

TEC POS Terminal

ST-6400 SERIES

Owner's Manual



TOSHIBA TEC CORPORATION

CE Compliance (For EU only)

This product complies with the requirements of EMC and Low Voltage Directives including their amendments.

WARNING

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

Warnung

Dies ist ein Klasse A Produkt. In einer örtlichen Umgebung kann dieses Gerät Funkstörungen verursachen.

ATTENTION

Ce produit est de classe A. Dans un environnement domestique, il peut causer des interférences radio. Auquel cas, l'utilisateur sera amené à prendre les mesures adéquates.

Atención

Este es un producto de la clase A. En ambientes domésticos éste producto puede causar radio interferencias en cuyo caso el usuario deberá tomar las medidas oportunas.

VERWITTIGING

Dit is een klasse A produkt. Het gebruik hiervan kan radio interferenties veroorzaken die de gebruiker ertoe kunnen dwingen sommige maatregelen te moeten treffen.

Schallemission : unter 70 dB (A) nach DIN 45635 (ISO 7779).......Thermodrucker-Type

Schallemission : 71 dB (A) nach DIN 45635 (ISO 7779).......Matrixdrucker-Type

FCC Notice

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.

Changes or modifications not expressly approved by manufacturer for compliance could void the user's authority to operate the equipment.

CAUTION

The connectors, DRW1/2, are exclusive for TOSHIBA TEC Drawer Unit. Do not connect the equipment which is not specified by the manufacturer's instructions.

Safety Summary

Personal safety in handling or maintaining the equipment is extremely important. Warnings and Cautions necessary for safe handling are included in this manual. All warnings and cautions contained in this manual should be read and understood before handling or maintaining the equipment.

Do not attempt to effect repairs or modifications to this equipment. If a fault occurs that cannot be rectified using the procedures described in this manual, turn off the power, unplug the machine, then contact your authorized TOSHIBA TEC representative for assistance.

Meanings of Each Symbol



This symbol indicates warning items (including cautions). Specific warning contents are drawn inside the \triangle symbol. (The symbol on the left indicates a general caution.)



This symbol indicates prohibited actions (prohibited items). Specific prohibited contents are drawn inside or near the \bigcirc symbol. (The symbol on the left indicates "no disassembling".)



This symbol indicates actions which must be performed. Specific instructions are drawn inside or near the ● symbol. (The symbol on the left indicates "disconnect the power cord plug from the outlet".)



· · · · · · · · · · · · · · · · · · ·					
Disconnect the plug. If foreign objects (metal fragments, water, liquids) enter the machines, first turn off the power switches and disconnect the power cord plugs from the outlet, and then contact your authorized TOSHIBA TEC repre- sentative for assistance. Continued use of the machine in that condition may cause fire or electric shock.					
Connect a grounding wire.	Connect a grounding wire. The property grounded. Extension cables should also be grounded. Fire or electric shock can occur on improperly grounded equipment. The property grounded equipment is properly grounded equipment. The property grounded equipment is properly grounded is properly grounded. Fire or electric shock can occur on improperly grounded equipment. The property grounded equipment is properly grounded equipment is properly grounded equipment. The property grounded equipment is properly grounded equipment is properly grounded equipment. The property grounded equipment is properly grounded equipment is properl				
		t there is the risk of per	sonal Iniury or damage to		
	JIION objects if the mac	hines are improperly ha	andled contrary to this indication.		
Dressution					
The following precautic	ons will help to ensure that this mach	ine will continue to functio	n correctly		
Try to avoid loca	ations that have the following adverse	e conditions:	in conectly.		
* Temperature	es out of the specification *	Direct sunlight	* High humidity		
* Shared power socket * Excessive vibration * Dust/Gas					
Do not subject the machine to sudden shocks.					
Do not press the keys too hard. Keys will operate correctly if they are touched lightly.					
Clean the cover	and keyboard, etc. by wiping with a	dry cloth or a cloth soake	d with detergent and wrung out		
thoroughly. Nev	ver use thinner or other volatile solve	nt for cleaning.	of the machine		
At the end of the Try to avoid usit	 At the end of the day, turn the power OFF, then clean and inspect the exterior of the machine. Trute evold using this equipment on the same power supply on high voltage equipment or equipment likely to 				
 Try to avoid using this equipment on the same power supply as high voltage equipment or equipment likely to cause mains interference 					
USE ONLY TO:	SHIBA TEC SPECIFIED consumable	es.			
 DO NOT STORE the consumables where they might be exposed to direct sunlight, high temperatures, high 					
humidity, dust, or gas.					
When moving the second se	ne machine, take hold of the drawer a	and lift the machine.			
 Do not place he 	eavy objects on top of the machines,	as these items may becor	me unbalanced and fall causing		
 Injury. Do not block the 	a ventilation slits of the machines as	this will cause heat to bui	ld up inside the machines and		
may cause fire					
 Do not lean against the machine. It may fall on you and could cause injury. 					
Boguoot Bogordia					
After purchasing the m	ance services. achines contact your authorized TO	SHIBA TEC representativ	e for assistance once per vear or		
so to have the inside of the machines cleaned. Otherwise, dust will build up inside the machines and may cause fire or					
malfunction. Cleaning is particularly effective before humid rainy seasons.					
Our maintenance service performs the periodic checks and other work required to maintain the quality and					

performance of the machines, preventing accidents beforehand.

For details, please consult your authorized TOSHIBA TEC representative for assistance.

• Using insecticides and other chemicals

Do not expose the machines to insecticides or other volatile solvents, as this will deteriorate the cabinet or other parts or cause the paint to peel.

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1. INTRODUCTION

Thank you for purchasing the TOSHIBA TEC ST-6400 Series POS Terminal.

This POS Terminal contains all the high performance register functions necessary for a specialty store POS terminal and enables the user oriented system configuration. By adopting a high-speed CPU (Celeron[™] 566MHz), memory with large capacity, and magnetic device, this POS Terminal flexibly accepts the modification corresponding to the future system environment as the user expects.

This manual describes the functions and handling of this POS terminal and should be read carefully to help gain maximum performance and life from your POS terminal.

For most queries please refer to this manual and keep it safe for future reference.

1.1 Applicable Model



1.2 Accessories

Confirm that all the following Accessories are contained in the carton. If any accessories are missing or damaged, contact your nearest TOSHIBA TEC service representative.

• Accessories common to the all models



• Only for the model including the Dot Printer



• Only for the model including the Display Unit as standard



• Only for the model including the Drawer Unit as standard



Drawer Release Key (1 set: 2 keys)



Cash Drawer Cover Key (1 set: 2 keys)

2. SPECIFICATIONS

2.1 Basic Specifications

		ST-6401-C51/4/7/AXXXX-QM	ST-6401-C5SXXXX-QM	
CPU		Celeron™ 566MHz		
BIOS ROM		512KB Flash ROM		
	Capacity	64MB as standard, expandable up to 512MB		
RAM	Туре	SDRAM, non parity bit, without ECC, PC100 or more		
	Socket	168-pin DIMM connector x 2 slots		
Secondary Cache		128KB (CPU on die)		
PCI Bus		Up to two PCI standard boards can be installed (NOTE 2)		
Interface	Serial I/F (NOTE 3)	COM1, COM2 COM3, COM4, SIO1, SIO2	: D-sub 9-pin male connector : D-sub 9-pin female connector	
	Parallel I/F	LPT: D-sub 25-pin female connecto	r	
	Keyboard I/F	PS-2 interface: 1 channel		
	Mouse I/F	PS-2 interface: 1 channel		
	Drawer I/F	TEC standard 24V drawer: 2 channels		
	VGA I/F (Analogue RGB)	VGA Controller: Intel® 82810E built-	in (Directly AGP connection)	
		Video Memory: The system memory used		
	LAN I/F	IEEE802.3 10BASE-T/100BASE-TX		
	USB I/F	USB1 and USB2: 2 channels		
Floppy Disk Drive		One 3.5-inch FDD (1.44MB/720KB f	ormat) (NOTE 4)	
Hard Disk Drive		3.5-inch, IDE I/F (Dealer option)		
Printer	Printer Model	DPR-245A or 258A series	LT-380	
	Printing Method	2-station dot matrix	Line Thermal Direct	
	Roll Paper Width	45mm (DPR-245A)	80mm	
		58mm (DPR-258A)		
Input Voltage		AC: 100 - 127V +5%/-10%, 50/60 Hz 220 - 240V +10%/-10%, 50/60 Hz		
Power Co	nsumed	180W		
Ambient T	emperature	5°C to 35°C		
Relative H	lumidity	20% to 80% (no condensation)		
Weight		12Kg (excluding options)		
Dimension		Dot Printer Model: 493(W) x 469(D) x 199.5(H) mm without DrawerDot Printer Model: 493(W) x 469(D) x 305 (H) mm with DrawerThermal Printer Model: 493(W) x 469(D) x 192.5(H) mm without Drawer		

NOTES: 1) Celeron[™] is a registered trade mark of Intel Corporation.

- 2) Board size (Lower Slot): 140mm (One board)
 - Board size (Upper Slot): 185mm (One board)
- *3)* Some models are provided with the SIO1 and SIO2 as standard.
- 4) Some models are provided with the 3.5" FDD as standard.

2.2 Option

Option Name	Туре	Description	
Drawer Unit	DRWST-64 Series	24V-drive ESP type drawer Size and Weight: 460(W) x 400(D) x 115(H) mm 8.6Kg	
Remote	LIUST-51 Series	20 characters x 2 lines dot display	
Display Unit	LIUST-53 Series	256 x 64 dot display	
Scanner	HS-530-RS Series	Touch scanner (RS-232C Interface Type)	
Unit LS-770 Series Vertical laser slot scanner		Vertical laser slot scanner	
	LS-770-H Series	Horizontal laser slot scanner	
	LS-780 Series	Vertical laser slot scanner	
	LS-780-H Series	Horizontal laser slot scanner	
FDD	FDDST-51	3.5-inch 1.44MB FDD Unit	
NV-RAM	NVMST-50-32	32KB NV-RAM	
	NVMST-50-128	128KB NV-RAM	
Pole Option	POLST-51	Pole type mounting kit for the LIUST-51/53	
MCR	MCRST-50	Magnetic Card Reader for Normal keyboard type	
Display TFTST-52T 10.4-inch TFT Display with touc		10.4-inch TFT Display with touch panel (without VGA board)	
	TFTST-56T	12.1-inch TFT Display with touch panel (with VGA board)	
VGA Board	VGAST-52-12	VGA board for the TFTST-52T	
Plate	KITST-65-1	VGA board attachment plate for the TFTST-52T	
	KITST-65-2	VGA board attachment plate for the TFTST-56T	



2.3 Receipt/Journal Paper Roll for the Dot Printer

Paper Type	Paper rolled with the print side facing outside.		
Width (W)	45 +0/-1 mm (DPR-245A Series) 58 +0/-1 mm (DPR-258A Series)		
Outer diameter (D)	80 mm		
Paper thickness (T)	0.083 ±0.005 mm		
Weight	54.3±2g/m ²		
Outer core diameter (OD)	25 mm		
Inner core diameter (ID)	18 +0/-0.5 mm		
Recommended paper	45R-80 (MHG01-00105/06) TOSHIBA TEC (DPR-245A Series)		
	58R-80 (MHG01-00109/10) TOSHIBA TEC (DPR-258A Series)		

CAUTION!

Use only paper which meet specified requirements. Use of non-specified paper may shorten the head life of printer, result in problems with print quality, or cause a paper feed failure.

All paper should be handled with care to avoid any damage to the paper. Read the following guideline carefully.

- Do not store the paper for longer than the manufacture's recommended shelf life.
- Store the paper in a cool, dry place. Avoid areas where they would be exposed to direct sunlight, high temperature, high humidity, dust or gas.

For further information please contact your authorised TOSHIBA TEC representative or authorised paper manufacturer.

2.4 Thermal Paper Roll for the Thermal Printer



Paper Type	Thermal paper rolled with the print side facing outside.		
Width (W)	80 +0/-1 mm		
Outer diameter (D)	80 +0.5/-1 mm		
Paper thickness (T)	0.075 ±0.005 mm		
Weight	69±3g/m ²		
Outer core diameter (OD)	18 mm		
Inner core diameter (ID)	12 mm		
Recommended Thermal paper	Paper rolled onto a core are acceptable, however, the paper end shouldnot be pasted to the core.Normal paper:PD150ROHJI PAPER (Japan)Highly storable paper:PD152ROHJI PAPER (Japan)		

CAUTION!

Use only paper which meet specified requirements. Use of non-specified paper may shorten the head life of printer, result in problems with print quality, or cause a paper feed failure.

All paper should be handled with care to avoid any damage to the paper. Read the following guideline carefully.

- Do not store the paper for longer than the manufacture's recommended shelf life.
- Store the paper in a cool, dry place. Avoid areas where they would be exposed to direct sunlight, high temperature, high humidity, dust or gas.
- A contact of chemical or oil may discolor or erase the record.
- Rubbing the paper hard with nail or hard metal may discolor the paper.

For further information please contact your authorised TOSHIBA TEC representative or authorised paper manufacturer.

3. OVERVIEW

3.1 Front/Rear View





NOTES: 1) The above figure shows 2-station dot printer type.

- 2) Some models are provided with the Remote Indicator Unit as standard.
- 3) Some models are provided with the Drawer as standard.
- 4) Some models are provided with the 3.5" FDD as standard.
- 5) As the power cord is not provided for this product, please purchase it locally. For detail specifications, please contact your nearest authorised TOSHIBA TEC representative.
- 6) A 3.5-inch hard disk drive is optional part for the ST-6400 standard models.

<Rear View>



Reset Switch

Speaker Volume

AC Outlet	Connector for the AC outlet, used for the CRT power supply.		
AC Inlet	Connector for the AC inlet.		
P24V	To this DC24V line connector, the power cable of the printer installed in the ST-6400 is connected.		
DRW1.2	A 24V type drawer (DRWST-64, etc) is connectable. The drawer included in the ST- 6400 as standard is connected to the DRW1.		
MOUSE	Connector for the PS-2 type mouse.		
КВ	To this connector, the PS-2 type keyboard installed in the ST-6400 is connected.		
COM1	D-sub 9-pin male type connector (without power supply). The LS-770/780 slot scanner, modem, serial Interface type scale, EFT, etc. are connectable.		
COM2	D-sub 9-pin male type connector (without power supply). The LS-770/780 slot scanner, modem, serial Interface type scale, EFT, etc. are connectable.		
COM3	D-sub 9-pin female type connector (with +5V, +12V output). The LIUST-51/53, RS-232C type hand scanner (HS-530) are connectable.		
COM4	D-sub 9-pin female type connector (with +5V, +12V output). The LIUST-51/53, RS-232C type hand scanner (HS-530) are connectable.		
SIO1·2	Equivalent to COM3 and COM4 (D-Sub 9-pin female).		
VGA	Connector for the CRT.		
LPT1	This is a Centronics interface connector, to which the printer cable of the PC standard printer installed in the ST-6400 is connected.		
USB 1, 2	Connector for the USB(Universal Serial Bus) I/F. USB Mouse, USB Keyboard, etc. can be connected to these connectors.		
LAN	Modular type connector for the 10BASE-T/100BASE-TX LAN interface.		
Speaker Volume	Used to adjust the speaker volume. When turned to left, the sound volume decreases. When turned to right, the sound volume increases.		
Reset Switch	Pressing this switch while the ST-6400 is hung-up resets the unit.		
PCI Slot	Slots for installing the PCI board. Maximum of 2 boards can be installed. Installable board size: Lower slot (PCI1) 140 mm 1 board Upper slot (PCI2) 185 mm 1 board		
Cable Clamp for	The LAN cable is fixed with this cable clamp to prevent the cable being caught in the		

3.2 Control Lock and Mode Selector Keys



3.3 Operation Panel

3.3.1 2-station Dot Printer Type



POWER LED: Green

Lights: The power is supplied. Extinguished: The power is not supplied.

PRINTER LED: Green

Lights: The printer is ready to print. (on-line mode) Extinguished: The printer is not ready to print. (off-line mode)

VALI LED:GreenLights:Validation modeExtinguished:Receipt/journal modeBlinks:Waiting for validation paper.

RECEIPT/JOURNAL PAPER OUT LED: Red

Lights:Detects that receipt/journal paper has almost run out.Extinguished:Not detect that receipt/journal paper has almost run out.(Usual status)

PRINTER Switch

This switch is used to select on-line or off-line. In on-line mode, printing is performed in usual mode. When off-line mode is selected, the printer stops printing after printing the line being printed.

RECEIPT/JOURNAL FEED Switch

This switch is used to feed receipt/journal paper. This switch is effective only when the PRINTER LED is turned off (off-line mode).

3.3.2 Single Station Thermal Printer Type



POWER LED: Green

Lights: The power is supplied. Extinguished: The power is not supplied.

PAPER FEED Switch

Pressing this switch for a short time feeds the paper by one line. Holding it down feeds the paper continuously.

ERROR LED: Red

Indicates different errors by lighting or blinking.

Error Display	Pattern	Resetting Method	
Printer cover open	Illuminated	Close the cover.	
Head up	Illuminated	CLose the printing head.	
Memory check		Disabled	
Head overheat		Automatically reset by temperature drop.	
Macro execution wait		Press the PAPER FEED switch.	
Cutter motorlock		Remove jammed paper.	

PAPER OUT LED: Red

Illuminated when the paper nearly runs out. (Stops after printing the set length)

4. FLOPPY DISK AND FLOPPY DISK DRIVE (with FDD Model)

CAUTION!

When handling a floppy disk, care should be taken as follows:

- Do not place the floppy disk close to any magnetic product.
- Do not use a damaged floppy disk.
- Do not bend the floppy disk.
- Keep the floppy disk away from water.
- Do not expose the floppy disk to direct sunlight.

4.1 Floppy Disk Write Protection

The Floppy Disk contains the program to run the ST-6400. Before using this disk, make absolutely sure to write protect the disk to prevent accidental overwrite.

• How to Write Protect the Floppy Disk

Slide the Write Protect Tab on the reverse side of the Floppy Disk downward to open the Write Protection Hole.



• How to cancel the Write Protect

Slide the Write Protect Tab upward to close the Write Protection Hole.

4.2 Handling the Floppy Disk Drive

The Floppy Disk drive reads and writes data via the Floppy Disk by rotating the disk at a high speed. There are two read/write heads (multiple) in the drive. The heads touch both sides of the disk to perform read or write function.



FDD Active LED: Lit when the Floppy Disk drive reads or writes data in the Floppy Disk.

4.2.1. Loading the Floppy Disk

1) Unlock the FDD Cover to open by pressing the left side of the FDD Lock.



2) Insert the Floppy Disk gently with the label side up until it clicks.



4.2.2. Ejecting the Floppy Disk

CAUTION!

Do not press the eject button while the active LED is lit. Doing so may destroy the data in the floppy disk.

Press the Eject Button on the Floppy Disk Drive. The Floppy Disk pops out to the position where it can be removed by hand.



5. HANDLING OF THE PRINTER (2-station Dot Printer Type)

5.1 Removing the Reciept Cover

Remove the Receipt Cover when the Receipt or Journal Paper Roll is replaced with a new one or when the Store Name/Message Stamp must be replenished with the Ink.

5.1.1 Removing the Receipt Cover

1) Insert the Cover Lock Key into the Cover Lock and turn it 90 degrees clockwise to unlock.



2) Remove the Receipt Cover by lifting both edges of the Receipt Cover.



5.1.2 Attaching the Receipt Cover

1) Align the hooks on the rear of the Receipt Cover with the notches in the lower cover. Then, push down the front side of the Receipt Cover until it clicks, and lock the receipt cover with the key.



5.2 Removing the Ribbon Cover

Remove the Ribbon Cover when the Ribbon Cassette must be replaced.

5.2.1 Removing the Ribbon Cover

- 1) Remove the Receipt Cover. (Refer to "Removing the Receipt Cover.")
- 2) Remove the Ribbon Cover by lifting the left edge of the Ribbon Cover.



5.2.2 Attaching the Ribbon Cover

1) Align the tabs on the front of the Ribbon Cover with the holes in the Top Cover. Then, push down the rear side of the Ribbon Cover until it clicks.



5.3 Installing/Replacing the Reciept Roll 5.3.1 Installing the Receipt Roll

- 1) Remove the Receipt Cover. (Refer to "Removing the Receipt Cover.")
- 2) Cut the paper end to make it straight.



3) Put the Receipt Roll in the left holder so that the paper will be fed from the bottom of the Paper Roll.



4) Insert the paper end into the paper slot until it stops, then feed the paper by pressing the **[RECEIPT FEED]** Switch.



5) Attach the Receipt Cover with the paper end coming out of the receipt outlet. (Refer to "Attaching the Receipt Cover.")

5.3.2 Replacing the Receipt Roll

- 1) Remove the Receipt Cover. (Refer to "Removing the Receipt Cover.")
- 2) Pull up the Green Lever on the receipt side.



3) Remove the remaining paper roll from the rear of the printer.



4) Press down the green lever on receipt side.



5) Install a new paper roll according to steps 2) to 5) of the procedure "Installing the Receipt Roll."

5.4 Installing/Replacing the Journal Roll 5.4.1 Installing the Journal Roll

- 1) Follow Steps 1) and 2) for "Installing the Receipt Roll" in the preceding section.
- 2) Put the Journal Roll in the right holder so that the paper will be fed from the bottom of the Paper Roll.



3) Insert the paper end into the paper slot until it stops, then feed the paper by pressing the **[JOURNAL FEED]** Switch until the leading edge of the journal comes out about 25 cm.



4) Insert the paper end into the slit in the Take-up Reel and wind it around the reel two or three times. Then, place the Take-up Reel on the Take-up Holder.



- 5) Turn the Take-up Reel rearward until slack in paper is taken out.
- 6) Attach the Receipt Cover. (Refer to "Attaching the Receipt Cover.")

5.4.2 Replacing the Journal Roll

- 1) Remove the Receipt Cover. (Refer to "Removing the Receipt Cover.")
- 2) Cut the Journal Paper as shown in the figure.



3) Pull up the Green Lever on the journal side (1). Lift the Take-up Reel to remove paper (2).



4) Press down the Green Lever on journal side.



5) Install a new paper roll according to steps 1) to 6) of the procedure "Installing the Journal Roll."

5.5 Setting/Replacing the Ribbon Cassette 5.5.1 Setting the Ribbon Cassette

- 1) Remove the Receipt Cover and the Ribbon Cover. (Refer to "Removing the Receipt Cover." and "Removing the Ribbon Cover.")
- 2) Push down the Ribbon Cassette until it clicks.



3) Turn the knob of the Ribbon Cassette in the direction of the arrow several times to remove any slack in the ribbon.



4) Attach the Ribbon Cover and the Receipt Cover. (Refer to "Attaching the Ribbon Cover." and "Attaching the Receipt Cover.")

5.5.2 Replacing the Ribbon Cassette

- 1) Remove the Receipt Cover and the Ribbon Cover. (Refer to "Removing the receipt cover." and "Removing the Ribbon Cover.")
- 2) Remove the old Ribbon Cassette by lifting if from the right front side so that it does not make contact with the Top Cover.



3) Set a new Ribbon Cassette according to steps 2) to 4) of the procedure "Setting the Ribbon Cassette."

5.6 Replenishing the Store Name/Message Stamp with Ink

When the Store Name/Message Stamp is installe and printing appears too light, replenish the ink in the following procedure.

- 1) Remove the Receipt Cover. (Refer to "Removing the Receipt Cover.")
- 2) Remove the Store Name/Message Stamp by pulling it as shown in the figure.



3) Apply only two or three drops of ink. The stamp may not print dark immediately. Allow time for ink to saturate the stamp.



4) Install the stamp by inserting it in the direction of the arrow until it clicks.



6. HANDLING OF THE PRINTER (Single Station Thermal Printer Type)

A thermal receipt printer is provided on this unit. (A thermal printer prints thermal receipt paper by applying heat to the paper to react with the chemicals on the paper surface.)

WARNING!

- 1. There is a Cutter Blade inside. Do not touch and disassemble this cutter block.
- 2. After printing, the thermal head may become very hot. Do not touch the thermal head to avoid burning your fingers.

CAUTION!

- 1. Do not subject the thermal receipt paper to water, oil, or heat source as this will darken the paper.
- 2. Do not open the printer cover during printing.

6.1 When using the Auto Loading Function

- 1) Open the Printer Cover.
- 2) Move the Head-up Lever in the direction of the arrow to raise the Printing Head.



3) Cut the end of the paper straight with a pair of scissors. Do not insert the paper into the printer with its end fluffed or bent.



4) Confirm the winding direction of the Paper Roll. Spread the Paper Holder and fit the protrusions into the paper core properly.



5) Insert the end of the paper straight into the paper slot of the printer and close the Printing Head. The paper is automatically pulled in by a constant length.



NOTE: When the inserted paper skews, remove the paper by pulling up the Head-up Lever, raising the Printing Head, and rotating the Paper Feed Knob. Then, reinsert the paper.



6) Close the Printer Cover to finish setting of the Paper Roll.

6.2 When using the Manual Loading Function

CAUTION!

Auto Loading is selected as default. If you want to change it to the manual set, please contact your nearest TOSHIBA TEC service representative.

- 1) Open the Printer Cover.
- 2) Move the Head-up Lever in the direction of the arrow to raise the Printing Head.



3) Insert the end of the paper into the Paper Slot, turn the Paper Feed Knob in the direction of the arrow until the paper end comes out of the auto cutter's paper outlet for about 5cm.



4) When the paper is tilting, correct it and close the Printing Head.



5) Move the Head-up Lever in the direction of the arrow to close the Printing Head. Cut off the surplus paper at the edge of the paper outlet of the auto cutter.



- 6) Close the Printer Cover. The Paper Roll loading has been completed.
- 7) To take out the end of the paper, pull it out straight while the Printing Head is opened.

7. DISPLAY (LIUST-51)

This LIUST-51 is a dot fliorescent display for ANK indication with 20 digits in 2 lines, connected to the ST-6400 POS Terminal. It has a built-in controller and connects to the Control Unit of the ST-6400 with the I/O serial interface (RS-232C or equivalent). It is normally supplied as a stand type, but can be modified to a pole type which are integrated into the ST-6400 terminal.



<Overview of Display Section>



<Display Angle Adjustment>

This line display can be adjusted in vertical (tilt) and horizontal (swivel) direction so that the operator or customer can see it easily.



<u>Tilt direction</u> 10 to 42 degrees above the horizontal level (8° x 4 steps)



Swivel direction 165 degrees on either side from the center (15° x 22 steps)

8. DRAWER

WARNING! When opening the drawer, be careful not to let the drawer hit any person.

This drawer can be used both as an integrated drawer into the ST-6400 terminal, and as a separate remote drawer.



8.1 Manual Drawer Release and Lock

The drawer opens automatically when a registration is performed. In the event of a power failure or other trouble, the drawer can be opened manually in the following manner.

8.1.1 Releasing

Insert the Drawer Release Key into the Drawer Release Lock, then turn the key clockwise. The drawer will now open. The Drawer Release Key can be taken out by returning it to the original position.



8.1.2 Locking

When the drawer is closed, it is automatically locked and will not open without the Drawer Release Key or transaction entries.

8.2 Removing the Drawer

1) Pull the drawer out, and when it stops by the stopper, lift the drawer up and pull it again.



2) When it stops again by the roller fixed in the drawer case, lift it and pull it again.



8.3 Locking the Cash Drawer Cover (CDC)

8.3.1 Locking

Push the Cash Drawer Cover to the back of the drawer. Then, press the cover lightly, insert the key into the key hole in the cover, and turn it to lock.



8.3.2 Unlocking

Unlock the cover using the key, and lift the front end.

8.4 Changing the Layout of the Money Case

1) Open the drawer, then take the Money Case out.



2) Remove the Coin Case from the Money Case.



3) To remove the Partition from the Coin Case, pull the Partition upward while pushing the Coin Case outward.



4) Set the Partition in the groove of the place where you like to set, then push the Partition downward.



5) To change the layout of the Bill Case, it is necessary to remove the Bill Holder. To remove the Bill Holder, insert the tip of the phillips screwdriver in the back of the Bill Holder, then push the phillips screwdriver downward. To remove the Partition, pull the front of the Partition upward.



8.5 Media Slot

The Media Slot provided at the front of the drawer is used to put non-cash media such as check in the drawer without opening it. The non-cash media put from this slot are kept under the Money Case, therefore you can keep them in secret.



9. GENERAL MAINTENANCE

9.1 Cleaning

WARNING!

- 1. Be sure to disconnect the power cord prior to performing any maintenance.
- 2. Do not pour water directly on or wipe the operator's/Customer's display with a soaked cloth, as this may cause fire, electric shock, or machine failure.

CAUTION!

- 1. Never use an organic solvent like thinners or benzene for cleaning. Using such solvents may discolor the covers.
- 2. Do not use any sharp object to clean the operator's/Customer's display. Doing so may cause an operator's/Customer's display failure.

To help retain the high quality and performance of your POS Terminal, it should be cleaned regularly. The greater the usage on the POS Terminal, the more frequent the cleaning. (i.e. low usage = weekly: high usage = daily)

• Cleaning the Operator's Display

Clean the surface of the operator's display with a soft dry cloth or with an electrostatic free cleaner for automated office equipment.

• Cleaning the Covers

Wipe the covers with a soft dry cloth or soft cloth slightly moistened with mild detergent. After using detergent for cleaning, be sure to wipe it off with a slightly moistened cloth.

10. TROUBLESHOOTING

WARNING!

If you cannot solve a problem with the following solutions, do not attempt to repair it yourself. Turn the power off, unplug the POS Terminal, then contact your TOSHIBA TEC representative for assistance.

Symptom	Check Point	Solution
The power does not turn on.	 Is the power cord plugged in correctly? 	Plug in correctly.
	 Is the power supplied to the AC outlet? 	 If it is not a power failure, check for the power supply to the AC outlet with another electric appliance. When the power is not supplied, contact your nearest power company.
	 Has the fuse or circuit breaker blown? 	Check the fuse or circuit breaker.
Registration cannot be performed.	Is the key position set correctly?	Set the key position correctly.
Receipt paper is not issued.	 Is the receipt roll loaded properly? 	 Refer to page 5-3 (Dot Printer Type) or 6-1 (Thermal Printer Type) and load the receipt roll properly.
	 Is the printer jammed with the receipt? 	 Remove the jammed receipt, and reload the receipt roll.
Journal paper is not taken up.	 Is the journal roll loaded properly? 	 Refer to page 5-5 and load the journal roll oroperly.



