

TEC

TEC POS Terminal

ST-70 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 dwigen sommige maatregelen te moeten treffen.

Avviso

Questo è un apparecchio di Classe A. In un ambiente residenziale questo apparecchio può provocare radiodisturbi. In questo caso può essere richiesto all'utilizzatore di prendere misure adeguate.

Schallemission: unter 70dB (A) nach DIN 45635 (ISO7779)

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 this own expense.

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

The EA10953A1 AC adapter should be exclusively used for the ST-70 Series POS Terminal.
The ST-70 Series POS Terminal must be powered by the EA10953A1 AC adapter.

Microsoft and Windows are registered trademarks of Microsoft Corporation.
Celeron is a registered trademark of Intel Corporation.

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 Δ 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 $\text{\textcircled{X}}$ 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 \bullet symbol. (The symbol on the left indicates “disconnect the power cord plug from the outlet”.)



WARNING

This indicates that there is the risk of **death** or **serious injury** if the machines are improperly handled contrary to this indication.



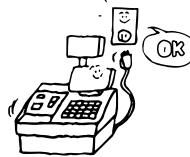
Prohibited

Do not plug in or unplug the power cord plug with wet hands as this may cause **electric shock**.



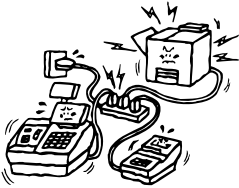
Any other than the specified AC voltage is prohibited.

Do not use voltages other than the voltage (AC) specified on the rating plate, as this may cause **fire** or **electric shock**.



Prohibited

If the machines share the same outlet with any other electrical appliances that consume large amounts of power, the voltage will fluctuate widely each time these appliances operate. Be sure to provide an exclusive outlet for the machine as this may cause **fire** or **electric shock**.



Prohibited

Do not place metal objects or water-filled containers such as flower vases, flower pots or mugs, etc. on top of the machines. If metal objects or spilled liquid enter the machines, this may cause **fire** or **electric shock**.



Prohibited

Do not insert or drop metal, flammable or other foreign objects into the machines through the ventilation slits, as this may cause **fire** or **electric shock**.



Prohibited

Do not scratch, damage or modify the power cords. Also, do not place heavy objects on, pull on, or excessively bend the cords, as this may cause **fire** or **electric shock**.



Disconnect the plug.






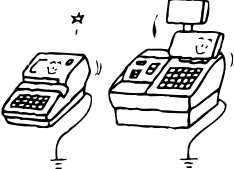


If the machines are dropped or their cabinets damaged, first turn off the power switches and disconnect the power cord plugs from the outlet, and then contact your authorized TOSHIBA TEC representative for assistance. Continued use of the machine in that condition may cause **fire** or **electric shock**.



Disconnect the plug.

Continued use of the machines in an abnormal condition such as when the machines are producing smoke or strange smells may cause **fire** or **electric shock**. In these cases, immediately turn off the power switches and disconnect the power cord plugs from the outlet. Then, contact your authorized TOSHIBA TEC representative for assistance.



 <p>Disconnect the plug.</p> 	<p>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 representative for assistance. Continued use of the machine in that condition may cause fire or electric shock.</p>	 <p>Disconnect the plug.</p> 	<p>When unplugging the power cords, be sure to hold and pull on the plug portion. Pulling on the cord portion may cut or expose the internal wires and cause fire or electric shock.</p>
 <p>Connect a grounding wire.</p> 	<p>Ensure that the equipment is properly grounded. Extension cables should also be grounded. Fire or electric shock could occur on improperly grounded equipment.</p>	 <p>No disassembling.</p> 	<p>Do not remove covers, repair or modify the machine by yourself. You may be injured by high voltage, very hot parts or sharp edges inside the machine. Unauthorized modification is prohibited.</p>



CAUTION

This indicates that there is the risk of personal **Injury** or **damage** to objects if the machines are improperly handled contrary to this indication.

Precautions

The following precautions will help to ensure that this machine will continue to function correctly.

- Try to avoid locations that have the following adverse conditions:
 - * Temperatures out of the specification
 - * Direct sunlight
 - * High humidity
 - * Shared power source
 - * 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 soaked with detergent and wrung out thoroughly. Never use thinner or other volatile solvent for cleaning.
- At the end of the day, turn the power OFF, then clean and inspect the exterior of the machine.
- Try to avoid using this equipment on the same power supply as high voltage equipment or equipment likely to cause mains interference.
- USE ONLY TOSHIBA TEC SPECIFIED consumables.
- DO NOT STORE the consumables where they might be exposed to direct sunlight, high temperatures, high humidity, dust, or gas.
- When moving the machine, take hold of the drawer and lift the machine.
- Do not place heavy objects on top of the machines, as these items may become unbalanced and fall causing **injury**.
- Do not block the ventilation slits of the machines, as this will cause heat to build up inside the machines and may cause **fire**.
- Do not lean against the machine. It may fall on you and could cause **injury**.
- Place the machine on a stable and level surface.

Request Regarding Maintenance

- Utilize our maintenance services.
After purchasing the machine, contact your authorized TOSHIBA TEC representative for assistance once a year to have the inside of the machine cleaned. Otherwise, dust will build up inside the machines and may cause a **fire** or a **malfunction**. Cleaning is particularly effective before humid rainy seasons.
- Our preventive 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. This will cause the cabinet or other parts to deteriorate or cause the paint to peel.

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CAUTION!

1. *This manual may not be copied in whole or in part without prior written permission of TOSHIBA TEC.*
2. *The contents of this manual may be changed without notification.*
3. *Please refer to your local Authorised Service representative with regard to any queries you may have in this manual.*

1. INTRODUCTION

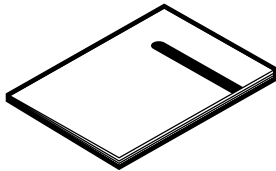
Thank you for choosing the TEC POS Terminal. This POS terminal contains all the high performance register functions necessary for a specialty store POS terminal and enables the user oriented system configuration.

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 Accessories

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

Owner's Manual (1 copy)



AC Adapter (1 pc.)



Cable Clamp (2 pcs.)



Ferrite Core (2 pcs.)
(For the Drawer Cable)



Ferrite Core (1 pc.)
(For the LAN Cable)



HDD Plate (2 pcs.)



Double Sems Screw
M-3x6 (8 pcs.)



Double Sems Screw
M-3x8 (4 pcs.)

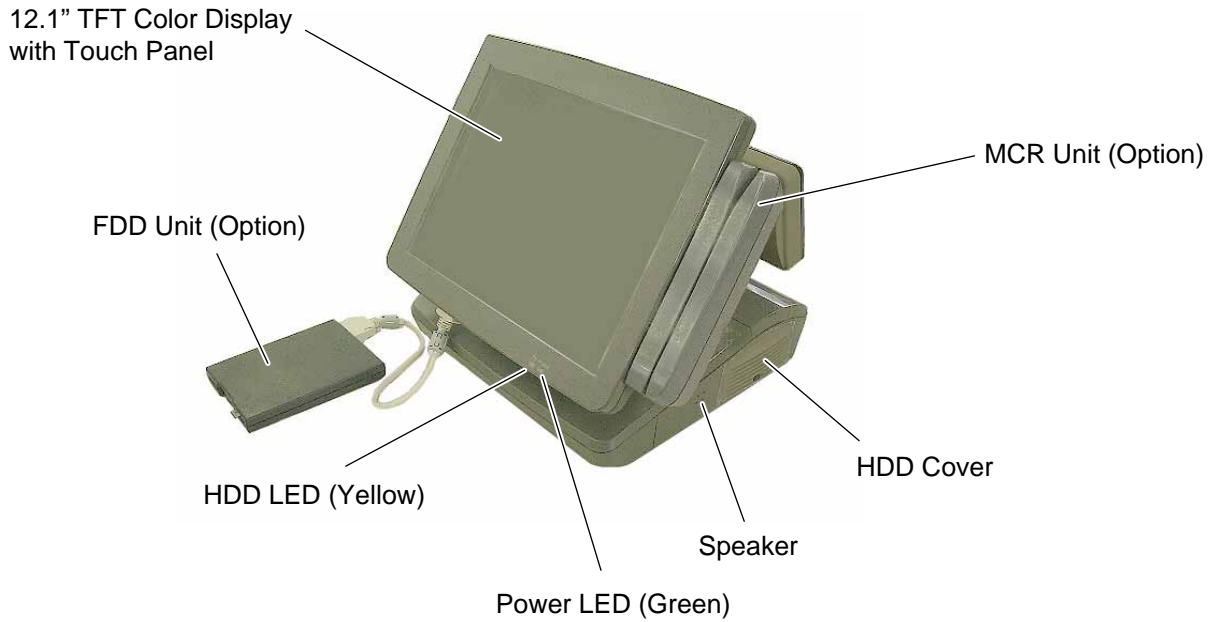


HDD Bottom Cushion
(2 pcs.)

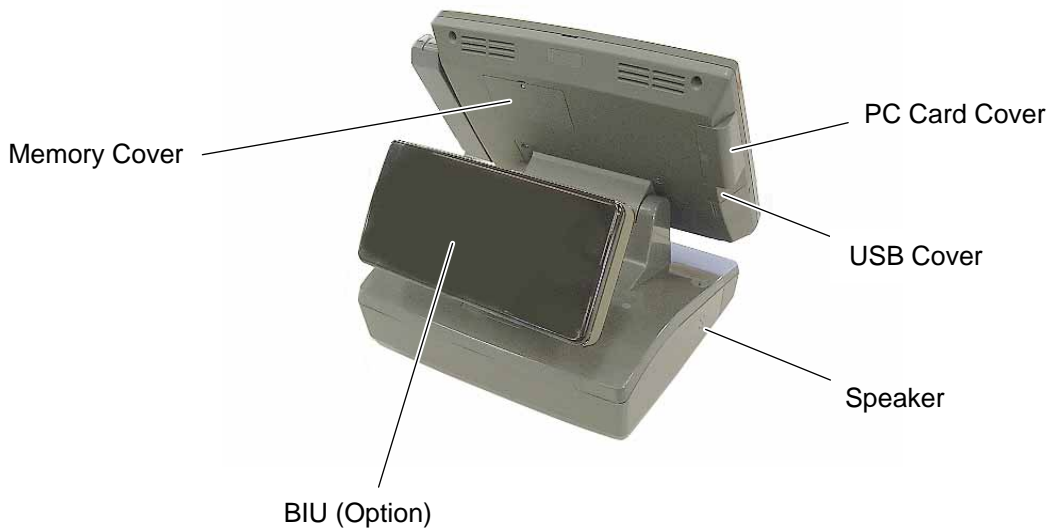


2. APPEARANCE

2.1 Front View

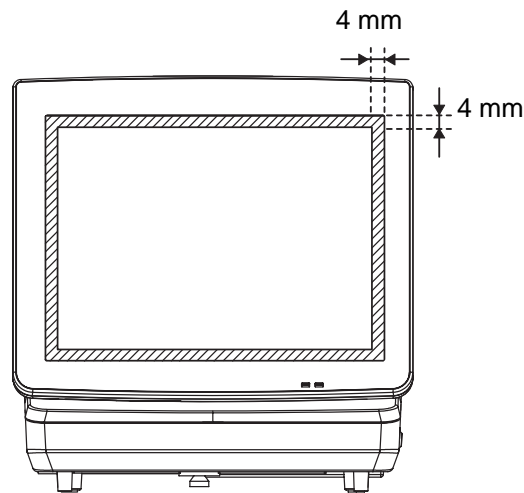


2.2 Rear View



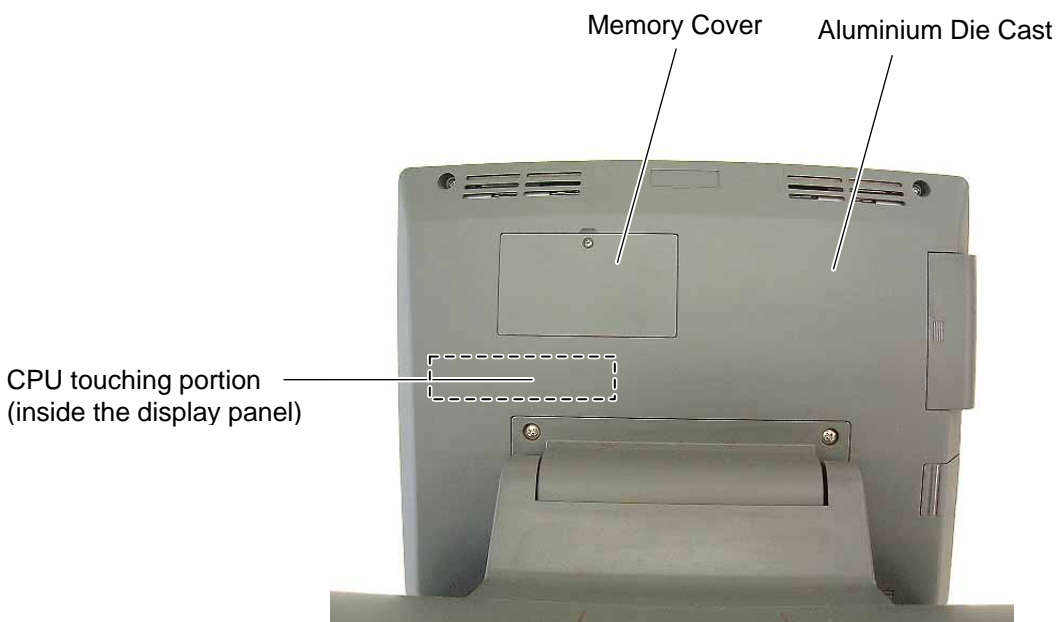
CAUTION!

1. Do not strongly push or scratch the edge of the touch screen (the shaded part of the following figure) with a sharp tool, such as a nail and a pen. Doing this may damage the touch panel.



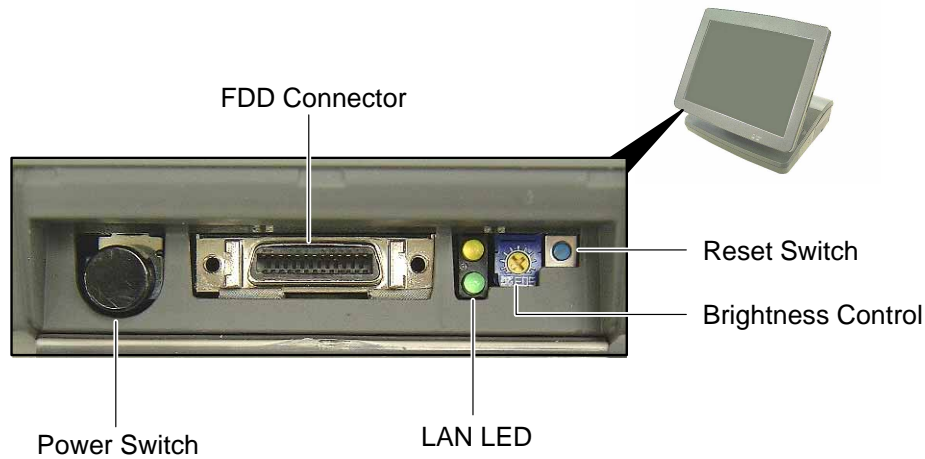
2. Do not always touch the Memory Cover on the rear of the display panel or the portion where the CPU touches. It becomes hot around the Memory Cover and CPU, so care must be taken not to touch there continuously.

This POS terminal is not provided with a cooling fan for the CPU. Instead, the rear cover of the display panel is made of aluminium die cast, which allows heat to cool. The aluminium cover becomes hot during operation, but this is not machine failure.

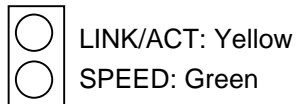


3. CONNECTORS

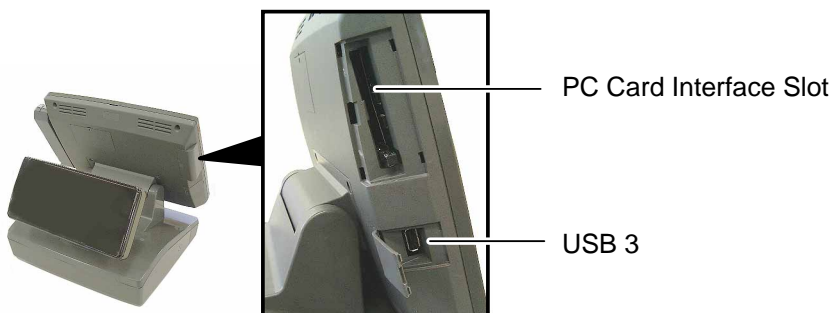
CAUTION!
Do not press the Reset Switch unnecessarily. Doing so may cause an error.



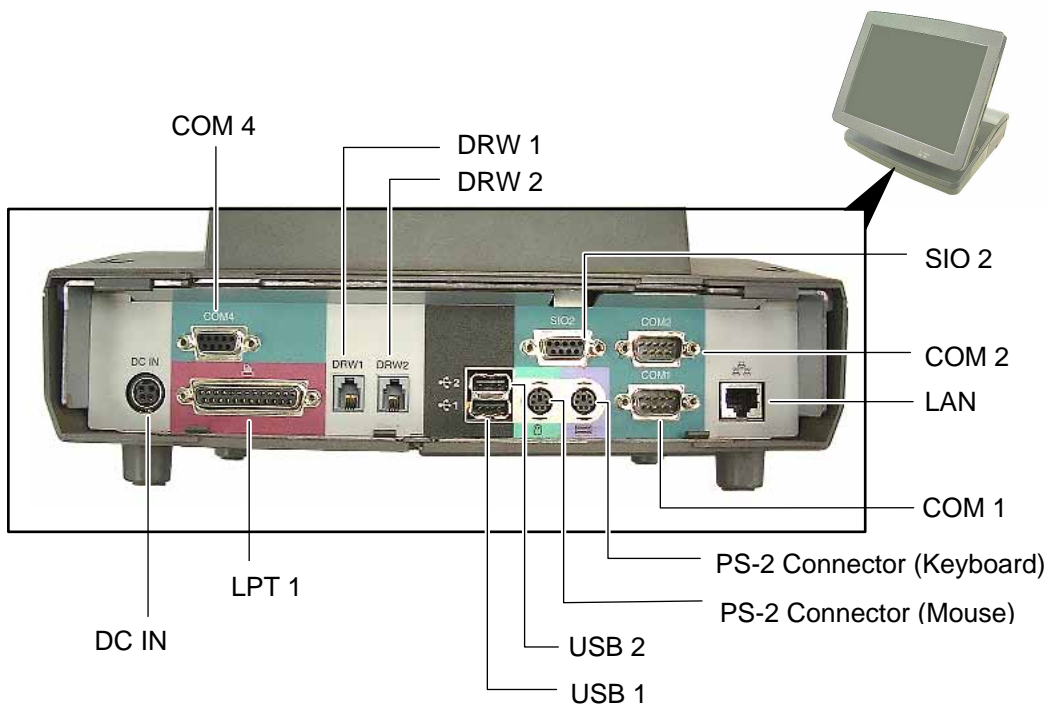
- Power Switch Push-button power switch
NOTE: The power switch does not function within 5 seconds after the POS terminal is plugged in. Wait for more than 5 seconds, and then press the power switch.
- FDD Connector Connector for the optional FDD unit
- Reset Switch Pressing this key at the time of a hung-up resets the unit.
- Brightness Control Brightness of the operator's display is adjusted by using a jeweler's screw driver.
- LAN LED Operating status of the LAN is indicated.



LED type	LED status	LAN status
LINK/ACT	ON/OFF	Linked/Unlinked
	Blink	Frame is sent/received.
SPEED	Off	10M
	On	100M



- USB 3..... Connector for the USB (Universal Serial Bus) interface
USB V2.0/1.1 and UHCI (conforming to Universal Hub Controller Interface V2.0/1.1)
NOTE: USB functions may not be supported depending on the Operating System.
- PC Card Interface Slot This complies with PC Card Standard Release 8.0.
(For future use) 32-bit Card Bus card and 16-bit PC card are supported. One slot is provided and accepts up to TYPE II card.

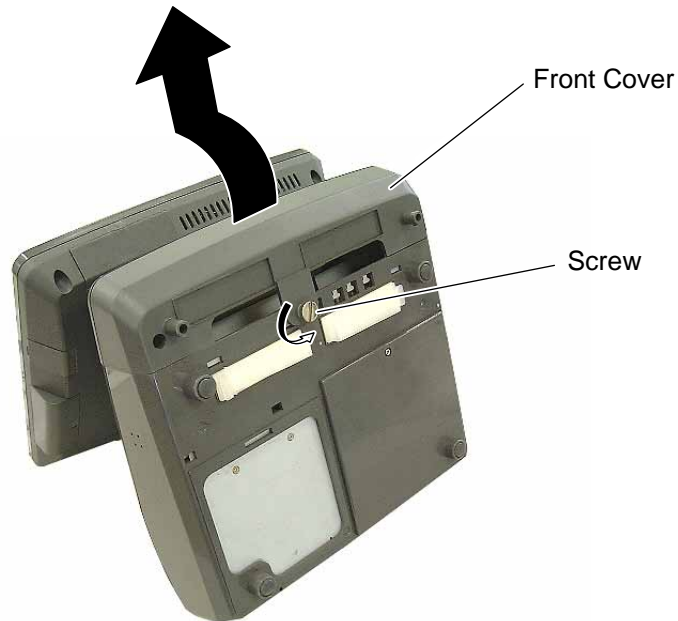


- DC IN The AC adapter supplied with this terminal is connected.
- COM1..... D-sub 9-pin male type connector (without power supply)
A slot scanner, modem, serial Interface type scale, EFT, etc. are connectable.
- COM2..... D-sub 9-pin male type connector (without power supply)
A slot scanner, modem, serial Interface type scale, EFT, etc. are connectable.
- COM4..... D-sub 9-pin female type connector (with +5V, +12V output)
A line display unit or RS-232C type hand scanner is connectable.
- SIO2 D-sub 9-pin female type connector (with +5V, +12V output)
A line display unit or RS-232C type hand scanner is connectable.
- DRW1, 2 A 24V type drawer is connectable.
- LPT1 D-sub 25-pin female connector
Printer, etc. having a Centronics interface or equivalent are connectable.
- LAN Modular type connector for the 10BASE-T/100BASE-TX LAN interface
- USB1, 2..... Connector for the USB (Universal Serial Bus) interface
USB V2.0/1.1 and UHCI (conforming to Universal Hub Controller Interface V2.0/1.1)
NOTE: USB functions may not be supported depending on the Operating System.
- PS-2 Connectors.... Mini-DIN 6-pin female type connector
Connector for the PS-2 type mouse
Connector for the PS-2 type keyboard
(When the MCR is installed, this connector can be used for the PC keyboard interface. When the POS keyboard is connected to this connector, the MCR and mode key switch provided on the POS keyboard are not available.)

4. INSTALLATION PROCEDURE

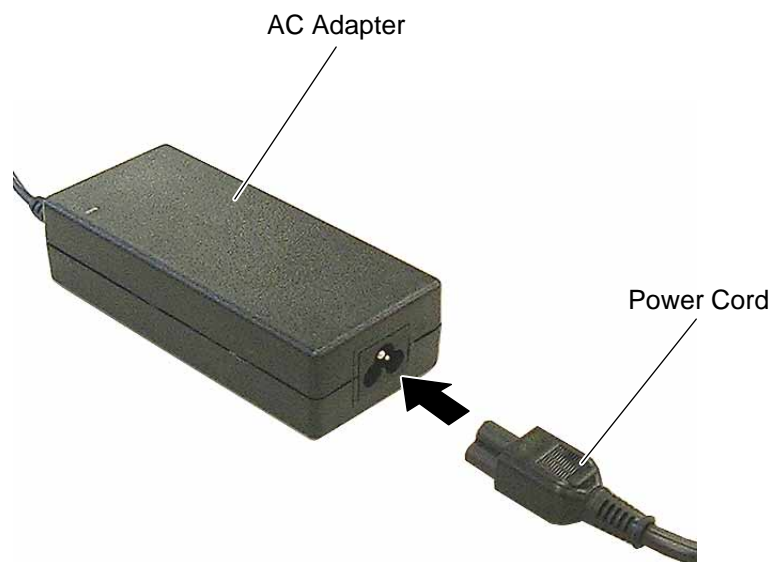
4.1 Connecting the AC Adapter

1. Loosen the screws on the bottom of the terminal to remove the Front Cover.



2. Connect the Power Cord to the AC adapter.

NOTE: The EA10953A1 AC adapter should be exclusively used for the ST-70 Series POS Terminal. The ST-70 Series POS Terminal must be powered by the EA10953A1 AC adapter.



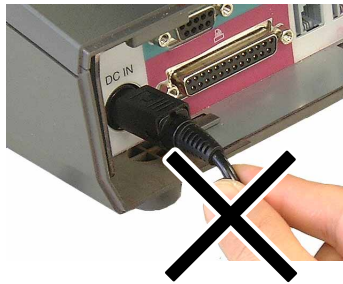
3. Insert the AC Adapter Plug into the DC IN terminal.



• How to disconnect the AC Adapter Plug

CAUTION!

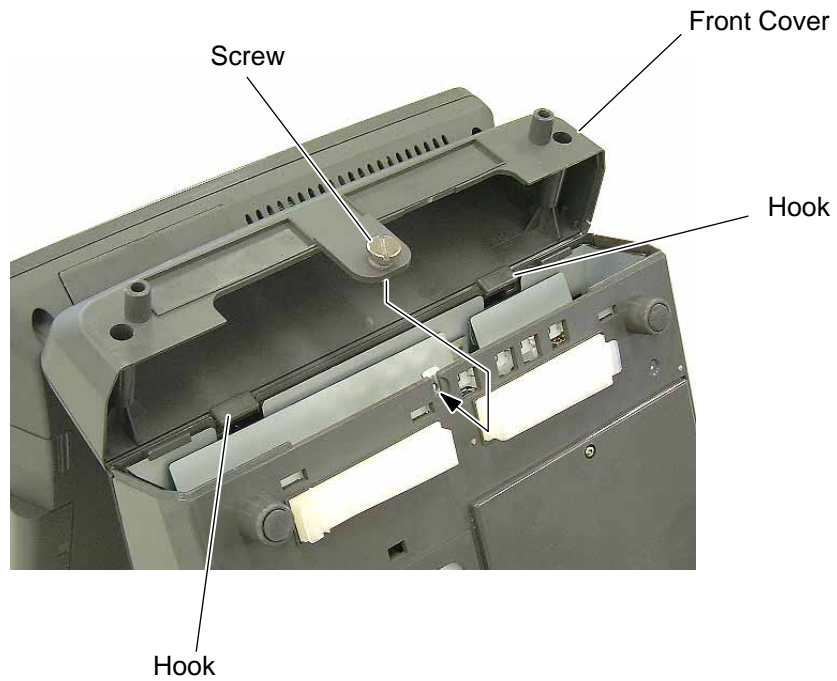
When unplugging the AC adapter, do not pull the cord portion. Doing so may cut the internal wire or damage the plug.



When unplugging the AC adapter, be sure to hold the shell portion by fingers. Since the plug of the AC adapter is provided with a lock mechanism. The plug is unlocked by pulling the shell backward.



- Hook the upper side of the Front Cover on the POS terminal, and then, tighten the screw to secure the Front Cover.



- Insert the Power Cord plug into the AC Outlet. The LED on the AC Adapter will lights in green.

5. ADJUSTMENT

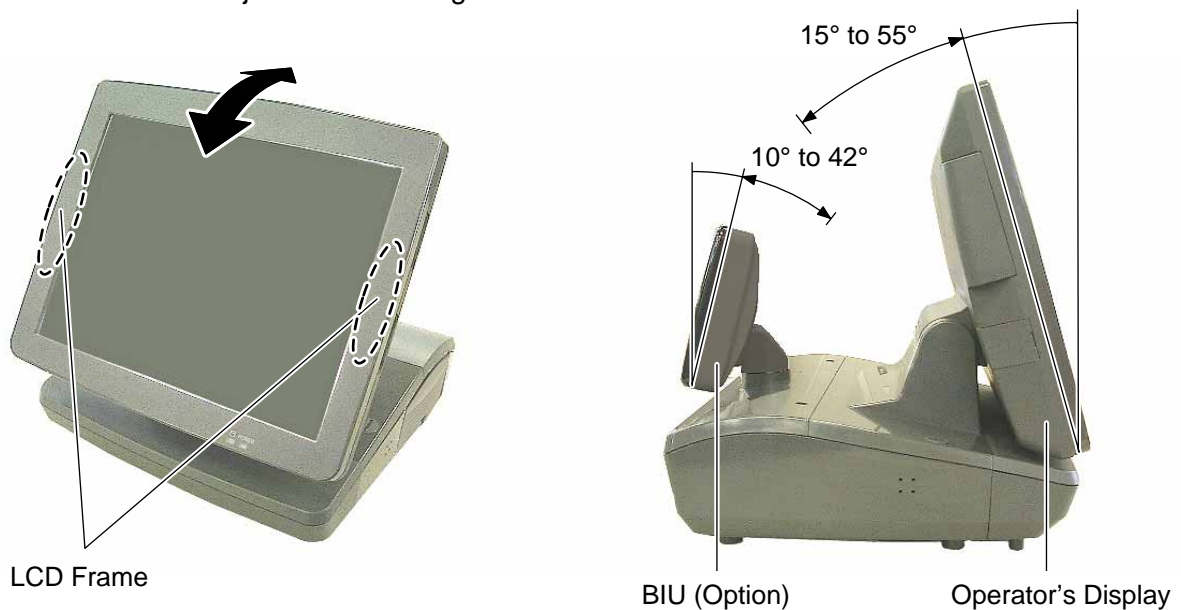
Tilt angle and brightness of the operator's display can be adjusted.

CAUTION!

Do not adjust the display angle by holding the LCD panel. Doing so may damage the unit. Be sure to hold the LCD frame.

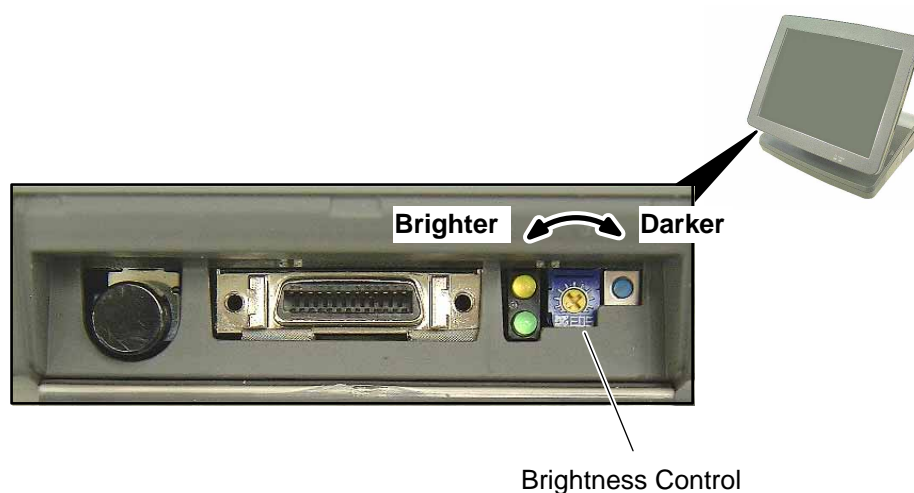
5.1 Tilt Angle Adjustment

The tilt angle of the operator's display can be adjusted freely in a range of 15° to 55°. Hold both sides of the LCD frame, and slowly tilt the operator's display to your best angle. The optional BIU is also adjustable in a range of 10° to 42°.



5.2 Brightness Adjustment

The brightness control is provided on the lower left of the operator's display, inside the power switch cover. Use a jeweler's screw driver to turn the brightness control. Clockwise turn makes the display darker, and counterclockwise turn makes it brighter.



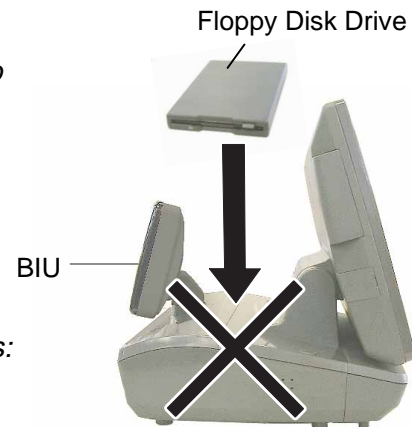
6. FLOPPY DISK DRIVE (OPTION)

WARNING!

Before connecting and disconnecting the optional FDD unit, be sure to turn OFF the POS terminal.

CAUTION!

1. When using the floppy disk drive on the ST-70 with a BIU, do not place it behind the BIU. Doing this may cause a malfunction of the floppy disk drive. Be sure to place the floppy disk drive on a flat and stable surface, such as, a drawer or a desk.
2. 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.



6.1 Loading A Floppy Disk

Insert a floppy disk gently with the label side facing up until it clicks. When the floppy disk is correctly inserted, the eject button pops out.

6.2 Ejecting A 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 is ejected to the position where it can be removed by hand.

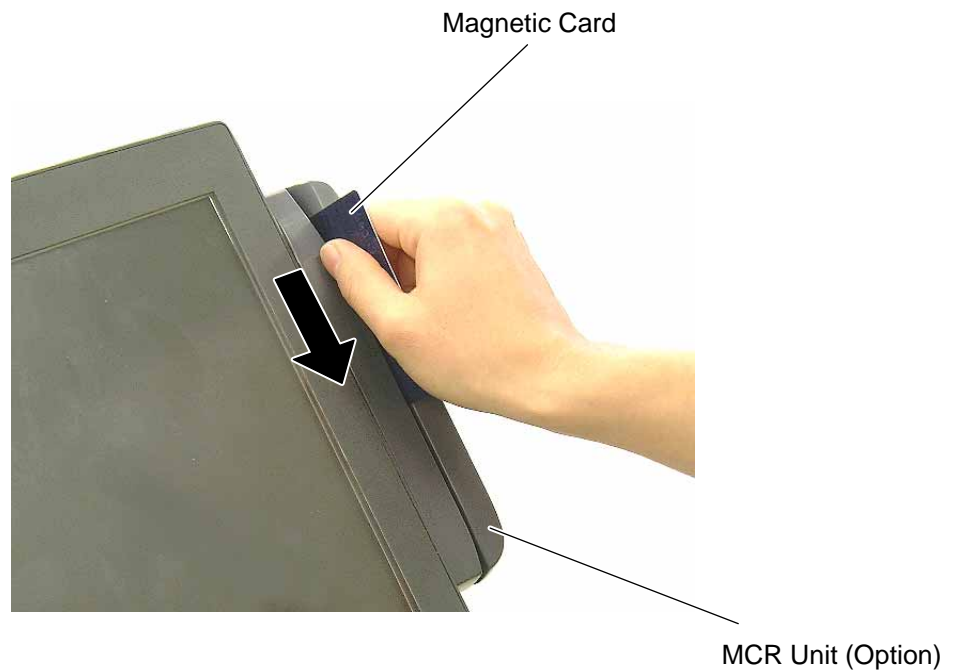


7. MAGNETIC CARD READER (OPTION)

The optional magnetic card reader can be installed on the right side of this POS terminal.

7.1 How to Read Magnetic Card

Insert the magnetic card into the upper portion of the magnetic card reader slot and slowly move the card downward.



NOTE: *Moving the magnetic card too fast or too slowly may cause a read error.*

8. GENERAL MAINTENANCE

8.1 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 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 display. Doing so may cause an operator's display failure.*
3. *Do not insert the nozzle of an air blower into the magnetic card reader slot. Doing so may damage the scanning head, resulting in the magnetic card reader 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.

9. TROUBLESHOOTING

WARNING!

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

Symptom	Check point	Solution
The power does not turn on.	<ul style="list-style-type: none"> Is the power cord plugged in correctly? Is the power supplied to the AC outlet? Has the circuit breaker blown? 	<ul style="list-style-type: none"> Plug in correctly. 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. Check the circuit breaker.
The operator's display is hard to see.	<ul style="list-style-type: none"> Does the operator's display reflect sunlight or room light? Is the tilt angle adjusted properly? Is the brightness adjusted properly? 	<ul style="list-style-type: none"> Refer to Section 5 Adjustment and adjust the display angle. Refer to Section 5 Adjustment and adjust the brightness properly.
Floppy disk drive cannot be used.	<ul style="list-style-type: none"> Is the floppy disk drive connected properly? 	<ul style="list-style-type: none"> Turn OFF the POS terminal, and then connect the floppy disk drive again.
Any data cannot be written into the floppy disk.	<ul style="list-style-type: none"> Is the floppy disk write protected? Is the floppy disk formatted properly? Is the memory insufficient? 	<ul style="list-style-type: none"> Eject the floppy disk and cancel the write protect. Format the floppy disk properly. Delete unnecessary data or prepare a new floppy disk.
Magnetic card reader does comply-not read the data.	<ul style="list-style-type: none"> Does the used card comply with the standard? Was the card moved too fast or too slowly? Is the card reading direction correct? 	<ul style="list-style-type: none"> Use Track 1, 2 complying with ISO1. Move the card at the proper speed. (10~150 cm/sec.) Insert the card so that the magnetic strip faces the scanning head.

10. SPECIFICATIONS

10.1 Basic Specifications

Item		Description
Power consumption		AC 100V Input Standby: 48W, 0.49A Operation: 57W, 0.58A AC 240V Input Standby: 51W, 0.25A Operation: 57W, 0.28A (When the double HDD, HS-530 Touch Scanner, LIUST-53 Display Unit, USB-KB, and USB-FDD are connected.) POS terminal: DC 15V, 4.5A max.
Operating temperature		5°C to 35°C
Relative humidity		10% to 80%RH (no condensation)
Dimensions		296 mm (W) x 278 mm (D) x 307.6 mm – 283.7 mm (H) (Without MCR) 335.9 mm (W) x 278 mm (D) x 307.6 mm – 283.7 mm (H) (With MCR)
Weight		7.1Kg (including options)
AC adapter	Supply voltage (Auto-sensing)	AC 100V – 127V +10%, -10% 50/60Hz AC220V – 240V +10%, -10% 50/60Hz
	Dimensions	59.0 mm (W) x 133.0 mm (D) x 33.5 mm (H)
	Power cord	A power cord is not included in this product. Please use one complied with each country's safety standard. For details, please contact the nearest TOSHIBA TEC service representative.
CPU		Intel ULV Celeron 650MHz with 256KB secondary cache
BIOS ROM		512KB Flash ROM
RAM	Capacity	512MB, 256MB, or 128MB memory can be installed in each slot.
	Type	DDR SDRAM PC2100, 133MHz clock, 2.5V unbuffered type, without ECC, interface SSTL-2
	Socket	200-pin SO-DIMM x 1
Interface		RS-232C x 4, Parallel x 1, USB x 3, Drawer x 2 (24V type), PS-2 x 2
Touch panel method		Analog resistor film
UPS		Available when the UPS (option) and driver are installed.
Hard disk drive		Max. 2 units of 2.5-inch HDD (option) can be connected.
Floppy disk drive		External FDD (option)
LAN interface		10/100 BASE-T (Wake on LAN)
PC card		PCMCIA TYPEII x 1 (option)
MCR		Standard on the ST-70-U631G model. ISO-1, 2-track one-sided type

	Item	Description
Operator's Display	Display type	12.1-inch color TFT with touch panel
	Display size	12.1-inch 800 x 600 dots
	Number of colors	64K color (65,536 colors)
	Brightness	300 cd
	Display area	246 mm (W) x 184.5 mm (H)
	Dot size	0.3075 mm (W) x 0.3075 mm (H)
	Touch panel	Analog Resistor Film (1024 x 1024 dots)
	Adjustment mechanism	Brightness volume (TFT) and Tilt angle (Free adjustment in a range of 15° to 55°) No swivel adjustment
BIU (Option)	Number of displayed characters	5 x 7 dot fluorescent display 20 digits x 2 lines 20 triangles under the 2nd line
	Display color	Blue
	Display area/character size	Character size: 5.5 mm (W) x 10.5 mm (H) Character pitch: 7.4 mm (W) x 15.5 mm (H)
	Type font	182 types of half width ANK
	Display angle ^(NOTE)	Tilt: 10° to 42° Swivel: 0° to 90° (in both directions)
	Interface with ENGINE	RS-232C interface

NOTE: The swivel angle of the BIU varies according to the tilt angle of the operator's display.

Tilt angle of the operator's display	Tilt angle of the BIU	Swivel angle of the BIU
15°	10°	90° (6 steps, both directions)
	42°	90° (6 steps, both directions)
55°	10°	45° (3 steps, both directions)
	42°	30° (2 steps, both directions)

10.2 Options

Option name	Type	Description					
Drawer unit	DRWST-51A-4MV-QM DRWST-51A-8MV-QM	24V-drive standard drawer (with screw holes on the left and rear for installing the POLST-51) Size and Weight: 460(W) x 400(D) x 115(H) mm, 10Kg Money Case Type: MC4,8					
	DRWST-56-EMV-QM	24V-drive flip top drawer Size and weight: 460 (W) x 170 (D) x 100 (H) mm, 6Kg Money case type: EURO case					
	Drawer type	Type	Bill holder	Coin tray	Mini coin case	CDC	Remarks
		4MV-QM	5	5	No	Yes	With media slot
	8MV-QM	4	6	1	Yes	With media slot	
	EMV-QM	5	8	No	Yes	With media slot	
Line display unit	LIUST-51-11G-QM	20 characters x 2 lines dot display (Remote type)					
	LIUST-70-BSG-QM	20 characters x 2 lines dot display (Integrated type)					
Printer unit	TRST-56-P-1G-QM	Parallel interface single thermal printer for 80 mm wide paper Cabinet color: SG					
	TRST-56-S-1G-QM	Serial interface single thermal printer for 80 mm wide paper Cabinet color: SG					
Magnetic card reader	MCRST-70-3-QM	ISO1, Tracks 1 and 2 type magnetic card reader kit					
POS keyboard unit	PKBST-50-3-QM	81-key POS keyboard with PS-2 interface					
	PKBST-50-3D-QM	81-key POS keyboard with PS-2 interface and 12 double-size keys					
	PKBST-50-3E-QM	81-key POS keyboard with PS-2 interface and 4 double-size keys					
Scanner	HS-530-RS-24B-09-QM	Touch scanner (RS-232C interface type)					
FDD	FDDST-60-1-QM	External 3.5-inch FDD unit					
PCMCIA interface board	MIFST-70-2-QM	PC card interface kit This kit conforms to the 32-bit CardBus (Card-32) card and the 16-bit PC card (Card-16). A slot is provided on the board to which up to PCMCIA Type II is available.					



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