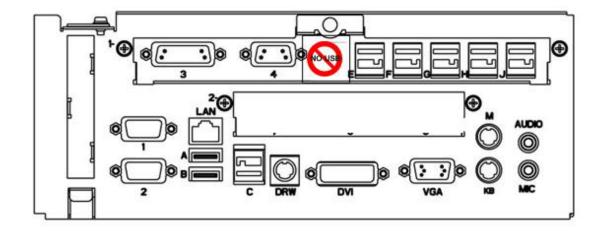




Caution: Ports designated as Port C on the backplane (24V PUSB) and Port 3 on the Combo board (24V RS232) do not meet UL limited power source (LPS) requirements. These ports are limited to only allowing 24V Retail POS RS232 or powered USB peripherals that do not exceed a rated current of 4 Amps. Peripherals intended to be connected via - Jacketed Cable for external use rated 30 V, max 3.05m long, marked VW-1 or FT-1.

Note: When the Combo Board is installed, only one 24V port should be used for 24V printer. Port 3 and Port C cannot provide 24V power to 2 printers simultaneously.

This second diagram shows a Backplane Assembly with the Combo Board and a blanking plate installed beneath it. XL<sup>2</sup> Motherboard DOES NOT SUPPORT the COM Board but DOES SUPPORT a single USB Board, or a single combo board.



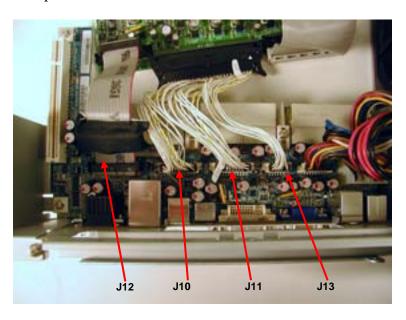


Caution: Ports designated as Port C on the backplane (24V PUSB) and Port 3 on the Combo board (24V RS232) do not meet UL limited power source (LPS) requirements. These ports are limited to only allowing 24V Retail POS RS232 or powered USB peripherals that do not exceed a rated current of 4 Amps. Peripherals intended to be connected via - Jacketed Cable for external use rated 30 V, max 3.05m long, marked VW-1 or FT-1.

Note: When the Combo Board is installed, only one 24V port should be used for 24V printer. Port 3 and Port C cannot provide 24V power to 2 printers simultaneously.

#### 7.9.3.1 Combo Board Installation

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the power cable from the back of the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 4. Unseat the motherboard (See Section 5.2).
- 5. Remove the backplane assembly (See Section 7.8).
- 6. Remove top filler plate by removing the black pin and retainer clip at the center of the filler plate and 2 mounting screws, retain screws and pin (See Section 7.10.2).
- 7. Invert combo card (ports facing away from the backplane). Connect the three port cables to the following ports on the backplane: J13, J11, and J10. Connect the narrow ribbon cable to port J12 on the backplane and to the Combo board.



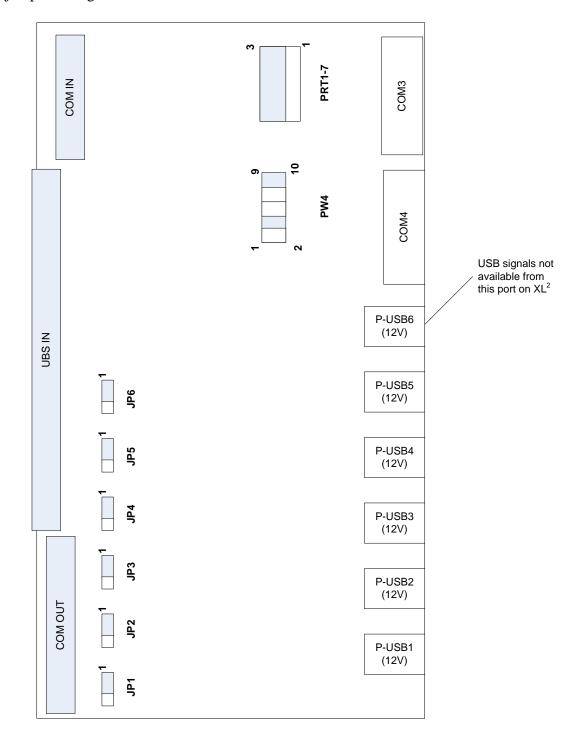
8. Flip the Combo board and attach it to the top opening of the chassis by sliding it down into position. Secure board with the 2 mounting screws. Reattach the retainer clip and the black pin.



- 9. Reinstall the backplane assembly (See Section 7.8).
- 10. Reinstall the motherboard (See Section 7.2).
- 11. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 12. Reinstall the back panel (See Section 5.1.2).

## 7.9.3.2 Combo Board Diagram

The following illustration shows the TeamPoS 3000  $\rm XL$  and  $\rm XL^2$  Combo Board and the coinciding jumper configurations.



#### 7.9.3.3 Combo Board Jumper Settings

The jumper block with 7 connectors (PRT1-7) and the right most of the two jumper blocks (PW4) define the printer type to be used on COM3. The default for this jumper block is the Fujitsu DT50 and CT10 printers. The default mode is with all 7 jumpers toward the wire harness. Also with having the 7 jumpers towards the wire harness connectors they will support ESC POS printers. The jumper settings are shown below.

Jumper	Description		Default			
- vamper	Power source selection for USB	connector 1	Boladie			
JP1	1-2 Normal +5V	connector 1	1-2			
<b>31</b> 1	2-3 Standby +5V	1 2				
	Power source selection for USB	connector 2				
JP2	1-2 Normal +5V	1-2				
31 2	2-3 Standby +5V	1 2				
	Power source selection for USB	connector 3				
JP3	1-2 Normal +5V	1-2				
31 3	2-3 Standby +5V	1-2				
	Power source selection for USB					
JP4	1-2 Normal +5V	Comicetor	1-2			
<b>31</b> 1	2-3 Standby +5V		1 2			
		Power source selection for USB connector 5				
JP5	1-2 Normal +5V	00111100101	1-2			
	2-3 Standby +5V					
	Power source selection for USB connector 6					
JP6	1-2 Normal +5V	1-2				
	2-3 Standby +5V					
	COM 4 Signal selection for D-S	Sub 9 connector				
	1-2 RI		1-2 Open			
DIVIA	3-4 +5V	3-4 Short				
PW4	5-6 Do not use		5-6 Open			
	7-8 DCD		7-8 Open			
	9-10 N.C.		9-10 Short			
	COM 3					
PRT1-7	DT50 Series & TPG Printers	Fujitsu (Asia)				
	2-3	1-2	2-3			
	5-6	4-5	5-6			
	8-9	7-8	8-9			
	11-12	10-11	11-12			
	14-15	13-14	14-15			
	17-18	16-17	17-18			
	20-21	19-20	20-21			

## 7.9.3.4 Combo Board (picture)

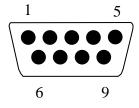


Combo Board

## 7.9.3.5 Combo Board COM 4 Port Connector Signals

Connector type: Male DB9, (RS-232 port)

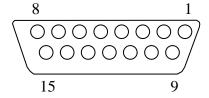
Pin	COM 4 Pinouts		
Number	Default Bold		
1	Data Carrier Detect (DCD) = 7-8		
	NC = 9-10		
2	RX		
3	TX		
4	DTR		
5	Ground		
6	DSR		
7	RTS		
8	CTS		
9	RI= 1-2		
	+5V= <b>3-4</b> *PIN 9 is determined by the jumpers set on PW4.		
	+12V = 5-6		



## 7.9.3.6 Printer (PTR) Connector signals

Connector type: Female D15

Pin #	Signal
	ESC/PoS Mode
1	GND
2	RX
3	TX
4	CTS
5	DSR
6	CD
7	SG
8	+24V RET
9	RI
10	+5V
11	DTR
12	RTS
13	GND
14	+24V
15	+24V

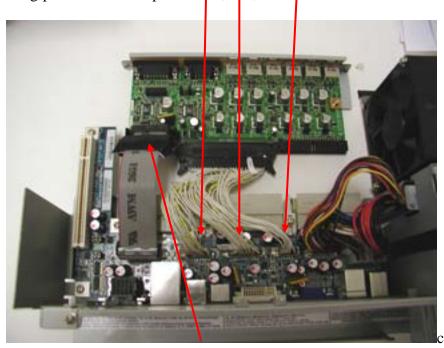


#### 7.9.4 Combo Board with COM Board (XL Motherboard only)

- 1. Remove the rear panel (See Section 5.1.2).
- 2. Disconnect the power cord from the back of the controller.
- 3. Remove the front Panel (See Section 5.1.1), and the yellow LED light will be off (See Section 1.2).
- 4. Unseat the motherboard.
- 5. Remove the backplane assembly (See Section 7.8).
- 6. Remove the old Combo board by removing the black pin and retainer clip at the center of the Combo board and removing the screws (retain screws, black pin and clip).
- 7. Remove the old COM board by removing the two screws

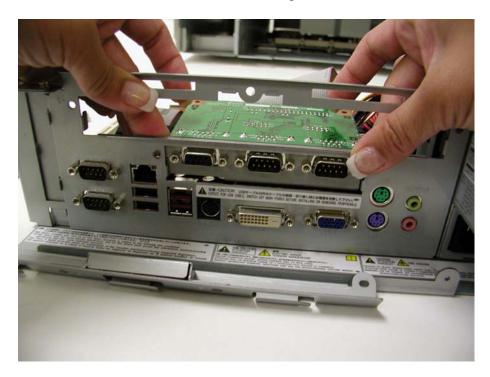


8. Invert Combo board (ports face away from the backplane). Connect the three port cables to the following ports on the backplane: J10, J11, and J13. The connectors are labeled.



- 9. Connect the narrow ribbon cable to port J12 on the backplane and to Combo card.
- 10. Connect the wide ribbon cable on the COM board to the COM-Out connector on the Combo board

11. Attach the COM board to the bottom opening in the backplane assembly by sliding downward into the chassis and secure with the 2 mounting screws.



12. Flip combo board and attach the combo board to the top opening of the chassis of the backplane assembly by sliding it down to position. Secure board with the 2 mounting screws.





13. Reattach the retainer clip and the black pin.



- 14. Insert the backplane assembly into the chassis making sure to align the edges of the backplane assembly with the slots in the chassis. Push in firmly until notches in chassis for locking bar show.
- 15. Replace the locking bar before reseating the motherboard.
- 16. Reinstall the motherboard (See Section 5.2).
- 17. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 18. Reinstall the back panel (See Section 5.1.2).

## 7.9.4.1 COM Board Connectors (XL Motherboard only)

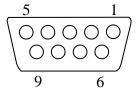


COM Card XL Motherboard Only

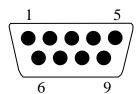
COM Port Pinouts (XL Motherboard only)

Pin	COM 7	COM 6	COM 5
Number	Female Connector	Male connector	Male Connector
1	Ground	Data Carrier Detect	Data Carrier Detect
		(DCD)	(DCD)
2	RX	RX	RX
3	TX	TX	TX
4	24V	DTR	DTR
5	Ground	Ground	Ground
6	+5V	DSR	DSR
7	RTS	RTS	RTS
8	CTS	CTS	CTS
9	Ground	RI or +5V depending	RI or +5V depending
		upon jumper on PW2	upon jumper on PW1

Female Connector D9



Male Connector D9



## 7.9.4.2 COM Board Jumpers



PW2 COM6		
1-2	RI	
3-4	+5VSB	
5-6	Do not use	
7-8	DCD	
9-10	NC	

PW1 COM5		
1-2	RI	
3-4	+5VSB	
5-6	Do not use	
7-8	DCD	
9-10	NC	



Caution: Only one position of the first two options must be selected (RI, or +5VSB) Pins 2, 4, and 6 of PW1 / PW2 are tied together and only one source must be used.

#### 7.10 Replacing PCI Add-In Card(s)



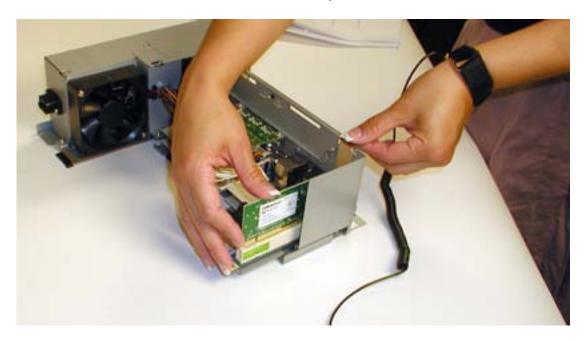
**Caution:** Be sure to observe all ESD precautions and power off procedures.

Viewing the back plane assembly from the rear, there is a vertical slot on the left side for the ½ height PCI card. The TP3K XL does not support full size PCI cards. The connector for the PCI is located directly below this slot.

- 1. Remove the back panel (See Section 5.1.2).
- 2. Disconnect power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED light should be off (See Section 1.2).
- 4. Unseat the motherboard.
- 5. Remove the backplane assembly (See Section 7.8).
- 6. Remove old PCI card,



7. Insert the new PCI card into the slot and seat firmly.

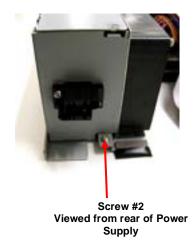


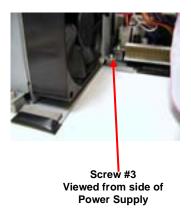
- 8. Secure PCI card with the screw that was used for the old PCI card.
- 9. Reinstall the backplane assembly and reseat the motherboard.
- 10. Reinstall the motherboard (See Section 5.2).
- 11. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 12. Reinstall the back panel (See Section 5.1.2).

## 7.11 Replacing the Power Supply

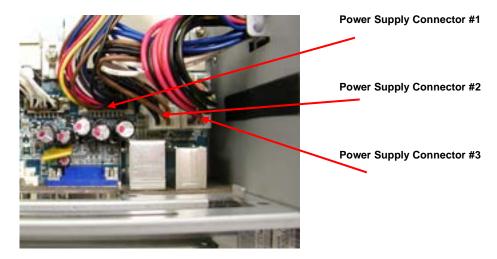
- 1. Remove the back panel (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED light should be off (See Section 1.2).
- 4. Unseat the motherboard.
- 5. Remove the backplane assembly (See Section 7.8).
- 6. Unseat any installed I/O boards. It is not necessary to disconnect the cables, just remove from the chassis to allow access to one of the mounting screws and the power supply cables.
- 7. Remove the 3 mounting screws. Retain the screws.







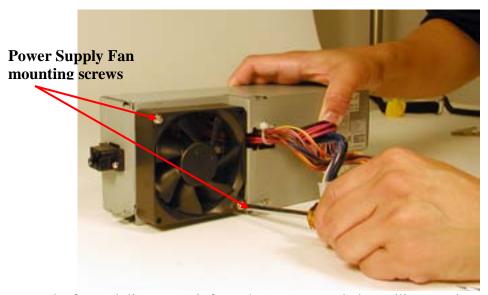
8. Remove the three connectors for the power supply.



- 9. Install the new power supply using the three retained screws.
- 10. Connect the power supply connectors (they are keyed so that they cannot be incorrectly connected). Reseat the I/O Boards and the reinstall the backplane assembly (See Section 7.8).
- 11. Reinstall the motherboard (See Section 5.2).
- 12. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 13. Reinstall the back panel (See Section 5.1.2).

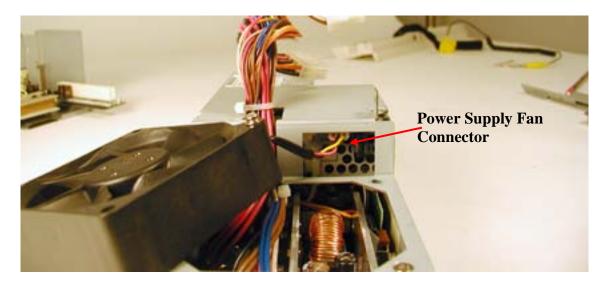
#### 7.12 Replacing the Power Supply Fan

- 1. Remove the back panel (See Section 5.1.2).
- 2. Disconnect the power cable from the controller.
- 3. Remove the front panel (See Section 5.1.1). The yellow LED light should be off (See Section 1.2).
- 4. Unseat the motherboard.
- 5. Remove the backplane assembly (See Section 7.8).
- 6. The power supply fan can be replaced without removing the power supply (although there is more room to maneuver with the power supply removed).
- 7. Remove the two screws holding the power supply fan to the power supply.



8. Remove the fan and disconnect it from the power supply by pulling gently on the small white connector inside the power supply.

9. Install the new power supply fan by first connecting the cable and then mounting the fan to the power supply using the screws removed from the old fan.



- 10. Reinstall the backplane assembly (See Section 7.8).
- 11. Reinstall the motherboard (See Section 5.2).
- 12. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 13. Reinstall the back panel (See Section 5.1.2).

#### 7.13 Replacing the Backplane



Caution: Be sure to observe all ESD precautions and power off procedures.

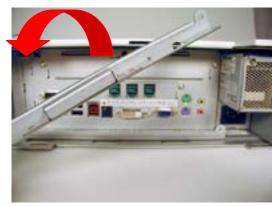
The backplane assembly contains the power supply and I/O boards. The backplane PCB is spared as an individual board and requires removal of the power supply and I/O boards before removing the screws attaching the PCB to the assembly.

Note: Before installing the new docking plane be sure to set the jumper switches as indicated in the Docking Backplane Jumper Settings table at the end of this section.

- 1. Looking from the rear, the power supply is on the right.
- 2. Remove the rear panel (See Section 5.1.2).
- 3. Disconnect the power cable from the controller.
- 4. Remove the front panel (See Section 5.1.1). The yellow LED should be off (See Section 1.2).
- 5. Unseat the motherboard assembly.
- 6. At the rear, remove the locking screw on the right hand side of the backplane.

7. Slide the locking bar to the left and lift it out. The entire backplane and power supply will slide out.

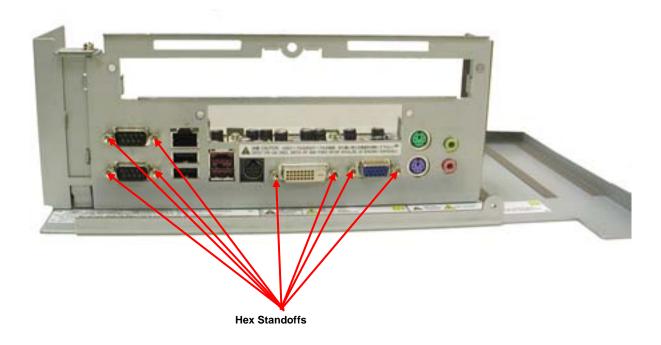




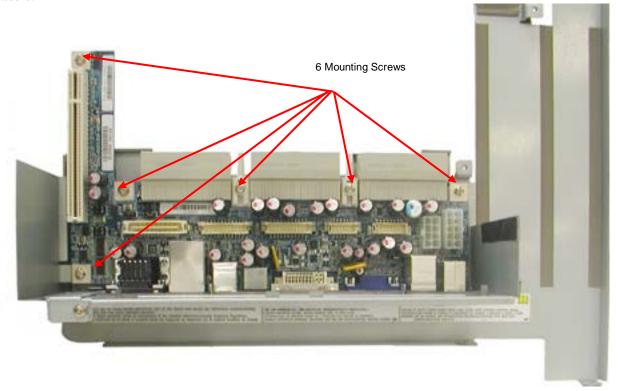


- 8. Remove the power supply (See Section 7.11).
- 9. Remove the PCI card if needed (See Section 7.10).
- 10. Remove the I/O board(s) (See Section 7.9).

11. Remove the 8 hex standoffs of the COM ports. (Retain standoffs.)

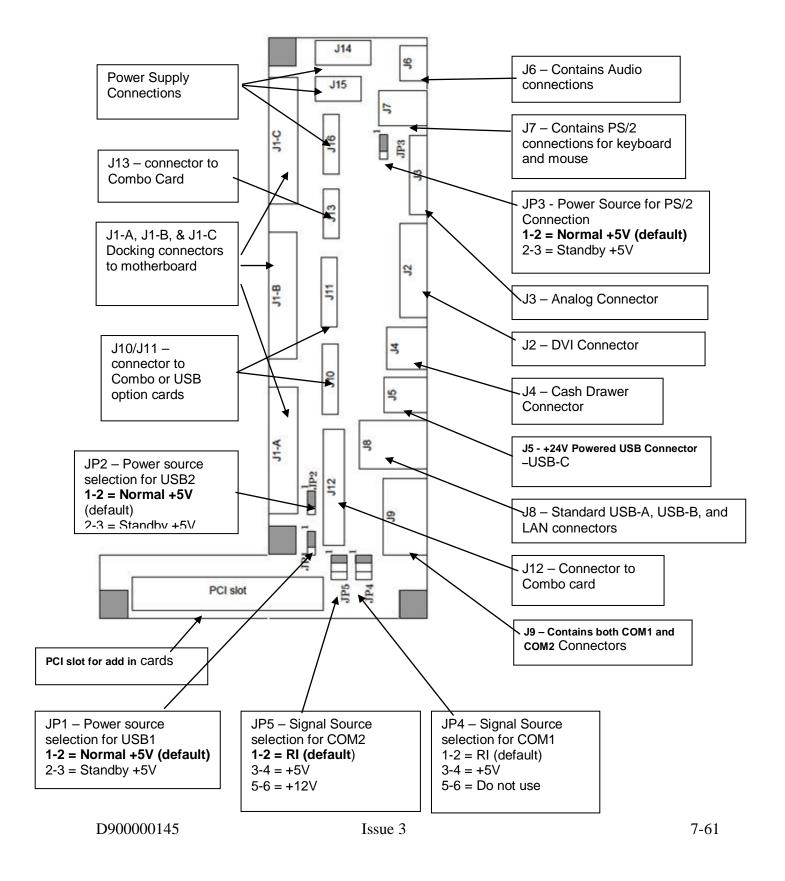


12. Remove the 6 screws attaching the backplane (retain screws) and remove the PCB from the chassis.



- 13. Insert new backplane PCB into the chassis fitting the comports into the openings. Attach with the 6 screws.
- 14. Attach the Hex Standoffs.
- 15. Reattach all I/O boards (Section 7.9), PCI card (Section 7.10), and the power supply (Section 7.11).
- 16. Reinstall backplane assembly into the chassis.
- 17. Reinstall the motherboard (See Section 5.2).
- 18. Reinstall the front panel and reconnect the power cable (See Section 5.1.1).
- 19. Reinstall the back panel (See Section 5.1.2).

#### 7.13.1 Backplane Jumpers & Connectors

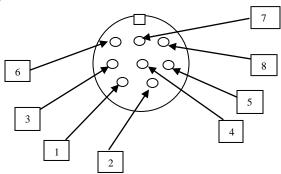


## 7.13.2 TeamPoS 3000 Pin Assignments - Backplane

	Cash Drawer	COM1 & 2	USB +24V
			Red powered USB
			connector
1	+24V Return		5V USB Pwr
2	Dwr1 Status		Data -
3	Dwr1 Kick		Data +
4	Gnd – dual CD		Gnd
5	Gnd		+24V Return
6	Gnd – Dual CD		+24V Pwr
7	Drw2 - Kick		+24V Pwr
8	Drw2 - Status		+24V Return
9	NC		
10			
11			
12			
13			
14			
15			

Other connectors are industry standard and need not be detailed in this document

## 7.13.3 Cash Drawer Plug



This Page Intentionally Left Blank

## **Chapter 8 - Troubleshooting**

# 8.1 Power cannot be turned on or the unit powers off after a few minutes. The power LED next to the power switch does not light up.

NOTE: Assume Windows operating system and OPOS/JavaPOS

No	Check item	Judgment	Action
1	Is the power cable connected?	Y	Go to No. 2.
1		N	Connect the power cable.
	Is there power to the AC outlet?	Y	Go to No.3.
2	(Test with device known to work.)	N	Turn on power to the distribution
			panel.
3	Does the power shut off after a few	Y	Go to No. 4.
3	minutes?	N	End.
	Go into the BIOS by hitting "F2"	Y	End.
4	during boot up and "Load Optimized	N	Go to No. 5.
	Defaults". Does the power stay on?		
	Go into the BIOS ("F2") and go to the	Y	Correct situation (ex. replace PS
5	"hardware monitoring" section. Are		fan, remount heatsink, clean vents,
3	there any warnings or readings close to		etc.) – End.
	a warning?	N	Go to No. 6.
6	Is the 5V Standby I ED light on?	Y	Go to No. 8.
6	Is the 5V Standby LED light on?	N	Go to No. 7.
		Y	Go to No. 8.
7	Is the cable from the operation panel to	N	Verify functionality after securely
/	the motherboard securely installed?		installing the cable. If still no
			power go to No 8.
	Check pins on Backplane assembly	Y	Replace Docking Backplane – End.
8	connectors to insure they are not bent or		Go to No.9.
0	shorted. Are any pins bent or shorted	N	
	together?		
9	Can the power be turned on after	Y	End.
9	replacing the power supply unit?	N	Go to No. 10.
10	Can the power be turned on after	Y	End.
10	replacing the motherboard?	N	Go to No.11.
1.1	Can the power be turned on after	Y	End.
11	replacing the Docking Backplane?	N	Go to No.12.
12	Can the power be turned on after	Y	End.
12	replacing the operator panel?	N	Go to No. 13.
12	Can the power be turned on after	Y	End.
13	replacing the I/O boards?	N	Change the controller.



## 8.2 System will not boot up

(The system fails to start up even though the power is turned on)

No	Check item	Judgment	Action
	Is data displayed on the monitor	Y	Go to No. 2., or go to LCD
	during Power On Self Test (POST)?		troubleshooting section if display goes
1			blank after POST.
		N	Go to LCD troubleshooting section if
			no display.
	Is there an error message displayed on	Y	See the POST message & act
2	the monitor?		accordingly.
		N Y	Go to No.3.
3	Does the system get through the		Go to No. 7.
3	POST without hanging up?	N	Go to No. 4.
4	Replace Memory – Does system get	Y	End.
4	through POST?	N	Go to No. 5.
5	Replace CPU chip – Does system get	Y	End.
3	through POST?	N	Go to No. 6.
6	Replace motherboard – Does system	Y	End.
U	get through POST?	N	Go to No. 13.
	Can BIOS be accessed by hitting F2	Y	Load BIOS Defaults/Save & Exit/Go
7	during POST?		to #8.
		N Y	Go to No. 12.
8	Has the system (O/S)been installed?		Go to No.9.
0		N	Install O/S and reboot.
	Can the system boot up in "Safe	Y	O/S or driver reload is probably
9	Mode" by hitting F8 during POST?		required.
		N	Go to No. 10.
10	Are the HDD cable/s or the CD-ROM	Y	Go to No.11.
10	cable connected?	N	Connect the cable/s.
	Can the system boot up from a	Y	Reload O/S and reboot – If unable to
11	bootable USB key or bootable CD by		load O/S go to No. 13.
11	changing the BIOS to boot from that	N	Go to No. 12.
	device first?		
12	Can the system be started after	Y	End.
14	replacing the motherboard?	N	Go to No.13.
	Can the system be started after	Y	End.
13	replacing the HDD and reloading the	N	Go to No.14.
	O/S?		
	Can the system be started after	Y	End.
14	replacing the power supply and	N	Change the controller.
	backplane assembly?		



# 8.3 Display/LCD shows correctly during Power On Self Test (POST), but fails when the Operating System (OS) starts

No	Check item	Judgment	Action
		Y	Display drivers wrong or not installed properly – Go to Device Mgr and
			update all display adapters. See PSB-
	Does the display show properly if		07-002 on display mode issues. See
1	terminal is booted up in "Safe Mode"		ftp.ftxs.fujitsu.com/pos/
	(F8 pressed during POST) (Windows		possustaining/Retail/
	Only)		TeamPoS3000XL/SPG. If failure still
			occurs O/S could be corrupted – reload.
		N	Go to No. 2
	Does the display go blank at different	Y	Go to No. 2
2	times when the OS is running?		Go to No. 3
	times when the OS is running.	N Y	
		1	Operating System could be corrupted
	Does the display work properly if		on hard drive or hard drive is bad.
3	terminal is booted up from another		Reseat hard disk and reboot. If failure
	device? (ex. USB key, CD, floppy)		still occurs reload software or remove
			and replace HDD.
		N	Go to No. 4
	Go into the BIOS by hitting F2 during		
4	POST, and "Load Optimized	Y	End
4	Defaults". Does the display work	N	Go to No 5
	properly?		
	Does the display function in Analog	Y	Check JP-1 on motherboard
5	(VGA) mode but fail to display when		
	in digital mode (DVI)?	N	Go to No. 6
6	Does the display work properly after	Y	End
	replacing the LCD?	N Y	Go to No.7
7	Does the display work properly after		End.
	replacing the motherboard	N Y	Go to No. 8
8	Does the display work properly after		End Change the controller
	replacing the backplane assembly?	N	Change the controller.



## 8.4 Display/LCD is blank at all times

No	Check item	Judgment	Action
	Is there power to the terminal and	Y	Go to No. 2.
1	other peripherals?	N	Go to the Power Cannot Be Turned. On
	other peripherals:		in troubleshooting section.
2	Are the display cables connected	Y	Go to No. 3.
	securely at both ends?	N	Connect the cable/s properly and retest.
3	Is display correct after adjusting	Y	End.
3	brightness/contrast on the LCD?	N	Go to No. 4.
	Is the display getting power?	Y	Go to No. 5.
	(Note: the D22 and D25 have a green		
	LED on the front of the panel that will	N	Replace source of power (ex. AC
4	be lit if either the power or signal is		adapter, Powered USB I/O Board in
	supplied to the LCD. Having the light		Controller, powered USB cable, etc.).
	lit does not necessarily mean there is		
	power to the LCD)		
	Is there a signal getting to the LCD?	Y	Go to No. 6.
	While still powered up and running,		
5	remove the powered USB cable to the	N	Go to No. 7.
	D22 or D25 to see if the green light		
	stays lit.		
6	Does the display function after	Y	End.
	replacing the data cable?	N	Go to No. 7.
7	Does the display function after	Y	End.
	replacing the LCD/display?	N	Go to No. 8.
8	Does the display function after	Y	End.
	replacing the motherboard?	N	Go to No. 9.
9	Does the display function after	Y	End.
,	replacing the backplane assembly?	N	Change the controller.



## 8.5 Printing errors

No	Check items	Judgment	Action
1	Is receipt paper set correctly?	Y	Go to No. 2.
1		N	Set the receipt paper correctly.
2	Can you feed the paper with the	Y	Go to No. 5.
2	paper feed key?	N	Go to No. 3.
3	Is the printer cable connected	Y	Go to No. 4.
3	correctly?	N	Connect the cable correctly.
4	Is power applied to the printer?	Y	Go to No. 5.
4	(Check the +24V)	N	Go to No. 7.
	Can you execute test printing using	Y	Check the software and printer
5	the test program in OPOS Test		cable.
	Utilities?	N	Go to No. 6.
6	Can you print after replacing the	Y	End.
0	printer?	N	Go to No. 7.
7	Can you print after replacing the	Y	End.
/	power supply?	N	Go to No. 8.
8	Can you print after replacing the	Y	End.
0	Combo board?	N	Go to No. 9.
9	Can you print after replacing the	Y	End.
9	motherboard?	N	Change the controller.



## 8.6 Impossible to input data from keyboard and/or abnormal input

No	Check item	Judgment	Action
1	Is the cable connected correctly?	Y	Go to No.2.
1		N	Connect the cable correctly.
	Is the keyboard set correctly? If the	Y	Go to No.3.
	keyboard is a 133UQ keyboard the		
	mode must be set to USB only or	N	Set the keyboard mode to match
	PS2 only depending upon the		the configuration of the keyboard
	configuration.		– End
			To set to USB mode only hold
2			down the left "Ctrl" key and the
			"Tab" key while powering up the
			terminal until the keyboard beeps.
			To set PS2 mode only hold down
			the left "Ctrl" key and "Caps
			Lock" key while powering up the
			terminal until the keyboard beeps.
3	Is keying enabled using the test	Y	Check the software.
	program in OPOS Test Utilities?	N	Go to No.4.
4	After replacing keyboard, can you	Y	End.
	key input?	N	Go to No.5.
5	Can you input the key correctly after	Y	End.
<i>J</i>	replacing backplane assembly?	N	Go to No. 6.
6	Can you key input correctly after	Y	End.
U	replacing the motherboard?	N	Change the controller.



## 8.7 Keyboard MSR reading error

No	Check item	Judgment	Action
1	Is the keyboard cable connected	Y	Go to No.2.
1	correctly?	N	Connect the cable correctly.
	Does the magnetic card meet ISO	Y	Go to No.3.
2	standards?	N	Try a known good card and go to
			No. 3 if good card still fails.
	Was the card swiped in the correct	Y	Go to No.4.
3	direction?	N	Change the position.
4	Can it read correctly after cleaning	Y	End.
4	the MSR with a cleaning card?	N	Go to No.5.
	Does the MSR operate properly	Y	Check OPOS/JavaPOS drivers.
5	using the test program in OPOS	N	Go to No. 6.
	Test Utilities?		
6	Is data read normally after	Y	End.
0	replacing the MSR	N	Go to No. 7.
7	Can the system be activated after	Y	End.
/	replacing the device the MSR is	N	
	attached to?	19	Change the keyboard.



#### 8.8 Cash Drawer Operation errors

No	Check item	Judgment	Action
1	Is the cash drawer cable connected	Y	Go to No.2.
1	correctly?	N	Connect the cable correctly.
	Can the cash drawer be activated by	Y	Check the OPOS/JavaPOS
2	WINCLD diagnostics?		drivers for the cash drawer.
		N	Go to No. 3.
2	Can the cash drawer be activated after	Y	End.
3	replacing the drawer cable?	N	Go to No. 4.
	Can the cash drawer be activated after	Y	End.
4	replacing the drawer?	N	Go to No. 5.
5	Can the cash drawer be activated after	Y	End.
5	replacing the backplane assembly?	N	Go to No. 6.
6	Can the cash drawer be activated after	Y	End.
6	replacing the motherboard?	N	Change the controller.

#### 8.9 Customer display errors

No	Check item	Judgment	Action
1	Is the cable connected correctly?	Y	Go to No.2.
1		N	Connect the cable correctly.
	When you turn on the power, is the VFD	Y	Go to No. 3.
2	version displayed?	N	Go to No. 4.
	EX:[V01.00.05 FJ i] *		
	Will WINCLD run normally using the	Y	Possible software problem,
3	VFD test program?		check OPOS/JAVAPOS.
		N	Go to No. 4.
4	Will the display show properly after	Y	End.
4	replacing the display cable?	N	Go to No. 5.
5	Does the VFD run properly after replacing	Y	End.
3	the Combo board or USB board?	N	Go to No. 6.
6	Does the VFD run properly after replacing	Y	End.
U	the I/O Board?	N	Go to No. 7.
7	Does the VFD run properly after replacing	Y	End.
/	the motherboard?	N	Go to No. 8.
8	Does the VFD run properly after replacing	Y	End.
O	the power supply?	N	Change the controller.



## 8.10 Deletion of Date, time and disk setup data when turning off power

No	Check item	Judgment	Action
1	Is the voltage of the lithium battery on	Y	Go to No.2.
1	the motherboard normal?	N	Change the motherboard.
	Is the "Clear CMOS" jumper on the	Y	Go to No. 3.
2	motherboard set to "normal" (jumper	N	Set jumper correctly.
	between pins 2-3)		
2	Is operation executed normally after	Y	End.
	replacing the motherboard?	N	Change the controller.

#### 8.11 The system fails to switch to battery backup when power failure occurs

No	Check item	Judgment	Action
1	Is the lead-acid battery connected?	Y	Go to No.2.
1	is the lead-acid battery connected:	N	Connect the battery.
2	Is the lead-acid battery fuse blown?	Y	Change battery fuse.
	is the lead-acid battery ruse blown:	N	Go to No.3.
		Y	Go to No.4.
3	Is the lead-acid battery voltage		
3	normal?	N	Recharge or replace the lead
			battery.
4	Are the cables connected correctly	Y	Go to No.5.
4	inside the controller?	N	Connect the cable correctly.
	Does the battery backup test function	Y	Check OPOS/JAVAPOS is loaded
5	normally?	N	properly.
	normany:		Go to No.6.
	Can the battery backup be activated	Y	End
6	after replacing the backplane	N	No.7.
	assembly?		
7	Can the battery backup be activated	Y	End
	after replacing the power supply?	N	Go to No.8.
8	Can the battery backup be activated	Y	End
O	after replacing the motherboard?	N	Change the controller.

## 8.12 Operation errors of other peripheral devices

No	Check item	Judgment	Action
1	Is the cable connected correctly?	Y	Go to No. 2.
1	is the cable connected correctly?	N	Connect the cable correctly.
2	Does WINCLD operate properly with	Y	Check the program.
	this peripheral?	N	Go to No. 3.
3	Can the system be activated after	Y	End.
3	replacing the associated I/O board?	N	Go to No. 4.
1	Can the system be activated after	Y	End.
4	replacing the motherboard?	N	Go to No. 5.
5	Can the system be activated after	Y	End
3	replacing the power supply?	N	Change the controller.



## Chapter 9. BIOS Setup Procedures - Aurora Motherboard

If a motherboard is replaced in the field, it may be necessary to change the date and time and setup the BIOS for the customer's configuration. The following information shows the default screens from the factory.

#### 9.1 Opening CMOS Setup Screen

Turn ON power and press the "F2" key while the terminal goes through the power on self test. (POST).

#### 9.1.1 CMOS Settings

If this is a new motherboard it will be necessary to set the date and time before releasing the terminal to the customer. To change the date and time, select STANDARD CMOS FEATURES, then input the current date and time. Run "LOAD OPTIMIZED DEFAULTS" then "SAVE & EXIT SETUP." Changing other default settings may be done at this time if the customer has settings other than the default settings listed here. Changing settings that are not the default or not set for specific customer needs may adversely effect the operation of the unit.

In most cases, the CMOS default settings are adequate and do not require changing. Follow the instructions on the screen to select STANDARD CMOS SETUP.

#### 9.1.2 Main Menu - Motherboard

Note: An arrow [▶] indicates additional screens. Use [Enter] to advance to the next screen. Text shown in blue is dynamic, meaning it both changes as the unit operates, or it is set for automatic mode and is not selectable in that mode.

Instructions or information on how to change settings appears in the right column under "Item Help." Information appropriate to the item selected appears under "Menu Level."

Phoenix – AwardBIOS CMOS Setup Utility			
► Standard CMOS Features	► Hardware Monitoring		
► Advanced BIOS Features	▶ Event Log		
► Advanced Chipset Features	▶ Others		
► Integrated Peripherals	Load Optimized Defaults		
▶ Power Management Setup	► Set Supervisor/User Password		
▶ PnP/PCI Configurations Save & Exit Setup			
► Frequency/Voltage Control	Exit Without Saving		
Esc : Quit ↑↓ → ← : Select Item F10 : Save & Exit Setup			
Time, Date, Hard Disk Type			

## 9.1.3 Standard CMOS Setup - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility Standard CMOS Features			
Date (mm:dd:yy) Fri. Feb 10 2006	Item Help		
Time (hh:mm:ss) 8 : 51 : 38			
Drive A [None]			
Video [EGA/VGA]	Menu Level ▶		
Halt On [All, But Keyboard]			
Base Memory 640K	Information or instructions will appear here for each		
Extended Memory 220352K	selection.		
Total Memory 220376K			
↑ ↓ → ← : Move Enter : Select +/-/PU/PD : Value F10 : Sa	ve ESC : Exit F1: General Help		
F5: Previous Values F7: Optimized De	faults		

# 9.1.4 BIOS Features Setup - Motherboard

	Phoenix – AwardBIOS CMOS Setup Utility Advanced BIOS Features			
<b>)</b>	CPU Feature Hard Disk Boot Priority	[Press Enter] [Press Enter]	Item Help	
	Quick Boot Quiet Booth	[Enabled] [Disabled]	Menu Level ▶	
	Wait for F1 if error Hit F2 Message Display	[Enabled] [Enabled]	Information or instructions	
	CPU L1 & L2 Cache First Boot Device	[Enabled] [USB-FDD]	will appear here for each selection	
	Second Boot Device Third Boot Device	[CDROM] [USB-CDROM]		
	Fourth Boot Device Boot Up Floppy Seek	[HARD DISK] [Enabled]		
	Boot Up NumLock Status Gate A20 Option	[On] [Fast]		
X	Typematic Rate (Chars/Se			
X		[Enabled]		
	Report NO FDD For WIN95 Small Logo(EPA) Show	[Enabled]		
	Summary Screen Show Boot Menu	[Disabled] [Enabled]		
	IOAPIC Extended IOAPIC	[Disabled] [Disabled]		
x	ACPI APIC Support	[Disabled]		
1	↓ → ← : Move Enter : S F5: Previous Val		·	

# 9.1.5 CPU Feature Setup - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility				
CPU Feature				
Manufacturer	Intel	Item Help		
CPU Type	Celeron M Mobile CPU	nem ricip		
Frequency	1300 MHz			
FSB Speed	400 MHz	Menu Level ▶		
	001/D	Information on instructions		
Cache L1	32KB	Information or instructions		
Cache L2	512 KB	will appear here for each		
Cache L3	0 KB	selection.		
Ratio Status	Locked			
Ratio Actual Value	13x			
L2 Cache ECC	Enabled			
Intel SpeedStep(tm) Tech	[Disabled]			
<b>Geyservile Transition Model</b>	Native			
Geyservile Type	Geyservile III			
Thermal Management	Thermal Monitor I			
↑ ↓ → ← : Move Enter : Select F5: Previous Values	+/-/PU/PD : Value F10 : Sa F7: Optimized De			
	- [			

# 9.1.6 Hard Disk Boot Priority - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility Hard Disk Boot Priority		
1. SCSI-0 : FT 579 D1	Item Help	
2. Bootable Add-in Cards	Menu Level ▶▶	
	Information or instructions will appear here for each selection	
↑ ↓ → ← : Move Enter : Select +/-/PU/PD : Value F10 : F5: Previous Values F6: Fail-safe Defaults	Save ESC : Exit F1: General Help F7: Optimized Defaults	

# 9.1.7 Advance Chipset Features Setup- Motherboard

	Phoenix – AwardBIOS CMOS Setup Utility Advanced Chipset Features				
	DRAM Timing Selectable	[By SPD]	Item Help		
X	CAS Latency Time Active to Precharge Delay	2.5 7	Menu Level ▶		
X	DRAM RAS# to CAS# Delay DRAM RAS# Precharge DRAM Data Integrity Mode MGM Core Frequency System BIOS Cacheable Video BIOS Cacheable Memory Hole At 15M-16M AGP Aperture Size (MB)	3 [ECC] [Auto Max 400/333MHz] [Enabled] [Enabled] [Disabled] [64]	Information or instructions will appear here for each selection.		
	** On-Chip VGA Setting ** On-Chip VGA On-Chip Frame Buffer Size Boot Display IGD-Device 2. Function 1 Panel Scaling	[Enabled] [32MB] [H W Settings] [Enabled] [Auto]			
1	→ ← : Move Enter : Select     F5: Previous Values	+/-/PU/PD : Value F10 : Sa F7: Optimized De			

# 9.1.8 Integrated Peripherals Setup - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility Integrated Peripherals			
▶ USB Configuration	[Press Enter]	Item Help	
<ul> <li>OnChip IDE Device</li> <li>Onboard Device</li> <li>Super10 Device</li> </ul>	[Press Enter] [Press Enter] [Press Enter]	Menu Level ▶	
3.55.1.3.201100	[ 330 Z	Information or instructions will appear here for each selection.	
	nter : Select +/-/PU/PD : Value ous Values F7: Opt	F10 : Save ESC : Exit F1: General Help imized Defaults	

# 9.1.9 USB Configuration Setup - Motherboard

## **Factory Default Settings**

Phoenix – AwardBIOS CMOS Setup Utility USB Configuration			
NEC USB Configuration:		Item Help	
None ICH4 USB Configuration: USB Beep Message	[Disabled]	Menu Level ▶	
Emulation Type Device List Ex:	[Auto]	Information or instructions will appear here for each selection.	
↑ ↓ → ← : Move Enter : Se F5: Previous Valu		F10 : Save ESC : Exit F1: General Help imized Defaults	

## 9.1.10 OnChip IDE Device Setup - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility OnChip IDE Device			
► IDE Channel Master	[CD-224E-N]	Item Help	
▶ IDE Channel Slave	[ None]	Menu Level ▶	
On-Chip Channel PCI IDE IDE Channel Master PIO IDE Channel Slave PIO IDE Channel Master UDMA IDE Channel Slave UDMA IDE DMA transfer access	[Enabled] [Auto] [Auto] [Auto] [Auto] [Enabled]	Information or instructions will appear here for each selection.	
IDE HDD Block Mode HDD S.M.A.R.T. Capability Hard Disk Write Protect	[Enabled] [Disabled] [Disabled]		
ATA(P1) 80 Pin Cable	Detection		
↑ ↓ → ← : Move Enter : Selec F5: Previous Values	, ,	F10 : Save ESC : Exit F1: General Help imized Defaults	

# 9.1.11 Onboard Device Setup - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility Onboard Device			
USB Controller	[Enabled]	Item Help	
USB 2.0 Controller  Legacy USB Support  AC97 Audio	[Enabled] Enabled [Auto]	Menu Level ▶	
Init Display First Onboard LAN Controller SATA RAID Controller NEC USB Controller OXFord Com Controller ICH4 Dev31 Func1. IDE ICH4 Dev29 Func3. SMBUS ICH4 Dev29 Func2. USB#1 ICH4 Dev29 Func3. USB#3 Sound Blaster Decode Microsoft Sound Decode MIDI Decode Adlib Ranch 388h-38Bh LPC 4Eh-4Fh Decode LPC 2Eh-2Fh Decode LAN ROM Control	[Onboard/AGP] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Disabled] [Disabled] [Disabled] [Enabled] [Enabled] [Disabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [Disabled] [Disabled]	Information or instructions will appear here for each selection.	
↑ ↓ → ← : Move Enter : Selection F5: Previous Values			

## 9.1.12 SuperIO Device Setup - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility SuperIO Device					
Onboard FDC Controller Onboard Serial Port 1	[Disabled] [3F8/IRQ4]	Item Help			
Onboard Serial Port 2 Onboard Serial Port 3 Serial Port 3 Use IRQ Onboard Serial Port 4 Serial Port 4 Use IRQ	[2F8/IRQ3] [3E8] [IRQ5] [2E8] [IRQ7]	Menu Level > Information or instructions will appear here for each selection.			
↑ ↓ → ← : Move Ente F5: Previous	r : Select +/-/PU/PD : Value s Values F7: Op	F10 : Save ESC : Exit F1: General Help stimized Defaults			

## 9.1.13 Power Management Setup - Motherboard

	Phoenix – AwardBIOS CMOS Setup Utility Power Management Setup						
	ACPI Function	[Enabled]	it Getup	Item Help			
	ACPI Suspend Type Run VGABIOS if S3 Resume Power Management Video Off Method	[S1&S3] [Auto] [User Define] [DPMS]	Menu Level ▶ ne] Information or instru				
	Video Off In Suspend Suspend Type MODEM Use IRQ Suspend Mode	[Yes] [Stop Grant] [3] [Disabled]		will appear here for each selection.			
	HDD Power Down Soft-Off by PWR-BTTN Wake-Up by PCI Card	[Disabled] [Delay 4 Sec.] [Disabled]					
	Power On by Ring USB KB Wake-Up From S3 Resume by Alarm	[Disabled] [Disabled] [Disabled]					
X	Date(of Month) Alarm Time(hh:mm:ss) Alarm PWRON After PWR-Fail	0 0: 0: 0 [Former-Sts]					
1	→ ← : Move Enter : Select     F5: Previous Values		F10 : Sav timized Def				

## 9.1.14 PnP/PCI Configurations Setup - Motherboard

## **Factory Default Settings**

	Phoenix – AwardBIOS CMOS Setup Utility PnP/PCI Configurations						
	Clear NVRAM	[No]	Item Help				
	PNP OS Installed Reset Configuraiton Data	[No] [Disabled]	Menu Level ▶				
X X X	Resources Controlled By IRQ Resources DMA Resources Memory Resources	[Auto(ESCD)] Press Enter Press Enter Press Enter	Information or instructions will appear here for each selection.				
	PCI/VGA Palette Snoop Assign IRQ for VGA PCI Latency Timer (CLK)	[Disabled] [Disabled] [ 64]					
1	↓ → ← : Move Enter : Select F5: Previous Values	+/-/PU/PD : Value F10 : Sa F7: Optimized De					

## 9.1.15 Frequency/Voltage Control Setup - Motherboard

Phoenix – AwardBIOS CMOS Setup Utility Frequency/Voltage Control						
Auto Detect PCI Clk	[Enabled]	Item Help				
Spread Spectrum CPU Clock	[Enabled] [100MHz]	Menu Level ▶				
		Information or instructions will appear here for each selection.				
A L X ( + Move Enter	- Soloot / /DL//DD - Volu	o F40 · Sovo FSC · Fuit F4· Coporal Holo				
↑ ↓ → ← : Move Enter F5: Previous	: Select +/-/PU/PD : Valu Values F7: 0	e F10 : Save ESC : Exit F1 : General Help Dptimized Defaults				

#### 9.1.16 Hardware Monitoring Setup - Motherboard

Phoeni	Phoenix – AwardBIOS CMOS Setup Utility Hardware Monitoring					
Hardware Monitoring	[Enabled]	Item Help				
CPU Temperature CPU Temp Warning Action CPU Temp for Warning PSU Temperature PSU Temp Warning Action PSU Temp for Warning System Temperature System Temp Warning Action System Temp for Warning Low temperature x Temperature	36° C [Shutdown] [90°C/194°F] 28° C [Shutdown] [70°C/158°F] 20° C [Disabled] [65°C/149°F] [Disabled] 5°C/41°F	Menu Level ▶  Information or instruction will appear here for each selection.	ıs			
CPU Fan Speed CPU Fan Control CPU Temp to up CPU Fan SYS Temp to up CPU Fan CPU Fan Warning x CPU Fan Warning Speed	0 RPM [Disabled] [80°C/176°F] [45°C/113°F] [Disabled] 4000 RPM					
PSU Fan Speed PSU Fan Control CPU Temp to up PSU Fan SYS Temp to up PSU Fan PSU Temp to up PSU Fan PSU Fan Warning PSU Fan Warning Speed	2934 RPM [POS] [80°C/176°F] [45°C/113°F] [55°C/131°F] [Shutdown] [2000RPM]					
► Voltage Monitoring Group	[Press Enter]	F10 - Sove - FSC - Fvit - F1 - Constall li	مام			
↑ ↓ → ← : Move Enter : Selec F5: Previous Values		F10 : Save ESC : Exit F1: General He timized Defaults	еф			

<sup>\*</sup> All actual temperatures and fan speeds will vary.

 $<sup>\</sup>ensuremath{^{**}}$  Note: CPU fan control and warning must be [DISABLED] since there is no fan on CPU.

## 9.1.17 Event Log Setup - Motherboard

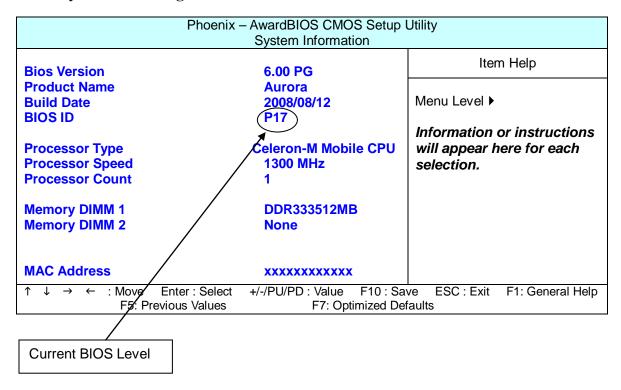
## **Factory Default Settings**

Phoenix – AwardBIOS CMOS Setup Utility Event Log					
DMI Event Log	[Enabled]	Item Help			
Clear All DMI Event Log View DMI Event Log Mark DMI Events as Read	[Yes] [Enter] [Enter]	Menu Level ▶  Information or instructions			
Total Size Free Size Event Log Validity	63 62 Valid	will appear here for each selection.			
ECC Event Logging	[Enabled]				
↑ ↓ → ← : Move Enter : Sel F5: Previous Value		F10 : Save ESC : Exit F1: General Help otimized Defaults			

#### 9.1.18 Others - Motherboard

	Phoenix – AwardBIOS CMOS Setup Utility Others						
•	System Information	[Press Enter]	Item Help				
x	Power COM1 Configuration Power COM2 Configuration Self cleaning function Near Day Range Clear Previous Data Previous Clean Date Watch Dog Timer Select	[Disabled] [Disabled] [Disabled] One Week Enter 1999/01/01 [Disabled]	Item Help  Menu Level   Information or instructions will appear here for each selection.				
1	↓ → ← : Move Enter : Select F5: Previous Values	+/-/PU/PD : Value F10 : Sa F7: Optimized Do					

#### 9.1.19 System Information - Motherboard



## 9.1.20 Set Supervisor/User Passwords - Motherboard

## **Factory Default Settings**

Phoenix – AwardBIOS CMOS Setup Utility Set Supervisor/User Password					
		Item Help			
Set Supervisor Password	[PRESS ENTER]	Menu Level ▶			
Set User Password	[PRESS ENTER]	Information or instructions			
Super Password Status	will appear here for each selection.				
User Password Status	NO INSTALLED	Selection.			
User Access Level	[LIMITED] or [VIEW ONLY]				
Security Option					
↑ ↓ → ← : Move Enter : S F5: Previous Va					

NOTE: Security Option [SYSTEM] only on system boot.

This page intentionally left blank.

## Chapter 10. BIOS Setup Procedures – XL<sup>2</sup> Motherboard

If a motherboard is replaced in the field, it may be necessary to change the date and time and setup the BIOS for the customer's configuration. The following information shows the default screens from the factory.

#### 10.1. Opening CMOS Setup Screen

Turn ON power and press the "F2" key while the terminal goes through the power on self test (POST).

#### 10.1.1. CMOS Settings

If this is a new motherboard it will be necessary to set the date and time before releasing the terminal to the customer. To change the date and time from the BIOS screen, manually input the current date and time. Run "LOAD SETUP DEFAULTS" then "SAVE & EXIT SETUP." Changing other default settings may be done at this time if the customer has settings other than the default settings listed here. Changing settings that are not the default or not set for specific customer needs may adversely effect the operation of the unit.

In most cases, the CMOS default settings are adequate and do not require changing. Follow the instructions on the screen to select STANDARD CMOS SETUP.

#### 10.1.2. Main Menu - XL2 Motherboard

Note: An arrow [▶] indicates additional screens. Use [Enter] to advance to the next screen. Text shown in blue is dynamic meaning it either changes as the unit operates, or it is set for automatic mode and is not selectable in that mode.

	Phoenix TrustedCore™ Setup Utility						
Main Ad	lvanced	Security	<b>TPM Stat</b>	e Pow	er	Boot	Exit
System Time:		[09:	[09:46:01]		Item Specif		ific Help
System Date:		[09/	05/2007]				
Legacy Diskette	e A:	[Dis	abled]				
▶ IDE Primary/M	aster	[DV	V-224E-C-(I	PM)]			
▶ IDE Primary/S1	ave	[No	ne]				
▶ SATA Port 1		[HT	S541040G9	SA00-			
(S1)]							
▶ SATA Port 2		[No	ne]				
SATA Port 3		[No	ne]				
Halt on		[All	, But Keybo	oard]			
Base Memory:		640	KB				
Extended Memo	ory:	103	8336 KB				
Total Memory:		1039	1039360 KB				
F1 Help	<b>†</b> ↓	Select Item	-/+	Change V	alues		Setup
						Defaul	
Esc Exit	$\leftarrow \rightarrow$	Select Menu	Enter	Select > S	ubmenu	F10	Save and Exit

# 10.1.3. IDE Primary/Master Setup – XL<sup>2</sup> Motherboard

	Phoenix TrustedCore™ Setup Utility						
Main Advar	nced Security	TPM State	Power	Boot	Exit		
IDE Primary/Maste	IDE Primary/Master [DW-224E-C-(PM)]			Item Specific	e Help		
Type: [Auto]				User = you enter parameters of Hard disk drive installed at the			
Multi-Sector Transf	ers: [Dis	abled]	conne	ction.			
LBA Mode Control	: [Dis	abled]	Auto drive	<ul><li>autotype</li></ul>	s hard-disk		
32 Bit I/O Transfer Mode:	-	[ <b>Disabled</b> ] [FPIO 4 / DMA 21			ROM drive is		
Ultra DMA Mode:	L .	de 2]	install	ed here. I Removable			
			Remoinstall Here.	vable disk ed	drive is		
F1 Help	Select Item	-/+ Char	nge Values	F9 Se Defaults	etup		
Esc Exit	Select Menu	Enter Selec	t > Submen	u F10 Sa	eve and Exit		

# 10.1.4. IDE Primary/Master Setup – XL<sup>2</sup> Motherboard Factory Default Settings

Phoenix TrustedCore <sup>TM</sup> Setup Utility							
Main Advance	ed Security TP	M State Pov	wer Boot	t Exit			
IDE Primary/Slave	[None]		Item Sp	ecific Help			
Type:	[Auto]		•	ter parameters of e installed at this			
Multi-Sector Transfer	s: [Disable	d]	connection.				
LBA Mode Control:	[Disable	d]	Auto – auto	otypes hard-disk			
32 Bit I/O [Disabled] Transfer Mode: [Standard] Ultra DMA Mode: [Disabled]		d]	installed here. ATAPI Remov	CD-ROM drive is  rable =  disk drive is			
F1 Help ↑	Select Item	-/+ Change V		Setup			
Esc Exit ←	→ Select Menu	Enter Select > S	Defa Submenu F10	ults Save and Exit			
LSC LAIL	Beleet Menu	Briter Beleet V	dubilicità FIV	Save allu Exit			

# 10.1.5. SATA Port 1 Setup – XL<sup>2</sup> Motherboard

Phoenix TrustedCore™ Setup Utility						
Main Advanced	Security	TPM State	Pow	er	Boot	Exit
SATA Port 1	[HTS	541040G9S	A00-	Ite	m Specific H	Jeln
(S1)]				110	in Specific 1	СТР
		-				
Type:	[Auto	)]		•	u enter para	
	LBA Format			Hard disk	drive instal	led at this
Total Sectors:	78140	0160		connectio	n.	
Maximum Capacity:	4000	8MB SATA1		Auto –	autotypes	hard-disk
				drive		
				installed h	nere	
Multi-Sector Transfers:	[16 S	ectors]		CD- $ROM = a CD$ - $ROM drive is$		
LBA Mode Control:	[Enat	oled]		installed here.		
32 Bit I/O:	[Disa	bled]		ATAPI Removable =		
Transfer Mode:	[FPIC	0 4 / DMA 2]		Removable disk drive		
				installed		
Ultra DMA Mode:	[Mod	le 5]		here.		
F1 Help ↑↓	Select Item	-/+ Cl	hange V	alues	F9 Setu	ıp
					Defaults	
Esc Exit $\leftarrow \rightarrow$	Select Menu	Enter Se	elect > Si	ubmenu	F10 Savo	e and Exit

# 10.1.6. SATA Port 2 Setup – XL<sup>2</sup> Motherboard

Phoenix TrustedCore™ Setup Utility											
Main Advanced	Security TPM State	Power	Boot	Exit							
SATA Port 2	[None]	[None] Item Sp									
Type:	Type: [Auto]										
Multi-Sector Transfers:	[Disabled]	connec	ction.								
LBA Mode Control:	r 3										
		drive	• 1								
32 Bit I/O:	[Disabled]	installe	ed here								
Transfer Mode:	[Standard]	CD-RO	CD- $ROM = a CD$ - $ROM drive is$								
Ultra DMA Mode:	[Disabled]	installe	installed here.								
		ATAPI	Removable =	<u> </u>							
		Remov	vable disk	drive is							
		installe	ed								
		here.									
F1 Help ↑↓	Select Item -/+	hange Values	F9 Set	up							
•			Defaults								
Esc Exit ← →	Select Menu Enter S	elect > Subment	u F10 Sav	ve and Exit							

# 10.1.7. SATA Port 3 Setup – XL<sup>2</sup> Motherboard

	Phoenix T	rustedCoreTM	Setup Uti	lity				
Main Advanced	Security	TPM State	e Pow	er Bo	oot	Exit		
SATA Port 3	[No	[None] Item Specific Help						
Type:	[Aı	•	= you enter parameters of disk drive installed at this					
Multi-Sector Transfers:	[Di	sabled]		connection.				
LBA Mode Control:	[Di	sabled]		Auto – a	utotypes	hard-disk		
				drive				
32 Bit I/O:	[Di	sabled]		installed her	re			
Transfer Mode:	[St	andard]		CD-ROM = a $CD$ -ROM drive i				
Ultra DMA Mode:	[Di	sabled]		installed here.				
				ATAPI Rem	ovable =			
				Removable	disk	drive is		
				installed				
				here.				
F1 Help ↑↓	Select Item	-/+	Change V	alues F	9 Setu	ıp		
				D	efaults			
Esc Exit ← -	Select Menu	Enter	Select > S	ubmenu F	10 Sav	e and Exit		

# 10.1.8. Advanced Main Menu – XL<sup>2</sup> Motherboard

		Phoenix Tru	ustedCore <sup>TM</sup>	<sup>4</sup> Setup Uti	ility		
Main	Advanced	Security	TPM Stat	e Pow	ver	Boot	Exit
▶ CPU Featu	ıre				Ite	em Speci	fic Help
▶ GM965 Fe	eature						
▶ ICH8MDC	) Feature						
▶ Super IO F	Feature						
▶ Hardware	Monitor Featu	re					
Other Feat	ure						
IDAPIC		[Ena	abled]				
Quick Boo	ot	[Ena	abled]				
Quiet Boot	t	[Dis	abled]				
Boot Up N	IumLock Statu	s [On]	]				
Summary S	Screen Show	[Dis	abled]				
F1 Help	<b>†</b> ↓	Select Item	<b>-</b> /+	Change V	alues	<b>F9</b>	Setup
						Default	S
Esc Exit	$\leftarrow \rightarrow$	<b>Select Menu</b>	Enter	Select ▶ S	ubmenu	F10	Save and Exit

# 10.1.9. CPU Feature Setup – XL<sup>2</sup> Motherboard

## **Factory Default Settings**

		Phoenix Tr	ustedCore <sup>TM</sup>	Setup Uti	ility			
Main	Advanced	Security	TPM Stat	e Pow	er	Boot	Exit	
	C	CPU Feature			Item Specific Help			
	Type: Speed:	220 [Ena 32 I 409 [TM	l ® Core <sup>TM</sup> 0 MHz abled] KB 6 KB	2 Duo				
F1 Help	†↓	Select Item	-/+	Change V	alues	F9 S	Setup	
Esc Exit	← →	Select Menu	Enter	Select > S	ubmenu		Save and Exit	

# 10.1.10. GM965 Feature Setup – XL<sup>2</sup> Motherboard

	duit octtings	Phoenix Tr	ustedCoreT	M Setup Uti	ility		
Main	Advanced	Security	TPM Sta	te Pow	ver	Boot	Exit
	GN		Ite	m Specifi	c Help		
ICD Des	4.4	ri iv	V C -44: 1				
IGD – Boo	• 1	_	V Setting]				
IGD – Dev		[En	abled]				
IGD – Pan	el Scaling:	[Au	to]				
DVMT 4.0	Mode:	[DV	/MT]				
Pre-Alloca	ted Memory S	ize: [8M	[B]				
Total Grap	hics Memory:	[250	6MB]				
DVMT Gra	aphics Memor	y: 248	MB				
	1	,					
F1 Help	↑↓	Select Item	<b>-</b> /+	Change V	alues	F9 S	etup
						<b>Defaults</b>	
Esc Exit	$\leftarrow \rightarrow$	<b>Select Menu</b>	Enter	Select ▶ S	ubmenu	F10 S	ave and Exit

# 10.1.11. ICH8MDO Feature Setup – XL<sup>2</sup> Motherboard

		Phoenix Tr	<sup>1</sup> Setup Uti	lity		
Main	Advanced	Security	TPM Stat	e Pow	ver Boo	ot Exit
	ICH	8MDO Feature	e		Item S	pecific Help
▶ USB Inte						
ICH SAI	A PATA Contro	I Sub-Menu				
High Def	nition Audio	[Au	to]			
Unit Disp	lay First	[On	board/AGP]			
Onboard 1	LAN Controlle	r [En	abled]			
LAN RO	M Control	[Dis	sabled]			
ICH8 SM	BUS	[En	abled]			
ICH8 IDI	3	[En	abled]			
Reset Cor	nfiguration Dat	a: [No	]			
F1 Hel	p ↑↓	Select Item	<b>-</b> /+	Change V		Setup
						aults
Esc Exit	$\leftarrow \rightarrow$	Select Menu	Enter	Select > S	ubmenu F10	Save and Exit

# 10.1.12. USB Feature Setup – XL<sup>2</sup> Motherboard

	Phoenix TrustedCore™ Setup Utility											
Main	Advanced	Security	TPM State	e Pow	er Bo	ot Exit						
	Ţ		Item Specific Help									
ICH8 USB ICH8 USB ICH8 USB	ontroller B Support: #1 #2 #3 ontroller (Cha	[Ena Ena [Ena [Ena [Ena [Ena [Ena	abled] abled] bled abled] abled] abled] bled abled] abled]									
F1 Help	† <b>↓</b>	Select Item	<b>-</b> /+	Change V		Setup						
						faults						
Esc Exit	← →	Select Menu	<b>E</b> nter .	Select > S	ubmenu F1	Save and Exit						

# 10.1.13. ICH SATA PATA Control Sub-Menu Setup – XL<sup>2</sup> Motherboard Factory Default Settings

			Phoenix Ti	rustedCoreT	M Setup Uti	lity		
M	ain A	dvanced	Security	TPM Sta	te Pow	er	Boot	Exit
	IC	H SATA PA	ATA Control S	Sub-Menu		Ite	m Speci	fic Help
Na	TA – Devica ative Mode ATA RAID	Operation:	[Aı	nabled] nto] nabled]				
F1	Help	†↓	<b>Select Item</b>	<b>-</b> /+	<b>Change V</b>	alues	F9	Setup
							Default	
Esc	Exit	$\leftarrow \rightarrow$	Select Menu	Enter	Select > S	ubmenu	F10	Save and Exit

## 10.1.14. Super IO Feature Setup – XL<sup>2</sup> Motherboard

All options are shown here, however on the BIOS screens it will be necessary to scroll down to see all the options:

			Pho	enix Trust	edCoreT	M Setup Uti	ility		
Ma	in Adv	anced	Secu	irity T	<b>PM Sta</b>	te Pow	ver	Boot	Exit
		Suj	per IO F	eature •			It	em Spe	cific Help
Seria	al port A:			[Enabl	led]				
I	Base I/O addr	ess:		[3F8]	_				
I	Interrupt:			[IRQ 4	4]				
Seria	al port B:			[Enabl	led]				
I	Base I/O addr	ess:		[2F8]					
I	Interrupt:			[IRQ 3	3]				
Seria	al port C:			[Enabl	led]				
I	Base I/O addr	ess:		[3E8]					
I	Interrupt:			[IRQ 6	5]				
Seria	al port D:			[Enabl	led]				
I	Base I/O addr	ess:		[2E8]					
I	Interrupt:			[IRQ 7	7]				
	ered COM1 (			[Disab	oled]				
Pow	ered COM2 (	Configu	ıration	[Disab	oled]				
	2 Mouse Supp			[Enabl	led]				
▶ Cons	sole Redirecti	ion							
(	COM Port Ac	ddress		[Disab	oled]				
	BAUD Rate			[19.2F]	<b>K</b> ]				
	Console Type			[PC A]	_				
	Flow Control			[None					
(	Continue C.R			[ OFF	]				
F1	Help	<b>†</b> ‡	Select	Item	-/+	<b>Change V</b>	alues	<b>F9</b>	Setup
								Defau	
Esc	Exit	$\leftarrow$	Select	Menu	Enter	Select > S	ubmenu	F10	Save and Exit

# 10.1.15. Hardware Monitor Feature Setup – XL<sup>2</sup> Motherboard

All options are shown here, however on the BIOS screens it will be necessary to scroll down to see all the options:

Phoenix TrustedCore <sup>TM</sup> Setup Utility											
Main Advanced	Security TPM Sta	ate Pov	ver	Boot	Exit						
Hardw	vare Monitor Feature			Item Sp	ecific Help						
Hardware Monitoring	[Enabled]										
CPU Temperature	35 C/095F										
Alarm/Shutdown	[Shutdown]										
Temperature	[90C / 194F]										
PSU Temperature	30 C/086F										
Alarm/Shutdown	[Shutdown]										
Temperature	[70C / 158F]										
System Temperature	28 C/082F										
Alarm/Shutdown (High)	[Disabled]										
Temperature	[65C / 149F]										
Low Temperature	[Disabled]										
Temperature	[5C / 41F]										
FAN1 (CPU) Speed	N/A										
FAN Control	[Disabled]										
CPU Temperature	[80C / 176F]										
System Temperature	[45C / 113F]										
Alarm/Shutdown	[Disabled]										
Speed	[4000RPM]										
FAN2 (PSU) Speed	3068 RPM										
Fan Control	[POS]										
CPU Temperature	[80C / 176F]										
System Temperature	[45C / 113F]										
PSU Temperature	[55C / 131F]										
Alarm/Shutdown	[Shutdown]										
Speed	[2000RPM]										
Vcore	0.928 V										
+1.05V1.040 V											
+3.3V	3.424 V										
+5V 5.157 V											
+5V_STBY	5.103 V 11.65 V										
+12V											
VBAT 3.264 V											
F1 Help ↑↓ Esc Exit ←→	Select Item -/+ Select Menu Enter	Change Val		F9 F10	Setup Defaults Save and Exit						

## 10.1.16. Other Feature Setup – XL<sup>2</sup> Motherboard

All options are shown here, however on some of the BIOS screens it will be necessary to scroll down to see all the options:

		Phoeni	M Setup Uti	ility			
Main	Advanced	Securit	ty TPM Sta	te Pow	er	Boot	Exit
	C	ther Featu	re		Ito	em Spec	cific Help
System Info	ormation						
Auto Detec	t PCI Clk		[Enabled]				
Spread Spe	ctrum		[Enabled]				
DMI Event	Log		[Enabled]				
Clear all Di	MI event logs		[No]				
View DMI	event log		[Enter]				
Mark DMI	events as read	d	[Enter]				
Watch Dog	Timer Select		[Disabled]				
Self cleaning	ng function		[Disabled]				
Near D	ay Range		[One Week]				
Clear P	revious Date		[Enter]				
Previou	s Clean Date		????				
Prevent mis	swriting MAC	address	[Disabled]				
	-						
F1 Help	<b>↑</b> ↓	Select Ite	em -/+	Change V	alues	<b>F9</b>	Setup
Р		200000				Defau	and the second s
Esc Exit	$\leftarrow \rightarrow$	Select M	enu Enter	Select ▶ S	ubmenu	F10	Save and Exit

# 10.1.17. Security Setup – XL<sup>2</sup> Motherboard

# **Factory Default Settings**

	Phoenix TrustedCore™ Setup Utility												
Main	Advanced	Security	TPM Stat	te Pow	er	Boot	Exit						
					Ite	m Speci	fic Help						
Supervisor	Password Is:	Cle	ar										
User Passw	ord Is:	Cle	ar										
Set Supervi	sor Password	[En	ter]										
Set User Pa	ssword	[En	ter]										
Password o	n boot:	[Dis	sabled]										
TPM Suppo	ort	[En	abled}										
	<b>A</b> I			OI T		F0 -	G 4						
F1 Help	↑↓	Select Item	-/+	<b>Change V</b>	alues	F9 Default	Setup s						
Esc Exit	$\leftarrow \rightarrow$	Select Menu	Enter	Select > S	ubmenu	F10	Save and Exit						

# 10.1.18. TPM State Setup – XL<sup>2</sup> Motherboard

	Phoenix TrustedCore™ Setup Utility							
Mai	n Adv	anced	Security	TPM Stat	e Pov	ver	Boot	Exit
						Ite	em Spec	ific Help
Curre	nt TPM Star	te:	Disabl	ed and Dea	ctivated			
Chang	ge TPM Stat	te	[No Cl	hange]				
<b>F1</b>	Help	11	Select Item	<b>-</b> /+	Change V	Values	F9	Setup
Esc	Exit	← →	Select Menu	Enter	Select ▶ S	Submenu	Defaul F10	ts Save and Exit

# 10.1.19. Power Setup – XL<sup>2</sup> Motherboard

		Phoenix Tru	stedCore <sup>TM</sup>	Setup Uti	lity		
Main	Advanced	Security	<b>TPM State</b>	Pow	er	Boot	Exit
					Ite	em Spec	cific Help
ACPI Fund	ction	[Enal	oled]				
Disable AC	CPI _Sx:	[Non	e]				
Soft-Off by	y PWR	[Dela	y 4 Sec.]				
USB KB V	Vake-Up from	S3 [Disa	ibled]				
Wake-Up l	oy PME	[Disa	bled]				
Resume O	n Time:	[Off]					
Resume Ti	me:	0:00]	0:00]				
After Pow	er Failure:	[Last	State]				
F1 Help	† ↓	Select Item	<b>-</b> /+	Change V	alues	F9	Setup
						Defau	lts
<b>Esc Exit</b>	$\leftarrow \rightarrow$	Select Menu	Enter	Select > S	ubmenu	F10	Save and Exit

## 10.1.20. Boot Setup – XL<sup>2</sup> Motherboard

All options are shown here, however on the BIOS screens it will be necessary to scroll down to see all the options:

			Phoenix Tr	ustedCore <sup>T</sup>	M Setup Uti	ility		
M	Iain A	dvanced	Security	TPM Sta	te Pow	ver	<b>Boot</b>	Exit
							Item Speci	fic Help
								-
Bo	ot priority o	order:						
	USB KEY							
-	USB FDC							
		OW-224E-C	C-(PM)					
	USB CDR							
5:	PCI SCSI:	HTS54104	40 <b>G</b> 9 <b>S</b> A00					
6:	IDE HDD							
7:								
8:								
Ex		n boot order	:					
:	USB KEY							
	USB HDD	<b>)</b> :						
	USB ZIP: USB LS12	) 						
			ot 00CB v124	1				
:	Other USI		00CD V124	<del>-</del>				
•	PCI:	· .						
		etwork Card	[					
:	Legacy							
:	1394 CDR	OM:						
						]		
F1	Help							
Esc	Exit	↑↓	Select Item	<b>-</b> /+	Change V	alues		Setup
							Default	
							F10	Save and Exit

## 10.1.21. Exit Menu – XL<sup>2</sup> Motherboard

		Phoenix Tr	ustedCore <sup>T</sup>	M Setup Ut	ility		
Main	Advanced	Security	TPM Sta	te Pov	ver	Boot	Exit
	ing Changes				Ite	em Specifi	ic Help
	carding Changes tup Defaults	S					
Discard (	•						
Save Cha							
F1 He	lp ↑↓	Select Item	<b>-</b> /+	Change V	Values	<b>F9 S</b>	etup
						Defaults	-
Esc Ex	it ← →	Select Menu	Enter	Select > S	ubmenu	F10 S	ave and Exit

# **Chapter 11 SPARE AND UPGRADE PARTS LIST**

Parts labeled "Reference only" are not orderable and are listed for reference only.

Part numbers with the extension "K" are Field Upgrade Kits.

DESCRIPTION	FTXS#		COMMENT
TeamPoS 3000 XL/XL2 Controller Parts			
CVR TP3K Compact Top Cover/WHT		11000015	
CVR TP3K Compact Right Side/WHT		11000269	
CVR TP3K Compact Left Side/WHT		11000270	
CVR TP3K Compact Side Fill/WHT		11000273	
PNL TP3K Front/Keylock/Compact/WHT		11000019	
PNL TP3K Back/Compact/WHT		11000035	
CVR TP3K Compact Top Cover/BLK		11000016	
CVR TP3K Compact Right Side/BLK		11000271	
CVR TP3K Compact Left Side/BLK		11000272	
CVR TP3K Compact Side Fill/BLK		11000274	
PNL TP3K Front/Keylock/Compact/BLK		11000020	
PNL TP3K Back/Compact/BLK		11000036	
CVR TP3K Standard Cover/WHT		11000017	
PNL TP3K Standard Cover/WHT PNL TP3K Front/Keylock/Standard/WHT		11000017	
PNL TP3K Profil/Regioux/Standard/WTT		11000176	
CVR TP3K Standard Cover/BLK		11000037	
PNL TP3K Front/Keylock/Standard/BLK		110000177	
PNL TP3K Back/Standard/BLK		11000177	
Base Chassis Breakdown		1100000	
Feet		11000327	
Power Supply		11000168	
PSU Fan		11000369	
BackPlane PWA, XL Motherboard		11000178	
BackPlane PWA, 10/10/1000 LAN, XL2		11002056	
Control Panel PWA		11000179	
Control Panel Cable		11000092	
Front Panel Breakdown			
Front Panel Thumb Screw		11000326	
Front Panel Metal Locking Bracket		11000331	
Front Panel Keylock & Key		11000332	
Front Panel CD Hole Cover, WHT		11000333	
Front Panel CD Hole Cover, BLK		11000334	
Front Panel Switch Cover, WHT		11000335	
Front Panel Switch Cover, BLK Chassis Extension		11000336	
ASSY Standard Chassis Extension, with Rubber Feet	11000648		
Motherboard	11000040		
TP3K Motherboard/SHE, XL		11000021	Includes plate
TP3K Motherboard, XL2		11001590	Includes plate
CPU Options		11001030	molados plate
OPN TP3K CPU/1.3 Celeron M	11000027		XL Motherboard Only
CPU, Intel, Celeron M, 1.3 GHz		11000240	
HeatSink - Socket 479		11000235	
OPN TP3K CPU/1.5 Celeron M	11000028		XL Motherboard Only
OF IN THE SIX OF U/ 1.3 OCICIOIT IVI	11000020		AL Mollicipoald Offig

DESCRIPTION	FTVC #		COMMENT
DESCRIPTION  CDL Intel Colored M 4.5 CHz	FTXS#	11000004	COMMENT
CPU, Intel, Celeron M, 1.5 GHz		11000234	
HeatSink - Socket 479	44000000	11000235	VI Mathanhaand Only
OPN TP3K CPU/1.6 Pentium M	11000029	11000000	XL Motherboard Only
CPU, Intel, Pentium M, 1.6 GHz		11000239	
HeatSink - Socket 479	11000011	11000235	W M (1 ) 10 1
OPN TP3K CPU/2.0 Pentium M	11000241	4.4.00.00.40	XL Motherboard Only
CPU, Intel, Pentium M, 2.0 GHz		11000242	
HeatSink - Socket 479		11000235	VI 2 Matherheard Only
OPN TP3K CPU, 2.0G Celeron, M550			XL2 Motherboard Only
OPN TP3K 2.2G, Core 2 Duo, T7500 OPN TP3K 1.8G, Core 2 Duo, T7100		11001774 11002049	XL2 Motherboard Only XL2 Motherboard Only
Memory Options		11002049	ALZ Motherboard Offiy
OPN TP3K Memory/DDR/256MB		11000022	XL Motherboard Only
OPN TP3K Memory/DDR/512MB		11000022	XL Motherboard Only
OPN TP3K Memory/DDR/1GB		11000023	XL Motherboard Only
OPN TP3K Memory/DDR/2G		11000021	1G x 2 - XL Motherboard Only
OPN TP3K Memory, SOD, DDR2, 512MB		11001767	XL2 Motherboard Only
OPN TP3K Memory, SOD, DDR2, 1GB		11001768	XL2 Motherboard Only
OPN TP3K Memory, 2XDDR2, 2G		11001769	XL2 Motherboard Only
OPN TP3K Memory, SOD, DDR2, 2G		11001770	XL2 Motherboard Only
OPN TP3K Memory, 2XDDR2, 4G		11001792	XL2 Motherboard Only
Hard Disk Options			,
OPN TP3K HDD ASSY/2.5"/40GB	11000030		
OPN TP3K HDD ASSY/2.5"/80GB	11001556		
HDD/2.5"/40GB		11000243	
HDD/2.5"/80GB		11001364	
TP3K 2.5" HDD Bracket		11000278	
Screw, Pan head, phillips, SEMS, nickel plated, M3x0.5 x 6mm		11000595	
HDD Plastic Pull Tab		11000732	
Battery Backup Options			
OPN TP3K Battery Backup, 3Year	11000039		
OPN TP3K Battery Backup, 6Year	11000040		
Battery Fuse, Red, 10A	11000361		SPARES ONLY
I/O Board Options			
OPN TP3K I/O BRD/ 3 12VDC PUSB	11000042		
P-USB I/O Board with Panel		11000342	
USB I/O Data Cable		11000343	
ODNI TROK I/O PRD/COMPO	11000042		
OPN TP3K I/O BRD/COMBO  Combo I/O Controller with Panel	11000043	11000345	
Combo I/O Data Cable		11000345	
Combo I/O Power Cable		11000340	
Combo I/O I OWEL Cable		11000347	
OPN TP3K I/O BRD/COMBO&COM	11000292		XL Motherboard Only
OPN TP3K I/O BRD/COMBO (See Above)		11000043	
Comm I/O Board with Panel		11000348	
Comm I/O Data Cable		11000349	
Following Blanking Plates for ref, included in base chassis			
OPN TP3K NO I/O	11000287		Both Long & Short Plates
TP3 I/O Blanking Plate/Short		11000293	-
TP3 I/O Blanking Plate/Long		11000294	
Screw, Pan head, phillips, SEMS, nickel plated, M3x0.5 x 6mm		11000595	
OPN TP3K NO COMM I/O	11000288		Short Plate Only
TP3 I/O Blanking Plate/Short		11000293	
Screw, Pan head, phillips, SEMS, nickel plated, M3x0.5 x 6mm		11000595	

DESCRIPTION  CD Prince Options	FTXS#		COMMENT
CD Drive Options	44000004		
OPN TP3K CD-ROMWHT	11000031		
OPN TP3K CD-ROM/BLK	11000032	11000251	
CD-ROM DRIVE, Standard	11000033	11000251	
OPN TP3K CD-RW/DVD/RLK	11000033		
OPN TP3K CD-RW/DVD/BLK	11000034	11000252	Llog 44000544
		<del>11000252</del>	Use 11002541
CD-RW/DVD-ROM DRIVE REZEL MUT		11002541	
CD-RW/DVD-ROM DRIVE BEZEL, WHT		11002542 <b>11000136</b>	
CD-RW/DVD-ROM DRIVE BEZEL, BLK		11000136	
CD-R Bracket		11000280	
Interface Board		11000291	
CD Sheet		11000368	
CD IDE Cable		11000249	
Cable, CD/DVD Signal, U-ATA Ribbon, 170mm		110002478	XL2 Motherboard Only
CD Power Cable		11002470	XEZ Wotherboard Only
Screw, M2x2.50 Phillips Fillist		11000201	
Add-In Options		17000033	
OPN TP3K WLAN/802.11B/MPCI/ANT		11000142	
OPN LAN ETH 10/100 NET CARD		11000142	
PCI WIRELESS CARD, 802.11 a/b/g		11000053	
Modem USR5670, INT 56K, 1/2 HT, SW Controlled		11000034	
Modem, Internal, USR v.92, PCI, HW Controlled		11000490	
Card, Video/PCI/DVI Bracket, Video Card/PCI/DVI		11001991	
		11001992	
Kit, Flash Storage, Intel 1GB SSD NAND, USB Interface		11002277	
LCD Displays			
LCD Displays DSP D22 12 1"I CD/No touch/WHT		11000738	
DSP D22 12.1"LCD/No touch/WHT		11000738 <del>11000739</del>	use 11001493
DSP D22 12.1"LCD/No touch/WHT DSP D22 12.1"/Resist touch/WHT		<del>11000739</del>	use 11001493
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT		<del>11000739</del> 11001493	use 11001493
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT		<del>11000739</del> 11001493 11000744	use 11001493
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT		11000739 11001493 11000744 11000742	use 11001493
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT		11000739 11001493 11000744 11000742 11000743	use 11001493
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT		11000739 11001493 11000744 11000742 11000743 11000741	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel		11000739 11001493 11000744 11000742 11000743 11000741 11000740	use 11001493 use 11001492
DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"/LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel		11000739 11001493 11000744 11000742 11000743 11000741 11000740 11001492	
DSP D22 12.1"/Resist touch/WHT DSP D22 12.1"/Resist touch/WHT DSP D22 12.1"/ELO Resist touch/WHT DSP D25 15"LCD/No touch/WHT DSP D25 15"/Resist touch/WHT DSP D25A 15"/IR Touch/WHT DSP D22 12.1"/LCD/No touch/BLK wSilver Bezel DSP D22 12.1"/Resist touch/BLK wSilver Bezel DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel DSP D25 15"LCD/No touch/BLK wSilver Bezel		11000739 11001493 11000744 11000742 11000743 11000741 11000740 11001492 11000747	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel		11000739 11001493 11000744 11000742 11000743 11000741 11000749 11000747 11000745	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel	11002550	11000739 11001493 11000744 11000742 11000743 11000741 11000740 11001492 11000747	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External	11002550	11000739 11001493 11000744 11000742 11000743 11000741 11000749 11001492 11000745 11000746	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display	11002550	1100749 11001493 11000744 11000742 11000743 11000741 11000749 11000747 11000745 11000746	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm	11002550	1100749 11001493 11000744 11000742 11000743 11000741 11000747 11000747 11000745 11000746	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT	11002550	11001493 11001493 11000744 11000742 11000743 11000741 11000746 11000745 11000746 11002379 11002459 11000600	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D22 VESA Back Cover/BLK	11002550	11000739 11001493 11000744 11000742 11000743 11000741 11000746 11000745 11000746 11002379 11002459 11000600 11000601	
DSP D22 12.1"/ECD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D25 15"/CD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"/CD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"/CD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT	11002550	11000749 11000744 11000742 11000743 11000741 11000746 11000745 11000746 11002379 11002459 11000600 11000601 11000602	
DSP D22 12.1"/ECD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK	11002550	11000749 11000744 11000742 11000743 11000741 11000746 11000745 11000746 11002379 11002459 11000600 11000601 11000602 11000603	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK  Kit, D25 Vesa Mount Bracket, WHT	11002550	11000743 11000744 11000742 11000743 11000741 11000745 11000746 11002379 11002459 11000600 11000601 11000603 110002842	
DSP D22 12.1"/CD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK  Kit, D25 Vesa Mount Bracket, WHT  Kit, D25 Vesa Mount Bracket, BLK	11002550	11000749 11000744 11000742 11000743 11000741 11000746 11000745 11000746 11002379 11002459 11000600 11000601 11000602 11000603	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK  Kit, D25 Vesa Mount Bracket, WHT  Kit, D25 Vesa Mount Bracket, BLK  LCD Display Stands		11000743 11000744 11000742 11000743 11000741 11000745 11000746 11002379 11002459 11000600 11000601 11000603 110002842	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK  OPN D25 VESA Back Cover/BLK  Kit, D25 Vesa Mount Bracket, WHT  Kit, D25 Vesa Mount Bracket, BLK  LCD Display Stands  OPN D22/25 Stand/Stacked/WHT	11002550	1100743 1100744 11000742 11000743 11000741 11000747 11000745 11000745 11000745 11000600 11000601 11000601 11000603 11002842 11002860	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK  Kit, D25 Vesa Mount Bracket, WHT  Kit, D25 Vesa Mount Bracket, BLK  LCD Display Stands  OPN D22/25 Stand/Stacked/WHT  D22/D25 Stand, Stacked, WHT		11000749 11001493 11000744 11000742 11000743 11000741 11000747 11000745 11000746 11002379 11002459 11000600 11000601 11000602 11000603 11002860	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK  Kit, D25 Vesa Mount Bracket, WHT  Kit, D25 Vesa Mount Bracket, WHT  Kit, D25 Vesa Mount Bracket, BLK  LCD Display Stands  OPN D22/D25 Stand/Stacked/WHT  D22/D25 Stand, Stacked, WHT  LCD Mounting Bracket, Stacked		11000749 11000744 11000742 11000743 11000741 11000747 11000745 11000746 11002379 11002459 11000600 11000601 11000602 11000603 11002860	
DSP D22 12.1"LCD/No touch/WHT  DSP D22 12.1"/Resist touch/WHT  DSP D22 12.1"/ELO Resist touch/WHT  DSP D25 15"LCD/No touch/WHT  DSP D25 15"/Resist touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D25A 15"/IR Touch/WHT  DSP D22 12.1"LCD/No touch/BLK wSilver Bezel  DSP D22 12.1"/Resist touch/BLK wSilver Bezel  DSP D22 12.1"/ELO Resist touch/BLK wSilver Bezel  DSP D25 15"LCD/No touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25 15"/Resist touch/BLK wSilver Bezel  DSP D25A 15"/IR Touch/BLK wSilver Bezel  PSU Kit, External  PSU, 12VDC \$3.3A, 40W, 110-240VACLCD Display  Cable, D22/D25 LCD Display to DC Jack, 225.0mm  OPN D22 VESA Back Cover/WHT  OPN D25 VESA Back Cover/WHT  OPN D25 VESA Back Cover/BLK  Kit, D25 Vesa Mount Bracket, WHT  Kit, D25 Vesa Mount Bracket, BLK  LCD Display Stands  OPN D22/25 Stand/Stacked/WHT  D22/D25 Stand, Stacked, WHT		11000749 11001493 11000744 11000742 11000743 11000741 11000747 11000745 11000746 11002379 11002459 11000600 11000601 11000602 11000603 11002860	

DESCRIPTION	ETVC #		COMMENT
DESCRIPTION D22/D25 Stand Stanked BLK	FTXS#	11000252	COMMENT
D22/D25 Stand, Stacked, BLK		11000353	
LCD Mounting Bracket, Stacked		11000316 11000596	
Screw, Pan head phillips, SEMS, nickel plated M3x0.5 x 8mm OPN, D22/25 Stand/Dual Stacked, WHT	11000481	11000090	
Stand, Dual Stacked, D22/D25 LCD, WHT	11000461	11000482	
Mount Bracket, TP3K, LCD		11000402	
Screw, Pan Hd, Phil, Sems, M3x8		11000516	
Stand Assy, Dual Stacked, D22/D25 LCD, BLK	11000484	11000590	
Stand, Dual Stacked, D22/D25 LCD, BLK	11000404	11000485	
Mount Bracket, TP3K, LCD		11000316	
Screw, Pan Hd, Phil, Sems, M3x8		11000516	
TP2K Stacked Stand	90001589		
Plate, Stacking, TP2K D15 Stack Stand, White		11001634	
Base Adapter, TP3K, D25 LCD Display for use on TP2K		11000939	
Assy, Dummy Cover, TP3K LCD Display to TP2K		11000940	
Standoff, Male/Female M3x0.5 Thread, 6mm Hex, 13mm			
Length, Stainless		11002569	
Washer, Flat, Zinc, M3		11001294	
Washer, Split Lock, Zinc-tri plated, M3	<u>.</u> .	11002030	
Filler, Fix Metal (Bracket) Screw, Flat head, C-Sink, Phillips, nickel plated, M3 X 0.5 X	CA	32154-Y157	
8mm		11000593	
Doc, Assembly Instructions, D25 LCD on TP2K	Г	0900000234	
OPN D22/25 Stand/Dispers/WHT	11000074		
OPN D22/25 Stand/Dispers/BLK	11000075		
LCD Display Options			
OPN D22/25 MSR 3-Track/WHT		11002246	Replaces 11000091
OPN KEYPAD MSR/D22&D25/WHT		11002247	Replaces 11000093
OPN D22/25 MSR 3-Track/BLK		11002248	Replaces 11000094
OPN KEYPAD MSR/D22&D25/BLK		11002249	Replaces 11000096
MSR/3-Track		11000141	
WOND-Hack		11000141	
Customer Displays			
DSP VF60 VFD/2 x 20/WHT		11000076	
DSP VF60 VFD/2 x 20/BLK		11000077	
Customer Display Options			
OPN VF60 Pole/Integrated/WHT		11000078	Telescoping Pole
OPN VF60 Pole/Integrated/BLK		11000079	Telescoping Pole
OPN VF60 Pole Kit/0.15M/WHT	11000300		
Adapter, Display Collet, WHT		11000313	
Adapter, Display Collet, WHT Mount for Display Pole, WHT		11000313 11000314	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT		11000314	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet		11000314 11000315 11000317	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19		11000314 11000315	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19  OPN VF60 Pole Kit/0.15M/BLK	11000301	11000314 11000315 11000317	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19  OPN VF60 Pole Kit/0.15M/BLK Adapter, Display Collet, BLK		11000314 11000315 11000317 11000045 11000321	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19 OPN VF60 Pole Kit/0.15M/BLK Adapter, Display Collet, BLK Mount for Display Pole, BLK		11000314 11000315 11000317 11000045 11000321 11000322	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19  OPN VF60 Pole Kit/0.15M/BLK Adapter, Display Collet, BLK Mount for Display Pole, BLK Plastic Cap, Dispersed Config, BLK		11000314 11000315 11000317 11000045 11000321 11000322 11000323	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19 OPN VF60 Pole Kit/0.15M/BLK Adapter, Display Collet, BLK Mount for Display Pole, BLK		11000314 11000315 11000317 11000045 11000321 11000322	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19  OPN VF60 Pole Kit/0.15M/BLK Adapter, Display Collet, BLK Mount for Display Pole, BLK Plastic Cap, Dispersed Config, BLK Display Pole, 0.15M, BLK Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19		11000314 11000315 11000317 11000045 11000321 11000322 11000323	
Mount for Display Pole, WHT Plastic Cap, Dispersed Config, WHT Display Pole, 0.15M, WHT Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19  OPN VF60 Pole Kit/0.15M/BLK Adapter, Display Collet, BLK Mount for Display Pole, BLK Plastic Cap, Dispersed Config, BLK Display Pole, 0.15M, BLK Screw, pan head tapping, phillips cross recessed w/ gimlet		11000314 11000315 11000317 11000045 11000321 11000322 11000323 11000324	

DESCRIPTION	FTXS#		COMMENT
Mount for Display Pole, WHT	LIV2#	11000314	COMMENT
Plastic Cap, Dispersed Config, WHT		11000314	
Display Pole, 0.3M, WHT		11000313	
Screw, pan head tapping, phillips cross recessed w/ gimlet		11000316	
point, m4 8x19		11000045	
OPN VF60 Pole Kit/0.3M/BLK	11000303		
Adapter, Display Collet, BLK		11000321	
Mount for Display Pole, BLK		11000322	
Plastic Cap, Dispersed Config, BLK		11000323	
Display Pole, 0.3M, BLK		11000325	
Screw, pan head tapping, phillips cross recessed w/ gimlet			
point, m4 8x19		11000045	
OPN VF60 Pole Kit/0.6M/WHT	11000304		
Adapter, Display Collet, WHT		11000313	
Mount for Display Pole, WHT		11000314	
Plastic Cap, Dispersed Config, WHT		11000315	
Display Pole, 0.6M, WHT		11000319	
Screw, pan head tapping, phillips cross recessed w/ gimlet point, m4 8x19		11000045	
OPN VF60 Pole Kit/0.6M/BLK	11000305	11000043	
Adapter, Display Collet, BLK	11000303	11000321	
Mount for Display Pole, BLK		11000321	
Plastic Cap, Dispersed Config, BLK		11000322	
Display Pole, 0.6M, BLK		11000323	
Screw, pan head tapping, phillips cross recessed w/ gimlet		11000320	
point, m4 8x19		11000045	
OPN VF50/VF60 POLE BASE/WHT	11000306		
Pole Base VF50/VF60, WHT		11000289	
Screw, Pan head, phillips, SEMS, nickel plated, M5x0.8 x 10		44000040	
mm Dallar Frank		11000046	
Rubber Feet	4400000	11000327	
OPN VF50/VF60 POLE BASE/BLK	11000307	4400000	
Pole Base VF50/VF60, BLK Screw, Pan head, phillips, SEMS, nickel plated, M5x0.8 x 10		11000290	
mm		11000598	
Rubber Feet		11000327	
Printers			
PTR CT10 Therm/Dual Color/WHT		11000133	Replaces PRT-1006
PTR CT10 Therm/Dual Color/BLK		11000134	•
PTR DT50III/WHT		11000187	
PTR DT50III/BLK		11000197	
DT50x RS232 Interface		11000189	
DT50x USB Interface		11000190	
Printer Options			
OPN TP3K CT10 Spacer/CMPT/WHT	11000123		
Spacer, PRS, CT-10 Printer, WHT		11000295	
Spacer, PRF, CT-10 Printer, WHT		11000297	
Front of Printer Spacer Bracket		11000380	
Printer Bracket		11000254	
Bracket, DT50X Spacer		11000296	Spacer Bracket, Between PTR/LCD
Screw Pan head, Phillips, SEMS, nickel plated M3x0.5 x 10mm		11000597	
Screw Flat head, C-sink, Phillips, nickel plated M3x0.5 x 8mm		11000593	
OPN TP3K CT10 Spacer/CMPT/BLK	11000124		
Spacer, PRS, CT-10 Printer, BLK	-	11000387	
Spacer, PRF, CT-10 Printer, BLK		11000388	
• • , , • • • • • • • • • • • • • • • •			

PERCENTION	==\( \( \)		20111515
DESCRIPTION  Execut of Printer Spacer Product	FTXS#	11000000	COMMENT
Front of Printer Spacer Bracket Printer Bracket		11000380 11000254	
			On a sea Bread at Batana a RTD/LOD
Bracket, DT50X Spacer		11000296	Spacer Bracket, Between PTR/LCD
Screw Pan head, Phillips, SEMS, nickel plated M3x0.5 x 10mm		11000597	
Screw Flat head, C-sink, Phillips, nickel plated M3x0.5 x 8mm		11000593	
OPN TP3K Bracket/DT50X	11000056		
DT50 Mounting Bracket, Stacked		11000377	
Screw Flat head, C-sink, Phillips, nickel plated M3x0.5 x 8mm		11000593	
OPN TP3K DT50 Spacer/STD/WHT	11000125		
DT50 Spacer TP3K Standard/WHT		11000298	
Spacer Bracket		11000296	
Screw Flat head, C-sink, Phillips, nickel plated M3x0.5 x 8mm		11000593	
Screw Flat flead, C-Sillik, Fillilips, flicker plated MSX0.5 x offill		11000595	
OPN TP3K DT50 Spacer/ STD/BLK	11000126		
DT50 Spacer TP3K Standard/BLK		11000299	
Spacer Bracket		11000296	
Screw Flat head, C-sink, Phillips, nickel plated M3x0.5 x 8mm		11000593	
Kuba			
KYB, 133UQ, WHT		90000598	
KYB, 133UQ, Keylock, WHT		90000625	
KYB, 133UQ, MSR, WHT		90000626	
KYB, 133UQ, Keylock, MSR, WHT		90000627	
KYB, 133UQ, MSR, Touch Pad, WHT		90000628	
KYB, 133UQ, MSR, Touch Pad, Keylock, WHT		90000629	
KYB, 133UQ, Keylock		11001542	
KYB, 133UQ, No Options, BLK		90001515	
KYB, 133UQ Keylock, BLK		90001516	
KYB, 133UQ MSR, BLK		90001517	
KYB, 133UQ, Keylock, MSR, BLK		90001518	
KYB, 133UQ, MSR, Touch Pad, Keylock, BLK		90001519	
KYB, 133UQ, Touch Pad, BLK KYB, 133UQ, MSR, Touch Pad, BLK		90001520 90001493	
KYB, 133AU, WHT		11001684	
KYB, 133AU, TouchPad, WHT		11001685	
KYB, 133AU, MSR, WHT		11001686	
KYB, 133AU, Keylock, MSR, WHT		11001687	
KYB, 133AU, MSR, Touchpad, WHT		11001688	
KYB, 133AU, Keylock, MSR, Touchpad, WHT		11001689	
KYB, 133AU, MSR, Touch Pad, BLK		11001694	
KYB, 133AU, BLK		11001695	
KYB, 133AU, Keylock, BLK		11001696	
KYB, 133AU, MSR, BLK		11001697	
KYB, 133AU, Keylock, MSR, BLK		11001698	
KYB, 133AU, Keylock, MSR, Touchpad, BLK		11001699	
KYB, 133AU, Touchpad, BLK		11001700	
OPN TP3K 133UQ/AU KYB Bracket, Stacked STD	11000339		
133UQ/AU Kyb Bracket, Stacked Standard		11000340	
Screw Flat head, C-sink, Phillips, nickel plated M3x0.5 x 8mm		11000593	
Filler, Keyboard, White	11001320		
Filler, Keyboard, Black	11002524		

DESCRIPTION  DISCRIPTION	FTXS#	COMMENT
Blank Tiles, Gray, Qty=100, Fill unused positions	90000731	
Keycap Kit, 1x1, Keycap/Lens/Leveler, Qty=100, WHT	90000732	
Keycap Kit, 1x2, Keycap/Lens/Leveler, Qty=100, WHT	90000733	
Keycap Kit, 2x2, Keycap/Lens/Leveler, Qty=100, WHT	90000734	
Kit, Keycaps, 1x1, Caps/Lens/Levelor, x100, BLK	11001637	
Kit, Keycaps, 1x2, Caps/Lens/Levelor, x100, BLK	11001638	
Kit, Keycaps, 2x2, Caps/Lens/Levelor, x100, BLK	11001639	
Tiles, Blank, x100, BLK	11001640	
Keylock with Keys, 133UQ/AU	90000601	
Cash Drawers		
CDR TP5C Compact, No Lock, WHT	11000147	Inc 4B/6C Till
CDR TP5C Compact, No Lock, BLK	11000148	Inc 4B/6C Till
CDR TP5C Compact, Lock, WHT	11000149	Inc 4B/6C Till
CDR TP5C Compact, Lock, BLK	11000150	Inc 4B/6C Till
CDR TP15 Standard, No Lock, WHT	11001467	Inc 5B/6C Till
CDR TP15 Standard, No Lock, BLK	11001468	Inc 5B/6C Till
CDR TP15 Standard, Lock, WHT	11000153	Inc 5B/6C Till
CDR TP15 Standard, Lock, BLK	11000154	Inc 5B/6C Till
ODN TREO TIL OLIVINI A DIWA C		
OPN TP5C Till, Compact, 3 Bill/6 Coin	11000364	
OPN TP5C Till Cover with Keys, Compact	11000365	
OPN TP15 Till, Standard, 5 Bill/6 Coin	11000366	
OPN TP15 Till Cover with Keys, Standard	11000367	05.0550 0.007
Keylock & 2Keys, Compact or Standard	11000058	SPARES ONLY
Key, TP15 CashDrawer	11001496	SPARES ONLY
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT	<del>11000097</del>	Use 11002797
Cables	<del>11000097</del> 11002797	Use 11002797
Cables CBL D22 D25 Pwrd USB/0.65M/WHT		Use 11002797 Use 11002798
Cables CBL D22 D25 Pwrd USB/0.65M/WHT CBL D22 D25 Pwrd USB/0.65M/WHT	11002797	
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT	11002797 <del>11000098</del>	
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT	11002797 <del>11000098</del> 11002798	Use 11002798
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT	11002797 <del>11000098</del> 11002798 <del>11000070</del>	Use 11002798
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT	11002797 <del>11000098</del> 11002798 <del>11000070</del> 11002799	Use 11002798 Use 11002799
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK	11002797 <del>11000098</del> 11002798 <del>11000070</del> 11002799 <del>11000100</del>	Use 11002798 Use 11002799
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK	11002797 <del>11000098</del> 11002798 <del>11000070</del> 11002799 <del>11000100</del> <b>11002800</b>	Use 11002798 Use 11002799 Use 11002800
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK	11002797 11000098 11002798 11002799 11002799 11002800 11000101	Use 11002798 Use 11002799 Use 11002800
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK	11002797 11000098 11002798 11002799 11002799 11002800 11002801	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK	11002797 11000098 11002798 11002799 11002799 11002800 11002801 11002801 11002801	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/3.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/WHT	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/3.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/0.65M/BLK	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/0.65M/BLK  CBL D22 D25 VGA/0.65M/BLK  CBL D22 D25 VGA/0.65M/BLK	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/2.0M/BLK	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/2.0M/BLK  CBL D22 D25 VGA/2.0M/BLK  CBL D22 D25 VGA/2.0M/BLK  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 D25 VGA/4.0M/BLK	11002797	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/2.0M/BLK  CBL D22 D25 VGA/2.0M/BLK  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/0.65M/WHT	11002797 1100098 11002798 11002799 11002799 11002800 11002800 11002801 11002802 11000103 11000104 11000105 11000106 11000108 11000109 11000109	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/2.0M/WHT  CBL D22 D25 DVI/2.0M/WHT  CBL D22 D25 DVI/2.0M/WHT	11002797 1100098 11002798 11002799 11002799 11002800 11002800 11002801 11002802 11000103 11000104 11000105 11000106 11000107 11000108 11000109 11000110	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 DVI/0.65M/BLK  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/2.0M/WHT  CBL D22 D25 DVI/4.0M/WHT	11002797 11000098 11002798 11002799 11002799 11002800 11002800 11002801 11002802 11000103 11000104 11000105 11000108 11000109 11000109 11000110 11000111	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/4.0M/WHT	11002797 1100098 11002798 11002799 11002799 11002800 11002800 11002801 11002802 11000103 11000104 11000105 11000107 11000108 11000109 11000110 11000111 11000112 11000113	Use 11002798 Use 11002799 Use 11002800 Use 11002801
Cables  CBL D22 D25 Pwrd USB/0.65M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/2.0M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/3.8M/WHT  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/0.65M/BLK  CBL D22 D25 Pwrd USB/2.0M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 Pwrd USB/3.8M/BLK  CBL D22 D25 VGA/0.65M/WHT  CBL D22 D25 VGA/2.0M/WHT  CBL D22 D25 VGA/4.0M/WHT  CBL D22 D25 VGA/2.0M/BLK  CBL D22 D25 VGA/4.0M/BLK  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/0.65M/WHT  CBL D22 D25 DVI/4.0M/WHT  CBL D22 D25 DVI/4.0M/BLK  CBL D22 D25 DVI/4.0M/BLK  CBL D22 D25 DVI/4.0M/BLK  CBL D22 D25 DVI/4.0M/BLK	11002797	Use 11002798 Use 11002800 Use 11002801 Use 11002802

DESCRIPTION	FTXS#	COMMENT
CBL D22 D25 USB A-A/0.65M/BLK	11000120	LCD to external PSU
CBL D22 D25 USB A-A/2.0M/BLK	11000121	LCD to external PSU
CBL D22 D25 USB A-A/3.8M/BLK	11000122	LCD to external PSU
CBL D22 D25 Audio/0.7M/WHT	11000127	
CBL D22 D25 Audio/2.0M/WHT	11000128	
CBL D22 D25 Audio/4.0M/WHT	11000129	
CBL D22 D25 Audio/0.7M/BLK	11000130	
CBL D22 D25 Audio/2.0M/BLK	11000131	
CBL D22 D25 Audio/4.0M/BLK	11000132	
CBL PTR USB/24V PWR/0.65M/WHT	11000071	Use 11002782
CBL PTR USB/24V PWR/0.65M/WHT	11002782	
CBL PTR USB/24V PWR/3.8M/WHT	<del>11000072</del>	Use 11002783
CBL PTR USB/24V PWR/3.8M/WHT	11002783	
CBL PTR USB/24V PWR/0.65M/BLK	<del>11000137</del>	Use 11002784
CBL PTR USB/24V PWR/0.65M/BLK	11002784	
CBL PTR USB/24V PWR/3.8M/BLK	11000411	Use 11002785
CBL PTR USB/24V PWR/3.8M/BLK	<del>11000138</del>	Use 11002785
CBL PTR USB/24V PWR/3.8M/BLK	11002785	
CBL 133UQ/AU USB A-B/1.2M/WHT	11000143	
CBL 133UQ/AU USB A-B/1.2M/BLK	11000144	
CBL 133UQ/AU USB A-B/3.5M/WHT	11000145	
CBL 133UQ/AU USB A-B/3.5M/BLK	11000146	
CBL 133UQ PS2, Kyb/Mous, 1.2M, WHT	11000701	Replaces 90000650
CBL 133UQ PS2, Kyb/Mous, 2.0M, WHT	11000702	Replaces 90000651
CBL 133UQ PS2, Kyb/Mous, 1.2M, BLK	11000703	
CBL 133UQ PS2, Kyb/Mous, 2.0M, BLK	11000704	
CBL ASSY, TP15/TP5C to TP3K, RJ45, 0.5M, WHT	11000155	
CBL ASSY, TP15/TP5C to TP3K, RJ45, 0.5M, BLK	11000156	
CBL ASSY, TP15/TP5C to TP3K, RJ45, 4.0M, WHT	11000157	
CBL ASSY, TP15/TP5C to TP3K, RJ45, 4.0M, BLK	11000158	
CBL ASSY, TP15/TP5C to TP3K, RJ45, 2.0M, WHT	11000381	
CBL ASSY, TP15/TP5C to TP3K, RJ45, 2.0M, BLK	11000383	
CBL TP15/TP5C Dual TP3K/Stacked/WHT	11000159	Y-type
CBL TP15/TP5C Dual TP3K/Stacked/BLK	11000160	Y-type
CBL TP15/TP5C Dual/4.0M/WHT	11000161	
CBL TP15/TP5C Dual/4.0M/BLK	11000162	
CBL TP15/TP5C CD to PTR/0.5/WHT	11000163	
CBL TP15/TP5C CD to PTR/0.5/BLK	11000164	
CBL TP15/TP5C CD to PTR/2.0/WHT	11000165	
CBL TP15/TP5C CD to PTR/2.0/BLK	11000166	
CBL TP15/TP5C CD to PTR/4.0/WHT	11000382	
CBL TP15/TP5C CD to PTR/4.0/BLK	11000384	
CBL TP15/TP5C Dual/2.0M/WHT	11000385	Y-type
CBL TP15/TP5C Dual/2.0M/BLK	11000386	Y-type
CBL VF60 Pwrd USB/0.85M/WHT	<del>11000080</del>	Use 11002791
CBL VF60 Pwrd USB/0.85M/WHT	11002791	
CBL VF60 Pwrd USB/1.5M/WHT	<del>11000081</del>	Use 11002792
CBL VF60 Pwrd USB/1.5M/WHT	11002792	
CBL VF60 Pwrd USB/4.0M/WHT	<del>11000082</del>	Use 11002793
CBL VF60 Pwrd USB/4.0M/WHT	11002793	
CBL VF60 Pwrd USB/0.85M/BLK	<del>11000083</del>	Use 11002794

DESCRIPTION	FTXS #	COMMENT
CBL VF60 Pwrd USB/0.85M/BLK	11002794	
CBL VF60 Pwrd USB/1.5M/BLK	<del>11000084</del>	Use 11002795
CBL VF60 Pwrd USB/1.5M/BLK	11002795	
CBL VF60 Pwrd USB/4.0M/BLK	<del>11000085</del>	Use 11002796
CBL VF60 Pwrd USB/4.0M/BLK	11002796	
CBL VF50 Pwrd USB/0.85M/WHT	11000065	
CBL VF50 Pwrd USB/1.5M/WHT	11000066	
CBL VF50 Pwrd USB/3.8M/WHT	<del>11000686</del>	Use 11002790
CBL VF50 Pwrd USB/3.8M/WHT	11002790	
CBL 92U USB, 12V/0.60M/WHT	<del>11000025</del>	Use 11002786
CBL 92U USB, 12V/0.60M/WHT	11002786	
CBL 92U USB, 12V/3.8M/WHT	<del>11000026</del>	Use 11002787
CBL 92U USB, 12V/3.8M/WHT	11002787	
CBL 92U USB, 12V/0.65M/BLK	<del>11000328</del>	Use 11002788
CBL 92U USB, 12V/0.65M/BLK	11002788	
CBL 92U USB, 12V/3.8M/BLK	<del>11000329</del>	Use 11002789
CBL 92U USB, 12V/3.8M/BLK	11002789	
CBL Mains, US, WHT	11000044	
CBL Mains, US, BLK	11000049	
DIAGNOSTIC TOOLS	OLD VDE	
TP3K WinCLD	CLD-XPE- 3KXL/XT855/965	Includes WinXPE, WinCLD
Thumb Drive 2GB USB Flash Key	90001601	HOIGGO WIINE, WINGED
Loopback, 24V P-USB	90001541	
Loopback, 12V P-USB	90001540	
Loopback, Serial, Male	80303084	
Loopback, Serial, Male Loopback, Serial, Female	80203279	
Loopback, Selial, Felliale	00203219	

#### **DOCUMENTS & MANUALS**

Loopback, Serial, Printer

Installation & Maintenance Manual, TP3K XL D900000145
Configurator, TP3K XL, XT 11001599
Safety Booklet 11002238



80203280