

e-Manual SPT — 7000series

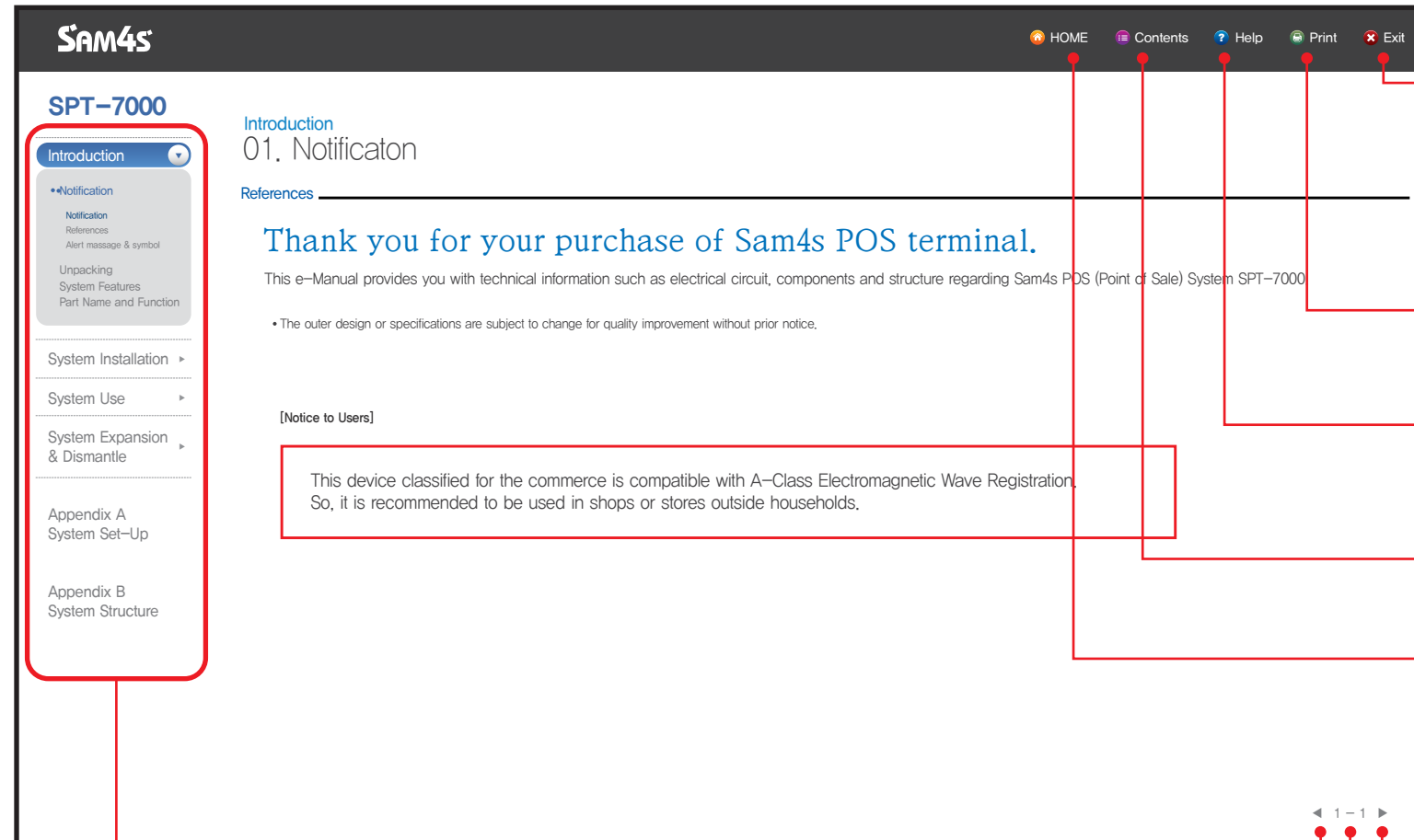
Leading the way with Reliability, Features and Value



SPT-7000

How to use e-Manual

- Introduction
- System Installation ▶
- System Use ▶
- System Expansion & Dismantle ▶
- Appendix A
System Set-Up
- Appendix B
System Structure



Exit PDF e-Manual

Print e-Manual page

Help Contents

Show all titles of e-Manual

Move to the first page

Move to the next page.

Page Number

Move to the previous page.

Click these text button to move each chapter

E-Manual SPT-7000series

PDF electronic manual consists of System Instruction, System Installation, System Use, System Setup, System Expansion and Appendix a/b.

Contents

Introduction

Notification

- Notification
- References
- Alert message & symbol

Unpacking

System Features

- System Introduction
- System Features
- System Specifications

Part Name and Function

- Front View
- Half-Side View
- Side View
- Rear View

System Installation

Make sure of installation area

Before connecting peripherals

Connecting Peripherals

- Connecting Serial Port Devices such as Barcode Scanner
- Connecting RJ-11 Cash Drawer
- Connecting RJ-45 LAN Cable
- Connecting USB Device
- Connecting PS Module
- Connecting Security / Scanner Module
- Connecting Receipt Printer
- Receipt Printer
- Dismantle the Cover for Customer Displays
- Connecting DVR Card
- Connecting AC Power Cord to the Set Plug
- Cable Management

System On / Off

- System On
- System Off

System Use

Keyboard Use

Touch screen Use

About POS Driver and Utility

Dual Monitor Use

System Expansion & Dismantle

System Dismantling & Assembling

HDD Replacement

Internal Speaker & USB Removal

Receipt Printer & Board Removal

Scanner & Dallas Removal

SMPS Removal

Mainboard ASSY Removal

Various Boards Removal

Main Memory Removal

Remove Display Assembly

Remove MSR

Remove Display Board

Remove Touch Panel & LCD

Appendix A System Set-Up

System Set-up Preview

Main Menu

Advanced Menu

Chipset Menu

Boot Menu

Security Menu

Save & Exit Menu

Appendix B System Structure

System Block

Mainboard Overview

Exploded View

SPT-7000

Introduction



- Notification

- Notification

- References

- Alert message & symbol

- Unpacking

- System Features

- Part Name and Function

System Installation ▶

System Use ▶

System Expansion & Dismantle ▶

Appendix A System Set-Up

Appendix B System Structure

Introduction

01. Notificaton

References

Thank you for your purchase of Sam4s POS terminal.

This e-Manual provides you with technical information such as electrical circuit, components and structure regarding Sam4s POS (Point of Sale) System SPT-7000.

- The outer design or specifications are subject to change for quality improvement without prior notice.

[Notice to Users]

This device classified for the commerce is compatible with A-Class Electromagnetic Wave Registration.
So, it is recommended to be used in shops or stores outside households.

SPT–7000

Introduction

- Notification
 - Notification
 - References**
 - Alert message & symbol
- Unpacking
- System Features
- Part Name and Function

System Installation ▶

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set–Up

Appendix B
System Structure

Introduction

01. Notificaton

References

- The contents of this manual is subject to change without prior notice.
- This manual cannot be copied or duplicated without Sam4s approval.
- The copyright of the e–Manual is in Sam4s.
- Some equipment nomenclature and abbreviations used here may differ from that contained in other Sam4s publications.
- This device complies with part 15 of the FCC Rules. (Class A digital device)

SPT-7000

Introduction

• Notification

Notification

References

Alert message & symbol

Unpacking

System Features

Part Name and Function

System Installation ▶

System Use ▶

System Expansion & Dismantle ▶

Appendix A

System Set-Up

Appendix B

System Structure

Introduction

01. Notificaton

Alert message & symbol

- This manual uses the following conventions to show the alert messages. An alert message consists of an alert signal and alert statements.
The alert signal consists of an alert symbol and a signal word or just a signal word. The following are the alert signals and their meanings:



This indicates a hazardous situation likely to result in serious personal injury if the user does not perform the procedure correctly.



This indicates a hazardous situation could result in personal injury if the user does not perform the procedure correctly.



This indicates a hazardous situation could result in minor or moderate personal injury if the user does not perform the procedure correctly.
This alert signal also indicates that damages to the product or other property may occur if the user does not perform the procedure correctly.



This indicates information that could help the user use the product more efficiently.

SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- Part Name and Function

System Installation ▶

System Use ▶

System Expansion & Dismantle ▶

Appendix A System Set-Up

Appendix B System Structure

Introduction 02. Unpacking



〈System Terminal〉



〈Mouse / Mouse Pad (Option)〉



〈Keyboard (Option)〉



〈Quick Manual〉



〈Power Cable〉

SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- System Introduction
- System Features
- System Specifications
- Part Name and Function

System Installation

System Use

System Expansion
& Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

Introduction

03. System Features

System Introduction

- This POS system supports All-in-one type and Separable type. Also, you can organize the cables easily in any surrounding.
- This POS system can make all-in-one touch screen, internal printer, MSR, SCR and customer display. And installation is easy and convenient.
- It is convenient to change Hard Disk Drive and Memory and supports OS recovery function and Virus Vaccine program.

System Features

- 15” TFT LCD Touch Screen
- Internal Printer (Option)
- MSR (Magnetic Stripe Reader) (Option)
- SCR (Smart Card Reader) (Option)
- 7” or 15” Size Customer Display (Option)
- Barcode Scanner (Option)
- Fingerprint Reader or Magnet Dallas (Option)
- Cfast Module (Option)

SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- System Introduction
- System Features
- System Specifications
- Part Name and Function

System Installation

System Use

System Expansion & Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

Introduction

03. System Features

System Specifications

General Specifications

Dimension	267(357) X 310 X 387(447) ():With Display
Weight	11.5 Kgs (based on standard specification)
Processor	CPU : Intel Atom Cedarview D2550 1.86GHZ (Dual Core) FANLESS HEAT SINK
Chipset	Southbridge : Intel NM10
Storage	2 x 2.5 inch HDD (SATA type) / SSD / Cfast
I/O Interface	Serial Connector : DSUB 9-pin x 3 (COM1,2,4)+RJ45 port x 1 (COM3) COM1,2,3,4 : 5V or 12V or RI Output (BIOS setting) Parallel Connector : 25-pin x 1 USB 2.0 Connector : Left Side x 2, Rear Side x 4 LAN Connector : RJ45 port x 1 (8-pin) Cash Drawer : RJ11 port x 1 (6-pin) VGA Connector : VGA port x 1 (15-pin) DC Output Jack : 12V output port x 1 Audio : Line Out x 1, Line In x 1, MIC x 1
OS	Windows XP / 2000 / WEPOS 등 / POSReady 2009 / POSReady 7
Main Memory	DDR3 SODIMM Socket (up to 4GB)
Booting Device	HDD, SSD, Cfast Memory, CD/DVD ROM Drive, USB Memory
BIOS	AMI(Amerian Megatrends, Inc.) BIOS

SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- System Introduction
- System Features
- System Specifications
- Part Name and Function

System Installation

System Use

System Expansion
& Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

Introduction

03. System Features

System Specifications

General Specifications

Display	15" TFT LCD, LVDS Interface Resolution & Colors : 1024 x 768 (XGA), 16.2M (RGB) Color Contrast Ratio : 450 : 1 Viewing Angle : Left-Right 150' / Up-Down 130' (Left 75' / Right 75' / Up 70' / Down 60') Backlight Type : 2-CCFL Backlight Brightness : 250 cd/m² Backlight MTBF : 50,000 Hours
Touch Panel	15" 5-Wire Resistive Type Interface : Serial COM5 Transparency : 80% Surface Hardness : 3H Hitting Life : 35 million times
Power Supply	60W Adaptor AC INPUT : AC 100~240V / 50~60Hz, 1.5A DC OUTPUT : 12V / 5.0A

SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- System Introduction
- System Features
- System Specifications
- Part Name and Function

System Installation

System Use

System Expansion
& Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

Introduction

03. System Features

System Specifications

Specifications for Optional Devices

Receipt Printer	2-inch / 3-inch Thermal Printer USB Interface 220mm/sec (3-inch), 150mm/sec (2-inch) speed 180 dpi resolution Guillotine Type Auto-Cut (Jam-free)			Power Supply 60W Adaptor AC INPUT : AC 100V ~ 240V / 50Hz ~ 60Hz 1.5A DC OUTPUT : 24V / 2.5A
Touch Panel	15" True Flat Resistive Touch			
Customer Display	CDP	20 CHAR × 2Line		7" TFT LCD, VGA (800 × 480) 15" TFT LCD, XGA(1024 × 768) – Power Supply Change 80W Adaptor AC INPUT : AC 100V ~ 240V / 50Hz ~ 60Hz 1.5A DC OUTPUT : 12V / 6.67A
5 × 7 Dot VFD				
256 × 32 Graphic Dot,				
MSR (Magnetic Stripe Reader)	Read Track : ISO Track 1&2&3 Interface : USB Performance Speed : 630BPS ~ 11,550BPS Head Reliability : 400,000 times			
DALLAS KEY	Magnet Type			
Finger Printer Reader	Fingerprint function, USB Commuication			
Cfast SOCKET	Possible to use Cfast Memory			
RAISER CARD	Various types of DVR Card installable including XV400PCI (Max. Channel 4 ports)			
Scanner	1D Barcode Recognition, USB Commuication			
Smart Card Reader	IC Card readable, USB Commuication			

SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- Part Name and Function

Front View

- Half-Side View
- Side View
- Rear View

System Installation ▶

System Use ▶

System Expansion & Dismantle ▶

Appendix A System Set-Up

Appendix B System Structure

Introduction

04. Part Name and Function

Front View



SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- Part Name and Function

- Front View
- Half-Side View
- Side View
- Rear View

System Installation

System Use

System Expansion & Dismantle

Appendix A System Set-Up

Appendix B System Structure

Introduction

04. Part Name and Function

Half-Side View



Hard Disk Drive Cover

Speaker Cover

Receipt Printer Cover

On/Off Power Switch of Printer

Receipt Printer Feed Button for Paper

SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- Part Name and Function

- Front View
- Half-Side View
- Side View
- Rear View

System Installation

System Use

System Expansion & Dismantle

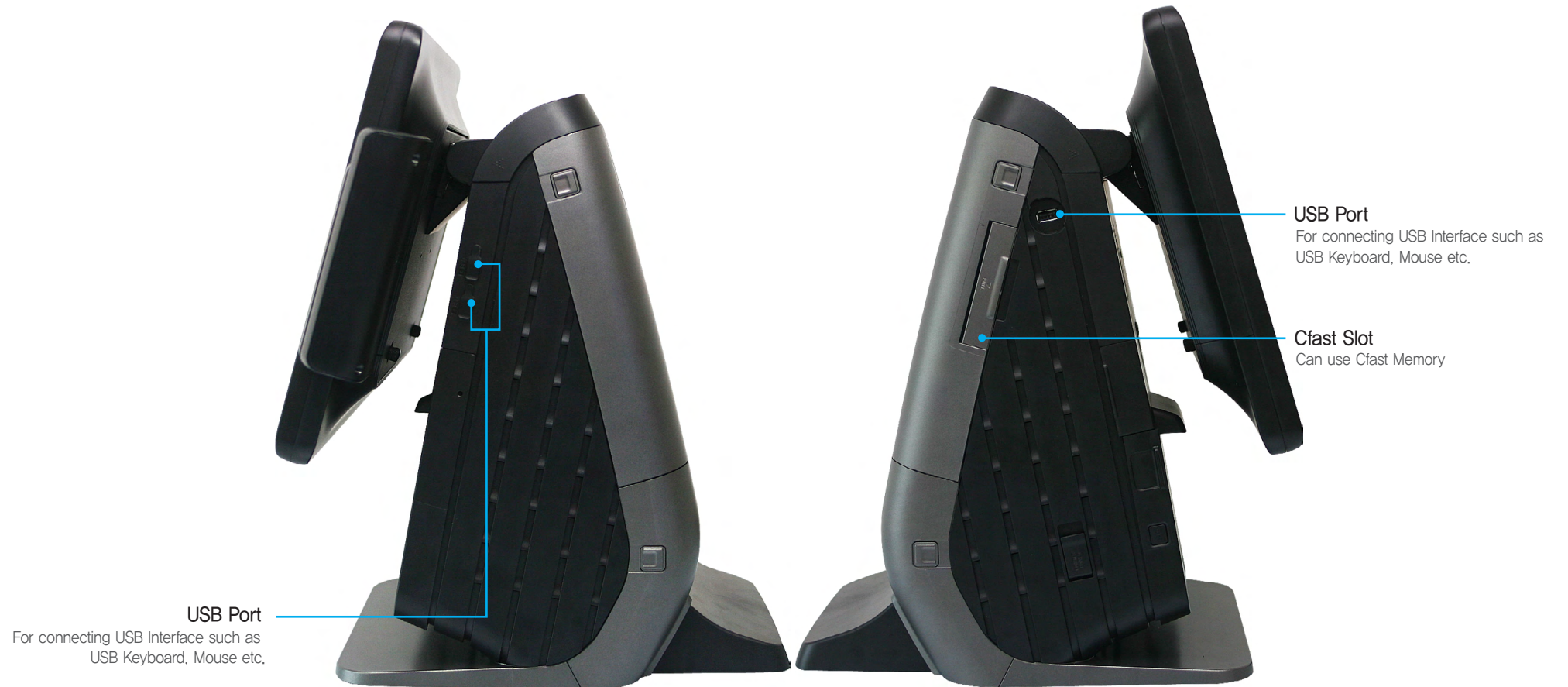
Appendix A System Set-Up

Appendix B System Structure

Introduction

04. Part Name and Function

Side View



SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- Part Name and Function

- Front View
- Half-Side View
- Side View
- Rear View

System Installation

System Use

System Expansion & Dismantle

Appendix A System Set-Up

Appendix B System Structure

Introduction

04. Part Name and Function

Rear View



SPT-7000

Introduction

- Notification
- Unpacking
- System Features
- Part Name and Function

- Front View
- Half-Side View
- Side View
- Rear View

System Installation

System Use

System Expansion & Dismantle

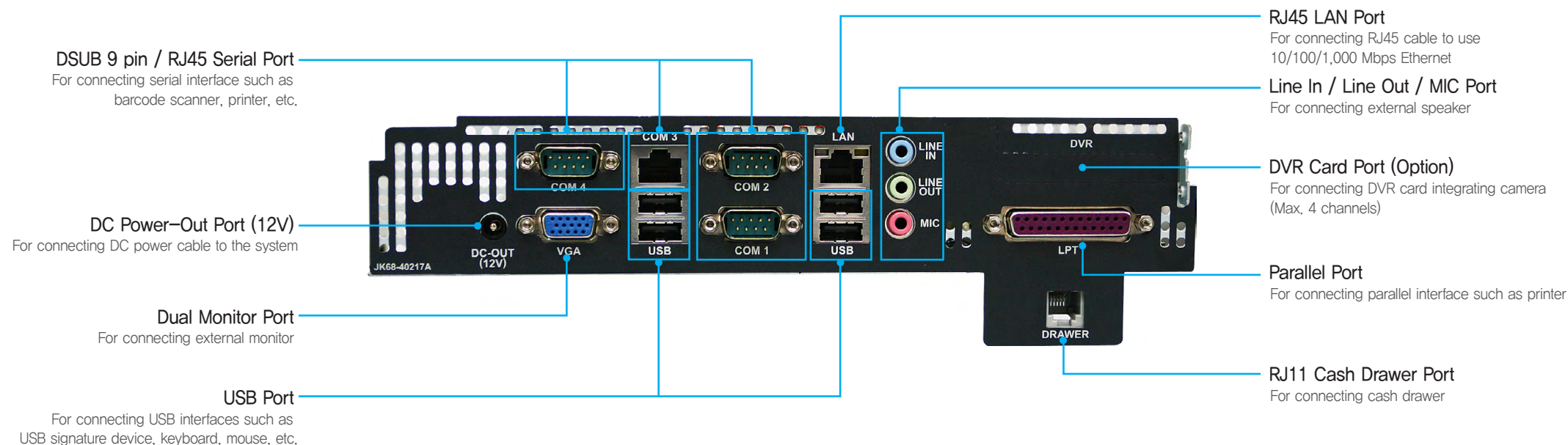
Appendix A System Set-Up

Appendix B System Structure

Introduction

04. Part Name and Function

Rear View



SPT-7000

Introduction ▶

System Installation ▼

- Make sure of installation area
Before connecting peripherals
Connecting Peripherals
System On / Off

System Use ▶

System Expansion & Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure


System Installation

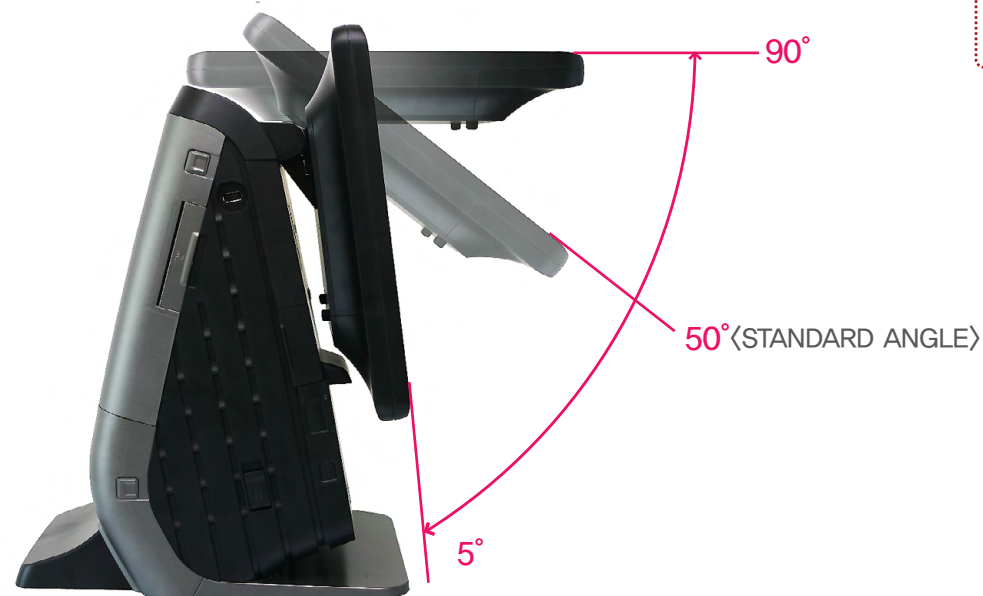
01. Make sure of installation area

It is important to be sure the installed place is safe and comfortable like following contents before setup the system.

- Choose a big and solid desk or table to support the weight of this system.
- Lay this system on a stable and flat surface. Do not install on surface of carpet which may cause static electricity. The data of system may be erased or the circuit board may get damaged.
- Secure the enough space surrounding this system to make air ventilation.
- Keep this system away from humidity, dust, direct sunlight and high temperature. Always keep it in a cool area.
- Make sure the power voltage is within safety range and being adjusted properly to the value of 100–240V before connecting the equipment to the power outlet.
- Power outlets are needed for the system, printer and other peripherals respectively.
- Always keep the equipment from strong magnetic or electrical objects.

 **Note!** | You can adjust the angle depending on your using environment.
The possible range of angle is like below picture.

 **Caution!** | ▶ Risk of explosion if battery is replaced by an incorrect type.
Use the same one with the battery in the mainboard.
▶ Dispose of used batteries according to the instructions.



SPT-7000

Introduction ▶

System Installation ▼

- Make sure of installation area
- Before connecting peripherals
- Connecting Peripherals
- System On / Off

System Use ▶

System Expansion & Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

02. Before connecting peripherals First remove Interface Cover at the rear of the system.

Connecting Peripherals

Remove Interface Cover

Pushing the both lock buttons, pull the Interface Cover and remove it.



Caution!

- ▶ Connect peripherals after turning the power off.
- ▶ Please use gloves to prevent injury from the edge of the equipment.

SPT-7000

Introduction

System Installation

Make sure of installation area
Before connecting peripherals

Connecting Peripherals

- Connecting Serial Port Devices such as Barcode Scanner
- Connecting RJ-11 Cash Drawer
- Connecting RJ-45 LAN Cable
- Connecting USB Device
- Connecting PS Module
- Connecting Security / Scanner Module
- Connecting Receipt Printer
- Receipt Printer
- Dismantle the Cover for Customer Displays
- Connecting DVR Card
- Connecting AC Power Cord to the Set Plug
- Cable Management

System On / Off

System Use

System Expansion & Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

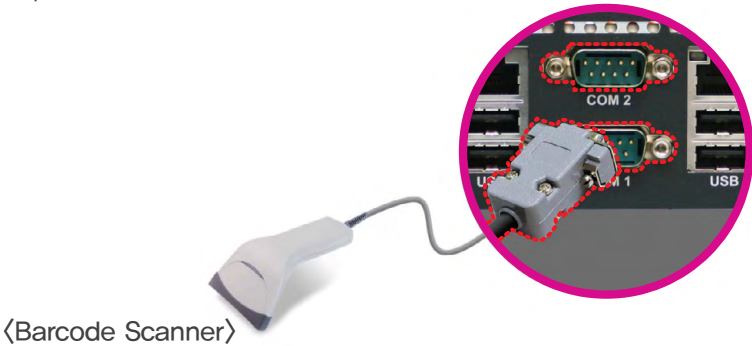
System Installation

03. Connecting Peripherals

Connecting Serial Port Devices such as Barcode Scanner

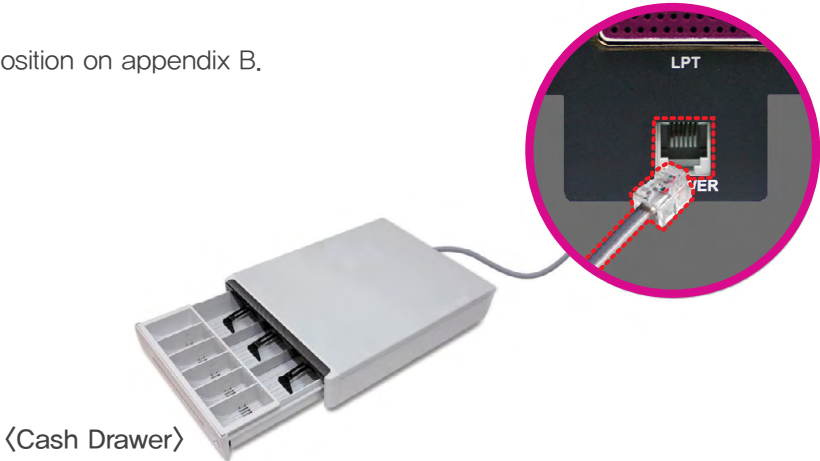
Connect barcode scanner, serial interface devices, etc. to the serial port. Each serial device has different power specification.
After checking power spec., refer to the below table.

Port	5V	12V	RI
COM1	Yes	Yes	Yes
COM2	Yes	Yes	Yes
COM3	Yes	Yes	Yes
COM4	Yes	Yes	Yes



Connecting RJ-11 Cash Drawer

Use RJ-11 port when cash drawer is used.
Please set up the power after checking power spec. of cash drawer and then referring to the system composition on appendix B.



Note! | We recommend you to use Sam4s Cash Drawer because of different cable specifications by each manufacturer.

SPT-7000

Introduction

System Installation

- Make sure of installation area
- Before connecting peripherals
- Connecting Peripherals
 - Connecting Serial Port Devices such as Barcode Scanner
 - Connecting RJ-11 Cash Drawer
 - Connecting RJ-45 LAN Cable
 - Connecting USB Device
 - Connecting PS Module
 - Connecting Security / Scanner Module
 - Connecting Receipt Printer
 - Receipt Printer
 - Dismantle the Cover for Customer Displays
 - Connecting DVR Card
 - Connecting AC Power Cord to the Set Plug
 - Cable Management

System On / Off

System Use

System Expansion & Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Connecting RJ-45 LAN Cable

RJ-45 LAN or Internet-enabled cable can be connected.
It supports 10/100/1000Mbps.



Connecting USB Device

USB connector is located at the side of and the back of the system so USB Devices can be connected at the both locations.
USB hub can be used to connect various USB devices.
USB devices are like keyboard, mouse, CCD camera, printer and signature pad.
(According to the type of USB devices, the drivers may be required.)



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

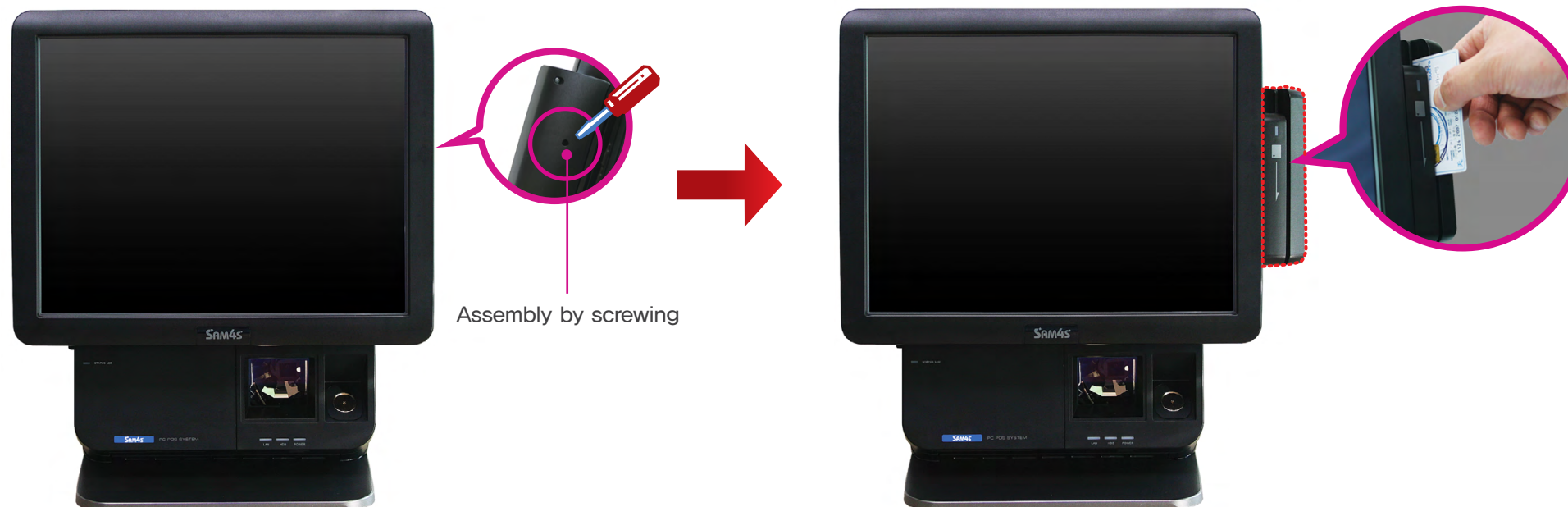
System Installation

03. Connecting Peripherals

Connecting PS Module (Option)

In case using MSR, after removing side cover which is located at the right side of LCD, then connect the module.

The module is easily connected as USB connector type.



SPT-7000

Introduction ▶

System Installation ▼

- Make sure of installation area
- Before connecting peripherals
- Connecting Peripherals
- Connecting Serial Port Devices such as Barcode Scanner
- Connecting RJ-11 Cash Drawer
- Connecting RJ-45 LAN Cable
- Connecting USB Device
- Connecting PS Module
- Connecting Security / Scanner Module
- Connecting Receipt Printer
- Receipt Printer
- Dismantle the Cover for Customer Displays
- Connecting DVR Card
- Connecting AC Power Cord to the Set Plug
- Cable Management
- System On / Off

System Use ▶

System Expansion & Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Connecting Security/Scanner Module (Option)

In case using Fingerprint / Dallas / Scanner / Smart Card Reader (SCR), after removing the cover which is located at the right bottom and then connect the module.

Please refer to system assembly / disassembly of the System Expansion on how to assemble or disassemble Security / Scanner Module.



Connecting Receipt Printer (Option)

In case using Receipt Printer, after removing the cover which is located at the left bottom and then connect the printer module.

Please refer to system assembly / disassembly of the System Expansion on how to assemble or disassemble receipt printer module.



Print Status	Beep Sound	Status LED
Normal	No Sound	Green Color Led
Cover Open	No Sound	Red Color Led
No Paper	A Long Beep Sound Repeat(Pee — Pee —)	Cross Lighting(Green ↔ Red)
Cutter Jam	Two times Short Beep Sound(PeePee— PeePee—)	Cross Lighting(Green ↔ Red)
Wrong Positioned	Three times Short Beep Sound(PeePeePee— PeePeePee—)	Cross Lighting(Green ↔ Red)

SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer

Receipt Printer

Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Receipt Printer

▪ Install & Test - Install Partition

58mm printing paper can be used in case of installing partition.

1. Pull the printer cover to open as shown.
2. Insert the partition as shown.
3. Push the partition until it fits into the paper feeding box as shown.
4. Insert your finger to the partition hole and pull it. Disassembly is in reverse order.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Receipt Printer

▪ Install & Test - Install and Replace Paper Roll

Note! | Make sure to use paper rolls that meet the standard.
Non-standard paper rolls may cause printer malfunction.

1. Pull and open the printer cover as shown.

Note! | Do not open the printer cover while printing.

2. Remove the used paper roll inside if there is.

3. Insert the paper roll as shown.

4. Pull out a small amount paper as shown and close the cover.

5. Tear off the paper as shown.

Note! | Strongly push the center of the printer cover for
the proper paper discharge.



SPT-7000

Introduction

System Installation

- Make sure of installation area
- Before connecting peripherals
- Connecting Peripherals
 - Connecting Serial Port Devices such as Barcode Scanner
 - Connecting RJ-11 Cash Drawer
 - Connecting RJ-45 LAN Cable
 - Connecting USB Device
 - Connecting PS Module
 - Connecting Security / Scanner Module
 - Connecting Receipt Printer
 - Receipt Printer
 - Dismantle the Cover for Customer Displays
 - Connecting DVR Card
 - Connecting AC Power Cord to the Set Plug
 - Cable Management
- System On / Off

System Use

System Expansion & Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

System Installation
03. Connecting Peripherals

Receipt Printer

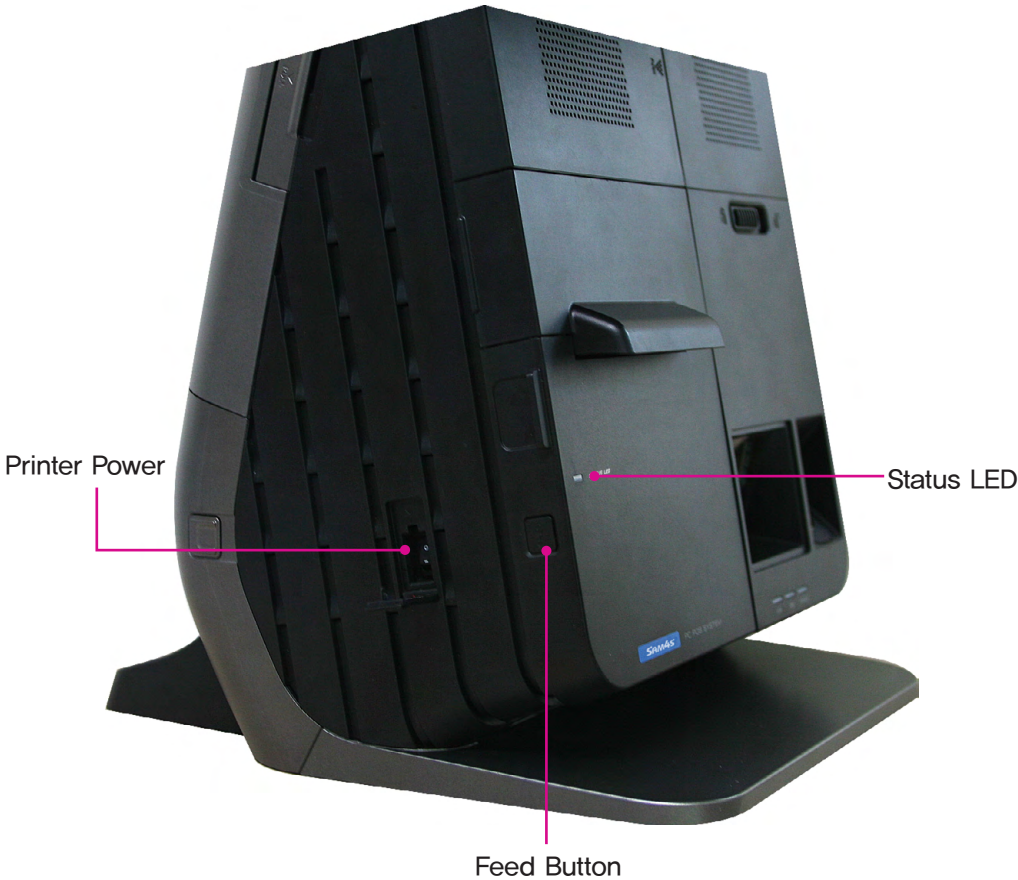
Install & Test - Self-Test

- Self-Test Mode
Self-Test can check products for defects or disorder.
The procedure for Self-Test is as follows.
1. Check whether the paper is properly inserted.
 2. Turn the power off.
 3. Pressing the Feed Button, turn the power on and then Self-Test begins.
 4. It prints current firmware version and printer status.
 5. After printing current printer status, it stops after printing the below sentence.
(Status-showing LED will continuously blink.)

SELF TEST PRINTING.
PLEASE PRESS PAPER FEED BUTTON

6. To continue printing, press Paper Feed Button.
7. Self-Test automatically ends and cut the paper off after printing following message.

** End Self-Test **



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Receipt Printer

▪ Use Function - Paper Feed Button & LED

Paper Feed Button

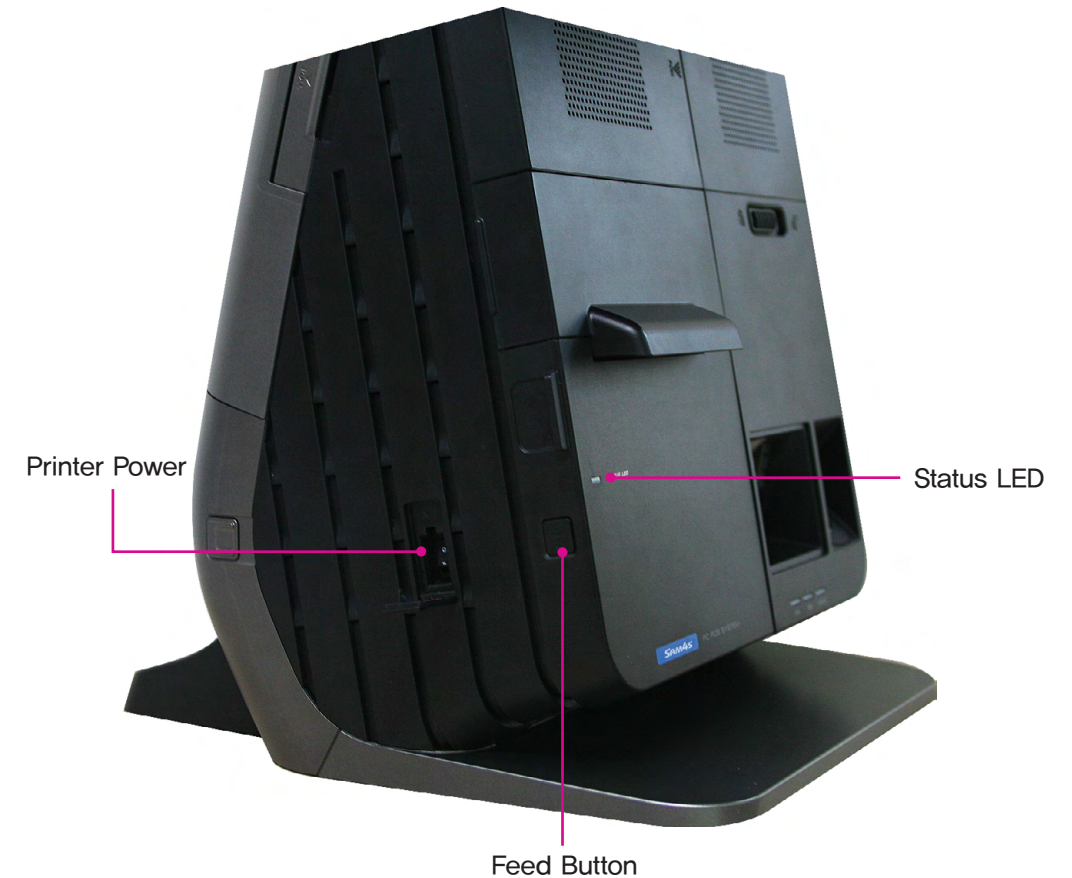
This button can be disabled by the ESC c 5 command.
Press the Feed button once to advance paper one line.
You can also hold the FEED button to feed paper continuously.

LED

If the power is turned on normally, the LED shows green light.

If some troubles happen such as paper-out, the LED shows red light.

Please refer to the Trouble Shooting on the page of Troubles and Solutions.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Receipt Printer

▪ Maintenance

Dust can make a falling-off in printing quality.
Please clean the printer with following procedure.

- 1) Open the printer cover and remove the paper.
- 2) Wipe out the printer head with cloth dipped in alcohol.
- 3) Wipe out the paper roller with cloth in water.
- 4) Insert the paper and close the cover.



Caution!

- ▶ Make sure that the power is off before cleaning the printer.
- ▶ Clean the printer 10 minutes after the power-off because the printer head is very hot.
- ▶ Do not touch the printer thermal head.
- ▶ Be careful that the printer head is not damaged.

SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

- Connecting Serial Port Devices
such as Barcode Scanner
- Connecting RJ-11 Cash Drawer
- Connecting RJ-45 LAN Cable
- Connecting USB Device
- Connecting PS Module
- Connecting Security
/ Scanner Module
- Connecting Receipt Printer

Receipt Printer

- Dismantle the Cover
for Customer Displays
- Connecting DVR Card
- Connecting AC Power
Cord to the Set Plug
- Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Receipt Printer

▪ Error Status & Error Resolution - Cover Open & No Paper

The printer beeps the buzzer or continuously the error LED blinks when it enters the ERROR status.

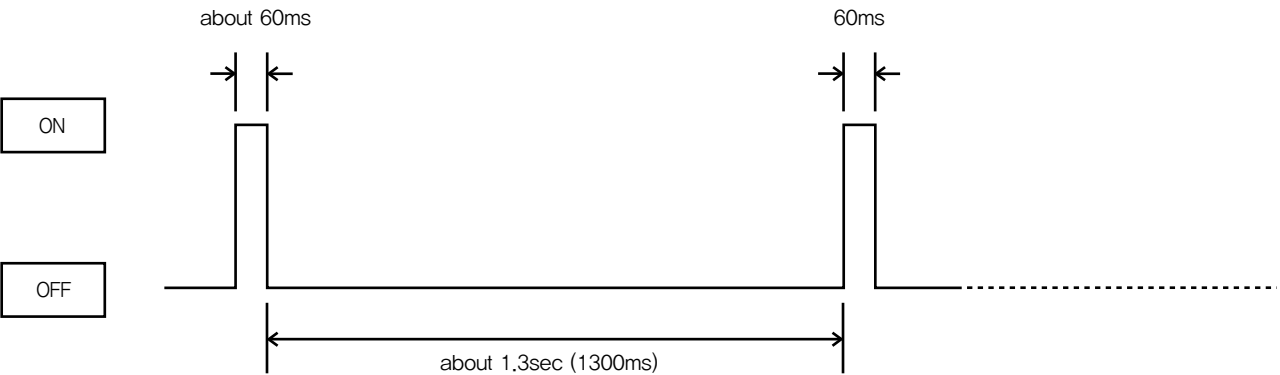
When the cover is not closed completely (Cover Open)

The LED shows red light and turns green when the cover completely closed.

No Paper

The buzzer repeatedly sounds like “Beep — Beep —” and LED turns on Green / Red light alternately.

In case of opening the cover, the beep sound disappears. Change the paper roll then clear the error status after some motor feeds.



No paper - Buzzer Sound

SPT-7000

Introduction ▶

System Installation ▼

Make sure of installation area
Before connecting peripherals

• Connecting Peripherals

- Connecting Serial Port Devices such as Barcode Scanner
- Connecting RJ-11 Cash Drawer
- Connecting RJ-45 LAN Cable
- Connecting USB Device
- Connecting PS Module
- Connecting Security / Scanner Module
- Connecting Receipt Printer

Receipt Printer

- Dismantle the Cover for Customer Displays
- Connecting DVR Card
- Connecting AC Power Cord to the Set Plug
- Cable Management

System On / Off

System Use ▶

System Expansion & Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

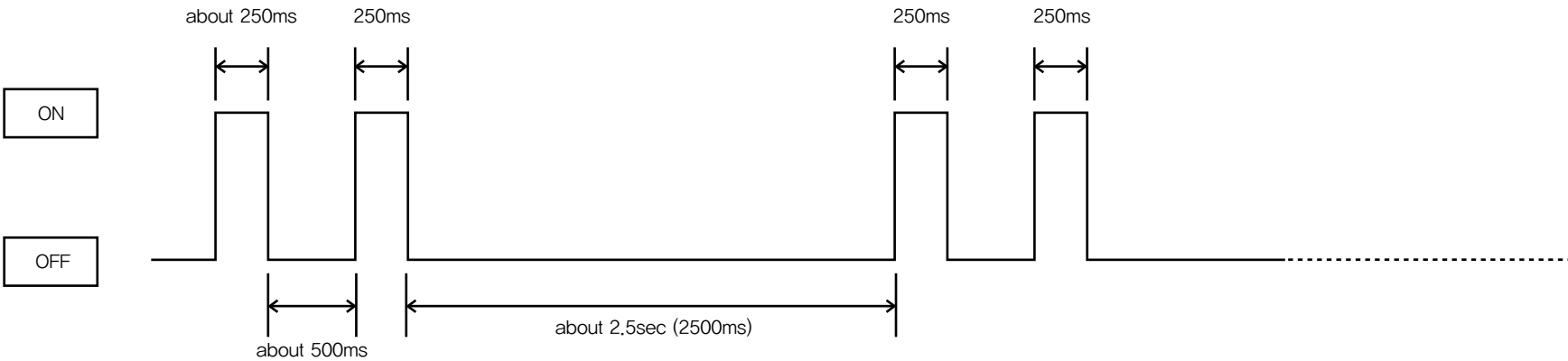
Receipt Printer

▪ Error Status & Error Resolution - Cutter Jam

Cutter Jam

The cutter blade cannot proceed forward normally due to some objects are stuck in the printer inside while operating.
In this case, the buzzer repeatedly sounds like “Beep Beep —, Beep Beep —” and LED turns on Green / Red light alternately.

To solve this error, please refer to “Error Resolution” page 2-15.



Cutter Jam : LED & Buzzer Status

SPT-7000

Introduction

System Installation

- Make sure of installation area
Before connecting peripherals
- Connecting Peripherals

- Connecting Serial Port Devices such as Barcode Scanner
- Connecting RJ-11 Cash Drawer
- Connecting RJ-45 LAN Cable
- Connecting USB Device
- Connecting PS Module
- Connecting Security / Scanner Module
- Connecting Receipt Printer
- Receipt Printer
- Dismantle the Cover for Customer Displays
- Connecting DVR Card
- Connecting AC Power Cord to the Set Plug
- Cable Management

System On / Off

System Use

System Expansion & Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

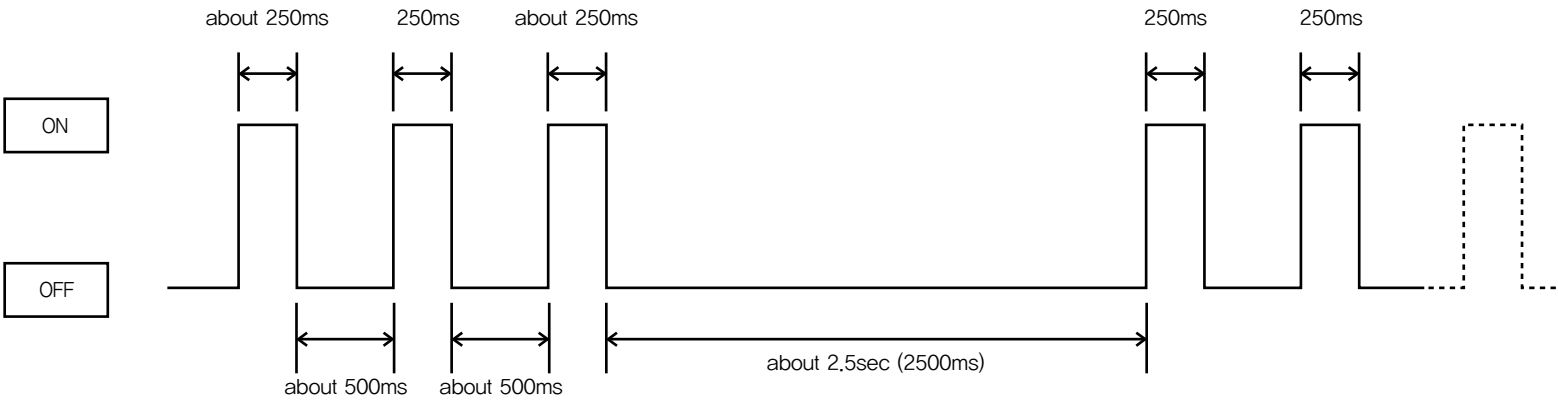
03. Connecting Peripherals

Receipt Printer

Error Status & Error Resolution - Cutter Not Home

Cutter Not Home

This happens if the cutter blade steps forward while the printer is on (LED is light on).
In this case, the buzzer repeatedly sounds like “Beep Beep Beep —, Beep Beep Beep —” and LED turns on Green / Red light alternately.
To solve this error, please refer to “Error Resolution” page 2-15.



Cutter Not Home : LED and Buzzer Status

SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer

Receipt Printer

Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

Receipt Printer

▪ Error Status & Error Resolution - Error Resolution

Cutter Jam / Cutter Not Home

1. Pull the printer cover and open it.
2. In case the cover is not open completely, repeat to open and close the cover 2 or 3 times.
Then, the cutter takes a step backwards and you can open the cover normally.
3. If the cover opens completely, remove jammed paper and then close the cover.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer

Receipt Printer

Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

03. Connecting Peripherals

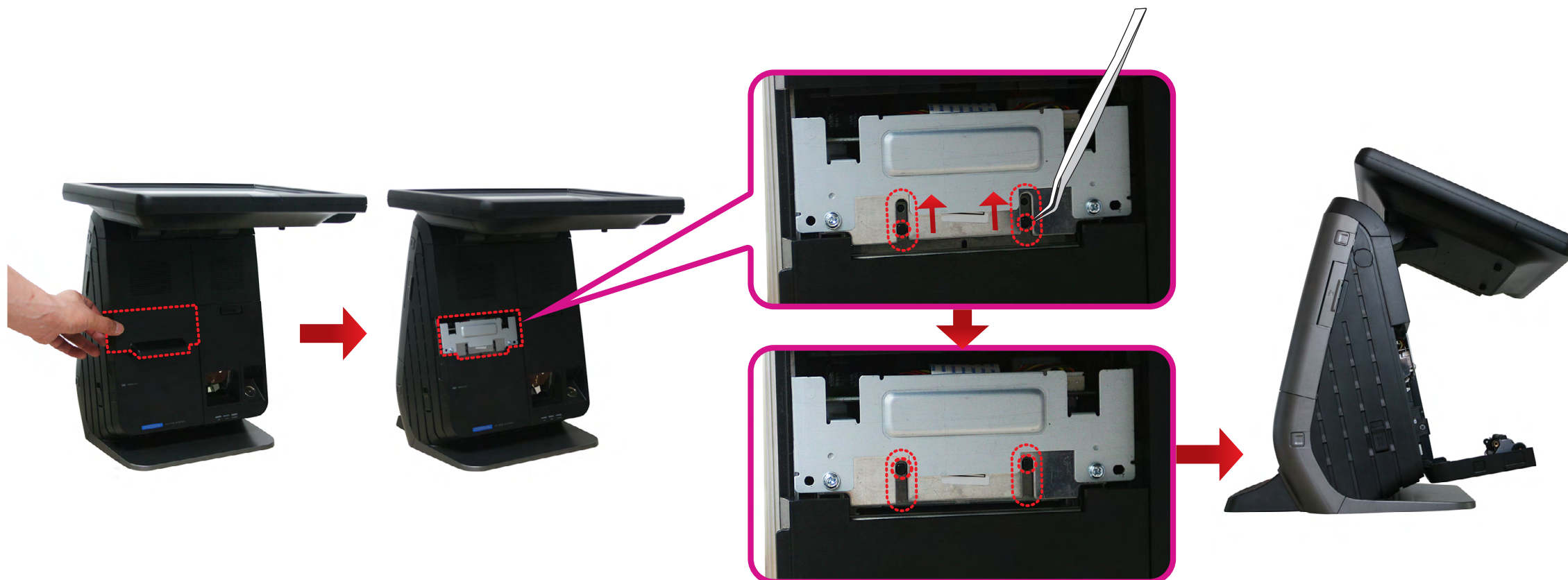
Receipt Printer

▪ Error Status & Error Resolution - Error Resolution



Note!

- ▶ If you cannot solve “Cutter Jam” or “Cutter Not Home” errors by the method mentioned in page 2-15,
- ▶ please dismantle the cover cutter. Then, raise upward the blade knobs using a tool as shown. And open the printer cover.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

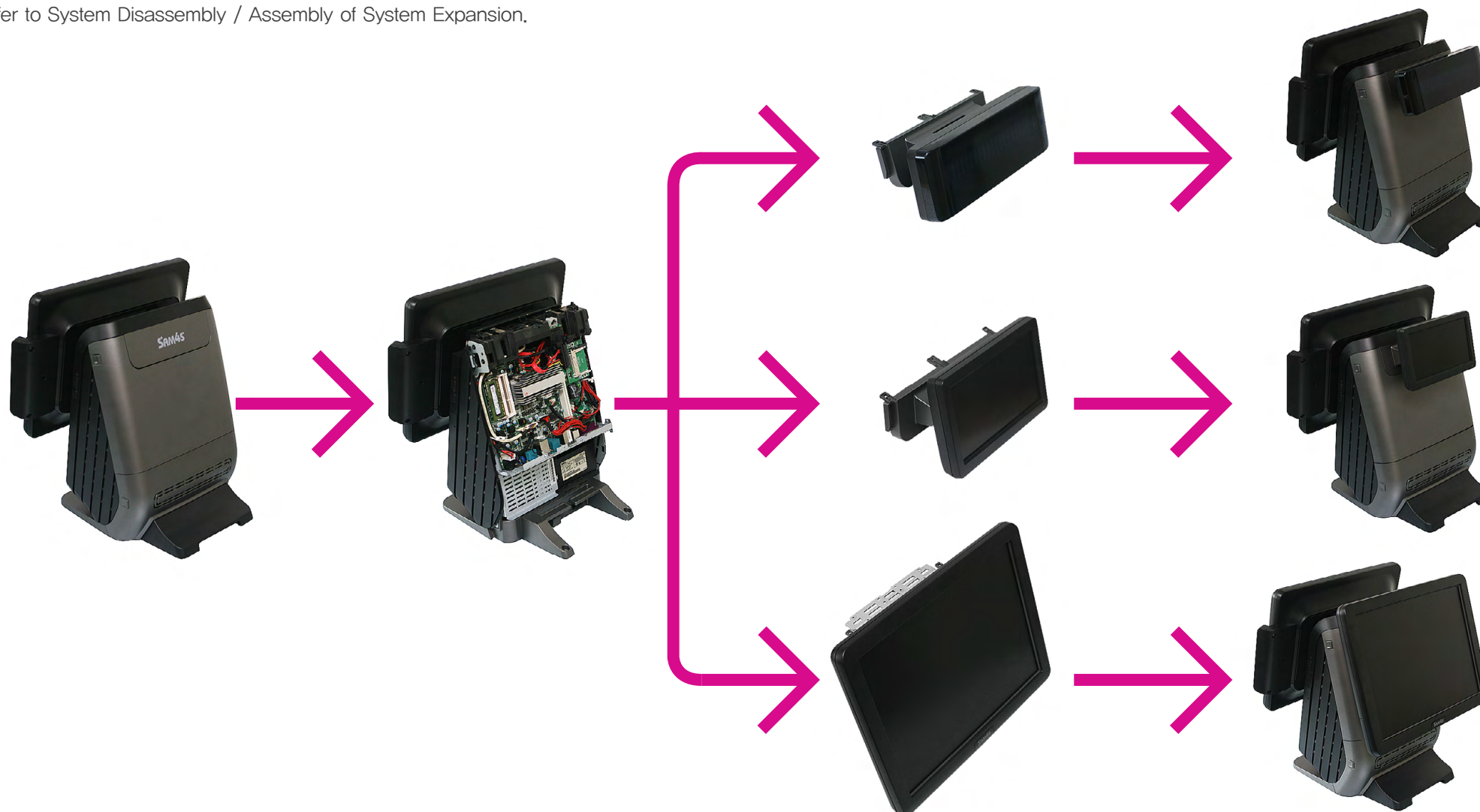
System Installation

03. Connecting Peripherals

Dismantle the Cover for Customer Displays (Option)

After dismantling the cover, connect CDP / 7" Dual LCD / 15" Dual LCD into the system.

Refer to System Disassembly / Assembly of System Expansion.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

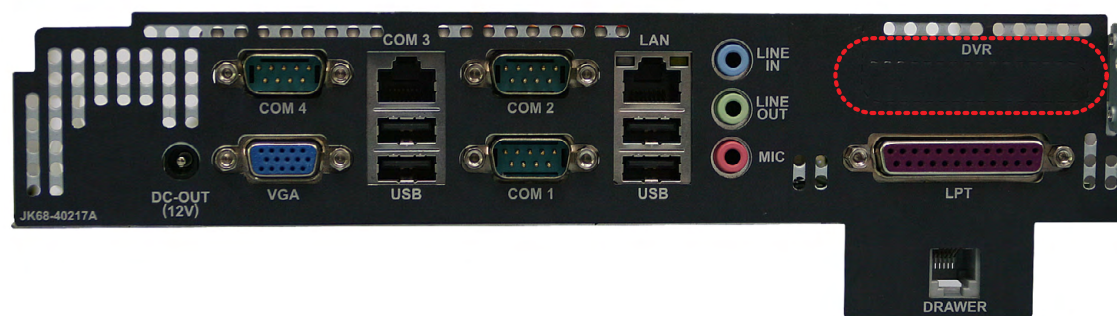
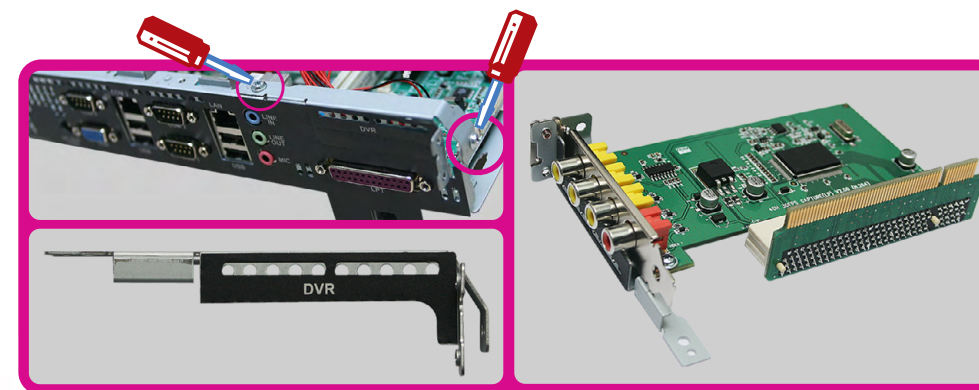
Appendix B
System Structure

System Installation

03. Connecting Peripherals

Connect DVR Card

1. Push the both lock button of the rear cover and then pull the cover as shown.
2. Remove the two screws on the Interface and the bracket.
3. Remove the DVR sheet from the Interface and attach it to the bracket.
4. Assemble Raiser Card and DVR Card and then fit it into PCI slot.
5. Screw it as shown and then assemble the cover.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug
Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

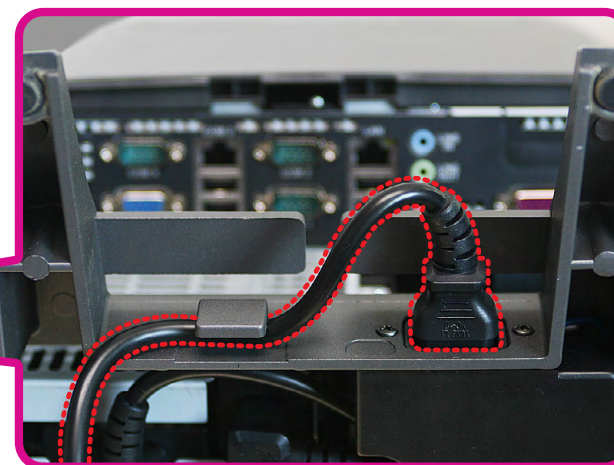
03. Connecting Peripherals

Connecting AC Power Cord to the Set Plug

1. Push the both lock button as shown and then pull the Interface cover.
2. Connect AC Power Cord to AC Plug on the rear of the set.
(The adaptor used in this system support free voltage. It can be used both in 100V and 220v.)



Caution! | ▶ SPT-7000 Adaptor from Sam4s should be only used.
▶ Never use the adaptor with similar specification or shape.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals

• Connecting Peripherals

Connecting Serial Port Devices
such as Barcode Scanner
Connecting RJ-11 Cash Drawer
Connecting RJ-45 LAN Cable
Connecting USB Device
Connecting PS Module
Connecting Security
/ Scanner Module
Connecting Receipt Printer
Receipt Printer
Dismantle the Cover
for Customer Displays
Connecting DVR Card
Connecting AC Power
Cord to the Set Plug

Cable Management

System On / Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

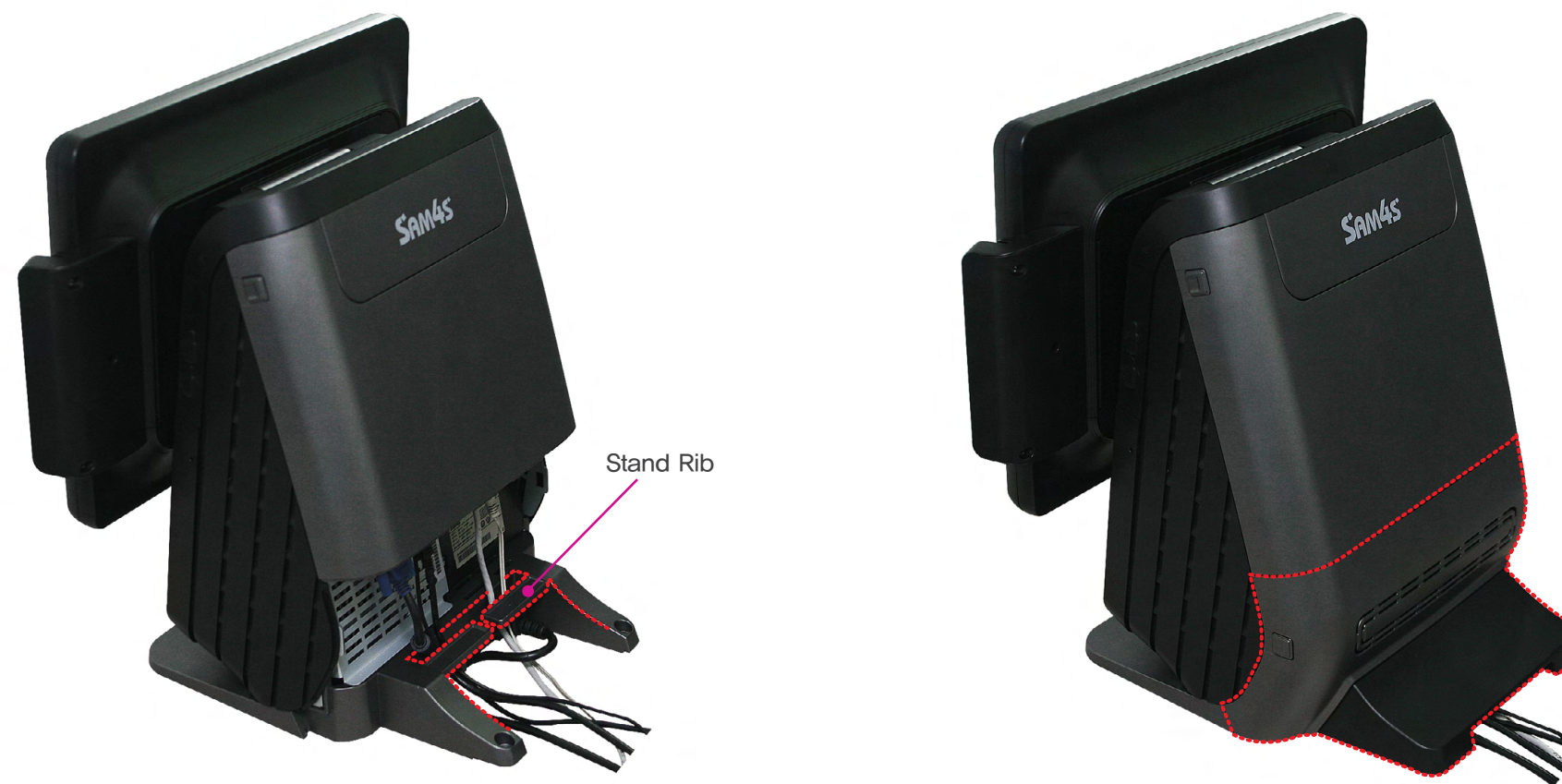
Appendix B
System Structure

System Installation

03. Connecting Peripherals

Cable Management

1. Manage cables using the Stand Rib and close the Interface cover.



- ⚠ Caution ! | ▶ Connect peripherals after turning the power off.
▶ Please use gloves to prevent injury from the edge of the equipment.

SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals
Connecting Peripherals
• System On / Off

System On
System Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Installation

04. System On / Off

System On

After installation of the system, proceed to power on the system with following steps.

1. Power up the peripherals which are connected with the system.
2. Press the power button placed at the right bottom side of the system.
3. Power Light is to be lit at the right bottom side of the system.
4. Windows initial screen will appear after a while.



SPT-7000

Introduction ▶

System Installation ▼

Make sure of
installation area
Before connecting
peripherals
Connecting Peripherals
• System On / Off

System On
System Off

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

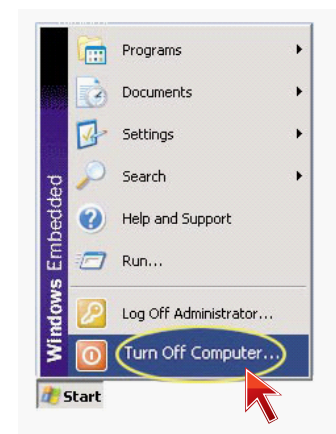
Appendix B
System Structure

System Installation

04. System On / Off

System Off

1. All application programs should be off after saving files.
2. Press <Start> button and select 'Turn Off Computer' on popup menu.



3. System will be shut down when <Turn Off> is clicked.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion & Dismantle ▶

Appendix A
System Set-Up



Appendix B
System Structure

System Use

01. Keyboard

Using Key board is used for inputting data, it consists of letter keys, number keys, and special keys.
Keyboard function is depends on the model type the customer purchase. If you want to use PS/2 keyboard type, please connect keyboard when the system powered off.

- Using Keyboard is used for inputting data, it consists of letter keys, number keys, and special keys.

Key	Instructions
Tab	When you press one time, a cursor moves right. When you press shift and tab key at same time, a cursor moves left.
Caps Lock	When you press this key. Caps Lock LED is turned on. In this state, you can write upper case. If you press this key again, you can write lowercase.
Shift	If using this with character or number key, you can input the upper small characters of key. In case of English character, you can use uppercase.
Ctrl	Execute special functions with other keys.
Alt	Execute character code or functions with other keys.
Backspace	Delete the left character and move left.
Enter	If you want to execute command, you press this key at the end of command line.
Insert	Set 'On' nor 'Off' in insert mode.
Delete	Delete the character at which cursor is currently located.
Home, End, PgUp, PgDn, ↑, ↓, ←, →	You can move cursor, when using application. You can move cursor up, down, left, right With ' ↑, ↓, ←, → ' keys.
Num Lock	Num Lock is a key on the numeric keypad of most computer keyboards, used to switch the pad between number entry and arrow keys. It is a toggle key, like C맨 Lock and Scroll Lock. Its state is commonly represented by an LED light built into the keyboard.
F1 – F12	Do special functions in applications.
Print Screen	Make the current screenshot. When using with Alt key, only activated window will be captured.
	Show 'Start' menus
	Show popup menu such as clicking right button od mouse at which cursor isn currently located.

※ Caps Lock, Num Lock, Scroll Lock keys are toggle keys. When you press the key, function is activated. And press again, function is inactivated. When function is activated, light of each LED is on.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

Keyboard Use
• Touch screen Use
About POS Driver and Utility
Dual Monitor Use

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

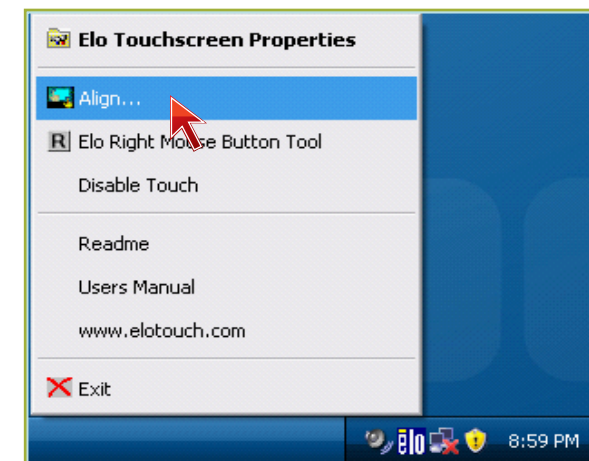
System Use

02. Touch Screen Use

Recalibrate if it is not accurate on touch points.

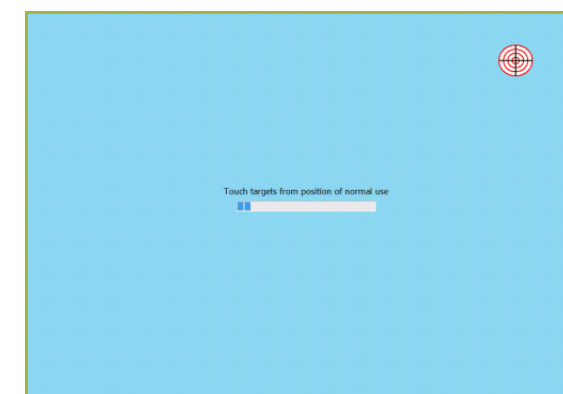
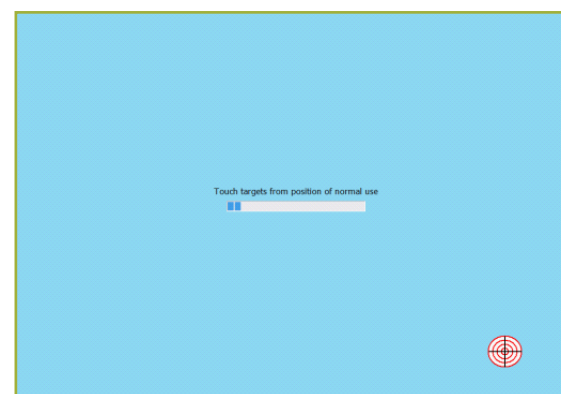
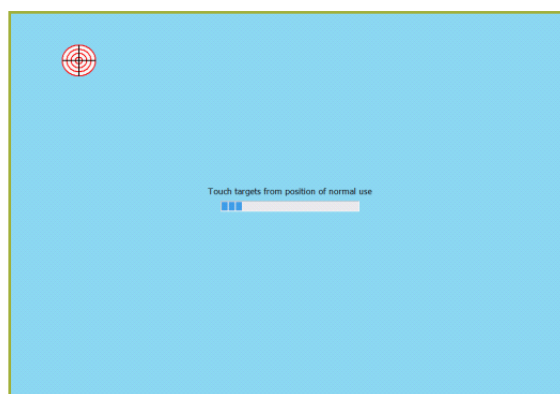
- To recalibrate the touch screen, please follow the procedure blow.

1. Click the right button of mouse on 'elo' icon of Windows tray icons. And select 'Align...' tab on the menu.



2. If the following screen appears, touch the center of red circle for 2 seconds and then unhand from the red point. Repeat the procedure if the red circle appears again.

Caution! | Ball point pen or sharpness tools may damage to surface of touch screen.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Use

02. Touch Screen Use

Recalibrate if it is not accurate on touch points.

3. If the recalibration is finished, click the green check button and end the recalibration program.



Note!

Recalibration is no need in case for setting up as Extended Screen Mode after connecting Dual Monitor.
On contrary, recalibration is also no need in case of being changed into Single Screen Mode (LVDS only) while using Extended Screen Mode.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver & Utility
- Dual Monitor Use

System Expansion & Dismantle ▶

Appendix A
System Set-Up

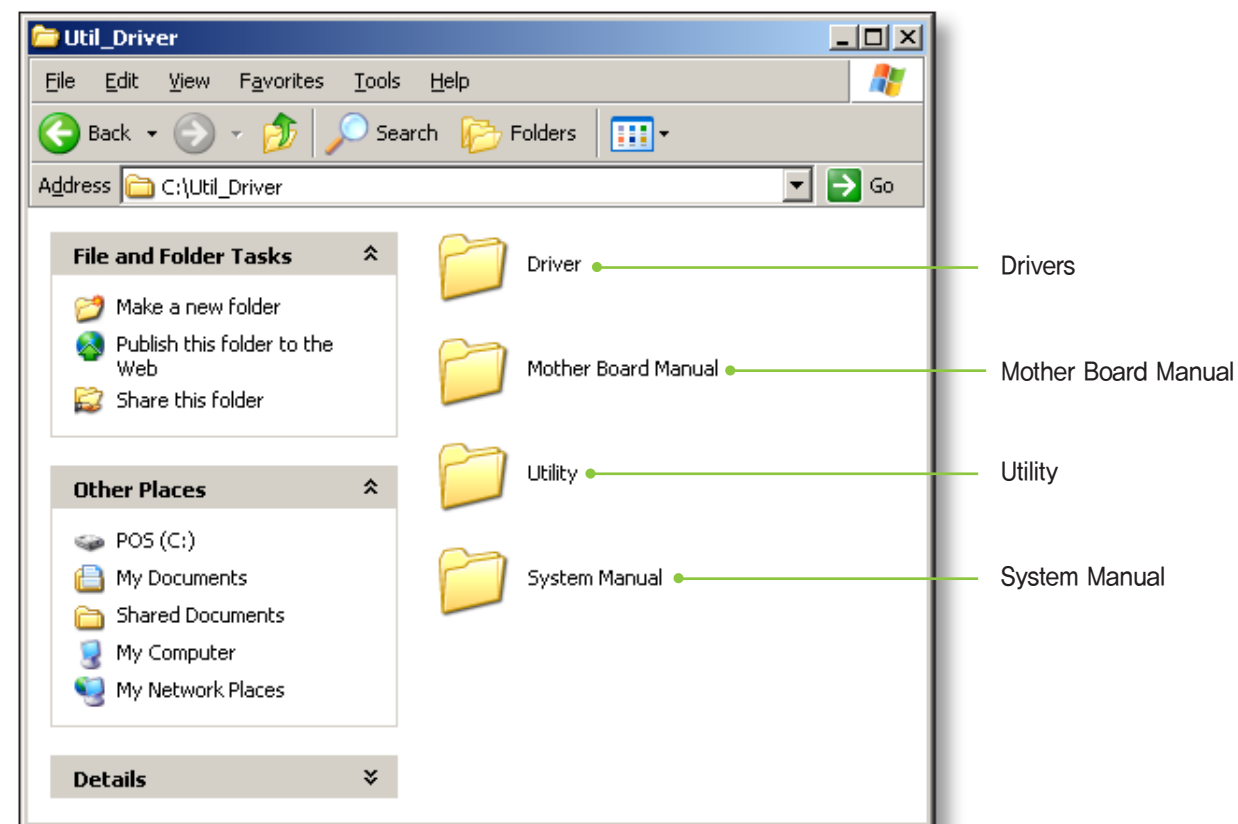
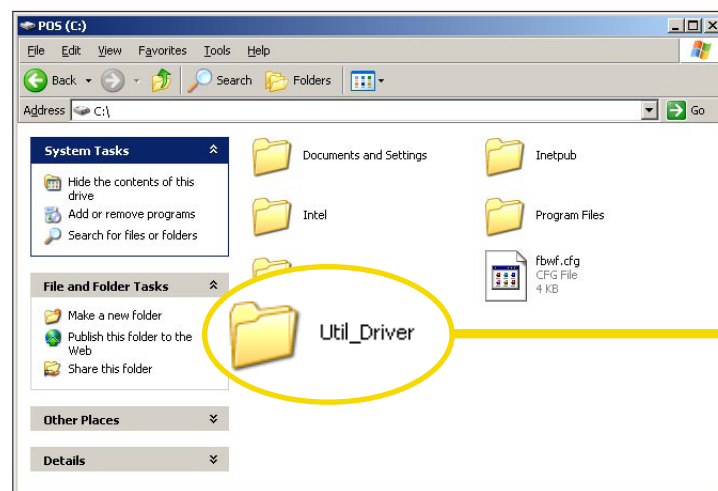
Appendix B
System Structure

System Use

03. About POS Driver & Utility

POS Driver and Utility

POS Driver & Other utilities are in 'Util_Driver' folder of C driver.



SPT-7000

Introduction

System Installation

System Use

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion
& Dismantle

Appendix A
System Set-Up

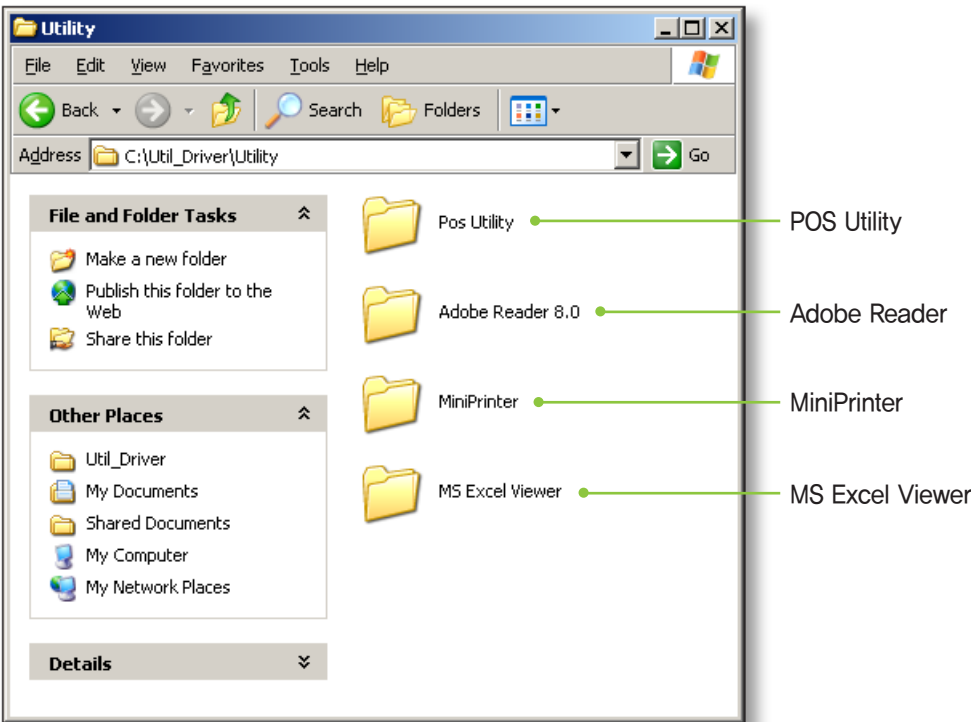
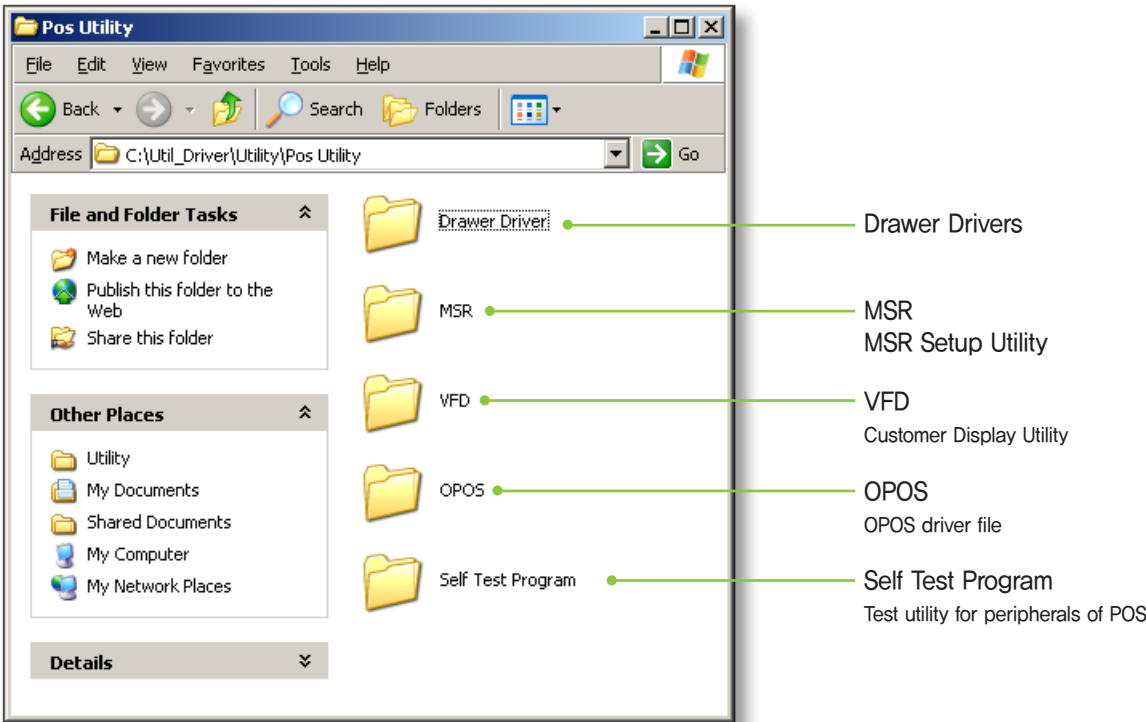
Appendix B
System Structure

System Use

03. About POS Driver & Utility

POS Driver and Utility

POS Driver & Other utilities are in 'Util_Driver' folder of C driver.



SPT-7000

Introduction

System Installation

System Use

Keyboard Use

Touch screen Use

About POS Driver and Utility

Dual Monitor Use

System Expansion
& Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

System Use

03. About POS Driver & Utility

POS Driver and Utility

OPOS or OLE Retail POS consists of an architecture for win32-based POS device access.
The current OPOS driver has been developed in accordance with OPOS Specification Version 1.10 and continues to support the OPOS version.

- Support OS : WEPOS, Win XP Pro, POSReady 2009, POSReady 7, Win 7 Pro, Win 7 Ult

Support Peripherals

- LineDisplay : Q202LD
- Cash Drawer : S7000CD
- POSPrinter : ELLIX Series

The location of installation file

- The file is shipped on the hard disk
(C:\Util_Driver\Utility\Pos Utility\OPOS)

The way of Installation

- Execute 'SAM4SOPoSSelr_Vx.xx.exe' file in OPOS folder.
- All components will be automatically registered & set up according to the system configuration.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

Keyboard Use
Touch screen Use
About POS Driver and Utility
• Dual Monitor Use

System Expansion & Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Use

04. Dual Monitor Use

Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

The system supports 'dual monitors' that is using two monitors for one system. Sub-monitor can be displayed a screen copied a main-monitor's Windows desktop or can be display a screen extended Windows desktop.

1. Connect to external monitor when the system is turned off.
(If 'connector protecting cover' is removed from the bottom of system, VGA connector is shown.)

- ① Connect to external monitor when the system is turned off.
- ② Connect a power cable to external monitor.

2. Press a power button of the system and the external monitor.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

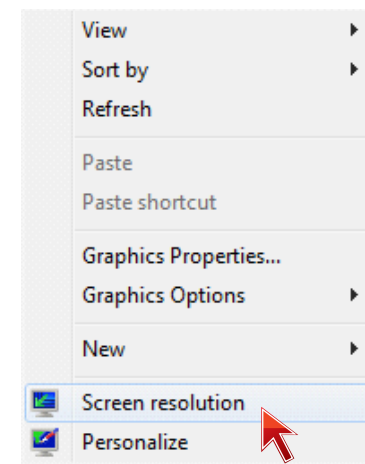
Appendix B
System Structure

System Use

04. Dual Monitor Use

Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

- Click the right button of mouse on Windows desktop screen, and select 'Screen resolution' from a popup menu.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

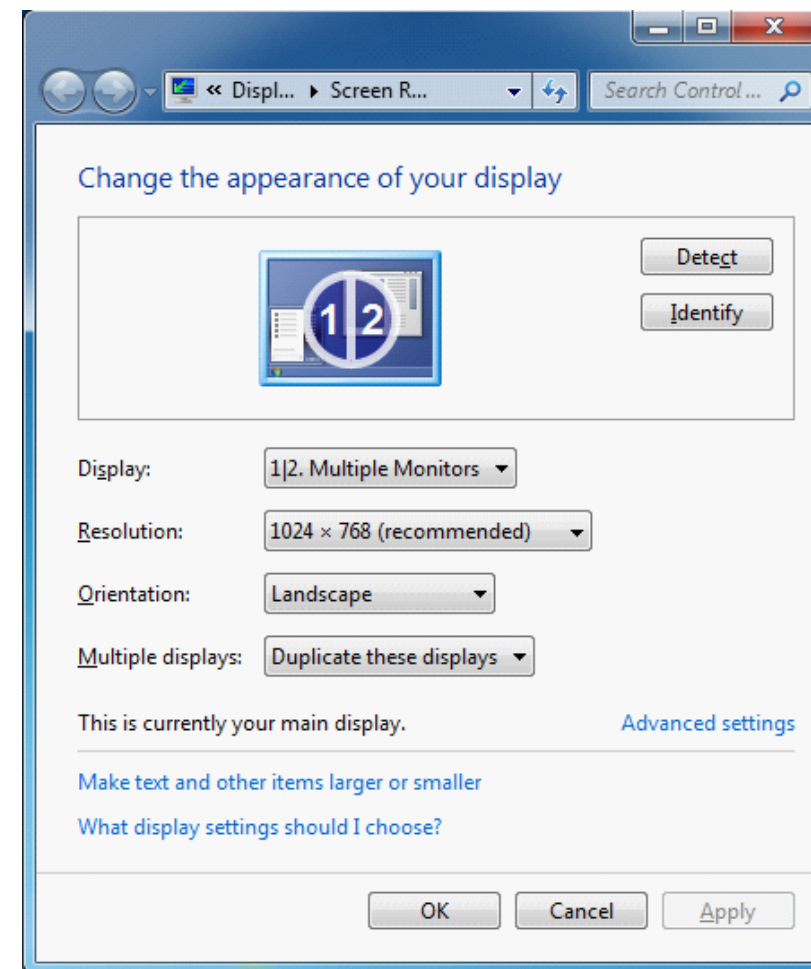
Appendix B
System Structure

System Use

04. Dual Monitor Use

Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

- On 'Change the appearance of your display' dialog, the 'Display' option is set as '1|2 Multiple Monitors' and 'Multiple displays' option is set as 'Duplicate these displays'.
(In this case, the dual monitor shows a duplicated screen.)



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion & Dismantle ▶

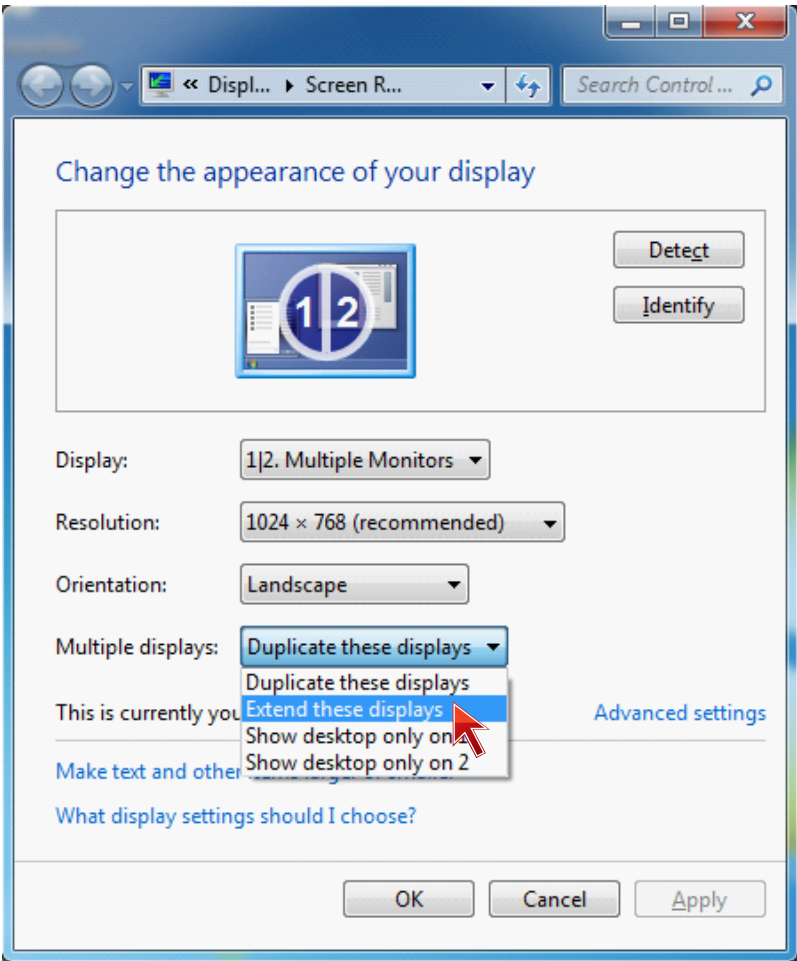
Appendix A
System Set-Up

Appendix B
System Structure

System Use

04. Dual Monitor Use Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

5. If you want to change to an extended screen, set 'Multiple displays' option as 'Extend these displays' on 'Change the appearance of your display' dialog.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

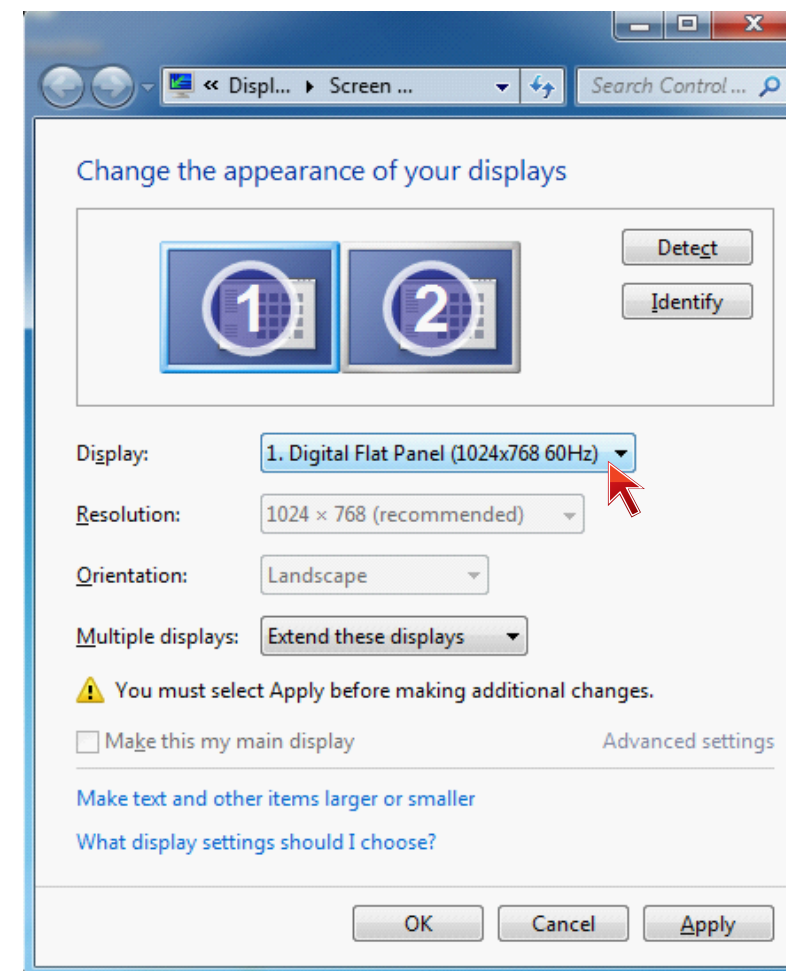
Appendix B
System Structure

System Use

04. Dual Monitor Use

Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

- Set 'Display' option as '1. Digital Flat Panel (1024x768 60 Hz)' and click 'Apply' button.



SPT-7000

Introduction

▶

System Installation

▶

System Use

▼

- Keyboard Use

 Touch screen Use

 About POS Driver and Utility

 • Dual Monitor Use

System Expansion & Dismantle

▶

Appendix A

System Set-Up

Appendix B

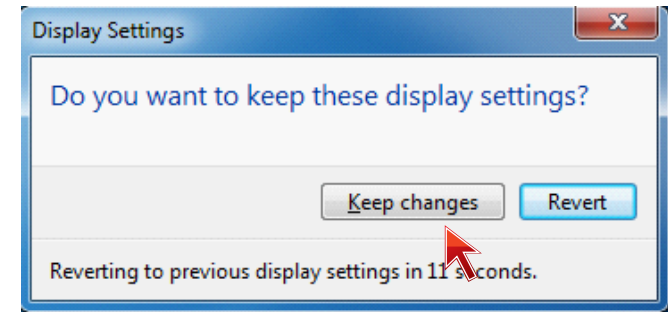
System Structure

System Use

04. Dual Monitor Use

Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

7. Select 'Keep changes' button on 'Display Settings' dialog to keep the current settings.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

- Keyboard Use
- Touch screen Use
- About POS Driver and Utility
- Dual Monitor Use

System Expansion & Dismantle ▶

Appendix A
System Set-Up

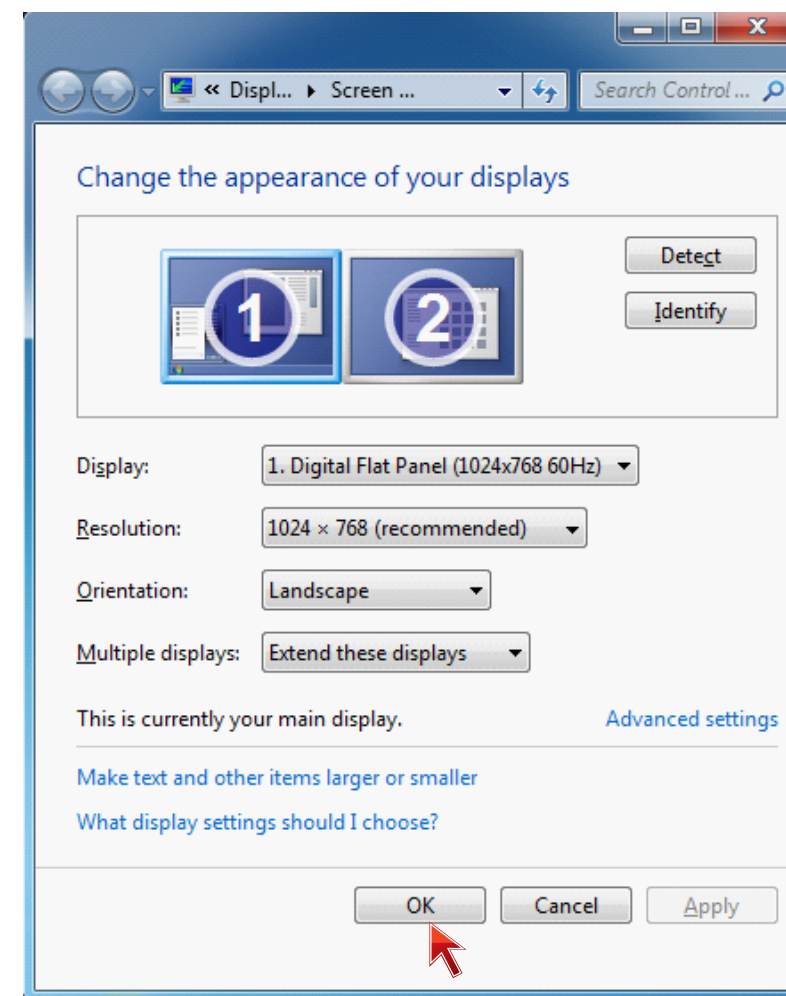
Appendix B
System Structure

System Use

04. Dual Monitor Use

Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

7. If the configuration is finished, click 'OK' button to close the 'Change the appearance of your displays' dialog.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▼

Keyboard Use
Touch screen Use
About POS Driver and Utility
• Dual Monitor Use

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

System Use

04. Dual Monitor Use

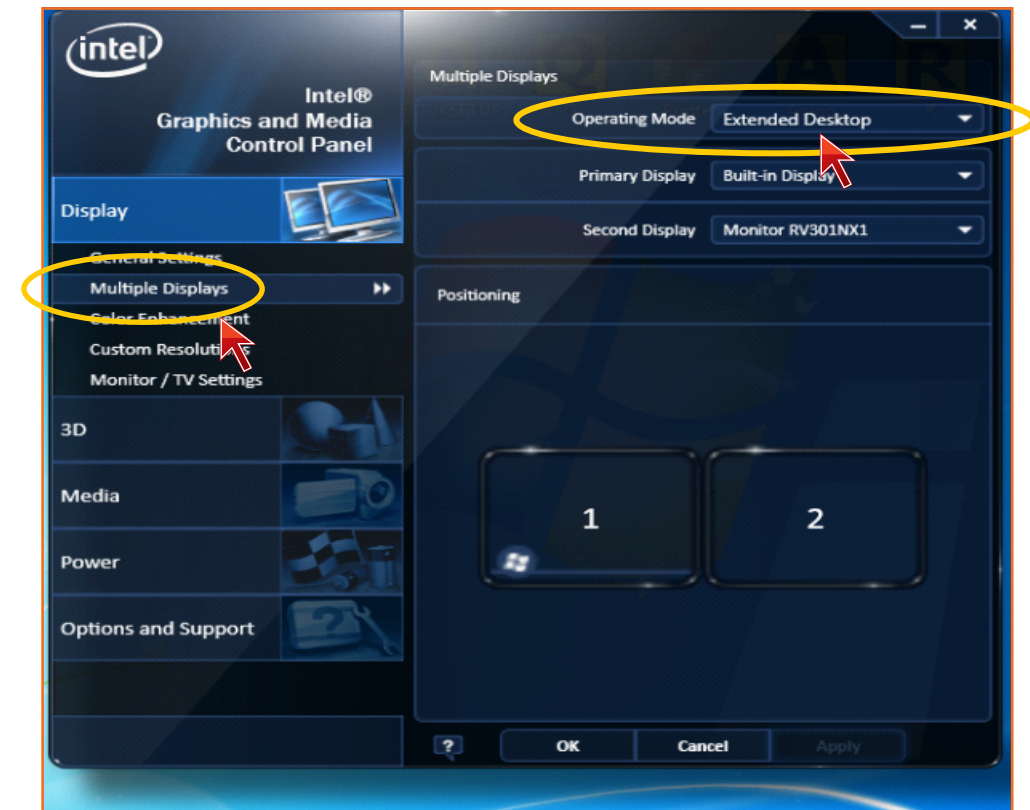
Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

Note! ▶ How to check dual monitor's settings
If 'dual monitors' doesn't work properly, refer to the following procedure.

Method 1 Check the System Setup

Make sure that 'Chipset > Host Bridge > Intel IGD Configuration > Boot Display Device' menu is selected as 'D-SUB + LVDS'

- Method 2** Click the right button of mouse on 'Intel Graphic icon' of Windows tray area and select 'Graphic Properties' menu. Make sure that 'Operating Mode' of 'Multiple Displays' is set as 'Extended Desktop'.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
 - HDD Replacement
 - Internal Speaker & USB Removal
 - Receipt Printer & Board Removal
 - Scanner & Dallas Removal
 - SMPS Removal
 - Mainboard ASSY Removal
 - Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

System Dismantling

1. Press the lock button then, pull "I/F cover" toward the arrow direction & take it from the body.
2. Plug the AC power cord into AC socket in the back side of the body.
(The adaptor is compatible with 100V & 220V both.)



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
 - HDD Replacement
 - Internal Speaker & USB Removal
 - Receipt Printer & Board Removal
 - Scanner & Dallas Removal
 - SMPS Removal
 - Mainboard ASSY Removal
 - Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (CDP)

1. Press the lock button then, pull “I/F cover” toward the arrow direction like the pictures to take it from the body.



2. Take the upper cover from the body them remove the dummy cover .

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
 - HDD Replacement
 - Internal Speaker & USB Removal
 - Receipt Printer & Board Removal
 - Scanner & Dallas Removal
 - SMPS Removal
 - Mainboard ASSY Removal
 - Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

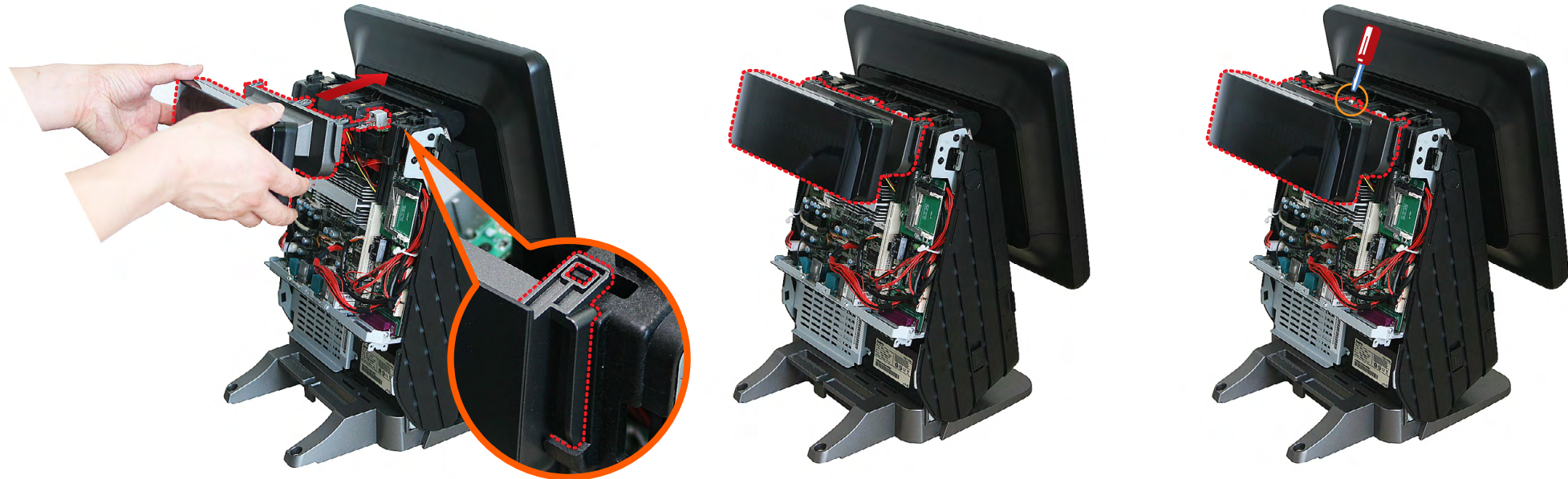
Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (CDP)

3. Equip the body with Customer Display with the cable.



4. Assemble the covers in reverse order.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
 - HDD Replacement
 - Internal Speaker & USB Removal
 - Receipt Printer & Board Removal
 - Scanner & Dallas Removal
 - SMPS Removal
 - Mainboard ASSY Removal
 - Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (DUAL 7")

1. Press the lock button then, pull "I/F cover" toward the arrow direction like the pictures to take it from the body.



2. Take the upper cover from the body then remove the dummy cover .

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
 - HDD Replacement
 - Internal Speaker & USB Removal
 - Receipt Printer & Board Removal
 - Scanner & Dallas Removal
 - SMPS Removal
 - Mainboard ASSY Removal
 - Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

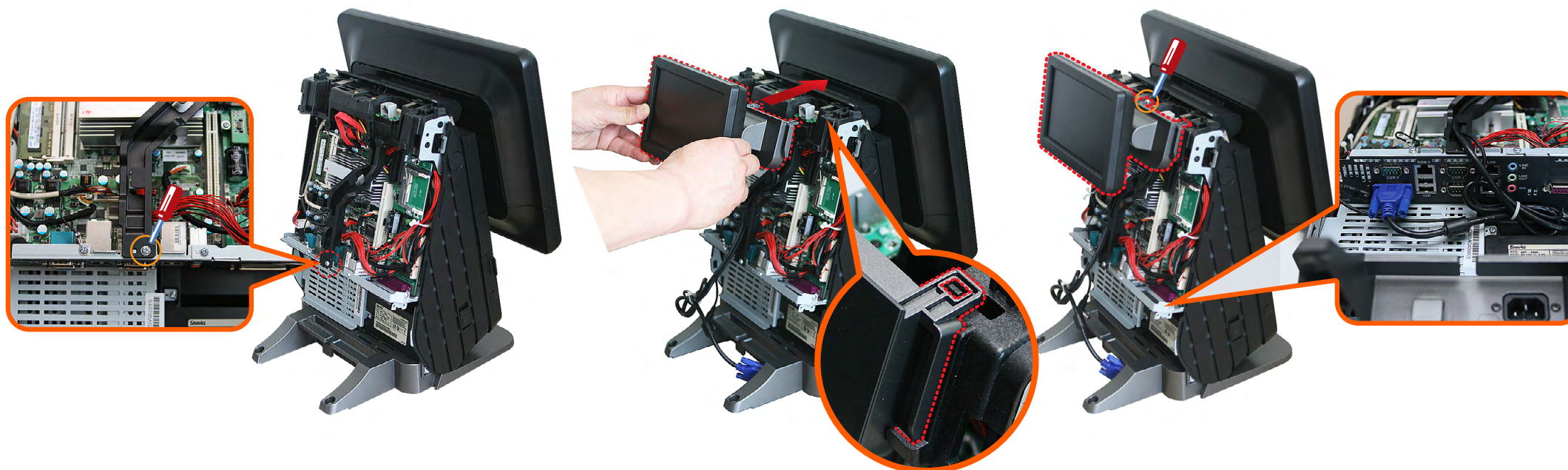
Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (DUAL 7")

3. Clamp a hook for the cable to the body with screw. Put the cable inside of the hook after equipping the system with the Customer display (7")



4. Assemble the covers in reverse order.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle

• System Dismantling & Assembling

- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (DUAL 15")

1. Press the lock button then, pull the cover toward the arrow direction to take it from the body.



2. Take the upper cover from the body them remove the dummy cover .

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
 - HDD Replacement
 - Internal Speaker & USB Removal
 - Receipt Printer & Board Removal
 - Scanner & Dallas Removal
 - SMPS Removal
 - Mainboard ASSY Removal
 - Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (DUAL 15")

3. Clamp a hook for the cable to the body with screw. Put the cable inside of the hook after equipping the system with the Customer display (15")



4. Assemble the covers in reverse order tightening 4 screws.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
 - HDD Replacement
 - Internal Speaker & USB Removal
 - Receipt Printer & Board Removal
 - Scanner & Dallas Removal
 - SMPS Removal
 - Mainboard ASSY Removal
 - Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

SMPS Replacement with DUAL Monitor (15")

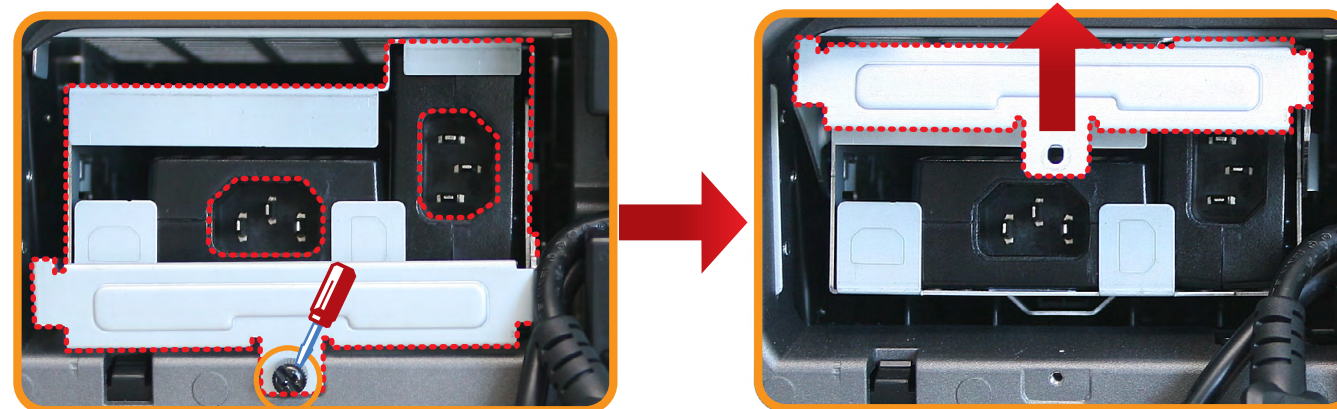
1. Lay down the body with care.



2. Remove the power supply cord.

Untighten the hand screw & remove the cover.

3. Disconnect SMPS ASSY from the body.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

• System Dismantling & Assembling

- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

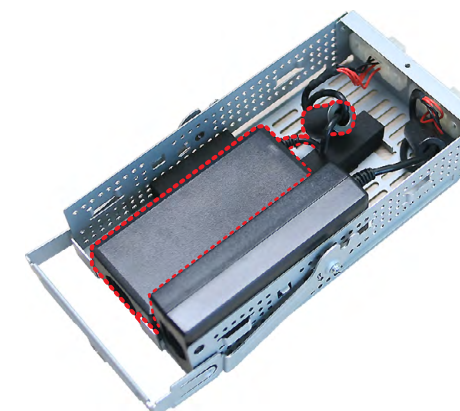
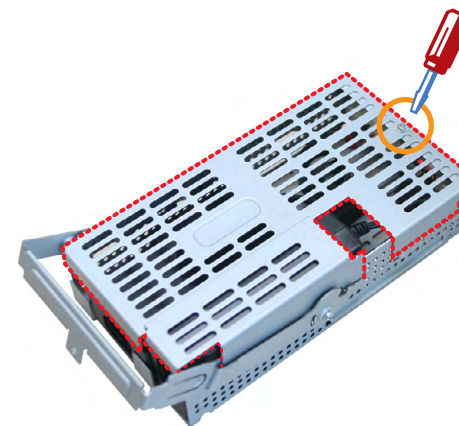
Appendix B
System Structure

System Expansion & Dismantle

01. System Dismantling & Assembling

SMPS Replacement with DUAL Monitor (15")

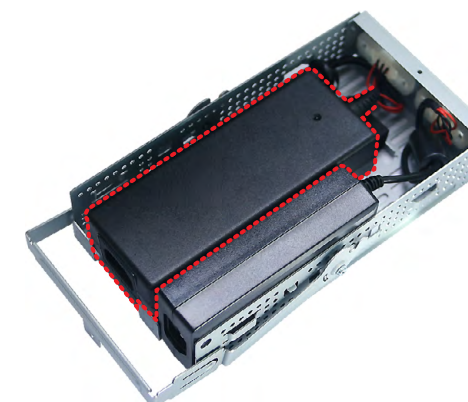
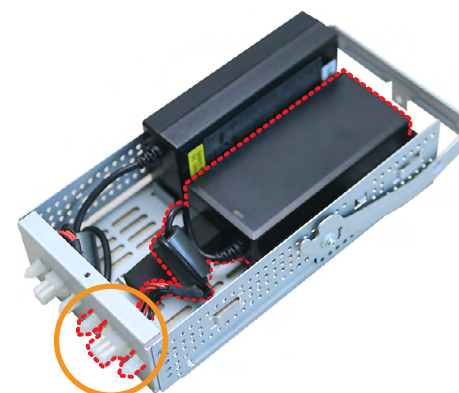
4. Remove a screw on the top and the bracket top from the body.



5. Push the connector hook in the front to remove 60W Power.

6. Remove the PAD for 60W & install the one for 80W.

7. Put 80W Power & assemble them in reverse order.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

System Dismantling & Assembling

• HDD Replacement

Internal Speaker & USB Removal

Receipt Printer & Board Removal

Scanner & Dallas Removal

SMPS Removal

Mainboard ASSY Removal

Various Boards Removal

Main Memory Removal

Remove Display Assembly

Remove MSR

Remove Display Board

Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

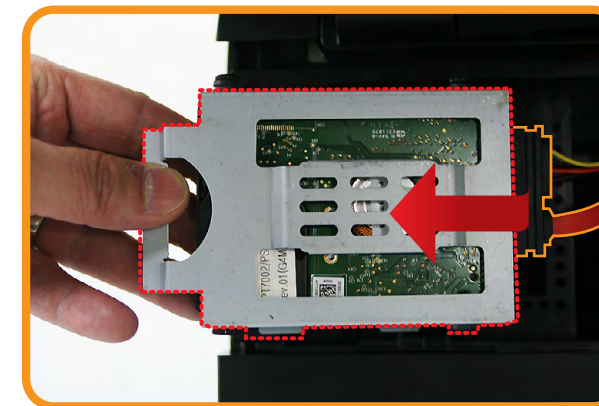
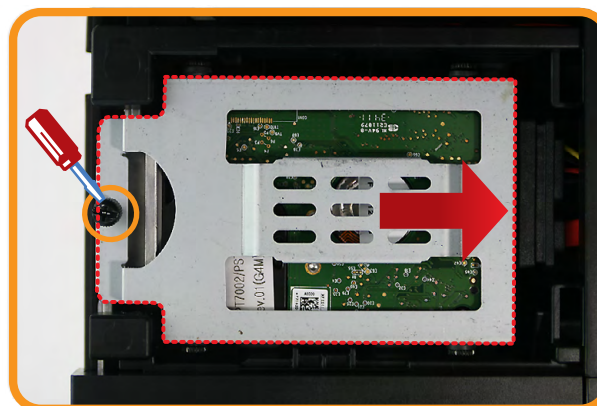
02. HDD Replacement

You can only use 2.5 inch SATA type HDD for the system.

1. Make sure the system is off for the replacement.
2. Push up the display & press 'PUSH' button on the front cover to push leftward & remove the cover



3. Remove the hand screw & push the bracket rightward to unlock it. Then, take it out upwards & remove the cable.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

System Dismantling & Assembling

• HDD Replacement

Internal Speaker & USB Removal

Receipt Printer & Board Removal

Scanner & Dallas Removal

SMPS Removal

Mainboard ASSY Removal

Various Boards Removal

Main Memory Removal

Remove Display Assembly

Remove MSR

Remove Display Board

Remove Touch Panel & LCD

Appendix A
System Set-Up

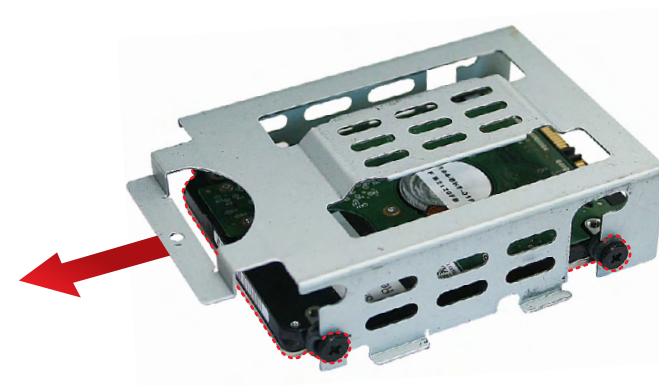
Appendix B
System Structure

System Expansion & Dismantle

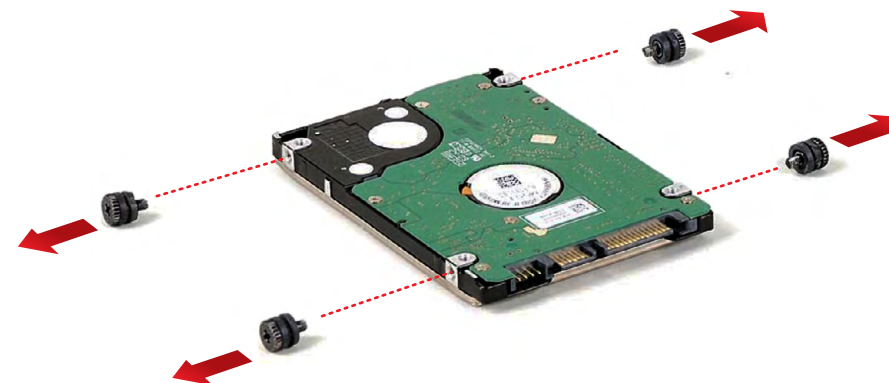
02. HDD Replacement

You can only use 2.5 inch SATA type HDD for the system.

4. Remove the bracket from the HDD.



5. Remove hand screws (4ea) from the HDD.



6. Assemble a new HDD in reverse order & connect the cable.

7. Turn on the system & check the HDD are installed properly with System Set up chapter in appendix A.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

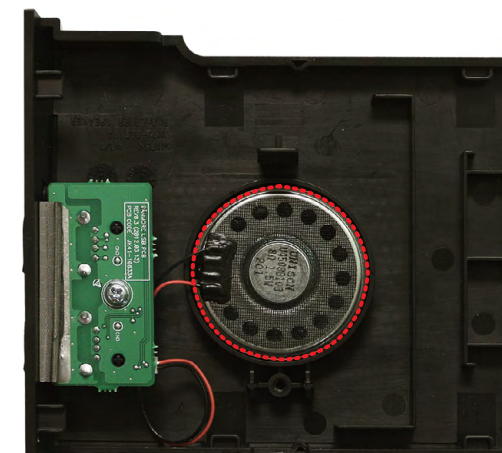
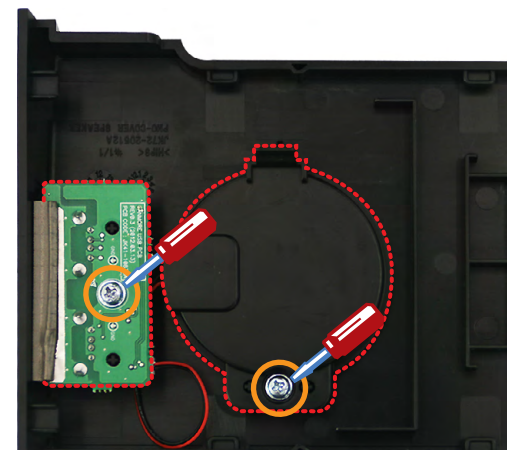
System Expansion & Dismantle

03. Internal Speaker & USB Removal

1. Turn off the system.
2. Push up the display & push the cover speaker to the right to remove it from the body.



3. Remove a screw to remove the speaker cover.
Remove a screw to take out the USB board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

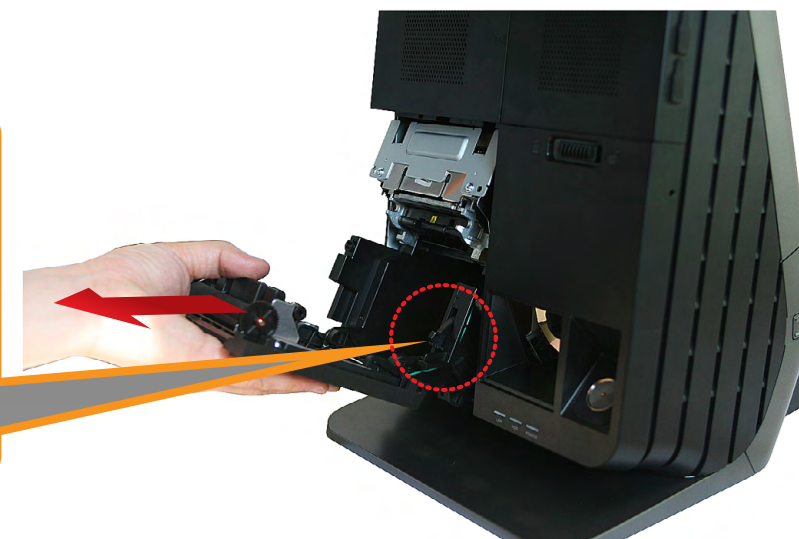
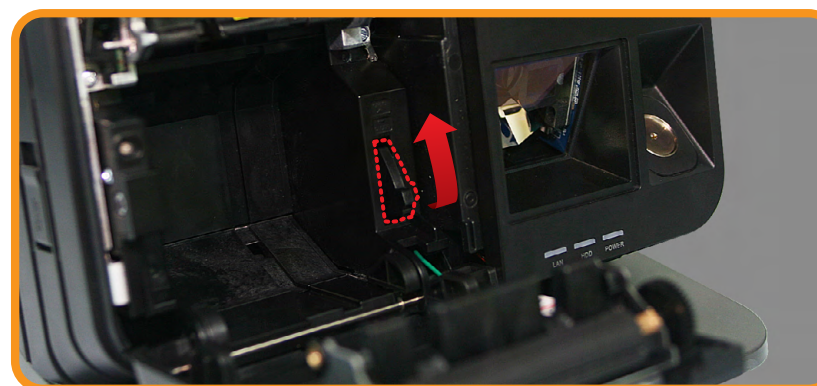
04. Receipt Printer & Board Removal

Receipt Printer & Board Removal

1. Turn off the system before the receipt printer removal.
2. Push up the display & take out the cover cutter with grip. Then, open the cover printer.



3. Lift up the lock lever inside & pull the printer towards outside to remove it from the body.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle ▼System Dismantling
& Assembling

HDD Replacement

Internal Speaker
& USB Removal• Receipt Printer
& Board RemovalScanner
& Dallas Removal

SMPS Removal

Mainboard ASSY Removal

Various Boards Removal

Main Memory Removal

Remove Display Assembly

Remove MSR

Remove Display Board

Remove Touch Panel & LCD

System Expansion & Dismantle

04. Receipt Printer & Board Removal

Receipt Printer & Board Removal

4. Assemble the dummy printer, when it does not apply the receipt printer.
Hang the hook of the dummy printer & push it upwards.

Appendix A
System Set-UpAppendix B
System Structure

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

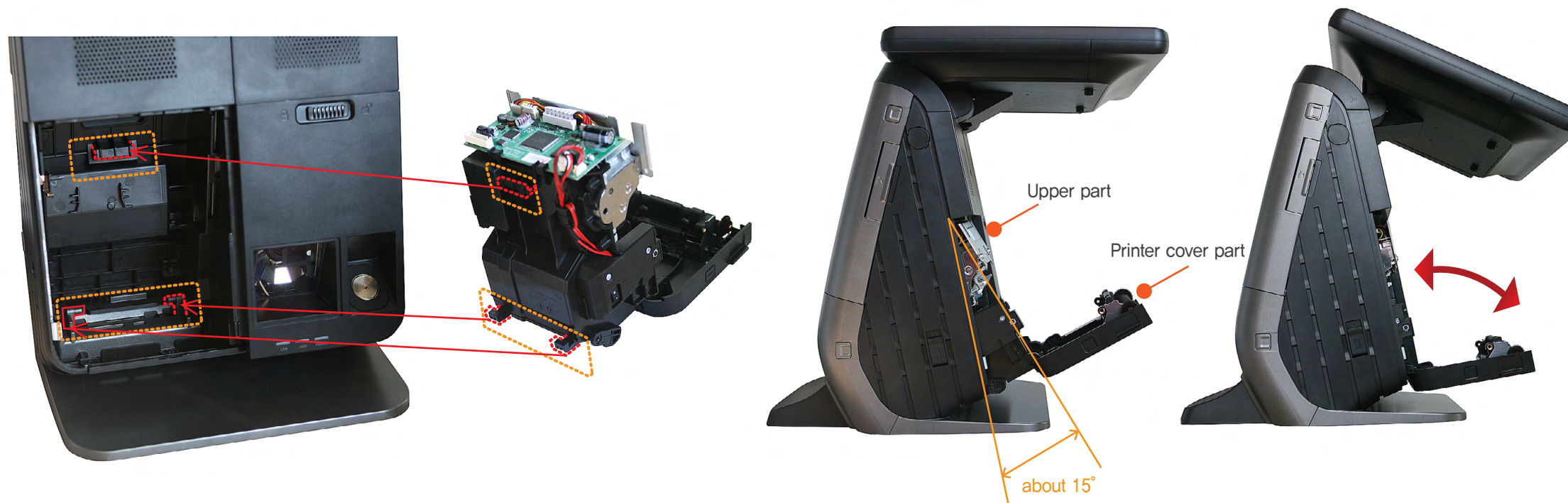
Appendix B
System Structure

System Expansion & Dismantle

04. Receipt Printer & Board Removal

Receipt Printer Assembling

1. Assemble in reverse order. Join the connector then tilt the printer at an angle of 15 degrees, then push in the upper side of printer first, then push in the printer cover. The printer is assembled automatically.
(Pull the printer cover back and forth in order to check the printer is well assembled.)
2. Equip the right side of cutter cover first, then push the left side to assemble.
3. Turn on the printer power, then check printer is well assembled.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

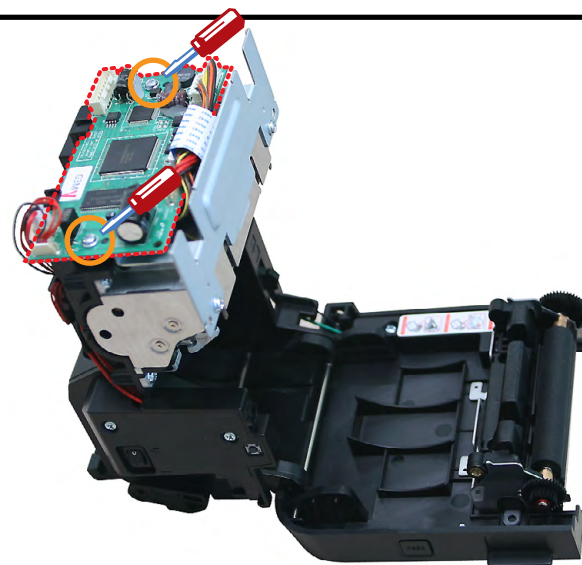
Appendix B
System Structure

System Expansion & Dismantle

04. Receipt Printer & Board Removal

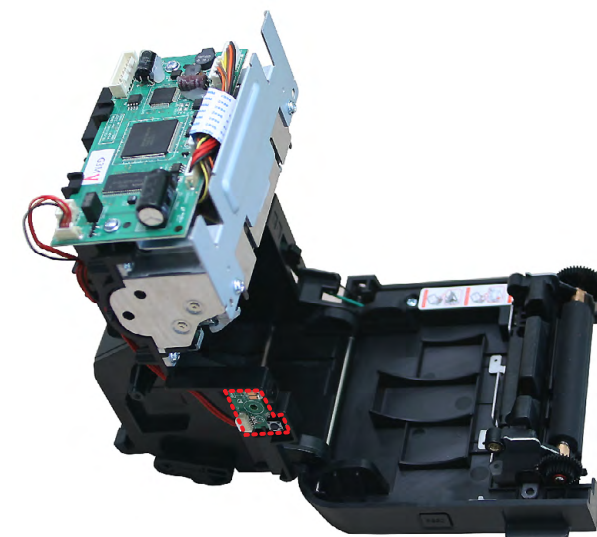
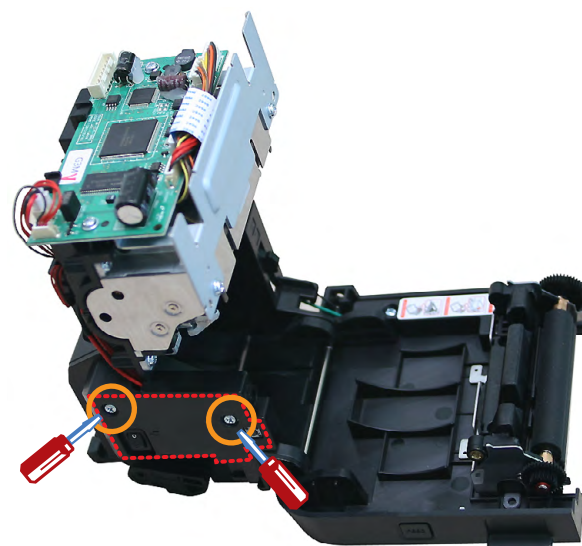
Printer Board Removal

1. Remove screws(2) to remove the printer board.



Printer OSD Board Removal

1. Remove screws(2) to take the cover away
2. Unscrew a screw to remove the OSD board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

05. Scanner & Dallas Option Removal

Scanner & Dallas Removal

1. Turn off the system.
 2. Push up the display.
- Slide the button on the cover to the right to unlock & pull it towards outside to remove.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

05. Scanner & Dallas Option Removal

Scanner & Dallas Removal

1. Assemble the dummy printer, when it does not apply Scanner / Dallas options.



Scanner & Dallas Assembling

- Assemble Scanner & Dallas in reverse order & check if they are installed properly.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

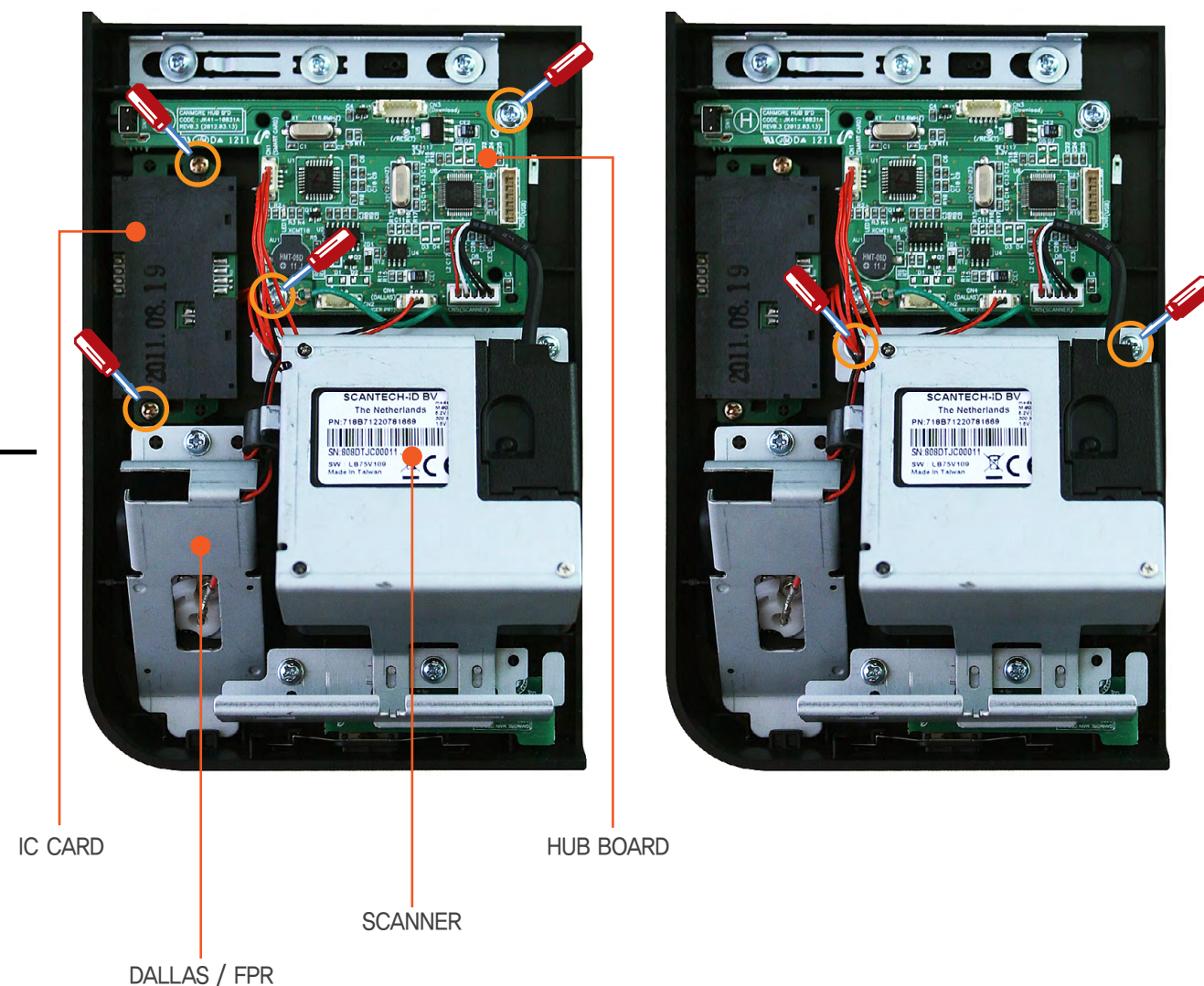
05. Scanner & Dallas Option Removal

HUB board & IC card Removal

1. Remove screws(2) to remove the HUB board
2. Remove screws(2) to remove IC card.

Scanner & Dallas / FPR Removal

1. Remove screws(2) to remove the Scanner.
2. Remove screws(1) to remove the Dallas / FPR.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

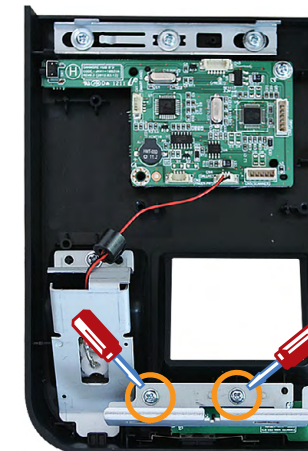
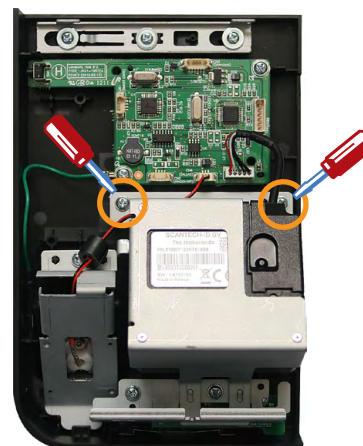
Appendix B
System Structure

System Expansion & Dismantle

05. Scanner & Dallas Option Removal

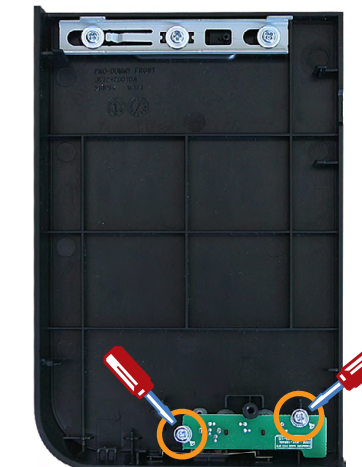
OSD board Removal

1. Unscrew screws(2) & remove the scanner bracket.
2. Unscrew screw(1) & remove the bracket.
3. Unscrew screws(2) & remove the OSD board.



OSD board on the dummy cover Removal

1. Unscrew screws(2) & remove the bracket.
2. Unscrew screws(2) & remove the OSD board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- **SMPS Removal**
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

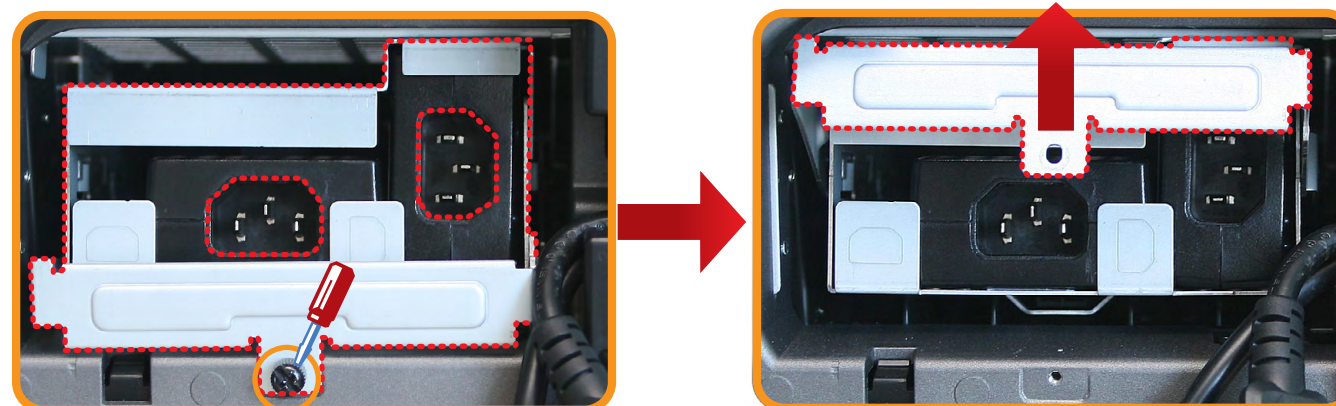
06. SMPS Removal

SMPS Removal

1. Turn off the system.
2. Lay the system down with care to protect the LCD panel.



3. Remove the power cord.
Remove the hand screw & push up the bracket handle to unlock.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

06. SMPS Removal

SMPS Removal

4. Pull the bracket handle towards you to remove the SMPS.



SMPS Assembling

Assemble the SMPS in reverse order & check if it is installed properly.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

07. Mainboard ASSY Removal

Mainboard ASSY Removal

1. Turn off the system.
※ Power & other cables must be removed before dismantling the system.
2. Refer to System Dismantle section to remove Interface & rear cover.

3. Slide the top cover to the left & remove the screw to remove another cover.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

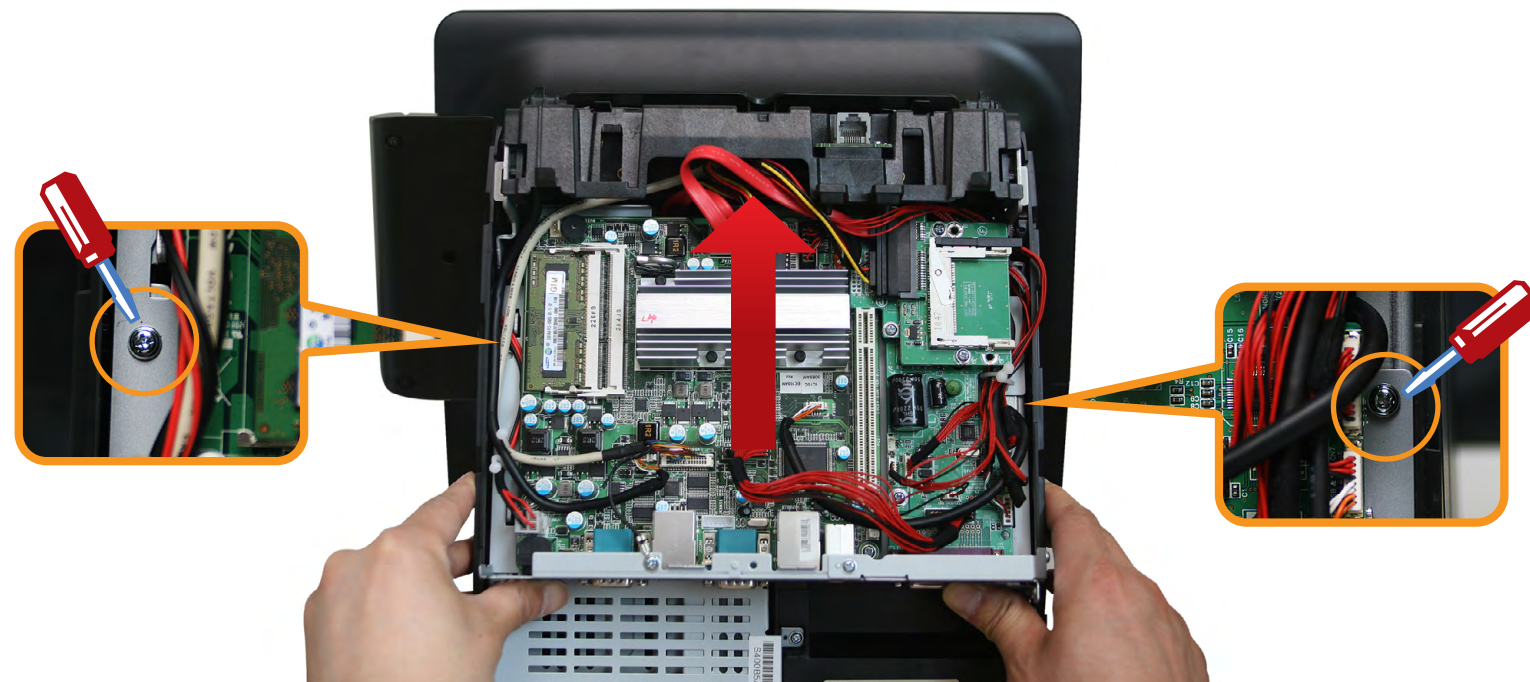
Appendix B
System Structure

System Expansion & Dismantle

07. Mainboard ASSY Removal

Mainboard ASSY Removal

4. Remove harness & unscrew the screws(2) in both sides.
 5. Hold the I / F bracket & push it up to unlock. Then, remove it.
- Note. Handle them with care for harness.



Mainboard ASSY Assembling

Assemble it in reverse order & check if it is installed properly.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

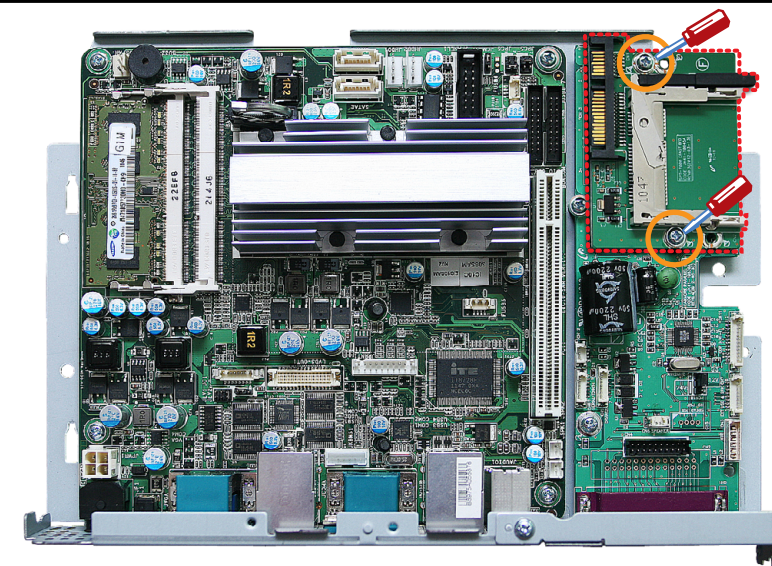
Appendix B
System Structure

System Expansion & Dismantle

08. Various Boards Removal

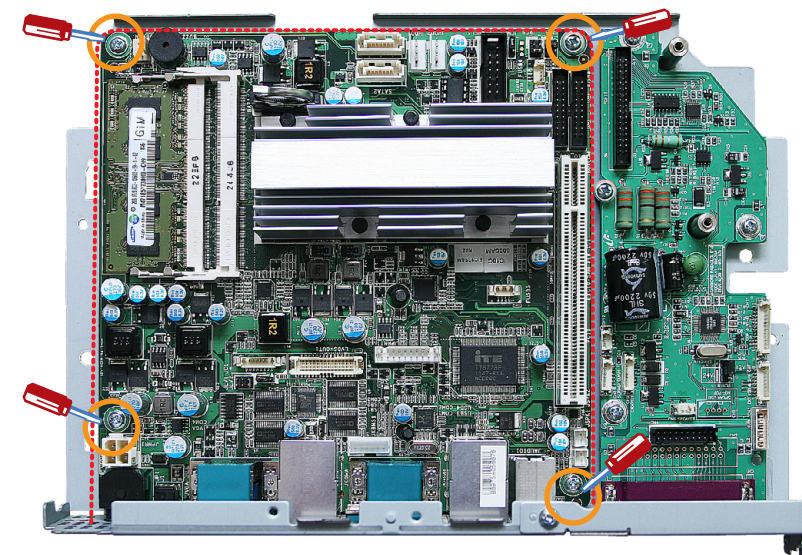
CFAST Board Removal

1. Remove the screws(2) to remove CFAST board.



Main Board Removal

1. Remove 4 screws to remove Main board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

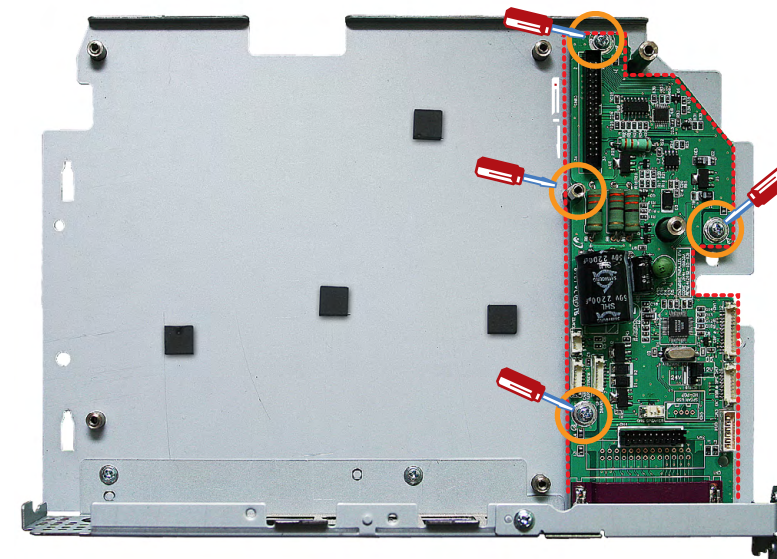
Appendix B
System Structure

System Expansion & Dismantle

08. Various Boards Removal

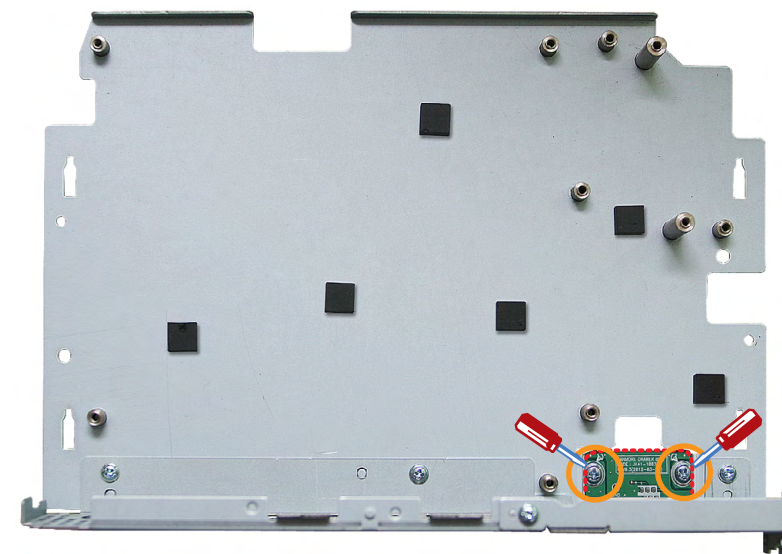
Parallel Board Removal

1. Remove 4 screws to remove Parallel board.



Drawer Board Removal

1. Remove 2 screws to remove the drawer board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
 - Main Memory Removal
 - Remove Display Assembly
 - Remove MSR
 - Remove Display Board
 - Remove Touch Panel & LCD

Appendix A
System Set-Up

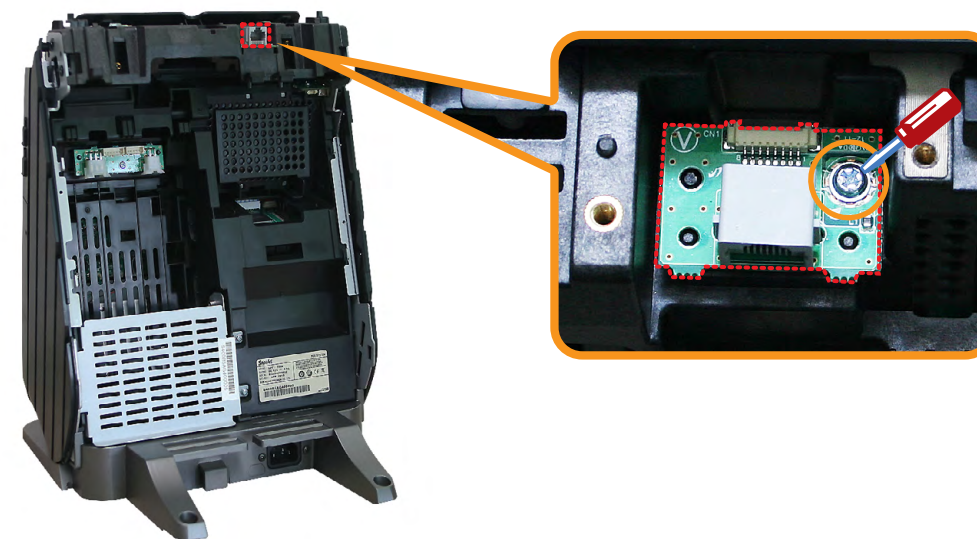
Appendix B
System Structure

System Expansion & Dismantle

08. Various Boards Removal

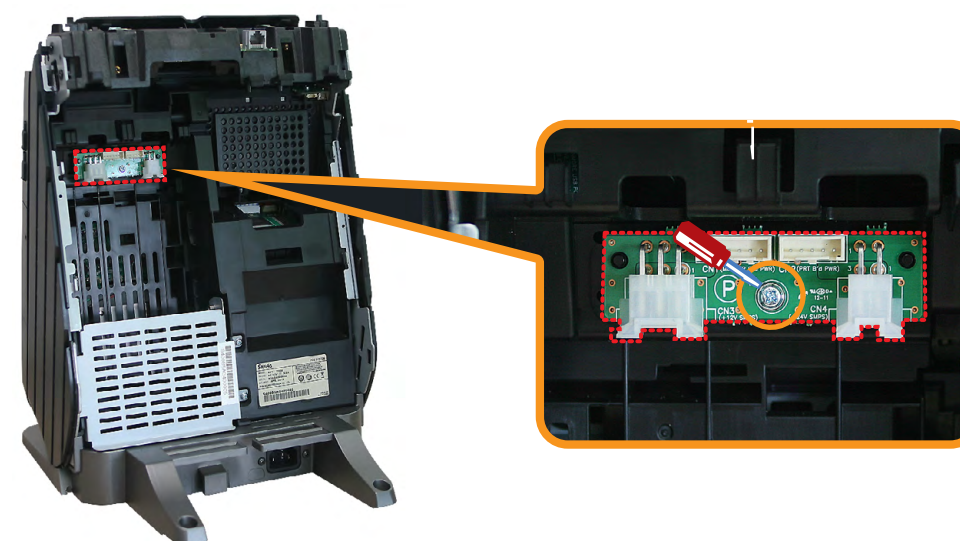
VFD Board Removal

1. Refer to the pictures.
2. Remove a screw to remove VFD board.



Power Board Removal

1. Refer to the pictures.
2. Remove a screw to remove Power board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

08. Various Boards Removal

WIFI Board Removal

1. Remove the front cover like the first picture.
2. Push up the covers in both sides to remove.
3. Remove the screws(6) on the top & the cross assy.
4. Remove a screw to remove the WIFI board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

09. Main Memory Removal

Main Memory Removal

You might need to extend the memory capacity.

You need to check the specification of the main & extended memory when you extend the main memory.

Memory supports max. 4GB according to the board specification.

BIOS will automatically detect memory type, size & speed, when the new one is equipped.

1. Turn off the system.

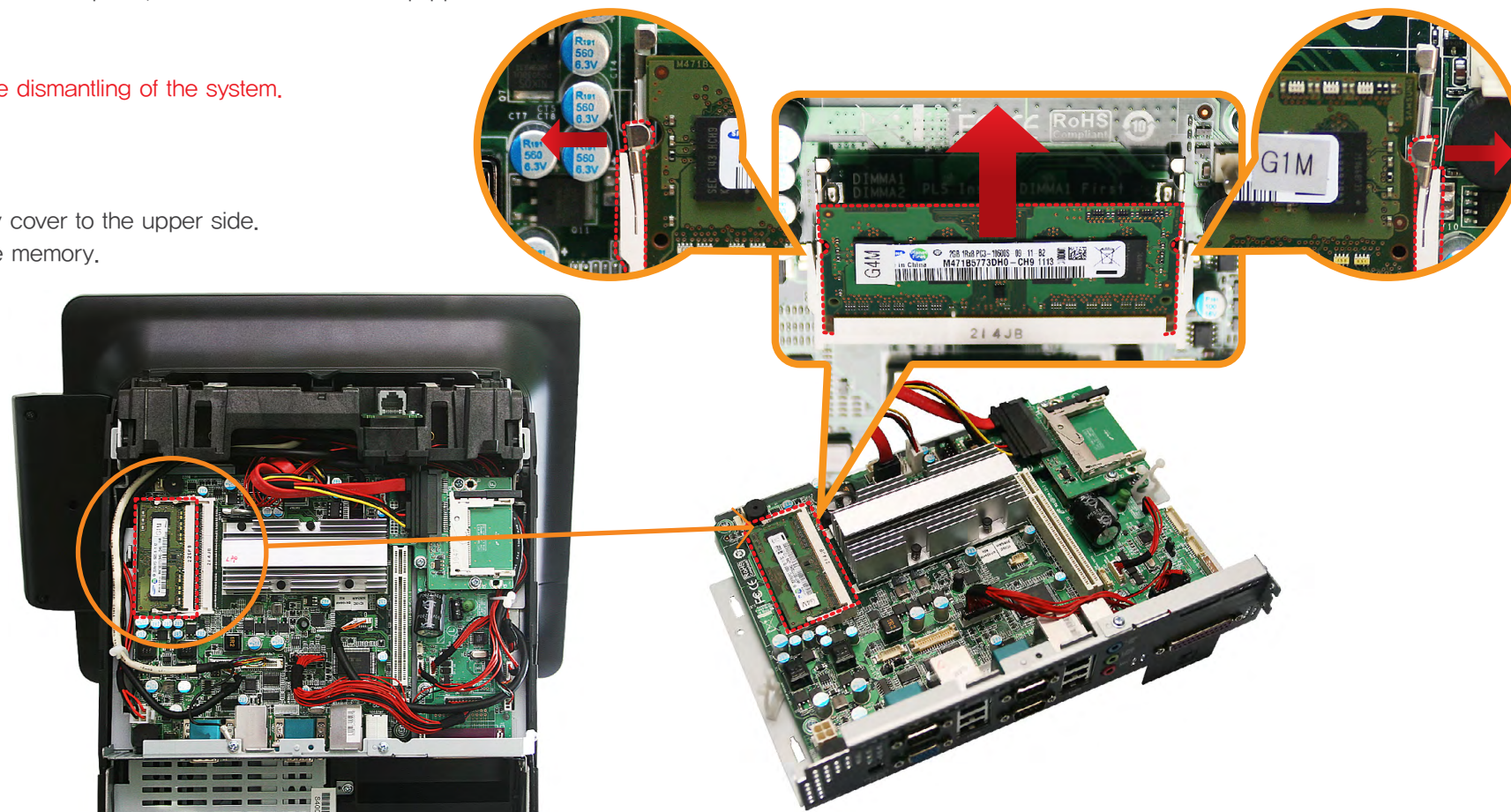
※ All cables must be disconnected before dismantling of the system.

2. Remove I/F & rear covers.

3. Push the top cover to remove.

Then, remove a screw & push the dummy cover to the upper side.

4. Pull the levers in both sides to remove the memory.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

System Dismantling & Assembling
HDD Replacement
Internal Speaker & USB Removal
Receipt Printer & Board Removal
Scanner & Dallas Removal
SMPS Removal
Mainboard ASSY Removal
Various Boards Removal
Main Memory Removal
• Remove Display Removal
Remove MSR
Remove Display Board
Remove Touch Panel & LCD

Appendix A
System Set-Up

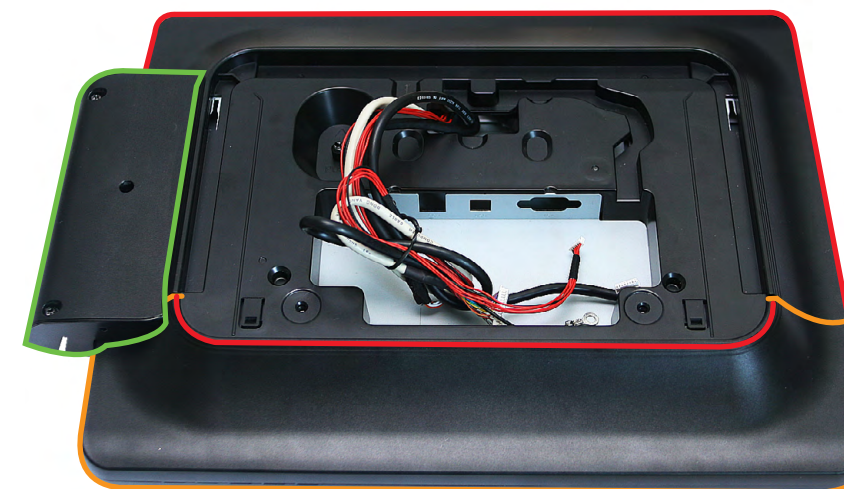
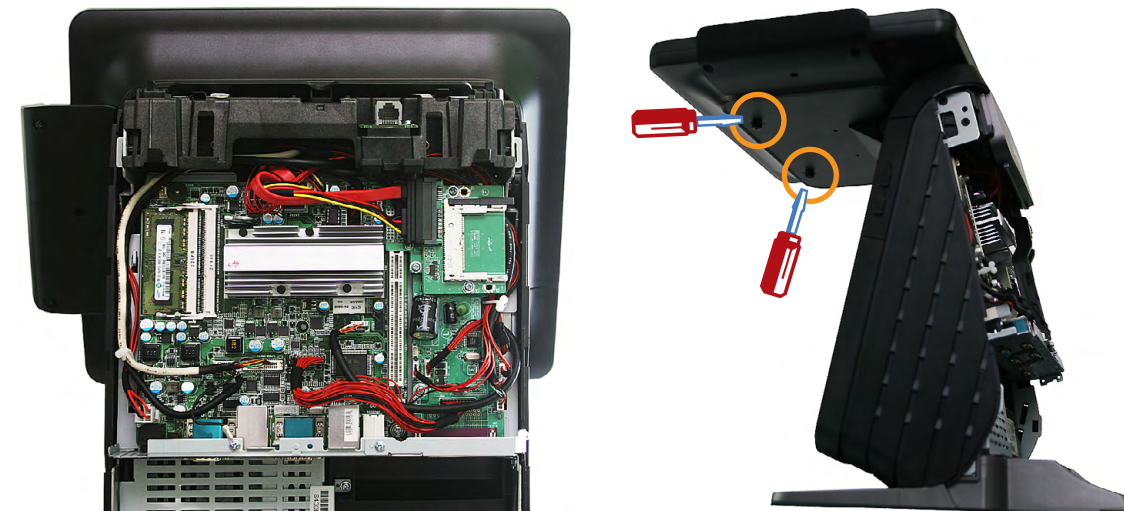
Appendix B
System Structure

System Expansion & Dismantle

10. Remove Display Assembly

Remove Display Assembly

1. Turn off the system.
※ Remove cables for power before disassembly.
2. Dismantle Interface Cover and Rear Cover.
If a Dual Monitor is installed, disconnect cables and remove the Dual Monitor.
Unscrew cable harness and remove it.
3. Remove 4 harness for display.
(TOUCH,MSR,LVDS,INVERTER)
4. Unscrew 2 screws at the back side after lifting display and disassemble.
(Be careful not to cut off harness.)



Assembly of Display

Assemble in retrograde order and check the display is correctly assembled.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

System Expansion & Dismantle

11. Remove MSR

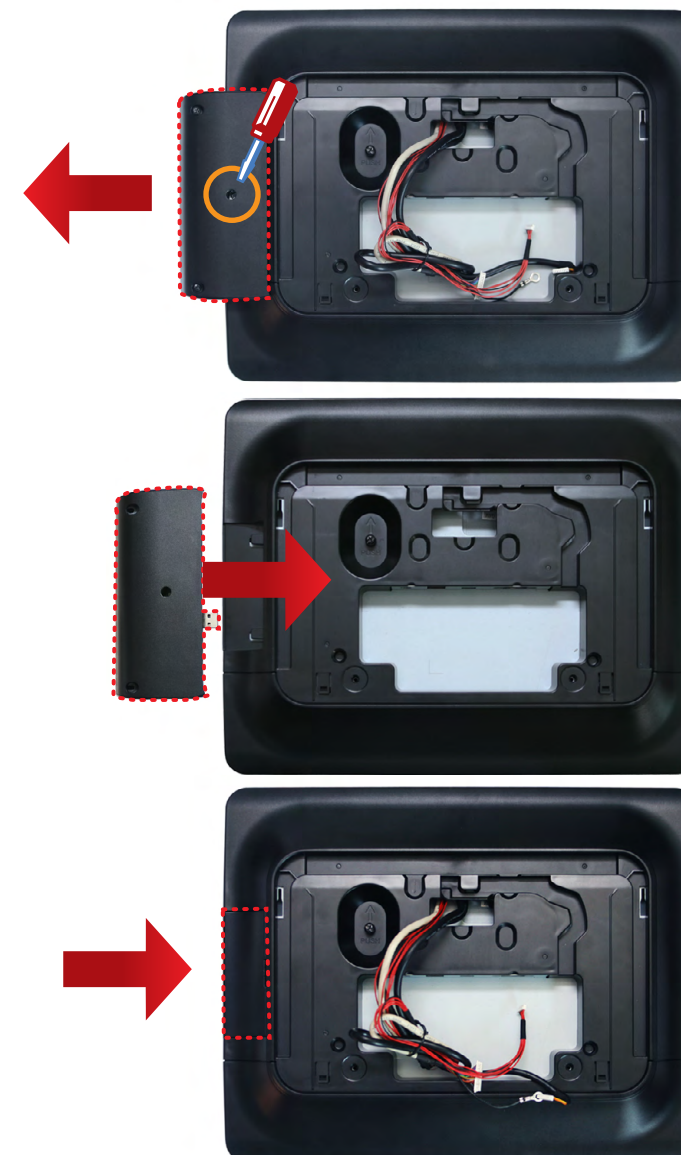
Disassembly of MSR

1. Unscrew a screw. Push to the left and disassemble it.

Assembly of MSR

1. Assemble in reverse order and tighten the screw.

In case not using MSR, push the Dummy Cover to the right to assemble.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

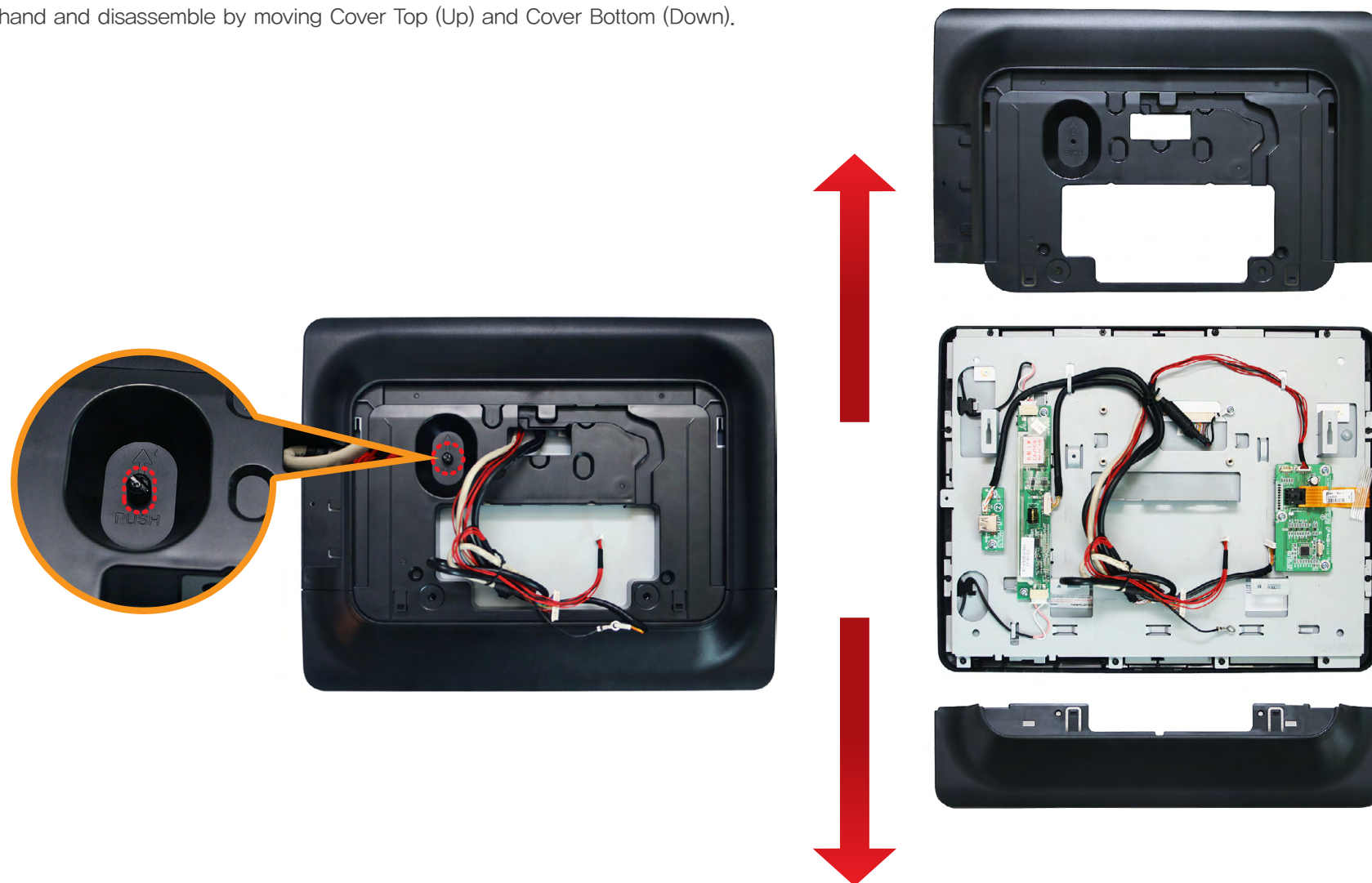
Appendix B
System Structure

System Expansion & Dismantle

12. Remove Display Board

Remove Display Board (Inverter, MSR, Touch)

1. Unscrew a screw by hand and disassemble by moving Cover Top (Up) and Cover Bottom (Down).



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

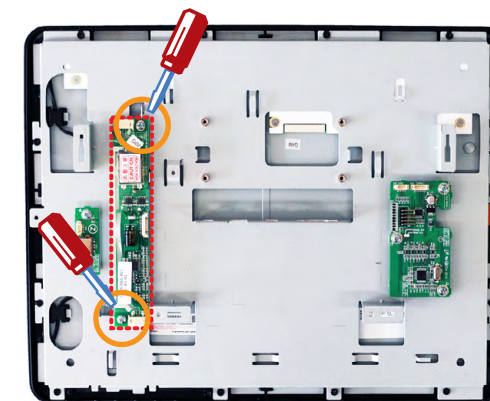
Appendix B
System Structure

System Expansion & Dismantle

12. Remove Display Board

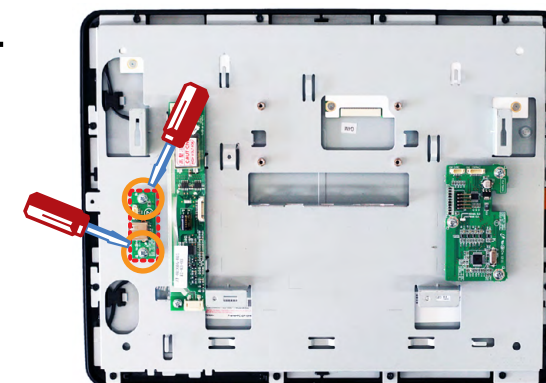
Remove Inverter

1. Remove all the connected harness.
2. Unscrew 2 screws and disconnect Inverter.



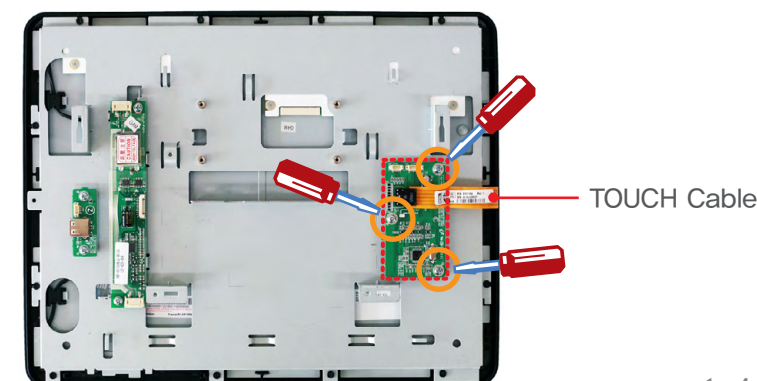
Remove MSR Board

1. Remove all the connected harness.
2. Unscrew 2 screws and disconnect MSR Board.



Remove Touch Board

1. Remove all the connected harness.
Handle the Touch Cable very carefully.
2. Unscrew 3 screws and disconnect Touch Board.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion & Dismantle ▼

- System Dismantling & Assembling
- HDD Replacement
- Internal Speaker & USB Removal
- Receipt Printer & Board Removal
- Scanner & Dallas Removal
- SMPS Removal
- Mainboard ASSY Removal
- Various Boards Removal
- Main Memory Removal
- Remove Display Assembly
- Remove MSR
- Remove Display Board
- Remove Touch Panel & LCD

Appendix A
System Set-Up

Appendix B
System Structure

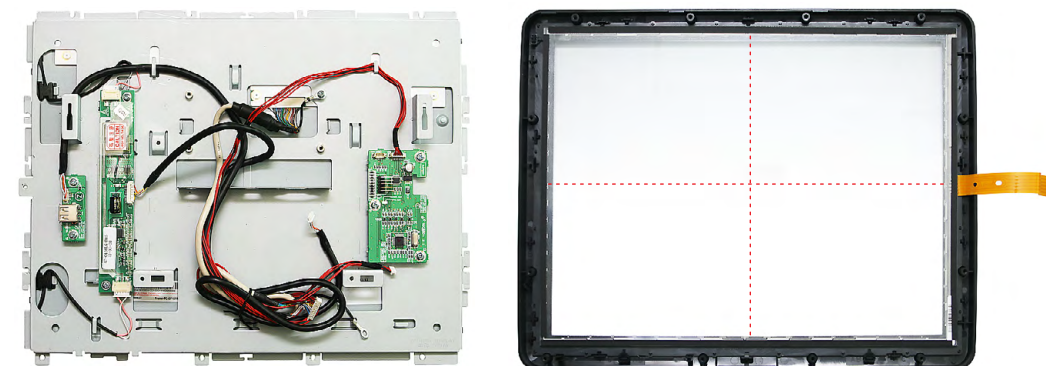
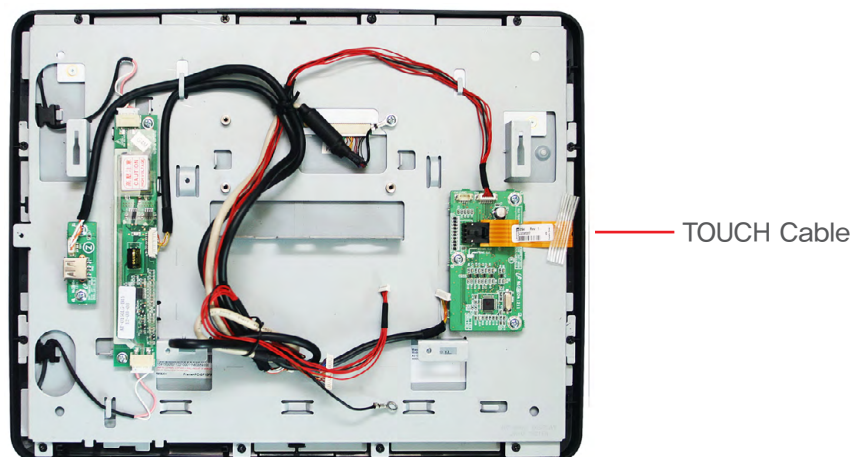
System Expansion & Dismantle

13. Remove Touch Panel & LCD

Remove Touch Panel & LCD

Caution! | ▶ It may happen defectives while disconnecting LCD and Touch Panel due to dust or mishandling.

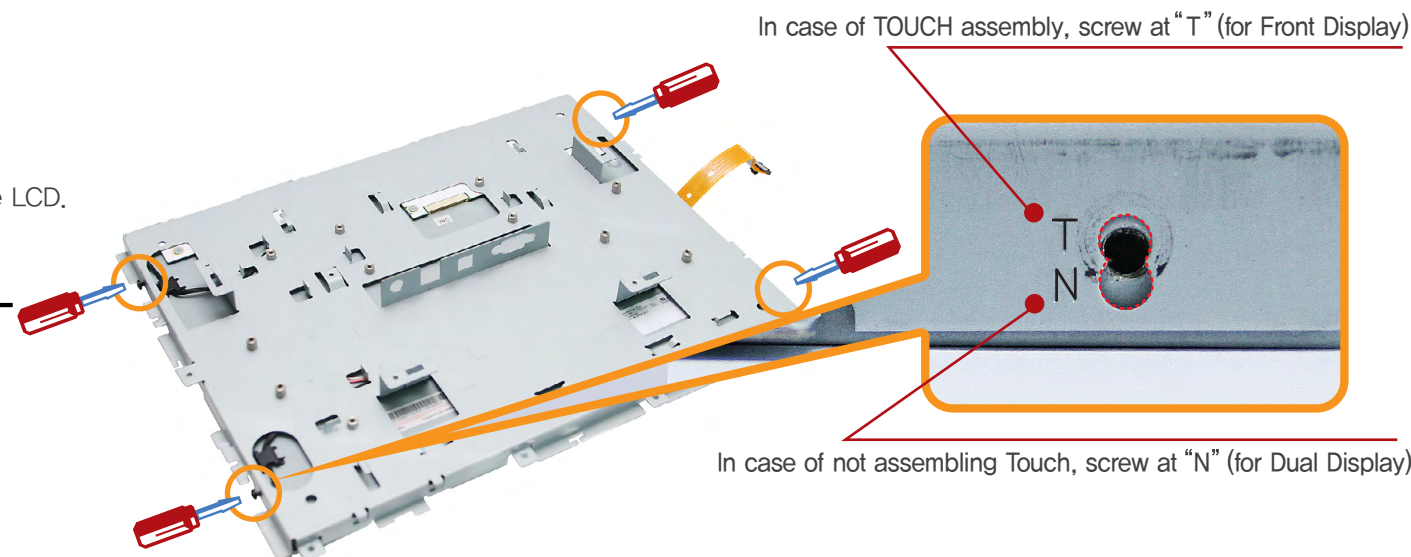
1. Remove Touch Cable with care.
2. Unscrew 12 screws and disassemble the Bracket.



3. Unscrew 4 screws from disassembled Bracket Assembly and Remove LCD.

Assembly of Touch Panel and LCD

Assemble them in reverse order and check the position of Bracket and LCD.



SPT-7000

Introduction

▸

System Installation

▸

System Use

▸

System Expansion
& Dismantle

Appendix A
System Set-Up



- System Set-up Preview
 - Main Menu
 - Advanced Menu
 - Chipset Menu
 - Boot Menu
 - Security Menu
 - Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

01. BIOS Set-up Preview

Set-up means that the system configuration information is memorized on ‘BIOS’.
The set-up data is saved in a special area of memory called CMOS ROM.

BIOS (Basic Input and Output System) Set-up is menu-oriented software utility which enables a user to configure the system’s environmental set-up, hardware installed to the system, power saving function and so on. BIOS Set-up values can seriously affect on how the system works. Therefore, users should figure out all the options regarding BIOS Set-up and it is very important to set up the system according to user’s working environment.

Entering the Setup

- Turn on the system and the system will show ‘Press to enter SETUP’ message.
When this message show up, press or <Delete> key to enter SETUP screen.

Cases of BIOS Setup

- When checking HDD type and capacity after HDD replacement
- When changing booting sequence
- When reflecting user’s need on the setup
- When setting or changing a password

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

- System Set-up Preview
 - Main Menu
 - Advanced Menu
 - Chipset Menu
 - Boot Menu
 - Security Menu
 - Save & Exit Menu

Appendix B
System Structure

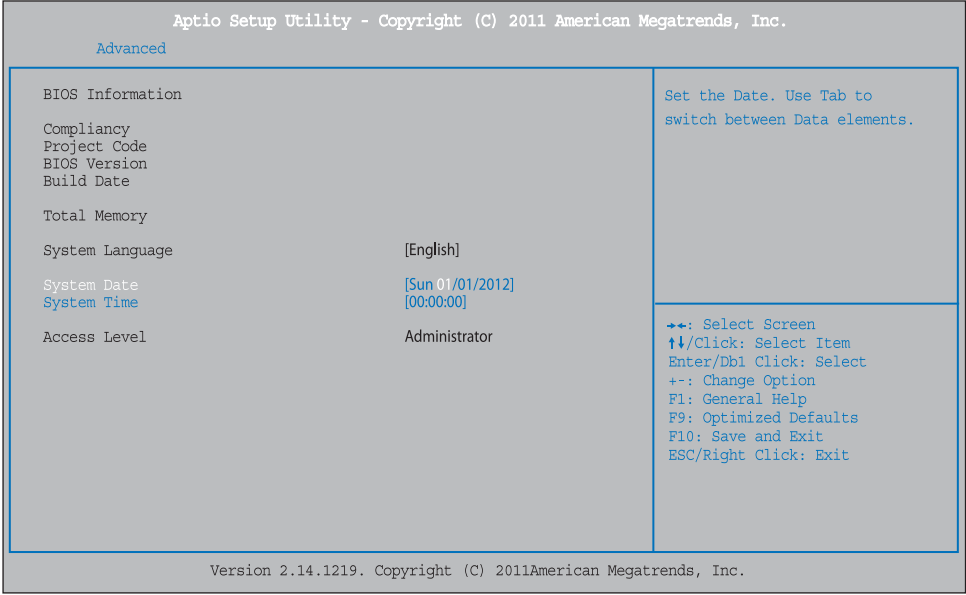
BIOS Set-up

01. System Set-up Preview

Set-up means that the system configuration information is memorized on ‘BIOS’.
The set-up data is saved in a special area of memory called CMOS ROM.

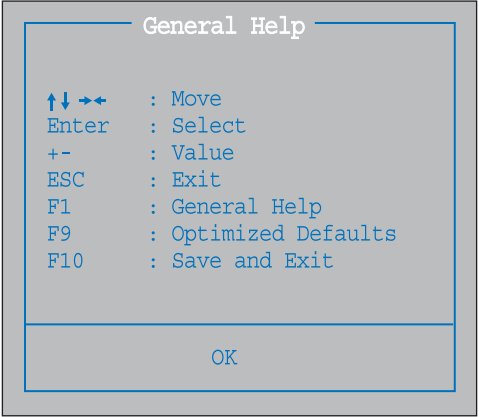
Initial Setup Screen

- Initial Setup Screen has such menus Main, Advanced, Chipset, Boot, Security, Save & Exit.



Using Keys on Setup Screen

- Press ‘F1’ key to see simple explanations on key functions.



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up ▼

- System Set-up Preview
 - Main Menu
 - Advanced Menu
 - Chipset Menu
 - Boot Menu
 - Security Menu
 - Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

01. System Set-up Preview

Set-up means that the system configuration information is memorized on ‘BIOS’.
The set-up data is saved in a special area of memory called CMOS ROM.

- →← : Move
Move the cursor to select a screen.
- ↑ ↓ : Move
Move the cursor to select a menu or option tab. The color of selected menu will be changed to White.
- Enter : Select
Some of menus include sub-menus. You can select sub-menu by clicking <Enter> key.
- +- : Value
Use them for setting value.
- ESC : Exit
Exit setup program without saving changes.
- F1 : General Help
Shows a list of keys used in System Setup.
- F9 : Load Optimal Defaults
Load default configuration values which the mainboard manufacturer set up.
- F10 : Save and Exit
Save changed values and exit setup program.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

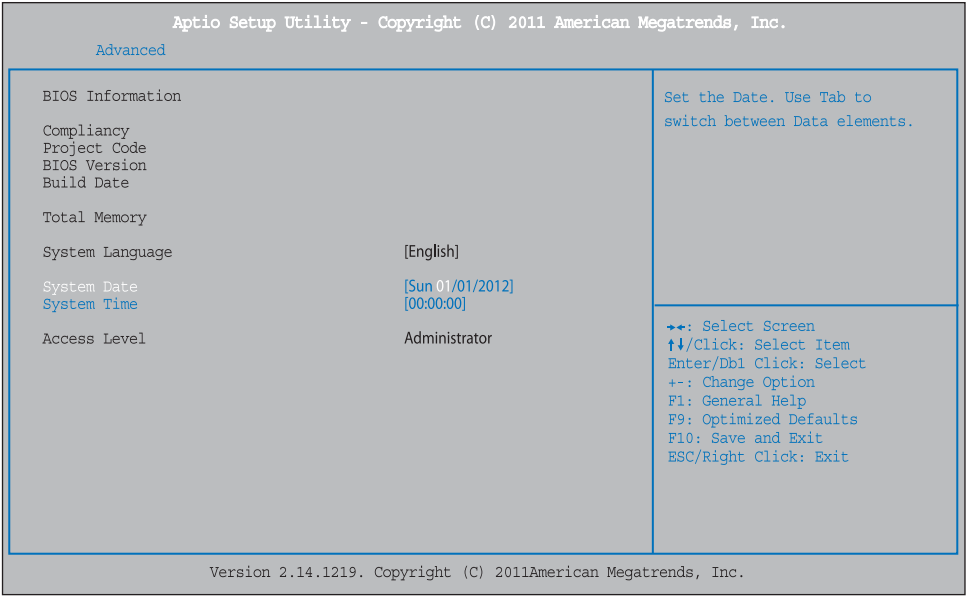
- System Set-up Preview
- Main Menu
 - Advanced Menu
 - Chipset Menu
 - Boot Menu
 - Security Menu
 - Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

02. Main Menu

Use this menu for basic system setup such as time, date and etc. and system information.



System Date

If needed, set up the date on ‘System Date’.
The date format is <Month> <Day> <Year> in order. Move to the item with <Tab> or <Enter> key and change it with <+>, <Space> or <-> key.

System Time

If needed, set up the time on ‘System Time’.
The time format is <Hour> <Minute> <Second> in order. Move to the item with <Tab> or <Enter> key and change it with <+>, <Space> or <-> key.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

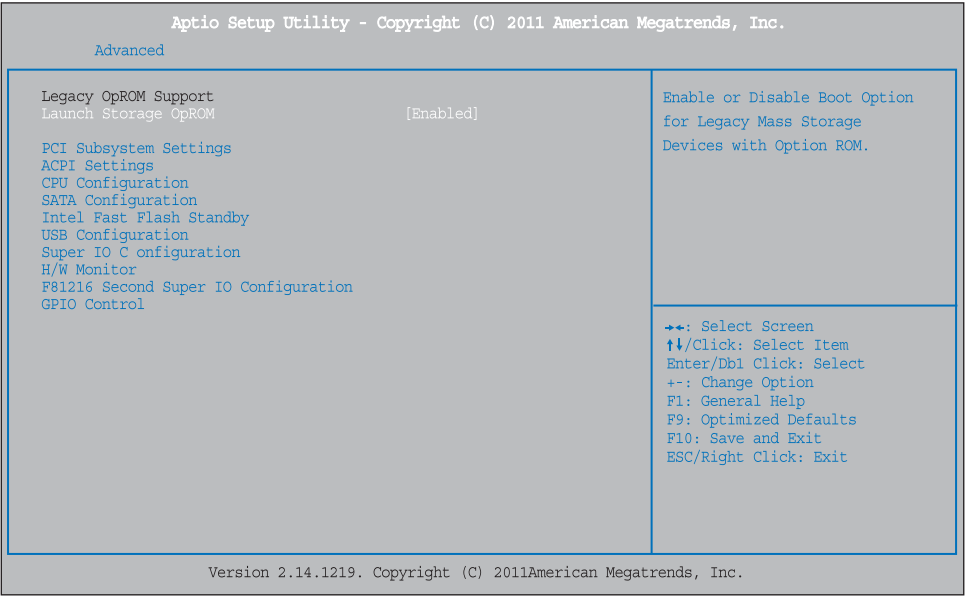
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Launch Storage OpROM

This item allows you to enable or disable Boot Option for Legacy Mass Storage Devices with Option ROM.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

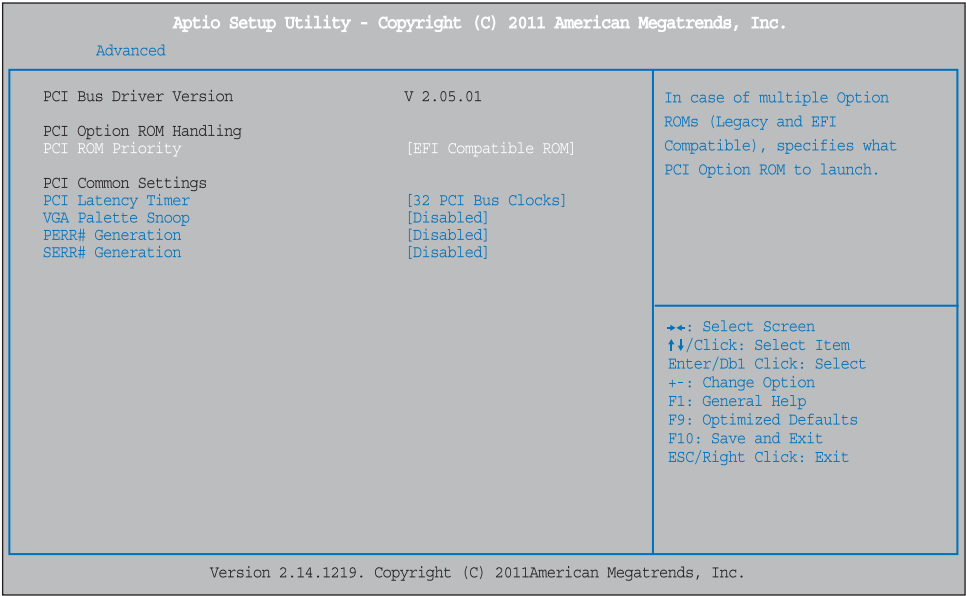
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced › PCI Subsystem Settings

- PCI ROM Priority

In case of multiple option ROMs (Legacy and EFI Compatible), this item specifies what PCI Option ROM to launch.
- PCI Latency Timer

This item sets the value to be programmed into PCI Latency Timer Register.
- VGA Palette Snoop

This item enables or disables VGA Palette Registers Snooping.
- PERR# Generation

This item enables or disables PCI Device to generate PERR#.
- SERR# Generation

This item enables or disables PCI Device to generate SERR#.

SPT-7000

- Introduction ▶
- System Installation ▶
- System Use ▶
- System Expansion & Dismantle

Appendix A
System Set-Up

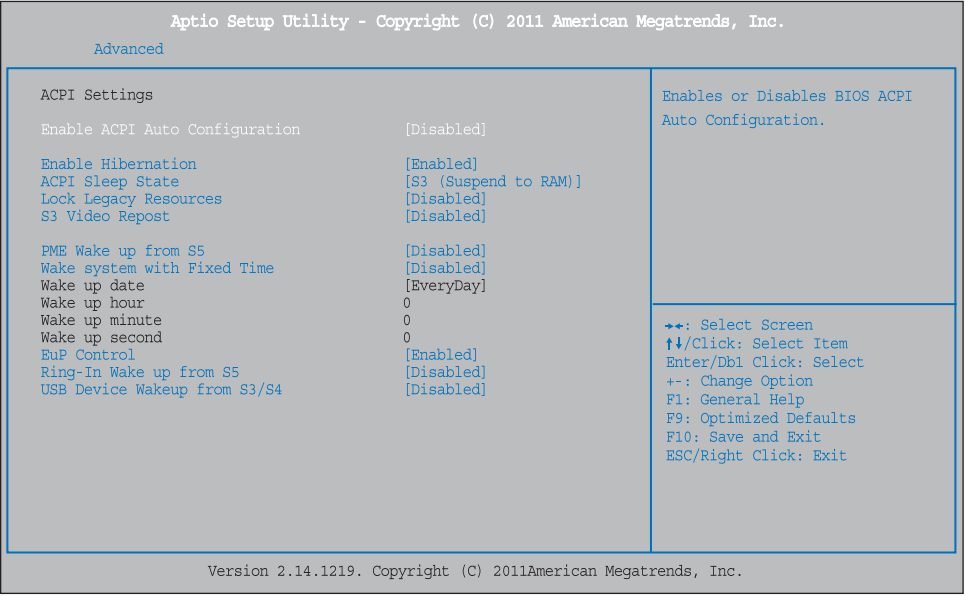
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced > ACPI Settings

- Enable ACPI Auto Configuration

The item enables or disables BIOS ACPI Auto Configuration.
- Enable Hibernation

The item enables or disables System ability to hibernate (OS/S4 Sleep State). This option may be not effective with some OS.
- ACPI Sleep State

This item selects the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.
- Lock Legacy Resources

This item enables or disables Lock of Legacy.
- S3 Video Repost

The item enables or disables S3 Video repost.
- PME Wake up from S5

The item enables the system to wake from S5 using PME event.
- Wake system with Fixed Time

This item enables or disables the system to wake on by alarm event. When this item is enabled, the system will wake on the hr::min::sec specified.
- Wake up date / Wake up hour / Wake up minute / Wake up second

Sets up specific time and date that the system will wake up.
- EuP Control

When EuP is enabled, the system will meet EuP requirement.
- Ring-In Wake up from S5

This item enables the system to wake from S5 using Ring-In event.
- USB Device Wake up from S3/S4

This item enables the system to wake from S3/S4 using USB device.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

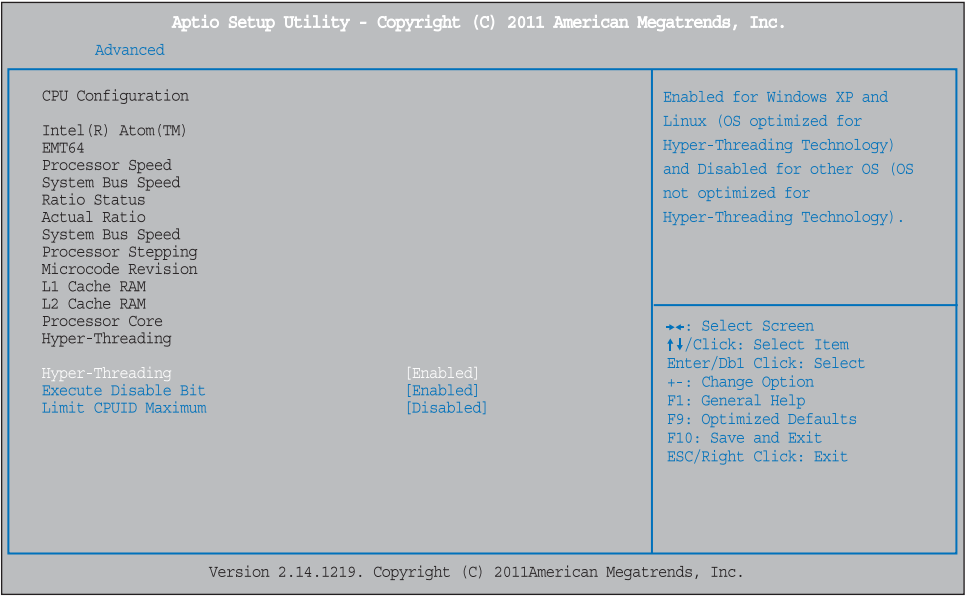
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced > CPU Configuration

- Hyper Threading Technology

Enabled for Windows XP and Linux (OS optimized for Hyper Threading Technology) and disabled for other OS (OS not optimized for Hyper Threading Technology).
- Execute Disable Bit

This item allows you to configure the Execute Disabled Bit function, which protects your system from buffer overflow attacks.
- Limit CPUID Maximum

When the computer is booted up, the operating system executes the CPUID instruction to identify the processor and its capabilities. Before it can do so, it must first query the processor to find out the highest input value CPUID recognizes. This determines the kind of basic information CPUID can provide the operating system.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

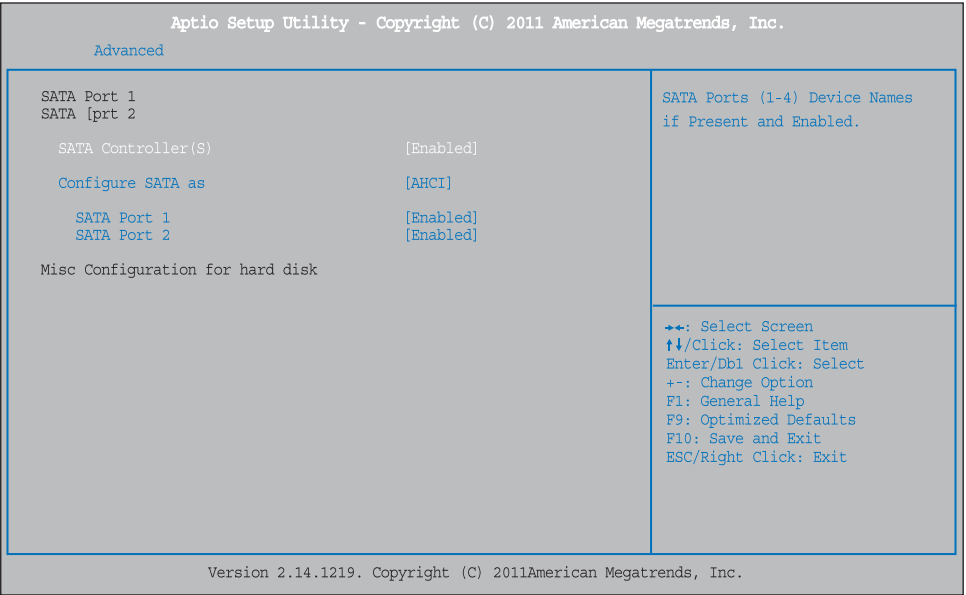
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced › SATA Configuration

- SATA Controller(s)

This item enables/disables Serial ATA Controller (s).
- Configure SATA as

This item selects a configuration for SATA controller.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

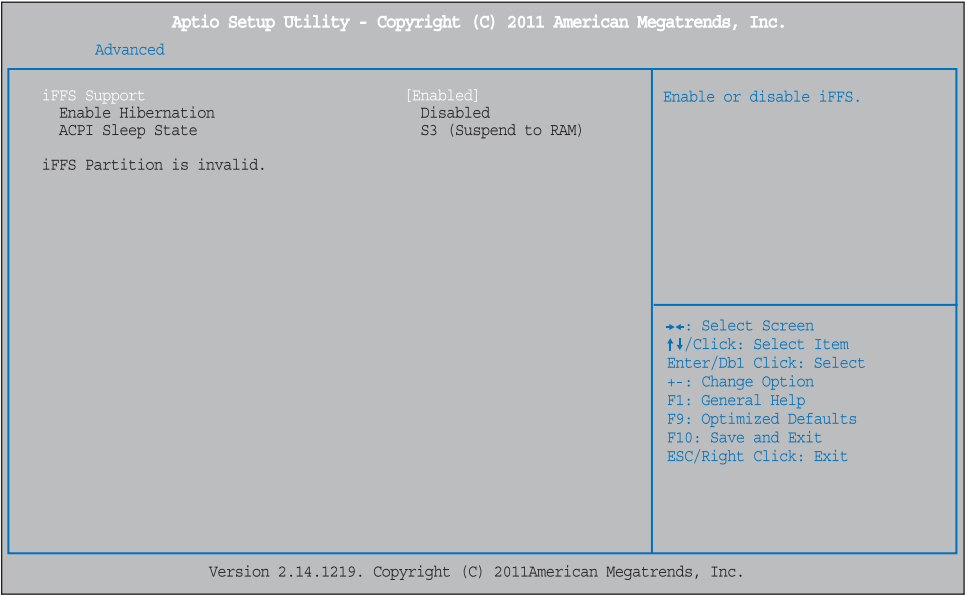
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced › Intel Fast Flash Standby

- iFFS Support

This item enables or disables iFFS.
- Entry on S3 RTC Wake

iFFS invocation upon S3 RTC.
- Entry After

Enable RTC wake timer as S3 entry.
- Entry on S3 Critical Battery Wake

iFFS invocation upon critical battery wake.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

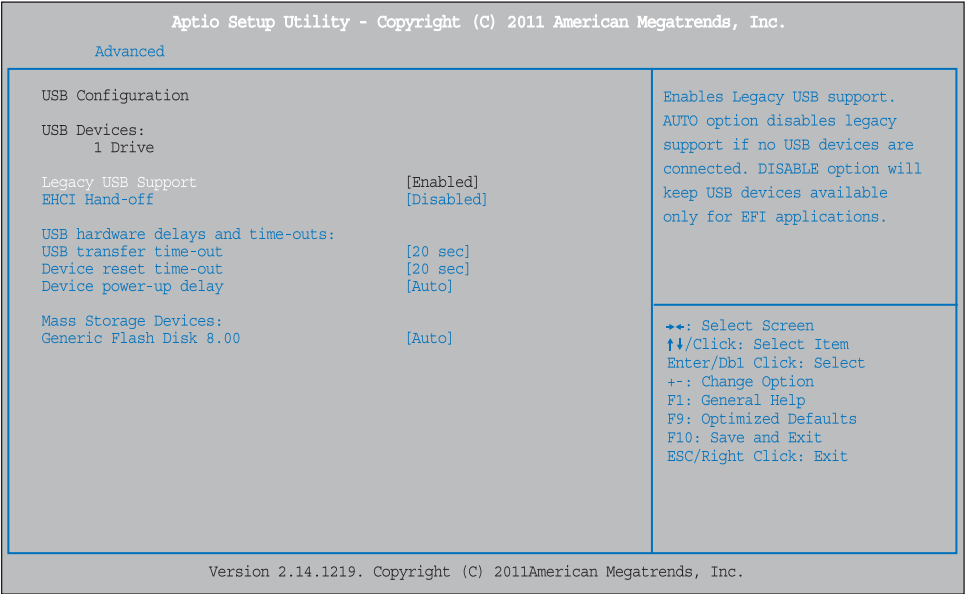
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced › USB Configuration

- Legacy USB Support

This item determines if the BIOS should provide legacy support for USB devices like the keyboard, mouse, and USB drive. This is a useful feature when using such USB devices with operating systems that do not natively support USB (e.g. Microsoft DOS or Windows NT).
- EHCI Hand-Off

This is a workaround for OSeS without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.
- USB transfer time-out

The time-out value is for Control, Bulk, and Interrupt transfers.
- Device reset time-out

This is the USB mass storage device Start Unit command time-out.
- Device power-up delay

This is maximum time for the device to take before it properly reports itself to the Host Controller.

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

Appendix A

System Set-Up

- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

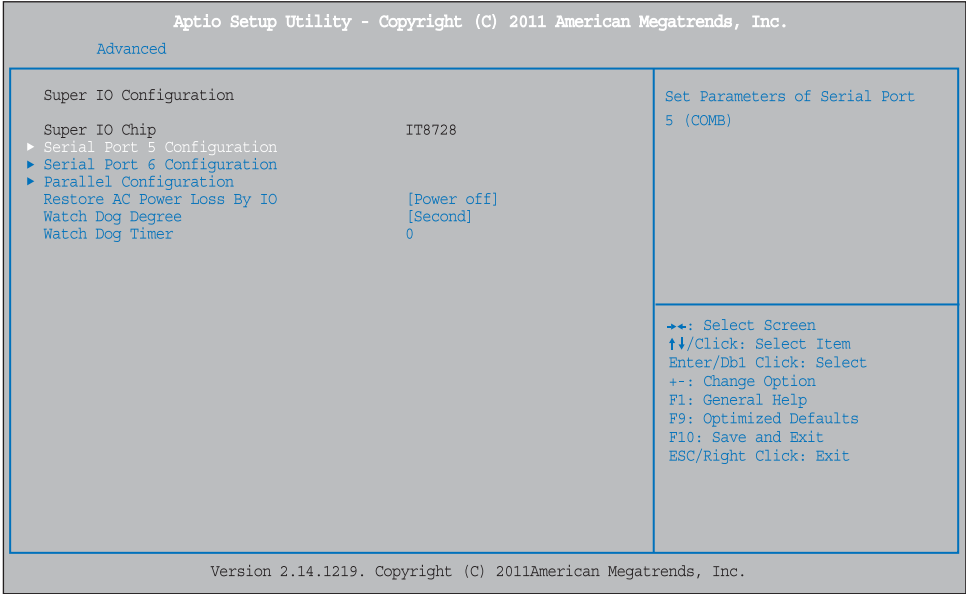
Appendix B

System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced › Super IO Configuration

- Serial Port 5/6 Configuration

Decides to use Serial Port 5/6 and sets up IRQ and IO Address.
- Parallel Port Configuration

Decides to use Parallel Port and sets up IRQ, IO Address, Device Mode, etc.
- Restore AC Power Loss by IO

This setting specifies how your system should behave after a power fail or interrupts occurs.

– Power Off: Leaving the system in power-off status after power recovers.

– Power ON: Powering on the system immediately when power returns.

– Last State: 1. Leaving the system in power-off if the system shuts down at DC off status;

2. Powering on the system immediately if the system shuts down at DC on status.

Watch Dog Degree

This item allows you to determine the functional degree of Watch Dog.

Watch Dog Timer

Sets up the time of Watch Dog Timer function.
- ◀ A – 12 ▶

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

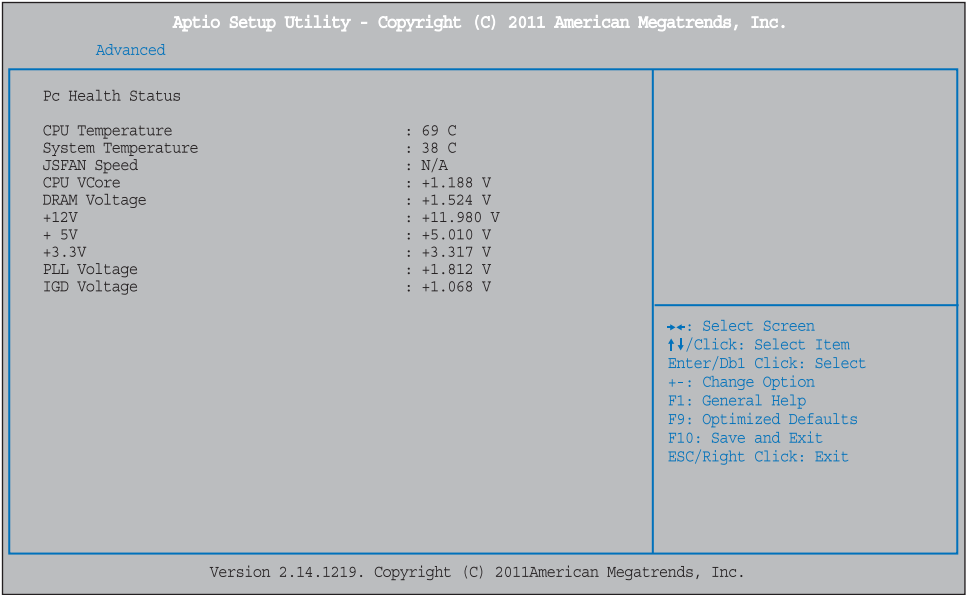
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced > H/W Monitor

- CPU Temperature

Shows current temperature of CPU.
- System Temperature

Shows current temperature of System.
- CPU VCore

Shows current voltage of CPU.
- DRAM Voltage

Shows current voltage of DRAM.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

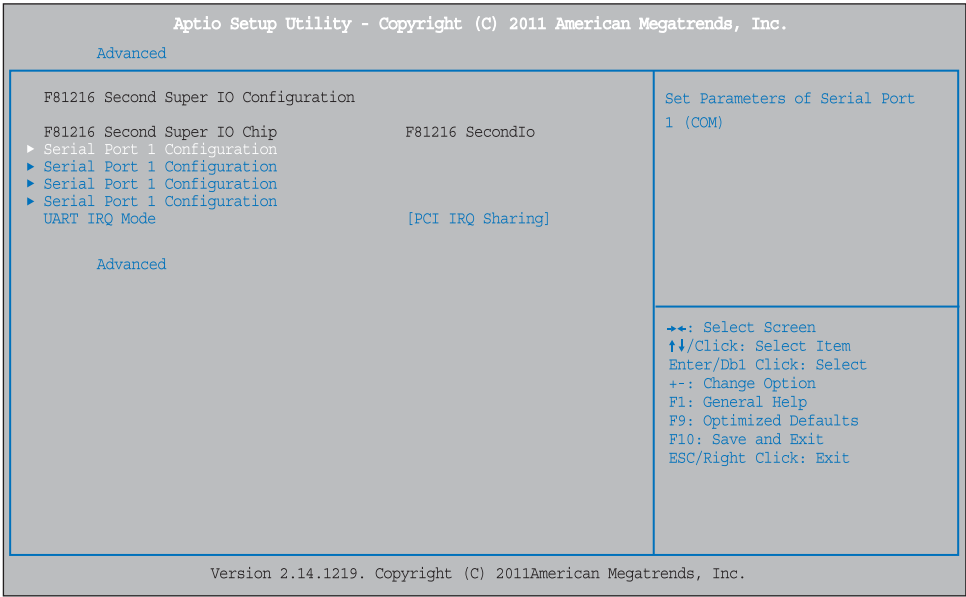
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced › F81216 Second Super IO Configuration

- Serial Port 1/2/3/4 Congifuration

Decides to use Serial Port 1/2/3/4 and sets up IRQ and IO Address.
- UART IRQ Mode

This item allows you to select PCI IRQ Sharing for QS(Ex. Windows) and ISA IRQ for DOS.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up ▼

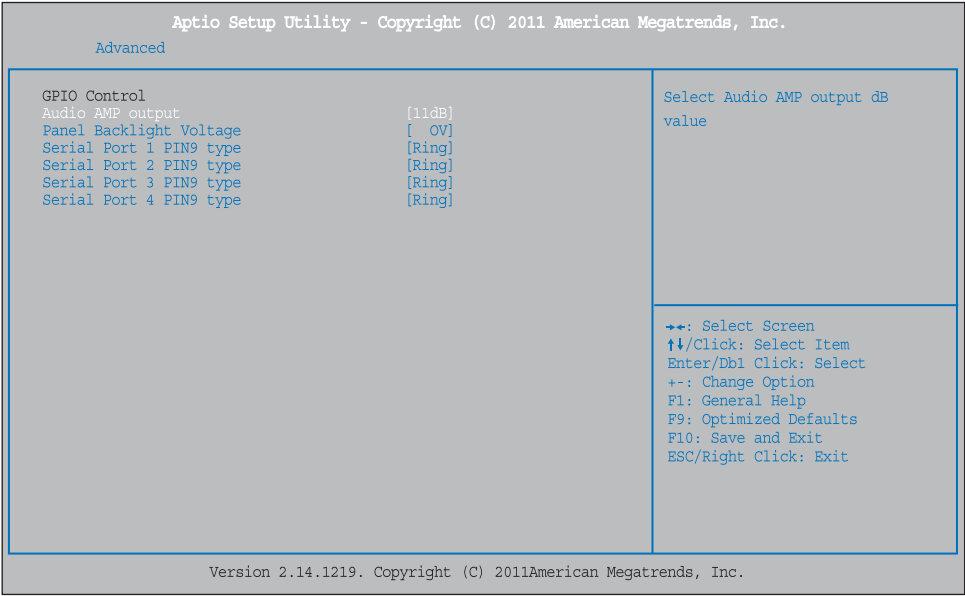
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

03. Advanced Menu

Use this menu for basic system setup such as time, date and etc. and system information.



Advanced › GPIO Control

- Audio AMP output

This item allows you to select Audio AMP output dB value.
- Panel Backlight Voltage

This item allows you to select Panel Backlight voltage.
- Serial Port 1/2/4 PIN9 type

This item allows you to select Serial port pin 9 type is Ring, Vcc 5V, Vcc 12V.
- Serial Port 3 PIN2 type

This item allows you to select Serial port pin 2 type is Ring, Vcc 5V, Vcc 12V.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

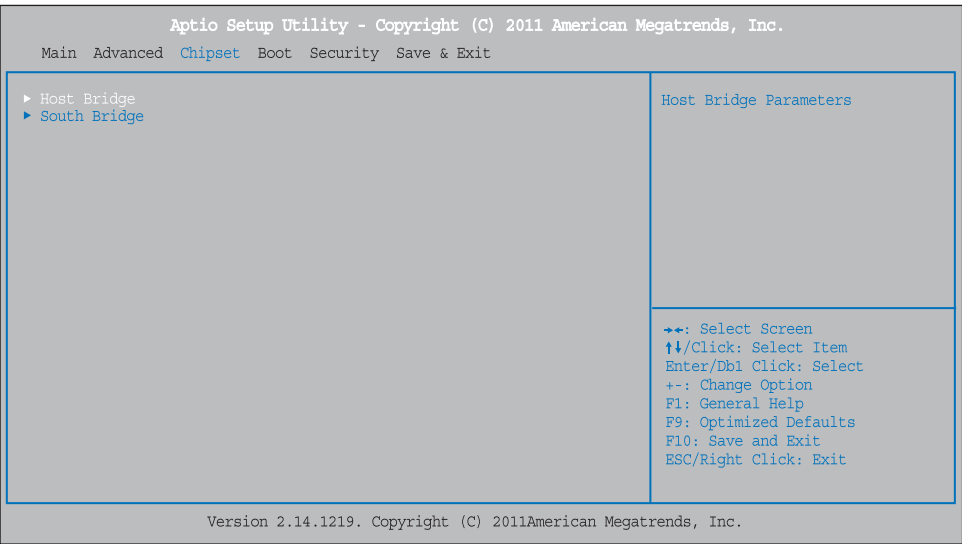
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

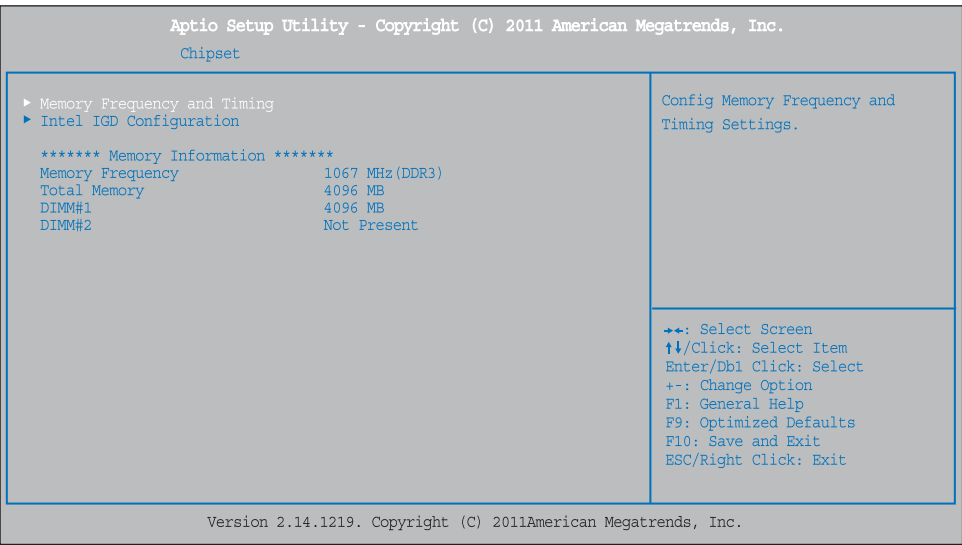
BIOS Set-up

04. Chipset Menus

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.



Chipset › Host Bridge



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

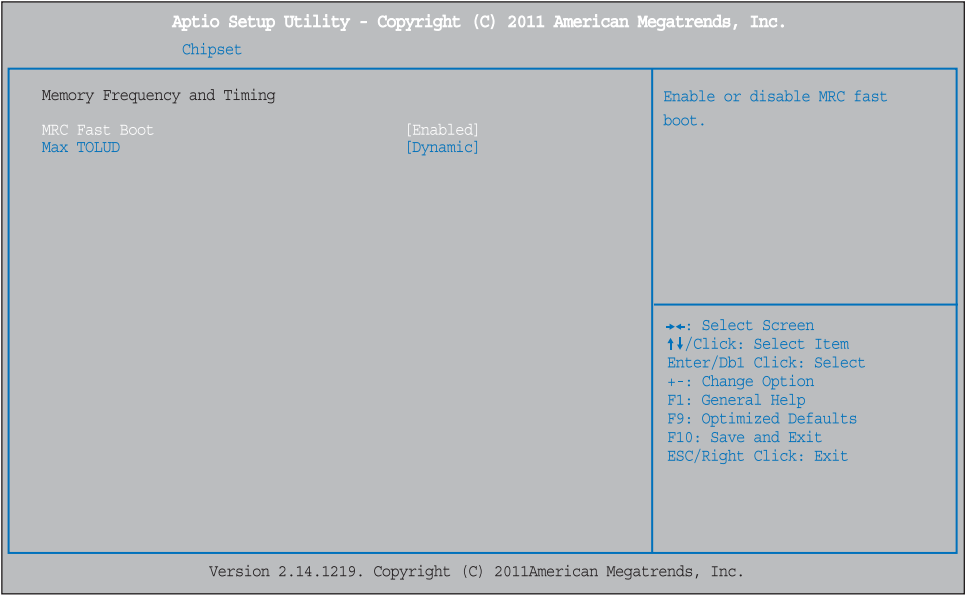
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

04. Chipset Menus

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.



Chipset › Host Bridge › Memory Frequency and Timing

- MRC Fast Boot

This item enables or disables MRC fast boot.
- Max TOLUD

This item sets maximum value of TOLUD. Dynamic assignment would adjust TOLUD automatically based on largest MMIO length of installed graphic controller.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

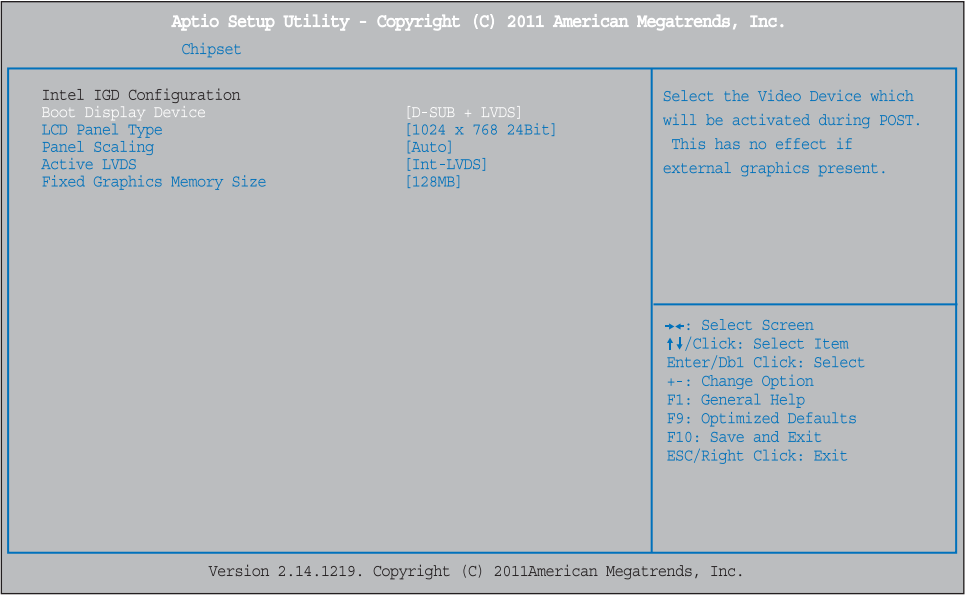
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

04. Chipset Menus

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.



Chipset › Host Bridge › Intel IGD Configuration

- Boot Display Device

This item selects the video device which will be activated during POST. This has no effect if external graphics present.
- LCD Panel Type

This item selects the LCD panel used by Internal Graphics Device by selecting the appropriate setup item.
- Panel Scaling

This item selects the LCD panel scaling option used by the Internal Graphics Device.
- Active LVDS

This item selects the Active LVDS Configuration.
- Fixed Graphics Memory Size

This item configures the Fixed Graphics Memory Size.

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

Appendix A
System Set-Up

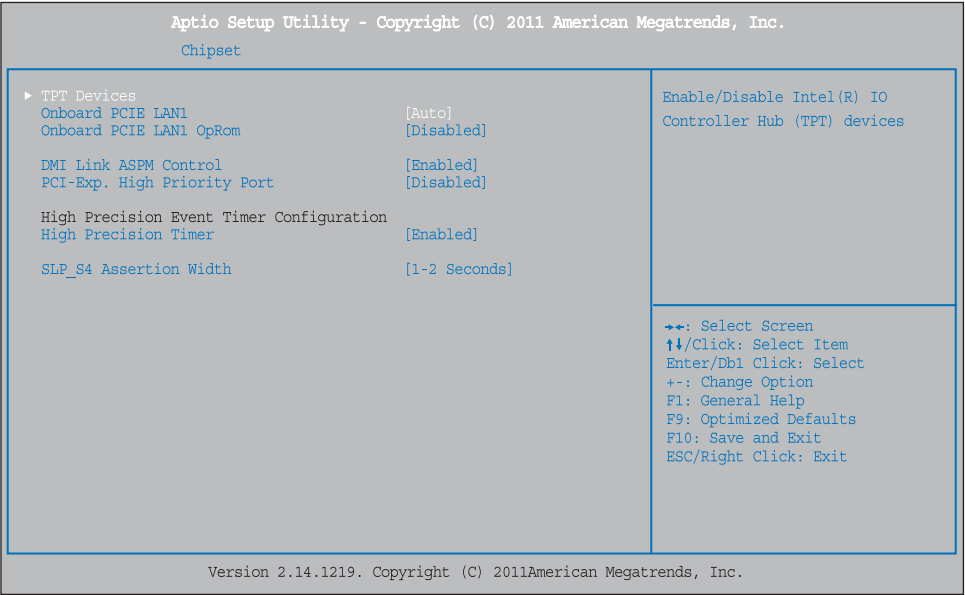
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

04. Chipset Menus

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.



Chipset › South Bridge

- Onboard PCIE LAN1

This item enables or disables Onboard PCIE LAN1.
- Onboard PCIE LAN1 OpROM

This item enables or disables the Boot Option for Legacy Network Devices.
- DMI Link ASPM Control

This item enables or disables the control of Active State Power Management on both NB and SB sides of the DMI Link.
- PCI-Exp. High Priority Port

This item selects a PCI Express High Priority Port.
- High Precision Timer

This item enables or disables the High Precision Event Timer.
- SLP_S4 Assertion Width

This item selects a minimum assertion width of the SLP_S4# signal.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

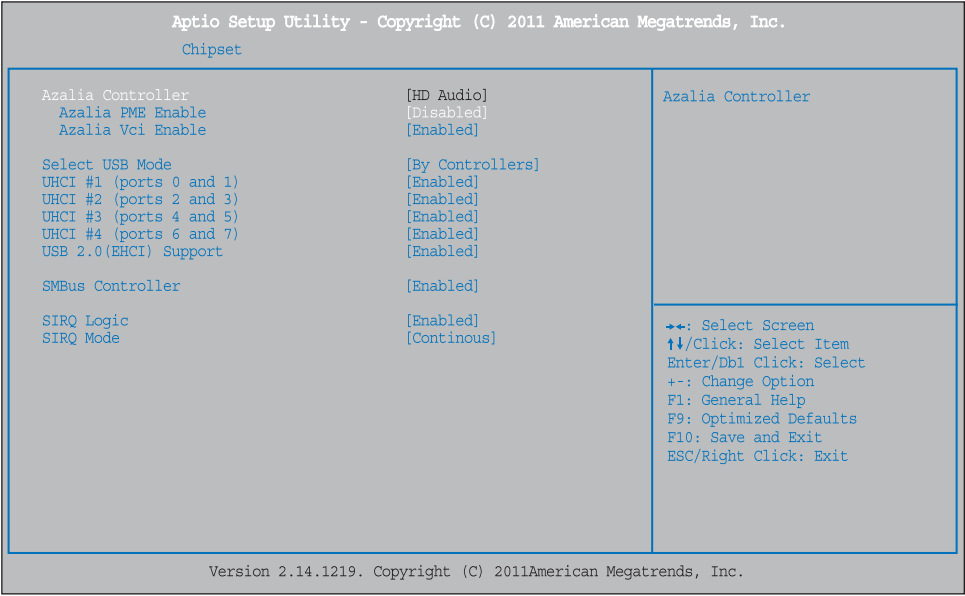
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

04. Chipset Menus

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.



Chipset › South Bridge › TPT Device

- Azalia Controller

You can use this item to select the Azalia Controller.
- Azalia PME Enable

You can use this item to enable or disable Power Management capability of Audio Controller.
- Azalia Vci Enable

Azalia supports 1 extended VC, which will override ICH VCp settings when enabled.
- Select USB Mode

This item selects USB mode to control USB ports.
- UHCI#1 (ports 0 and 1) / UHCI #2 (ports 2 and 3) / UHCI #3 (ports 4 and 5) / UHCI #4 (ports 6 and 7)

You can use these items to control USB UHCI (USB 1.1) function, but disable the controllers from highest to lowest.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

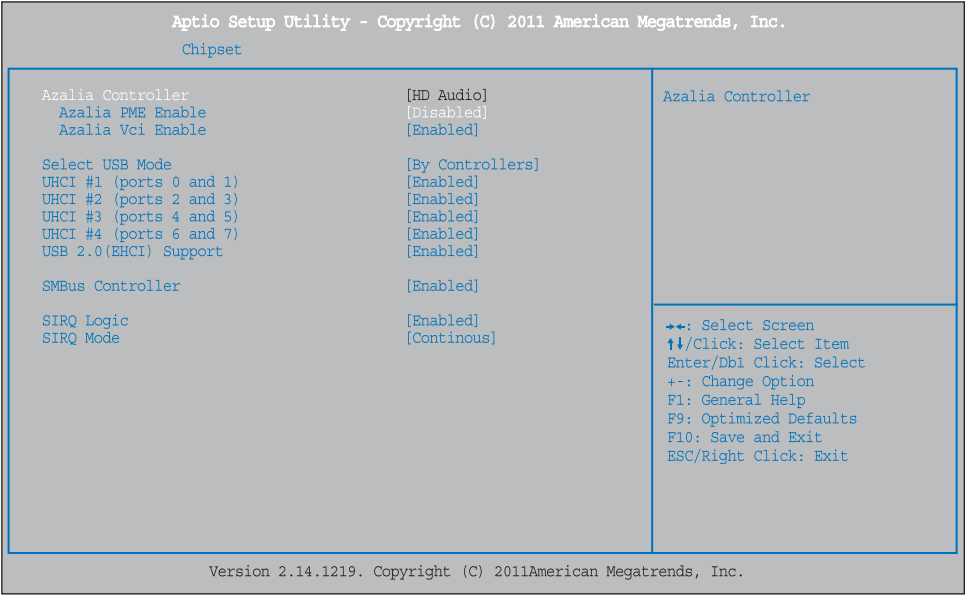
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

04. Chipset Menus

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.



Chipset › South Bridge › TPT Device

- USB Function

Sets up the number of USB Ports.
- USB 2.0 (EHCI) Support

You can use this item to enable or disable USB 2.0 (EHCI) Support.
- SMBus Controller

You can use this item to enable or disable OnChip SMBus Controller.
- SIRQ Logic

You can use this item to enable or disable SIRQ logic.
- SIRQ Mode

You can use this item to set SIRQ mode.

SPT-7000

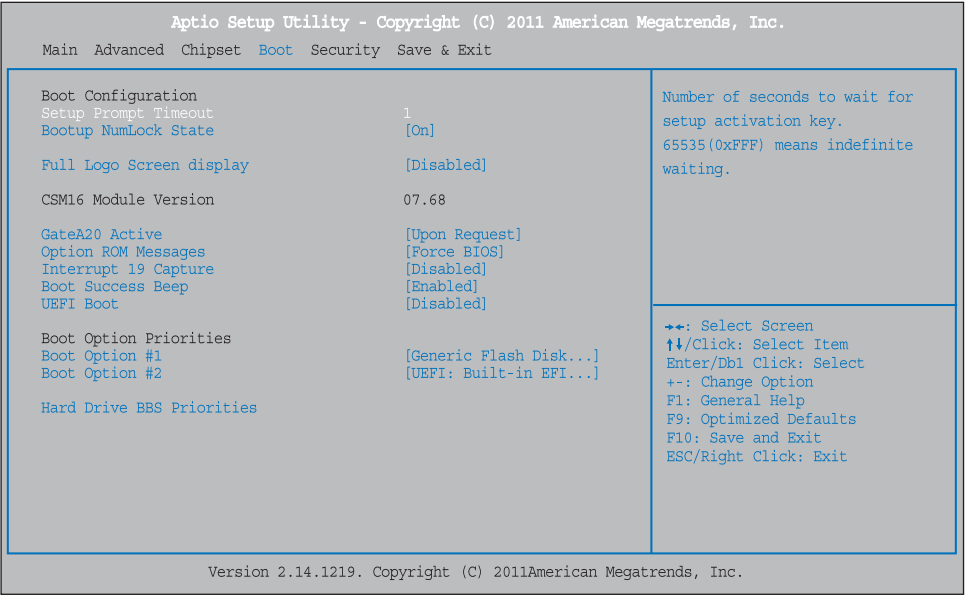
- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

Appendix A
System Set-Up

- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up
05. Boot Menu Use this menus to specify the system boot option.



- Setup Prompt Timeout

You can use this item to set the number of seconds waiting for setup activation key.
- Bootup Num-Lock State

You can use this item to select the keyboard NumLock State after the system has been switched on.
- Full Screen LOGO Display

This item allows you to enable or disable Full Screen LOGO Show function.
- GateA20 Active

UPON REQUEST - GA20 can be disabled using BIOS services. ALWAYS - it doesn't allow disabling the GA20; this option is useful when any RT code is executed above 1MB.
- Option ROM Messages

This item can set the display mode for Option ROM.
- Interrupt 19 Capture

Interrupt 19 is the software interrupt that handles the boot disk function. When this item is set to Enabled, it allows the Option ROMs to trap Interrupt 19.
- Boot Success Beep

When this item is set to Enabled, BIOS will let user know boot success with beep.
- UEFI Boot

This item enables or disables boot from the UEFI Devices.
- Boot Option Priorities

Items in this sub-menu specify the boot device priority sequence from the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system.
- Hard Disk Drive BBS Priorities

The BIOS will attempt to arrange the hard disk boot sequence automatically. You can also change the booting sequence. The number of device items that appears on the screen depends on the number of devices installed in the system.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

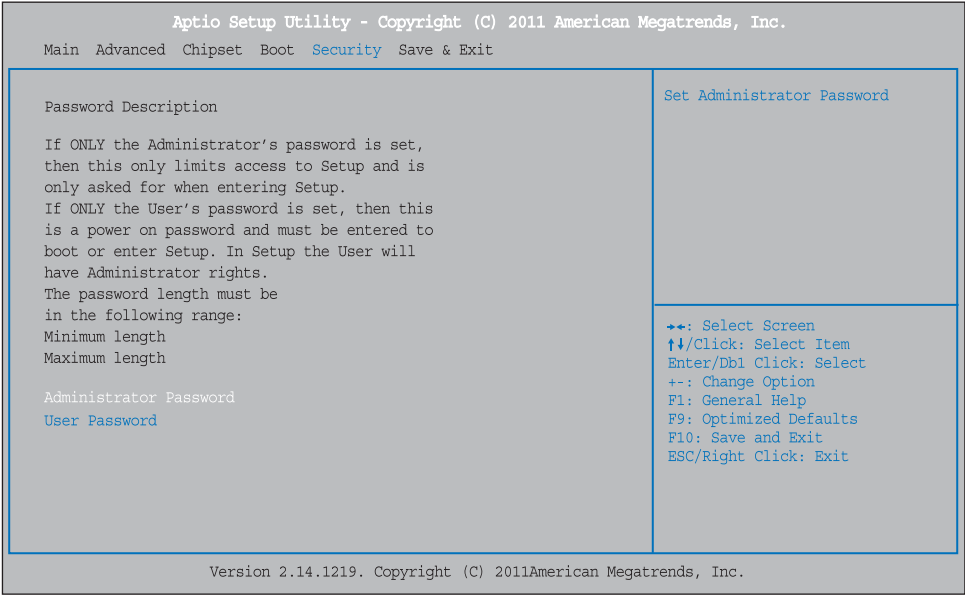
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

06. Security Menu

This menu allows you to provide/revise supervisor and user password.



- Administrator Password
- This item sets Administrator Password.
- User Password
- This item sets User Password.

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle

Appendix A
System Set-Up

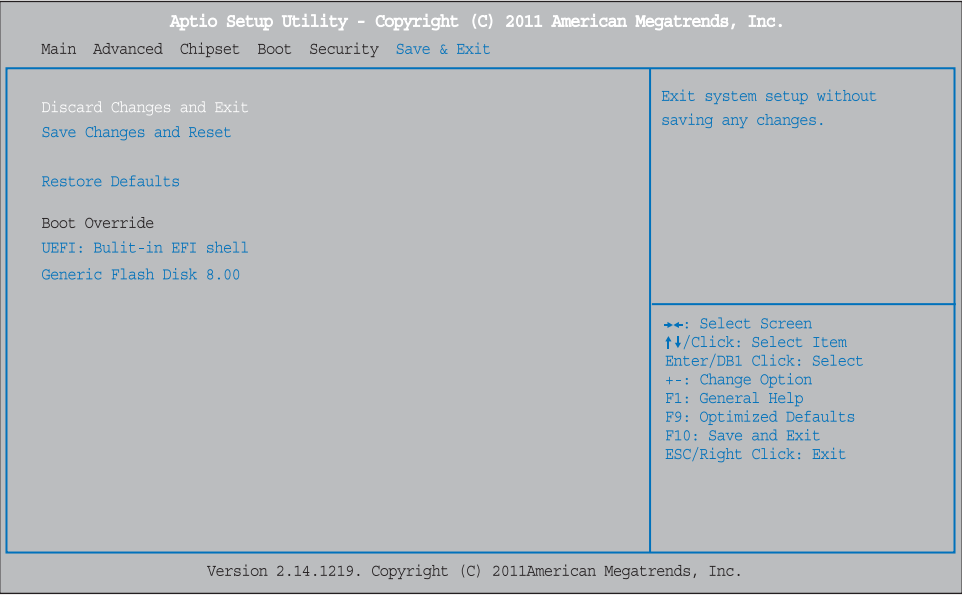
- System Set-up Preview
- Main Menu
- Advanced Menu
- Chipset Menu
- Boot Menu
- Security Menu
- Save & Exit Menu

Appendix B
System Structure

BIOS Set-up

07. Save & Exit Menu

This menu allows you to load the optimal default settings, and save or discard the changes to the BIOS items.



- | | |
|----------------------------|---|
| ▪ Discard Changes and Exit | Abandon all changes made during the current session and exit setup. |
| ▪ Save Changes and Reset | Reset the system after saving the changes. |
| ▪ Restore Defaults | This selection allows you to reload the BIOS when problem occurs during system booting sequence. These configurations are factory settings optimized for this system. |
| ▪ Boot Override | This item allows you to exit the system setup without saving any changes. |

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

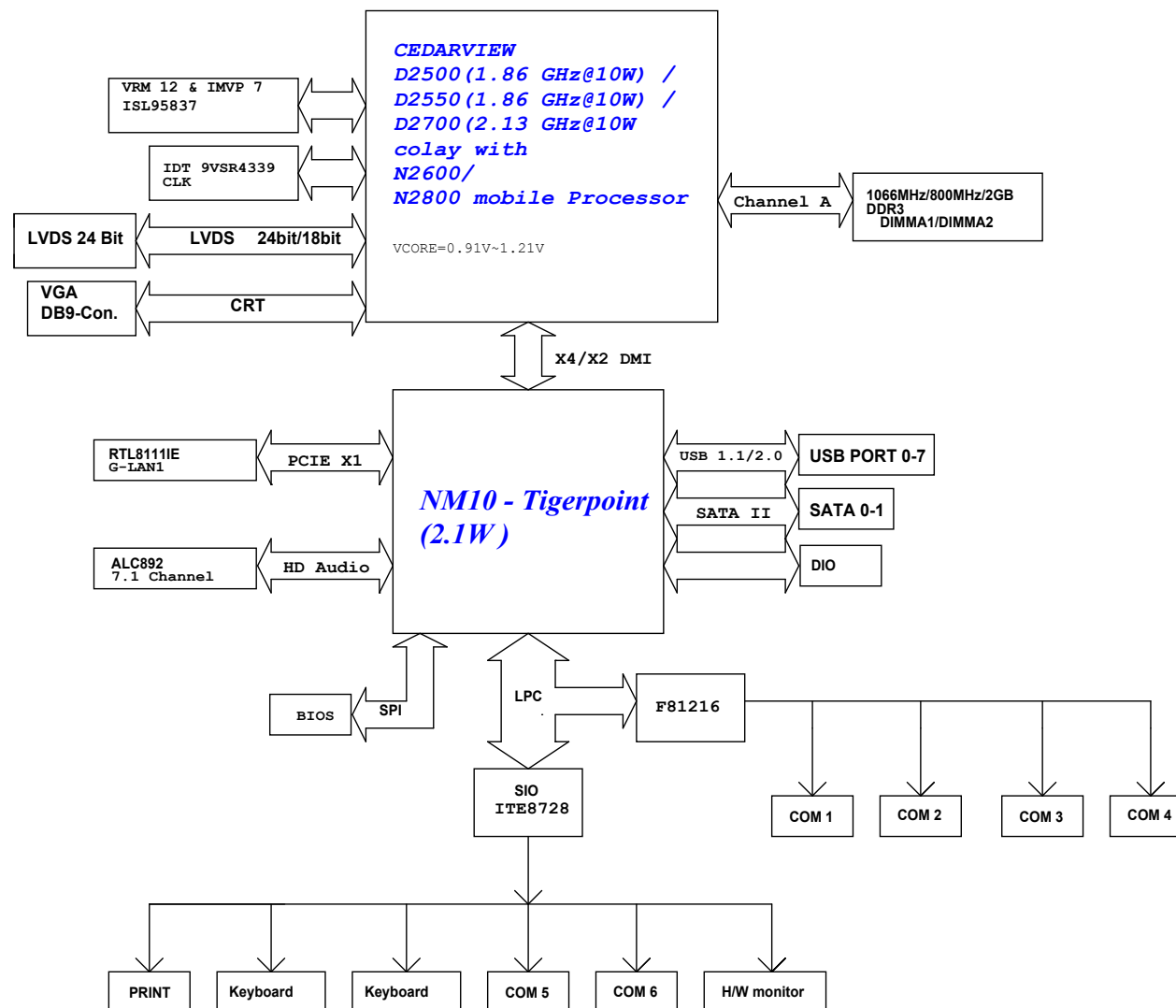
- System Block
- Mainboard Overview
- Exploded View

System Structure

01. System Block

System Block Diagram

- EIC10-SAM(D2550)



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

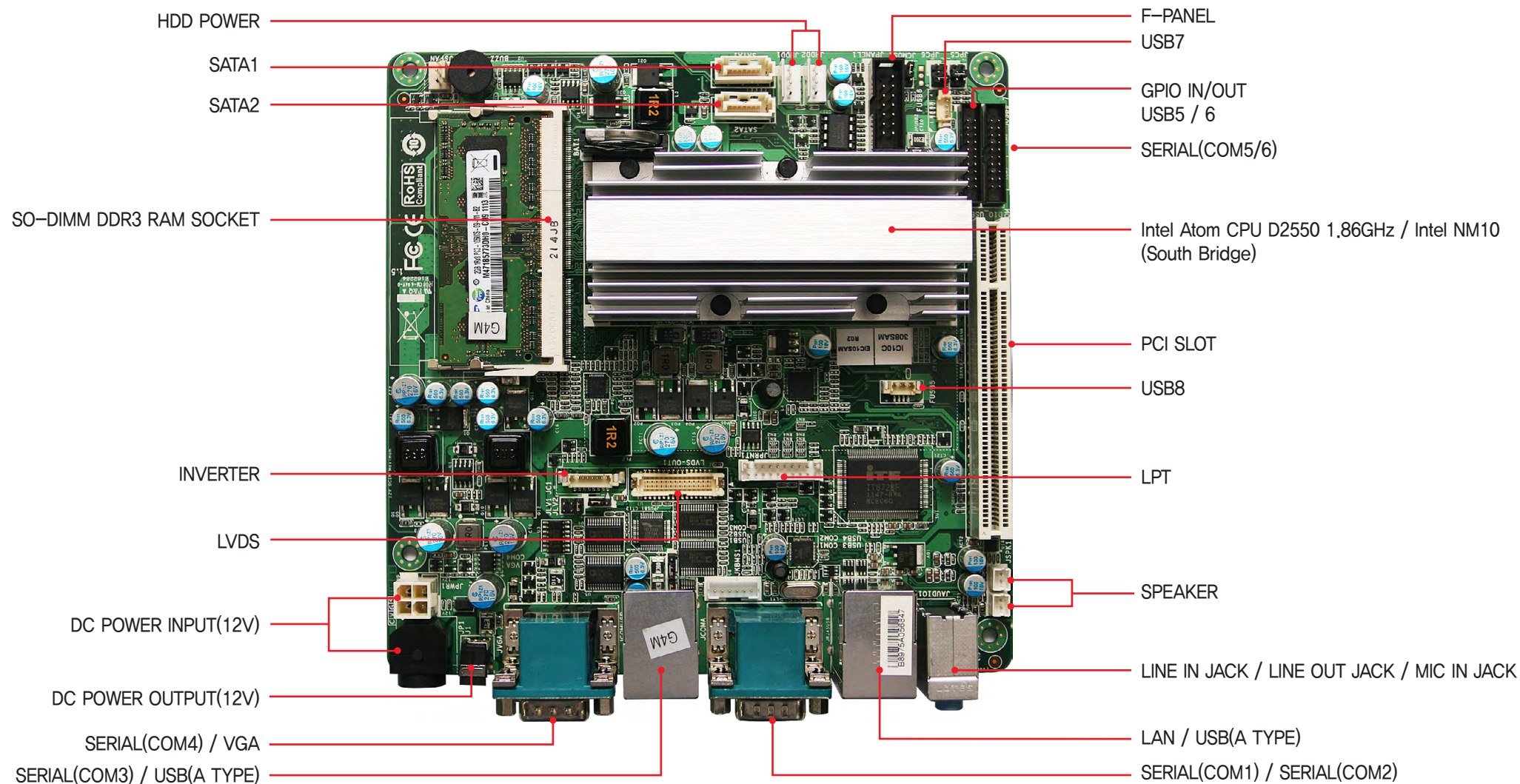
Appendix B
System Structure

System Block
• Mainboard Overview
Exploded View

System Structure

02. Mainboard Overview

Main Chipset & Connector



SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle ▶

Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure

02. Mainboard Overview

Main Jumper Setting



BIOS Clear Jumper(JCOMS1)

Jumper Setting	Voltage
1 – 2 Short	Normal Operation(Default)
2 – 3 Short	CMOS Clear



Serial(JPC5/6) Voltage Jumper
– Serial5(JPC5)

Jumper Setting	Voltage
1 – 2 Short	RI
3 – 4 Short	5V (Default)
5 – 6 Short	12V

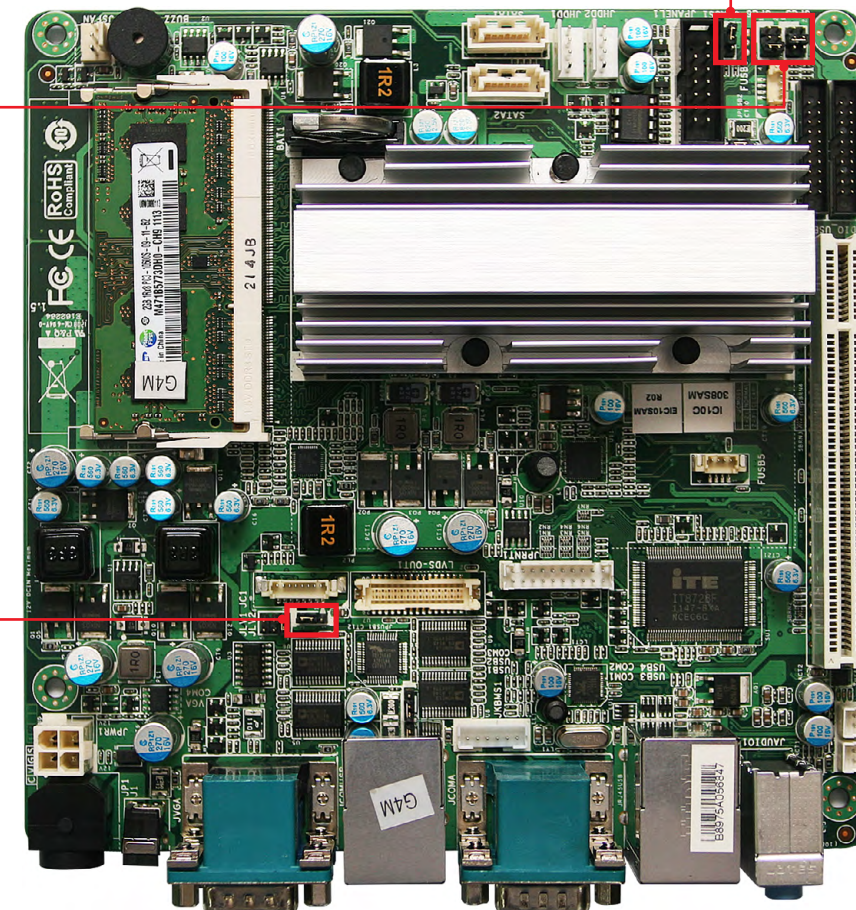
– Serial6(JPC6)

Jumper Setting	Voltage
1 – 2 Short	RI
3 – 4 Short	5V
5 – 6 Short	12V (Default)



Inverter Voltage Jumper(JLV2)

Jumper Setting	Voltage
1 – 2 Short	5V
2 – 3 Short	12V (Default)



SPT-7000

Introduction

System Installation

System Use

System Expansion
& Dismantle

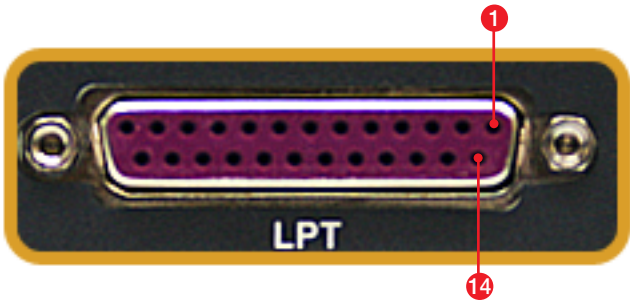
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
02. Mainboard Overview

Parallel Communication Port (D-SUB25 Female)



Parallel Port (D-SUB25 Female)

Pin Num	SPP	ECP	EPP	In/Out
1	/STROBE	/STROBE	/WRITE	I/O
2	PD0	PD0	PD0	I/O
3	PD1	PD1	PD1	I/O
4	PD2	PD2	PD2	I/O
5	PD3	PD3	PD3	I/O
6	PD4	PD4	PD4	I/O
7	PD5	PD5	PD5	I/O
8	PD6	PD6	PD6	I/O
9	PD7	PD7	PD7	I/O
10	/ACK	/ACK	NTR	I
11	BUSY	/BUSY,PERIPHACK	/WAIT	I
12	PERROR	PE,/ACKREVERSE	PE	I
13	SELECT	SELECT	SELECT	I
14	/AUTOFD	/AUTOFD,HOSTACK	/DATASTB	O
15	/FAULT	/FAULT,/PERIPHREQST	/FAULT	I
16	/INIT	/FAULT,/REVERSEQST	/RESET	O
17	/SLCTIN	/SLCTIN	/ADDRSTB	O
18-25	GND	GND	GND	-

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

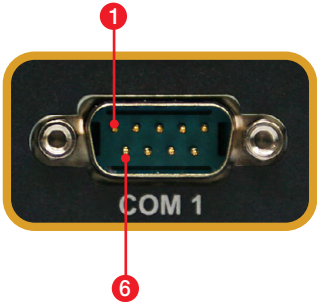
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
02. Mainboard Overview

Serial Communication Port (D-SUB9 Male/RJ45)



COM1/2/4(DSUB9 MALE)

Pin Num	Description
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	+5V



COM3(RJ45)

Pin Num	Description
1	VSERIAL
2	DSR
3	TXD
4	RXD
5	RTS
6	CTS
7	GND
8	DTR

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
02. Mainboard Overview

USB & LAN Ports



USB Port(TYPE A)

Pin Num	Description
1	VSUB(+5V)
2	D-
3	D+
4	GND



LAN Port(RJ45)

Pin Num	Description
1	MDI [0] +
2	MDI [0] -
3	MDI [1] +
4	MDI [1] -
5	MDI [2] +
6	MDI [2] -
7	MDI [3] +
8	MDI [3] -

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

Appendix A System Set-Up

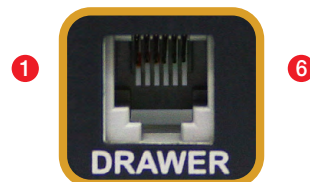
Appendix B System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure

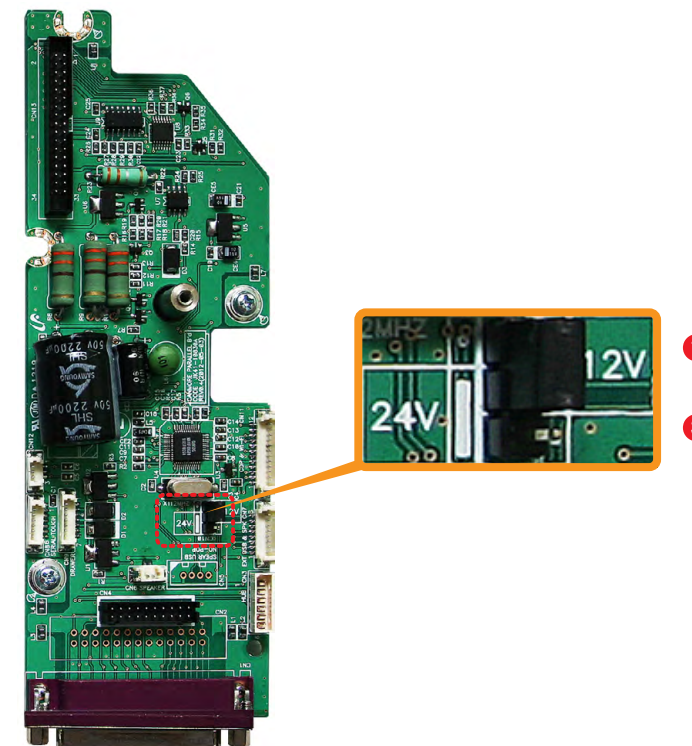
02. Mainboard Overview

Cash Drawer Port / Cash Drawer Power Selection Switch



▪ Cash Drawer Port (RJ11)

Pin Num	Description
1	GND
2	DRAWER#1
3	DRW_COMP
4	VDRW(+12V / +24V)
5	DRAWER#2
6	GND



▪ Power Selection Switch for Cash Drawer (CN9 on Parallel PCB)

Jumper Setting	Voltage
1 – 2 Short	12V (Default)
2 – 3 Short	24V

SPT-7000

- Introduction ▶
- System Installation ▶
- System Use ▶
- System Expansion & Dismantle ▶

Appendix A
System Set-Up

Appendix B System Structure ▼

- System Block
- Mainboard Overview
- Exploded View

System Structure 02. Mainboard Overview

Dc Power Jack



▪ Adapter Output +12v

Pin Num	Description
1	NC
2	+12V
3	GND

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

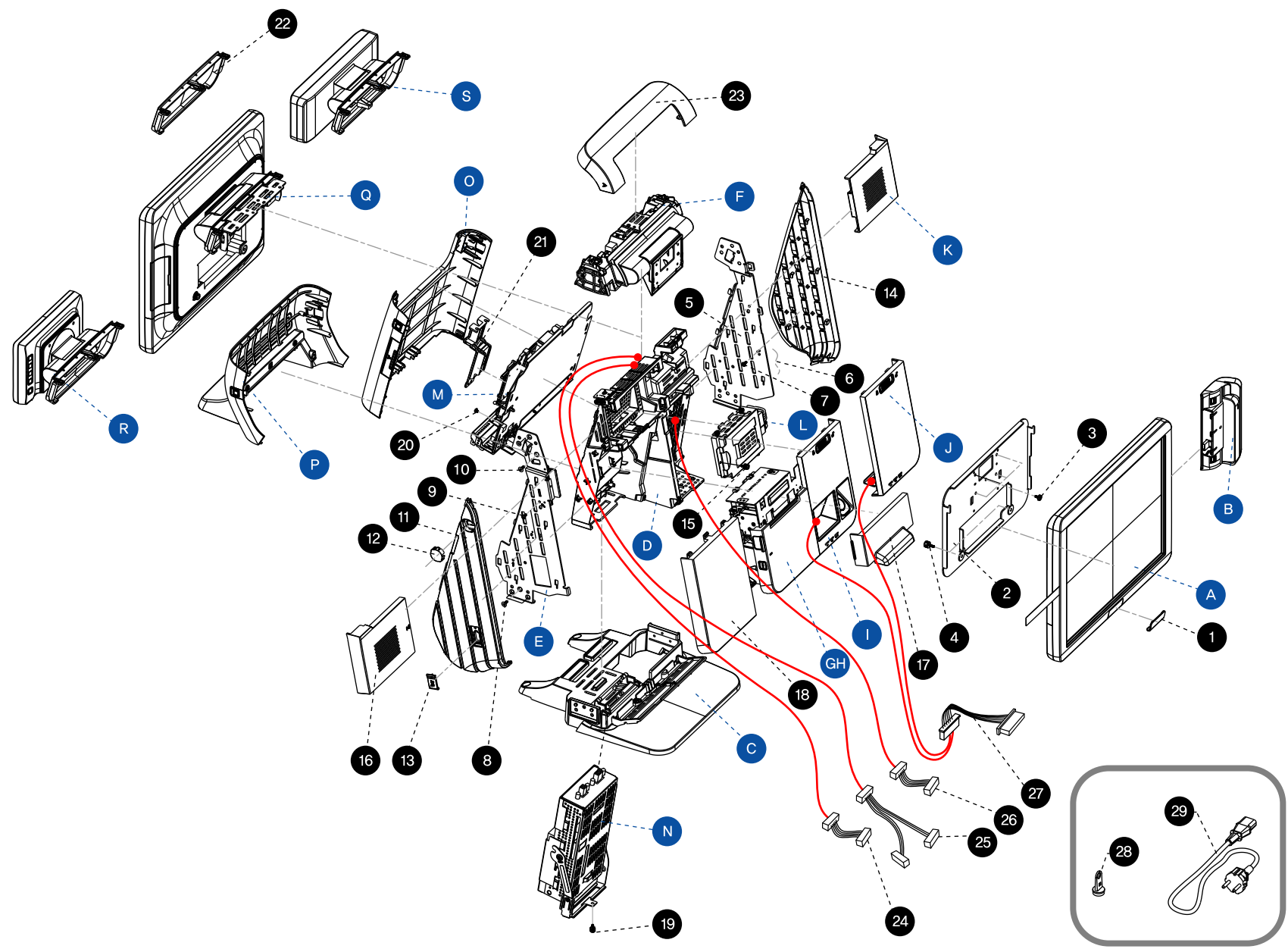
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

MAIN



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
1	JK72-2051A	PMO-BRAND FRONT	1	Y	OPTION
A	-	ASSY FRONT DISPLAY	1	N	
B	QMR-S730(STD)	ASSY MSR	1	Y	OPTION
2	JK70-20215A	IPR-PLATE REAR	1	Y	
3	S600600005A	SCREW-ASS'Y TAP TITE BH+M4,L8	5	Y	
4	S600100056A	SCREW-MACHINE HAND M3,L10	2	Y	
C	-	ASSY FRAME STAND	1	N	
D	-	ASSY FRAME MAIN	1	N	
E	-	ASSY SUPPORT LEFT	1	N	
5	JK70-20200A	IPR-SUPPORT RIGHT	1	Y	
6	JK39-40893A	HW-HARNES GROUND	1	Y	
7	S600100016A	SCREW-MACHINE-PWHM3,L4	1	Y	
8	S600100010A	SCREW-MACHINE-FH+M4,L10	6	Y	
9	S600200005A	SCREW-TAPPING-PWHM3,L10	5	Y	
10	S600200036A	SCREW-TAPPING-FHLM4,L10	6	Y	
11	JK72-20519A	PMO-COVER LEFT	1	Y	
12	JK72-20540A	PMO-DUMMY ANT	1	Y	OPTION
13	JK72-20522A	PMO-COVER POWER	1	Y	
14	JK72-20520A	PMO-COVER RIGHT	1	Y	
F	-	ASSY SUPPORT CROSS	1	N	
L	-	ASSY HDD	1	N	
15	S600100037A	SCREW-MACHINE COIN M3,L6	1	Y	
16	JK72-20513A	PMO-COVER HDD	1	Y	
K	-	ASSY COVER SPEAKER	1	N	
GH	OPT-S733(STD)	ASSY PRINTER 3"	1	Y	OPTION
	OPT-S732(STD)	ASSY PRINTER 2"	1	Y	OPTION
17	JK72-20529A	PMO-COVER CUTTER	1	Y	OPTION
18	JK72-20531A	PMO-DUMMY PRINTER	1	Y	OPTION
I	QDK-T705	ASSY DALLAS,5KEY,ONLY	1	Y	OPTION
	QDK-T710	ASSY DALLAS,10KEY,ONLY			
	QSC-700(STD)	ASSY SCANNER,ONLY			
	QSC-SM700(STD)	ASSY SCANNER&SMART CARD			
	QSM-700(STD)	ASSY SMART CARD,ONLY			
	QDK-SC705(STD)	ASSY DALLAS&SCANNER,5KEY			
	QDK-SC710(STD)	ASSY DALLAS&SCANNER,10KEY			
	QDK-SM705(STD)	ASSY DALLAS&SMART CARD,5KEY			
	QDK-SM710(STD)	ASSY DALLAS&SMART CARD,10KEY			
	QDK-SS705(STD)	ASSY DALLAS&SCANNER&SMART CARD,5KEY			
	QDK-SS710(STD)	ASSY DALLAS&SCANNER&SMART CARD,10KEY			
J	JK96-10380A	ASSY-DUMMY FRONT	1	Y	OPTION
N	-	ASSY POWER SMPS	1	N	
19	S600100037A	SCREW-MACHINE COIN M3,L6	1	Y	
M	-	ASSY MAIN BOARD	1	N	
20	S600100016A	SCREW-MACHINE-PWHM3,L4	2	Y	
21	JK72-20528A	PMO-HOLDER CABLE	1	Y	OPTION
O	JK95-70385A	ASSY COVER REAR	1	Y	
P	JK95-70384A	ASSY COVER BOTTOM	1	Y	
Q	QCD-S7L15NB(STD)	ASSY DUAL DISPLAY(15")	1	Y	OPTION
R	QCD-S7L7NB(STD)	ASSY DUAL DISPLAY(7")	1	Y	OPTION
S	QCD-S7V202(STD)	ASSY CDP,CHARACTER,20+2	1	Y	OPTION
	QCD-S7G256(STD)	ASSY CDP,GRAPHIC,256+32	1	Y	OPTION
22	JK72-20524A	PMO-DUMMY VFD	1	Y	OPTION
23	JK72-20510A	PMO-COVER TOP	1	Y	
24	JK39-40881A	HW-HARNES MAIN POWER	1	Y	
25	JK39-40882A	HW-HARNES PRT POWER	1	Y	
26	JK39-40875A	HW-HARNES HUB	1	Y	
27	JK39-40877A	HW-HARNES MAIN OSD	1	Y	
NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
28	JK95-70196A	ELA UNIT-HOLDER DALLAS	1	Y	STRAIGHT TYPE
29	JK39-20004A	CBF POWER CORD	1	Y	EUROPE
	JK39-20004B				USA
	JK39-20004C				UK
	JK39-20004D				AUSTRALIA
	JK39-20004E				KOREA
	JK39-20004F				SOUTH AFRICA
	JK39-20004G				ISRAEL
	JK39-20004H				INDIA
	JK39-20004J				ARGENTINA

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

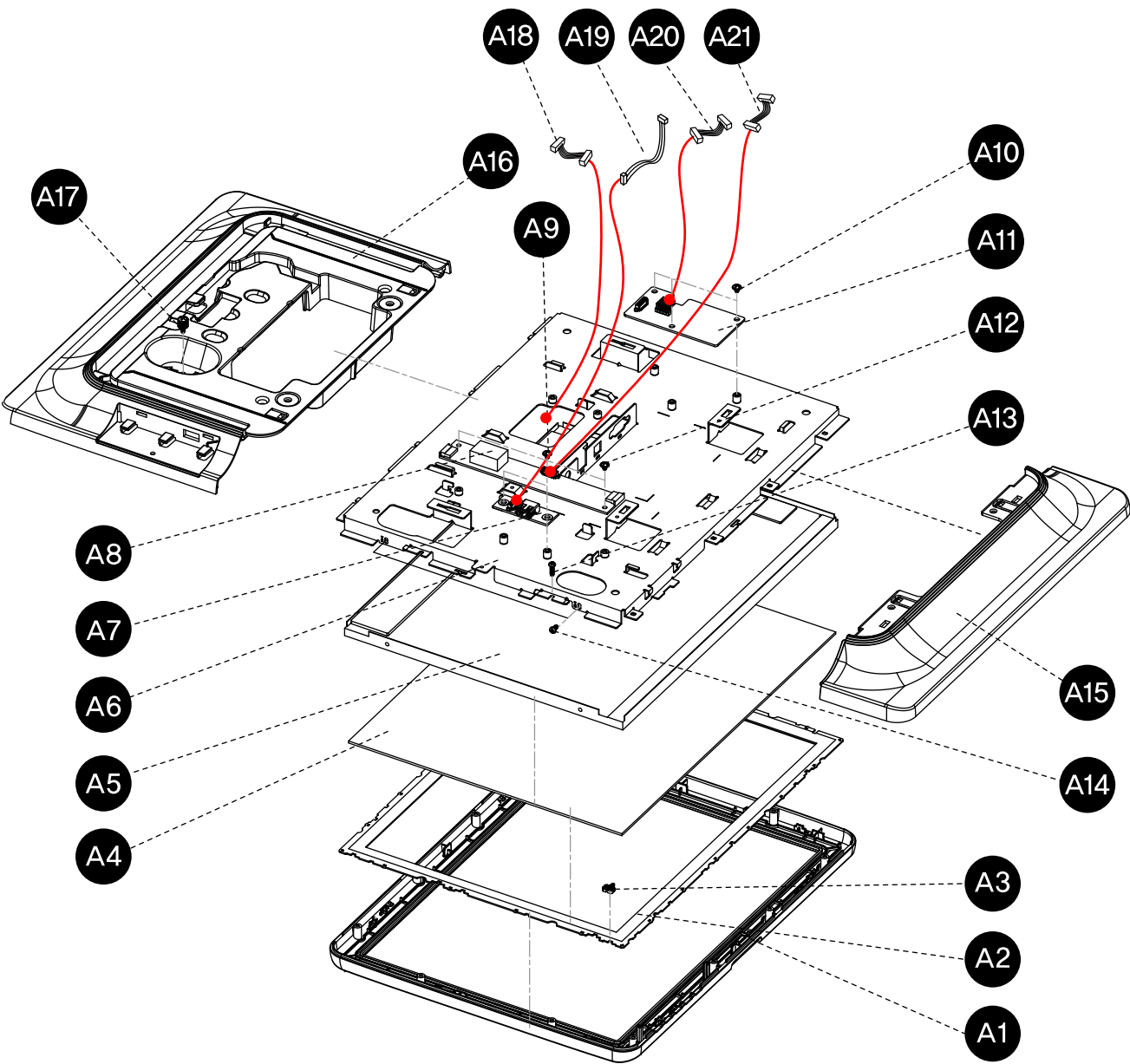
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

FRONT DISPLAY



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
A1	JK72-20544A	PMO-FRONT DISPLAY	1	Y	
A2	JK73-20015A	RMO-WATER PROOF	1	Y	
A3	JK72-20553A	PMO-GUIDE TOUCH	6	Y	
A4	JK95-70378E	HW-TOUCH PANEL	1	Y	
A5	JK07-00014A	HW-LCD-TFT	1	Y	
A6	JK70-20217A	IPR-BRKT DISPLAY	1	Y	
A7	JK92-10001E	HW-MSR JOINT BOARD	1	Y	
A8	S4401001171	HW-INVERTER MODULE	1	Y	
A9	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
A10	S600100016A	SCREW-MACHINE:PWH,M3,L4	3	Y	
A11	JK92-10001C	HW-TOUCH BOARD(ELO)	1	Y	
A12	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
A13	S600300020A	SCREW-TAPTITE:BH,M3,L10	12	Y	
A14	S600100044A	SCREW-MACHINE:PH,M3,L5	4	Y	
A15	JK72-20546A	PMO-REAR BOTTOM	1	Y	
A16	JK72-20545A	PMO-REAR TOP	1	Y	
A17	S600100037A	SCREW-MACHINE COIN M3,L6	1	Y	
A21	JK39-40879A	HW-HARNESS- LVDS	1	Y	
A19	JK39-40874A	HW-HARNESS- MSR	1	Y	
A18	JK39-40872A	HW-HARNESS- TUOCH	1	Y	
A20	JK39-40878A	HW-HARNESS- INVERTER	1	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

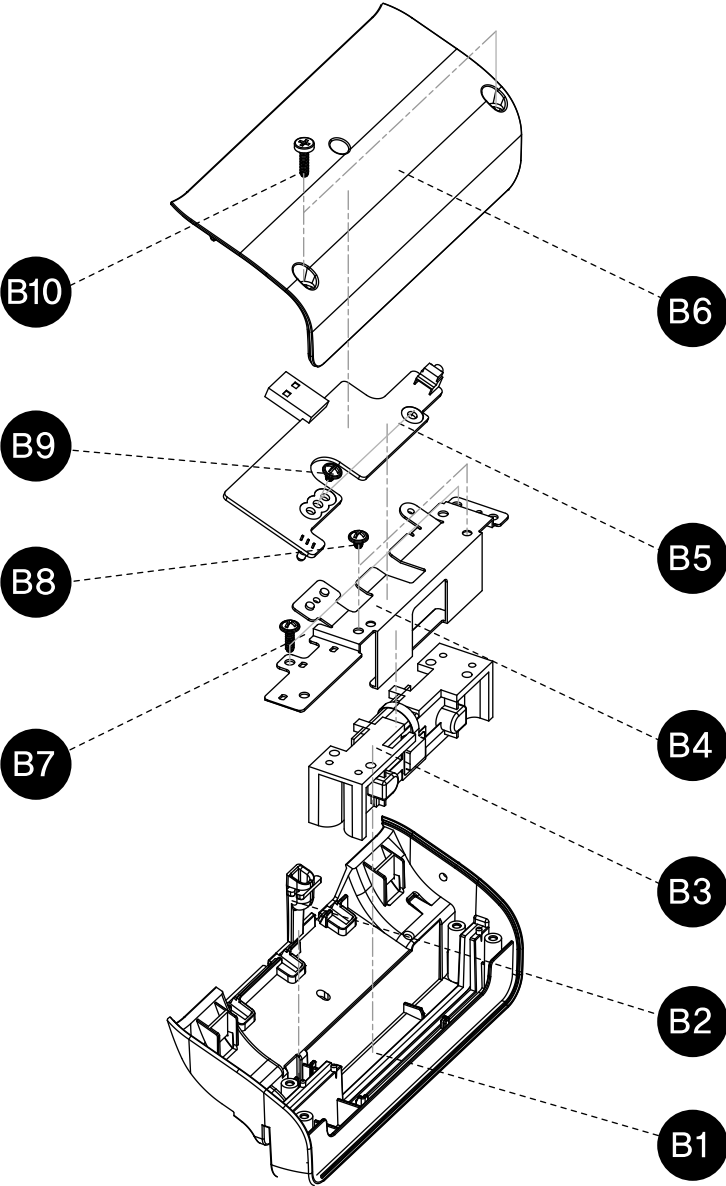
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

MSR



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
B1	JK72-20554A	PMO-COVER MSR UPPER	1	Y	
B2	JK72-20556A	PMO-LED MSR	1	Y	
B3	JK48-00007A	HW-MSR MODULE	1	Y	
B4	JK70-20218A	IPR-HOLDER MSR	1	Y	
B5	JK92-10001F	HW-MSR BOARD	1	Y	
B6	JK72-20555A	PMO-COVER MSR LOWER	1	Y	
B7	S600200005A	SCREW-TAPPING:PWH,M3,L10	2	Y	
B8	S600100016A	SCREW-MACHINE:PWH,+,M3,L4	2	Y	
B9	S600100016A	SCREW-MACHINE:PWH,+,M3,L4	2	Y	
B10	S600200015A	SCREW-TAPPING:BH,+,M3,L12	2	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

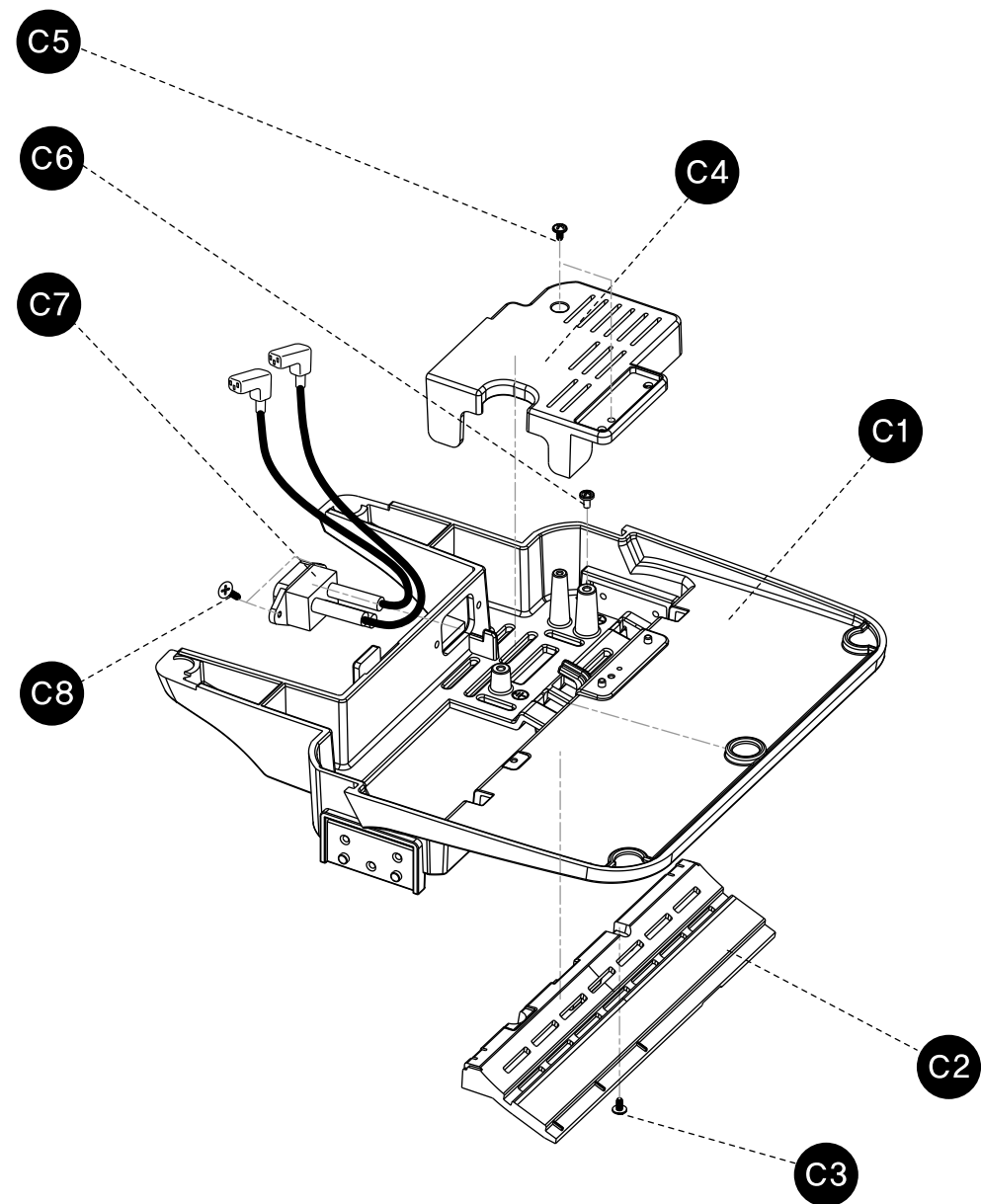
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

STAND



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
C1	JK95-70378A	IPR-FRAME STAND	1	Y	
C2	JK72-20521A	PMO-COVER FRONT	1	Y	
C3	S600100049A	SCREW-MACHINE:PWH,M3,L6	1	Y	
C4	JK72-20558A	PMO-PROTECT POWER	1	Y	
C5	S600100049A	SCREW-MACHINE:PWH,M3,L6	2	Y	
C6	S600600005A	SCREW-ASS'Y MACH:WT,BH,M4,L8	1	Y	
C7	JK95-70429A	HW-HARNESS-INLET POWER	1	Y	
C8	S600100027A	SCREW-MACHINE:BH,M3,L10	2	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

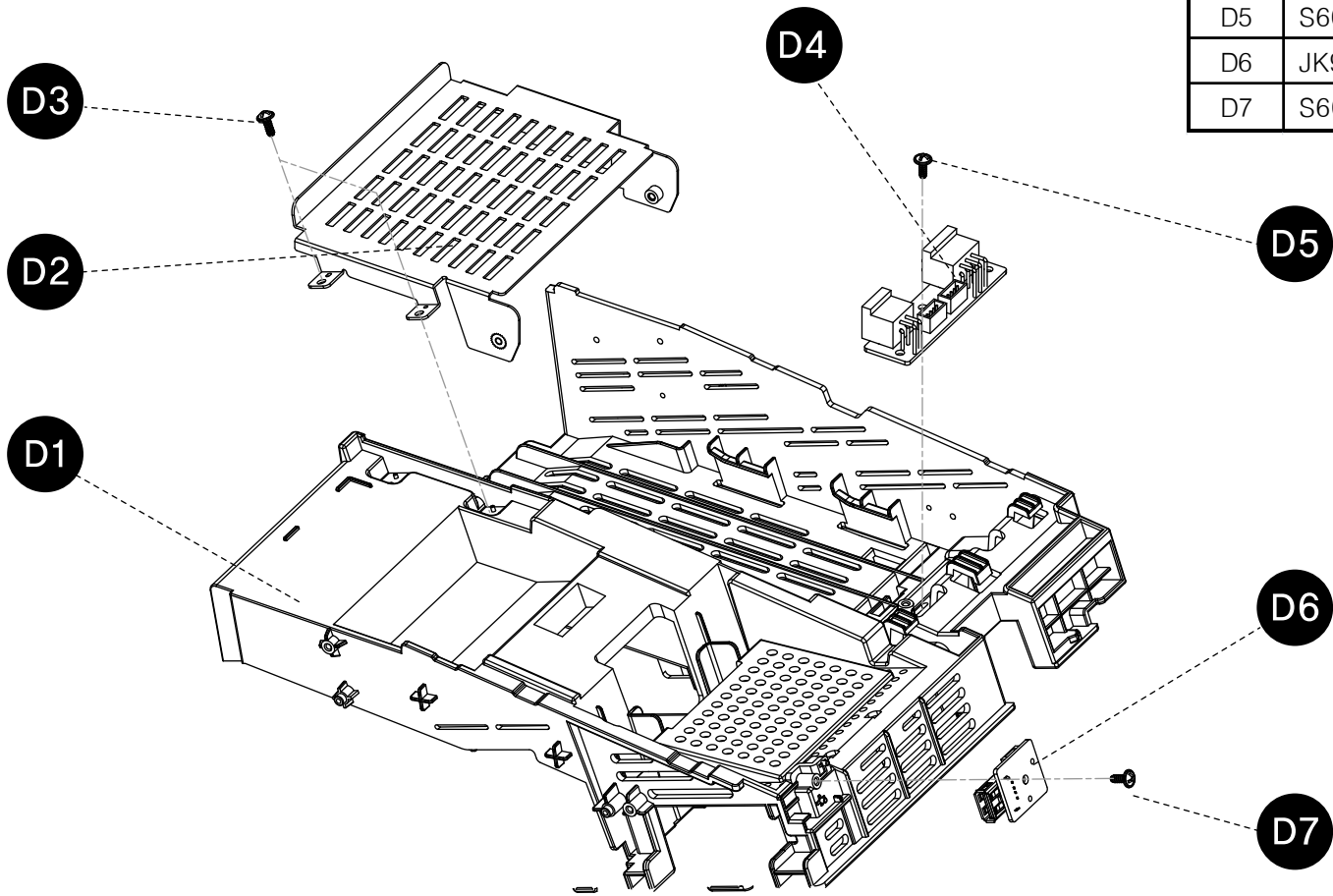
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

FRAME MAIN



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
D1	JK72-20527A	PMO-FRAME MAIN	1	Y	
D2	JK70-20211A	IPR-BRKT POWER	1	Y	
D3	S600200005A	SCREW-TAPPING:PWH,M3,L10	2	Y	
D4	JK92-10002A	HW-POWER BOARD	1	Y	
D5	S600200005A	SCREW-TAPPING:PWH,M3,L10	1	Y	
D6	JK92-10002D	HW-WIFI BOARD	1	Y	
D7	S600200005A	SCREW-TAPPING:PWH,M3,L10	1	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

Appendix A
System Set-Up

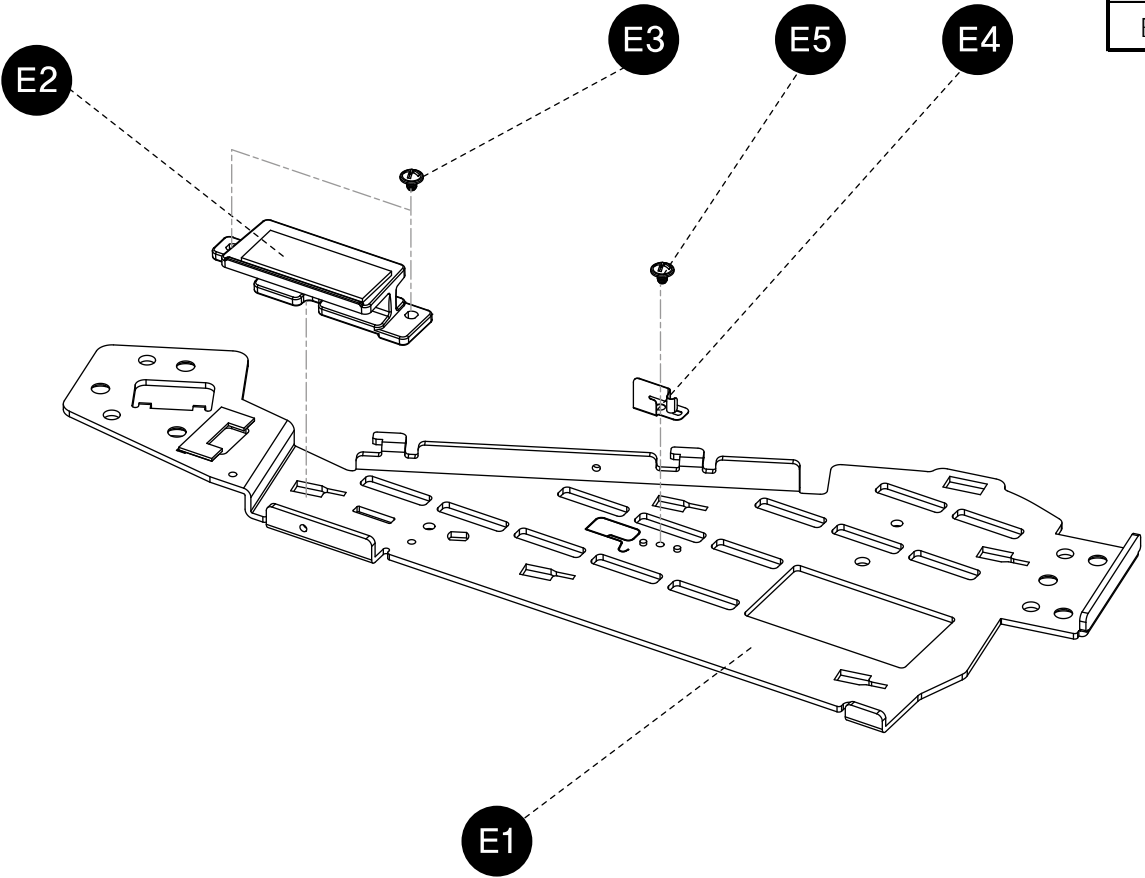
Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

SUPPORT LEFT

NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
E1	JK95-70504A	ASSY-SUPPORT LEFT	1	Y	
E2	JK95-70505A	ASSY-HEATSINK HDD	1	Y	
E3	S600100049A	SCREW-MACHINE:PWH,M3,L6	2	Y	
E4	JK70-20219A	IPR-PLATE GROUND	1	Y	
E5	S600100016A	SCREW-MACHINE:PWH,M3,L4	1	Y	



SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

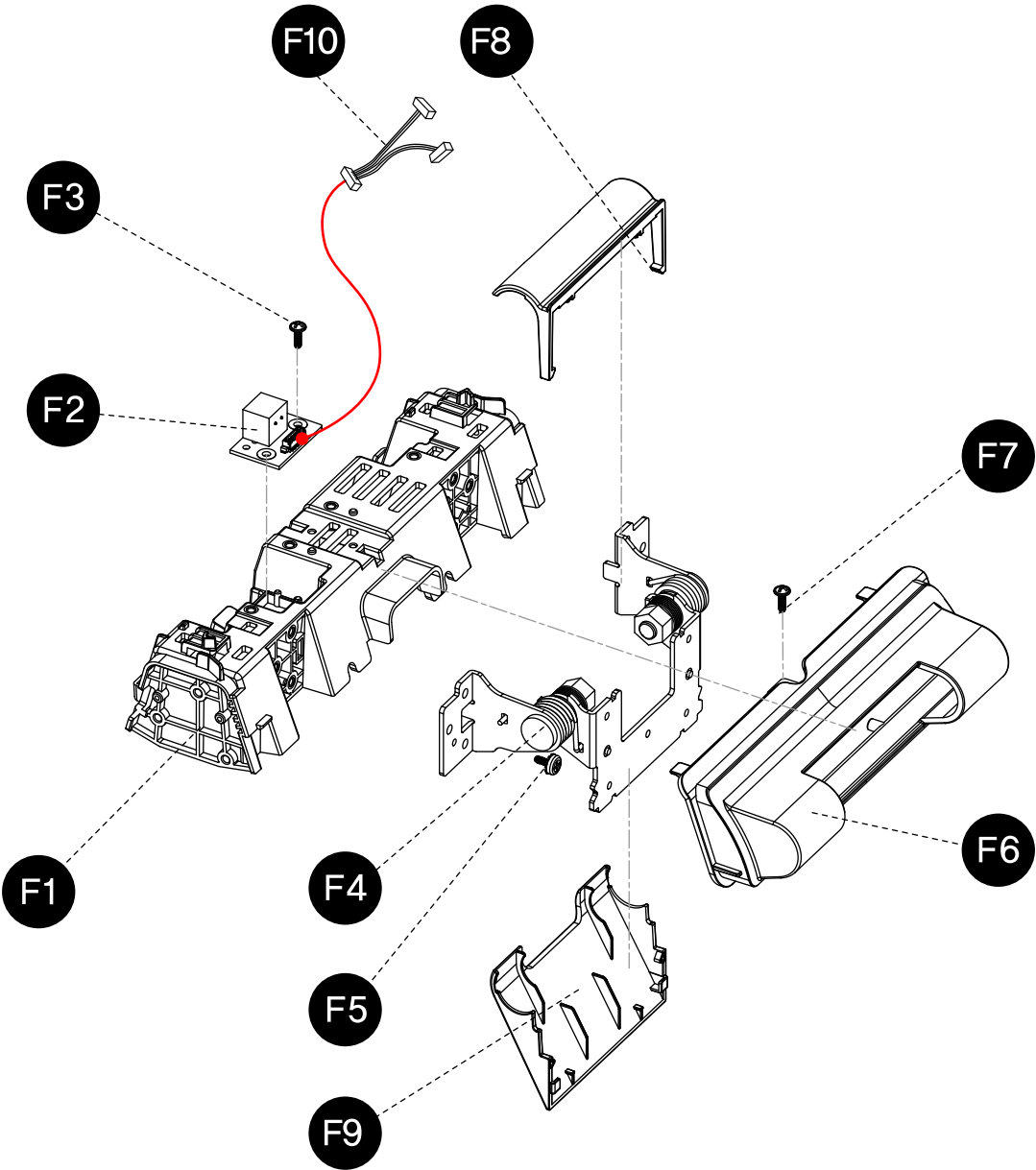
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

SUPPORT CROSS



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
F1	JK95-70506A	ASSY-SUPPORT CROSS	1	Y	
F2	JK92-10002F	HW-VFD BOARD	1	Y	
F3	S600200005A	SCREW-TAPPING:PWH,M3,L10	1	Y	
F4	JK75-40014A	MEC-HINGE ASS'Y	1	Y	
F5	S600600005A	SCREW-ASS'Y TAPTITE:WT,BH,M4,L8	6	Y	
F6	JK72-20511A	PMO-HOLDER DISPLAY	1	Y	
F7	S600200005A	SCREW-TAPPING:PWH,M3,L10	1	Y	
F8	JK72-20548A	PMO-HINGE TOP	1	Y	
F9	JK72-20549A	PMO-HINGE BOTTOM	1	Y	
F10	JK39-40873A	HW-HARNESS VFD WIFI	1	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

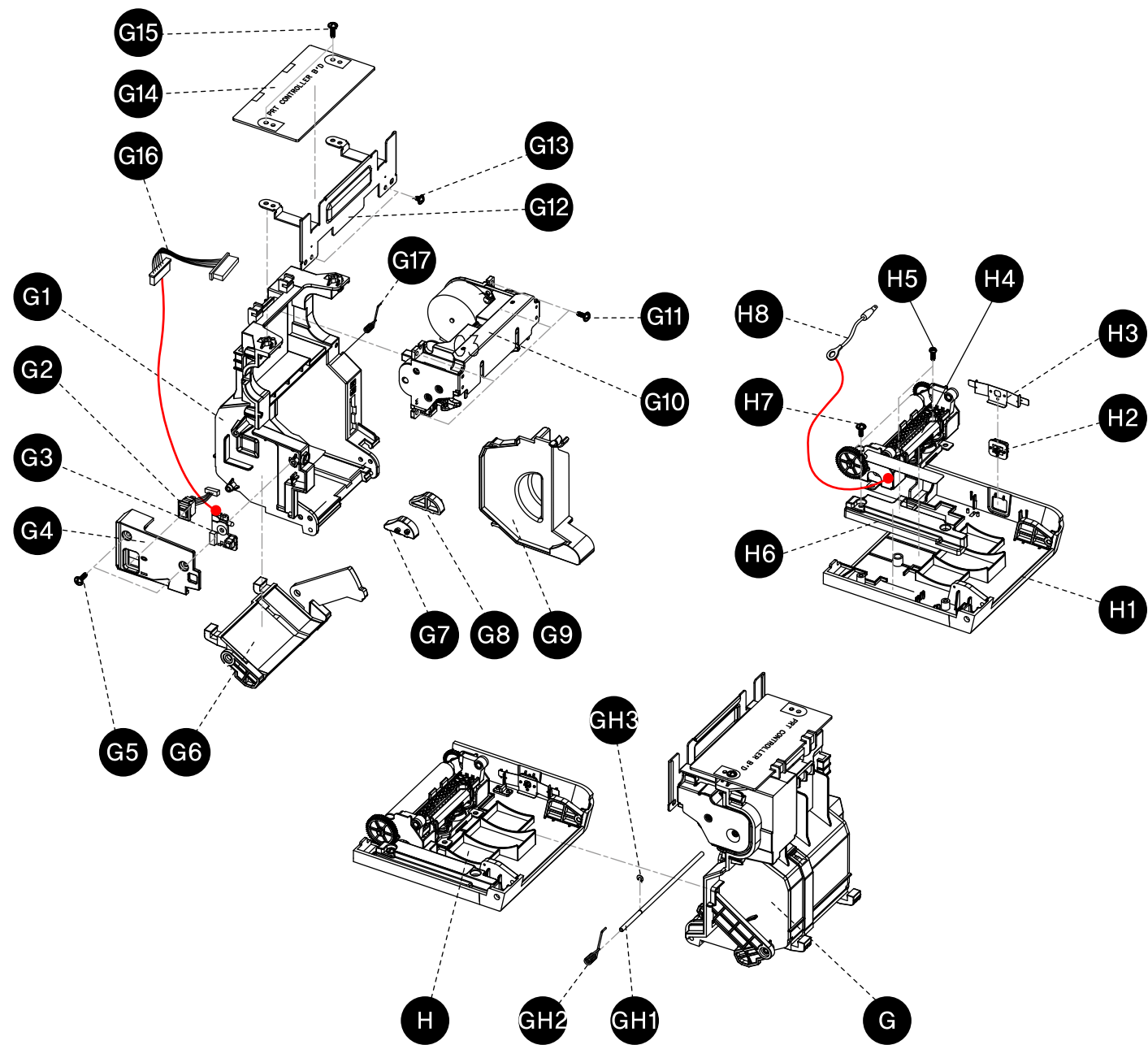
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

PRINTER



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
G1	JK72-20534A	PMO-PAPER SUPPLY	1	Y	
G2	JK39-40745A	HW-HARNESS-PRT POWER	1	Y	
G3	JK92-10009A	HW-PRT OSD BOARD	1	Y	
G4	JK72-20541A	PMO-HOLDER POWER	1	Y	
G5	S600200006A	SCREW-TAPPING:PWH,+,2,M3,L8	2	Y	
G6	JK72-20533A	PMO-LOCK SUPPLY	1	Y	
G7	JK72-20536A	PMO-GUIDE PAPER L	1	Y	
G8	JK72-20537A	PMO-GUIDE PAPER R	1	Y	
G9	JK72-20535A	PMO-PAPER PARTION	1	Y	OPTION
G10	JK95-70368C	ASSY PRINTER MAIN	1	Y	
G11	S600200005A	SCREW-TAPPING:PWH,+,2,M3,L10	4	Y	
G12	JK70-20202A	IPR-BRKT CUTTER	1	Y	
G13	S600100016A	SCREW-MACHINE:PWH,+,M3,L4	2	Y	
G14	JK92-10010A	HW-PRINTER BOARD	1	Y	
G15	S600200006A	SCREW-TAPPING:PWH,+,2,M3,L8	2	Y	
G16	JK39-40883A	HW-HARNESS PRT OSD	1	Y	
G17	JK70-30035A	SPRING-LOCK SUPPLY	1	Y	
H1	JK95-70507A	ASSY-COVER PRINTER	1	Y	
H2	JK72-20532A	PMO-FEED BUTTON	1	Y	
H3	JK70-20203A	IPR-BRKT FEED	1	Y	
H4	JK95-70393A	ASSY PRINTER ROLLER	1	Y	
H5	S600100054A	SCREW-MACHINE:BH,M3,L8	2	Y	
H6	JK95-70508A	ASSY-COVER GROUND	1	Y	
H7	S600200006A	SCREW-TAPPING:PWH,+,2,M3,L8	1	Y	
H8	JK39-40894A	HW-HARNESS GROUND			
G	JK95-70394A	ASSY-PAPER SUPPLY	1	Y	
H	JK95-70392A	ASSY-COVER PRINTER	1	Y	
GH1	JK70-70057A	ICT-SHAFT PRINTER	1	Y	
GH2	JK70-30028A	SPRING-COVER PRINTER	1	Y	
GH3	S604400007A	E-RING	1	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

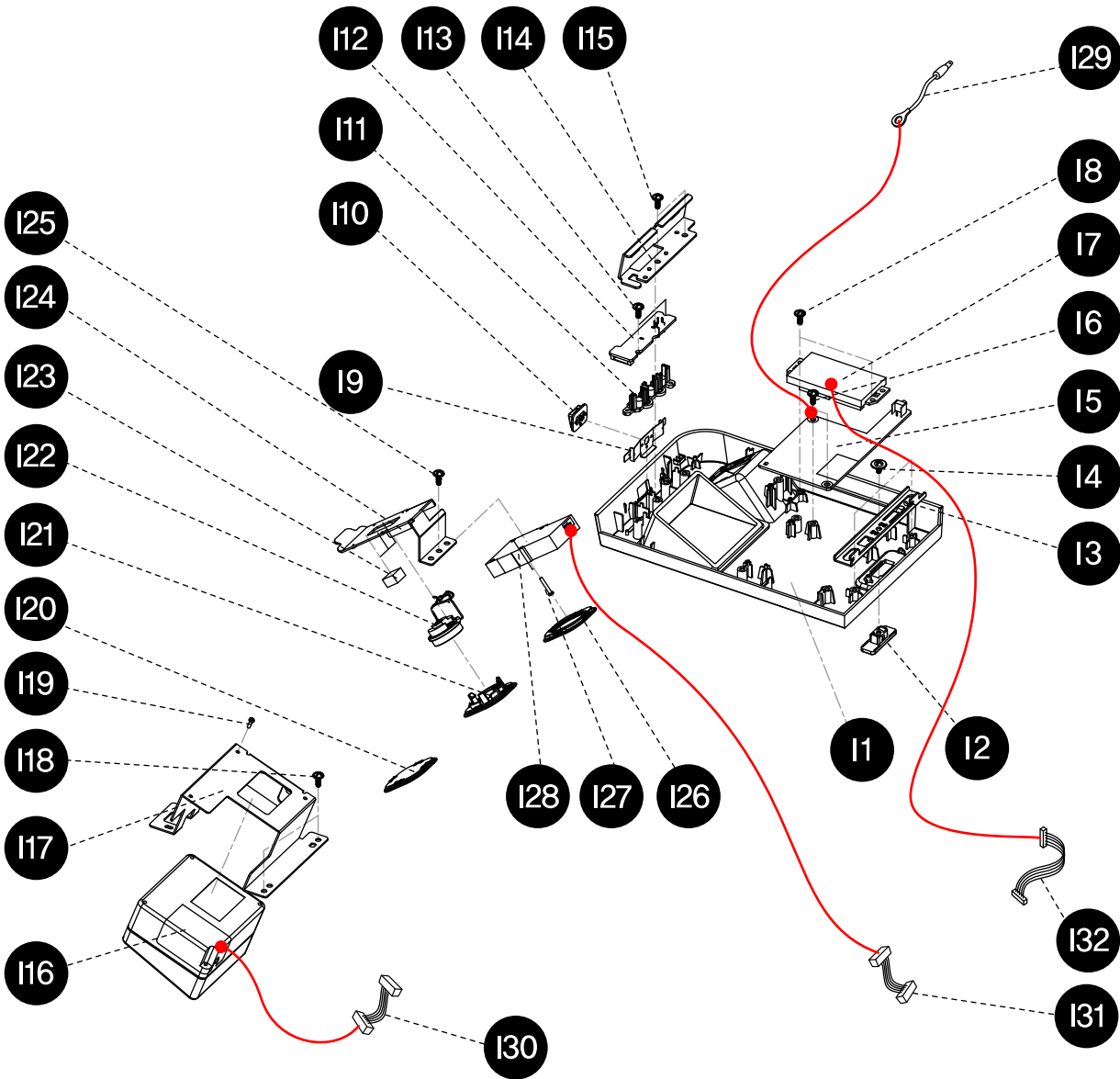
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

COVER SCANNER



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
I1	JK72-20514A	PMO-COVER SCANNER	1	Y	
I2	JK72-20293A	PMO-KNOB LOCK	1	Y	
I3	JK70-20214A	IPR-BRKT LOCK	1	Y	
I4	S600200023A	SCREW-TAPPING:PWH,M3,L6,WØ1	3	Y	
I5	JK92-01735A	HW-HUB BOARD	1	Y	OPTION
I6	S600200006A	SCREW-TAPPING:PWH,M3,L8	2	Y	OPTION
I7	S1109000002	HW-SMART CARD READER	1	Y	OPTION
I8	S600200007A	SCREW-TAPPING:RH,M3,L6	2	Y	OPTION
I9	JK70-20203A	IPR-BRKT FEED	1	Y	
I10	JK72-20518A	PMO-POWER BUTTON	1	Y	
I11	JK72-20517A	PMO-POWER LED	1	Y	
I12	JK92-10002B	HW-MAIN OSD BOARD	1	Y	
I13	S600200006A	SCREW-TAPPING:PWH,M3,L8	2	Y	
I14	JK70-20213A	IPR-BRKT SCANNER LOCK	1	Y	
I15	S600200006A	SCREW-TAPPING:PWH,M3,L8	2	Y	
I16	JK46-00022A	HW-UNIT-SCANNER	1	Y	OPTION
I17	JK70-20228A	IPR-BRKT SCANNER	1	Y	OPTION
I18	S600200006A	SCREW-TAPPING:PWH,M3,L8	2	Y	OPTION
I19	S600100021A	SCREW-MACHINE:RH,M2,L4	3	Y	OPTION
I20	JK72-20404A	PMO-CAP MSR	1	Y	OPTION
I21	JK72-20403A	PMO-CAP DALLAS	1	Y	OPTION
I22	JK95-70134D	HW-ELA UNIT-iBUTTON PROBE	1	Y	OPTION
I23	JK73-11026A	RMO-PAD BOARD	3	Y	OPTION
I24	JK70-20229A	IPR-BRKT FPR	1	Y	OPTION
I25	S600200006A	SCREW-TAPPING:PWH,M3,L8	1	Y	OPTION
I26	JK72-20402A	PMO-CAP FPR	1	Y	OPTION
I27	S600100048A	SCREW-MACHINE:BH,M2X14	2	Y	OPTION
I28	JK46-00020A	HW-FINGER PRINTER	1	N	OPTION
I29	JK39-40758A	HW-HARNESS-GND SCANNER	1	Y	
I30	JK95-70428A	HW-HARNESS SCANNER	1	Y	OPTION
I31	JK39-40820A	HW-HARNESS-FINGER PRINT	1	Y	OPTION
I32	JK39-40821A	HW-HARNESS-SCR	1	Y	OPTION

SPT-7000

Introduction ▶

System Installation ▶

System Use ▶

System Expansion
& Dismantle ▶

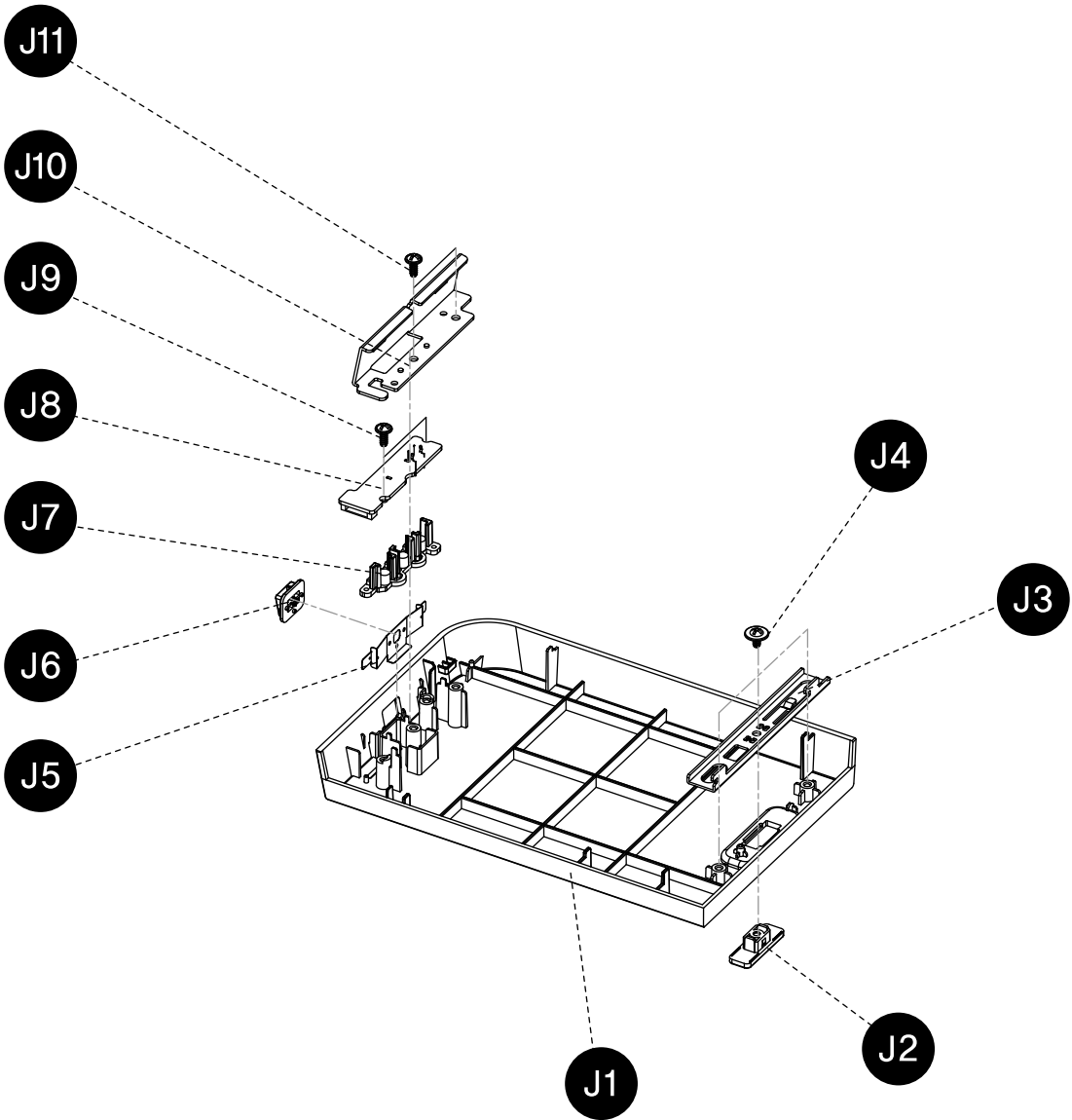
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

DUMMY FRONT



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
J1	JK72-20515A	PMO-DUMMY FRONT	1	Y	
J2	JK72-20293A	PMO-KNOB LOCK	1	Y	
J3	JK70-20214A	IPR-BRKT LOCK	1	Y	
J4	S600200023A	SCREW-TAPPING:PWH,M3,L6,WØ10	3	Y	
J5	JK70-20203A	IPR-BRKT FEED	1	Y	
J6	JK72-20518A	PMO-POWER BUTTON	1	Y	
J7	JK72-20517A	PMO-POWER LED	1	Y	
J8	JK92-10002B	HW-MAIN OSD BOARD	1	Y	
J9	S600200006A	SCREW-TAPPING:PWH,M3,L8	2	Y	
J10	JK70-20213A	IPR-BRKT SCANNER LOCK	1	Y	
J11	S600200006A	SCREW-TAPPING:PWH,M3,L8	2	Y	

SPT-7000

[Introduction](#)

[System Installation](#)

[System Use](#)

[System Expansion & Dismantle](#)

[Appendix A
System Set-Up](#)

[Appendix B
System Structure](#)

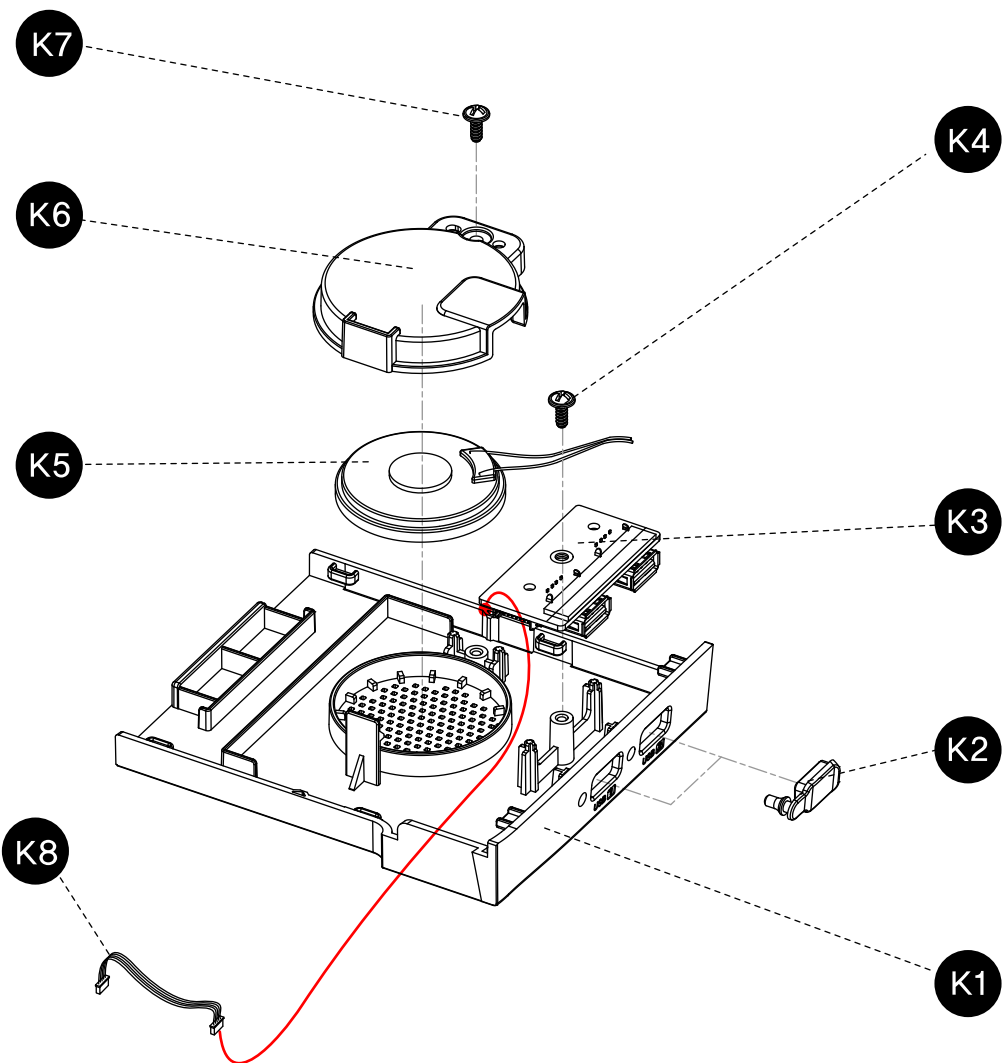
System Block

Mainboard Overview

Exploded View

System Structure
03. Exploded View

COVER SPEAKER



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
K1	JK72-20512A	PMO-COVER SPEAKER	1	Y	
K2	JK73-11040A	RMO-COVER USB	2	Y	
K3		MEC-USB BOARD	1	Y	
K4	S600200006A	SCREW-TAPPING:PWH,M3,L8	1	Y	
K5	S3004000001	HW-UNIT-SPEAKER	1	Y	
K6	JK72-20542A	PMO-HOLDER SPEAKER	1	Y	
K7	S600200006A	SCREW-TAPPING:PWH,M3,L8	1	Y	
K8	JK39-40870A	HW-HARNESS USB	1	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

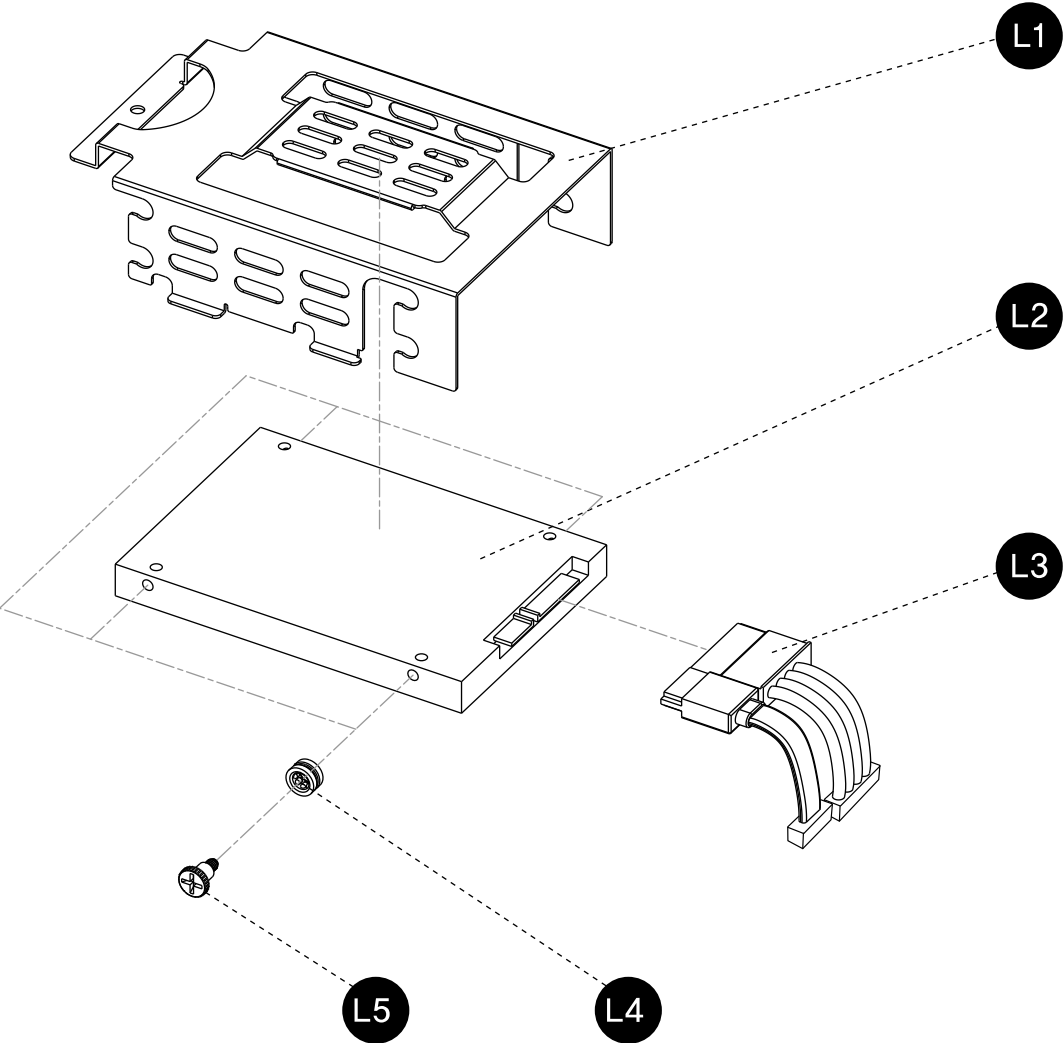
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

HDD ASSY



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
L1	JK70-20210A	IPR-BRKT HDD	1	Y	
L2	JK50-00002B	UNIT-HDD	1	Y	OPTION
L3	S39090001A	HARNESS-SATA	1	Y	OPTION
L4	JK73-11017A	RMO-RUBBER INSULATOR	4	Y	OPTION
L5	S600100036A	SCREW-MACHINE HAND:M3,L4,HD8	4	Y	OPTION

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

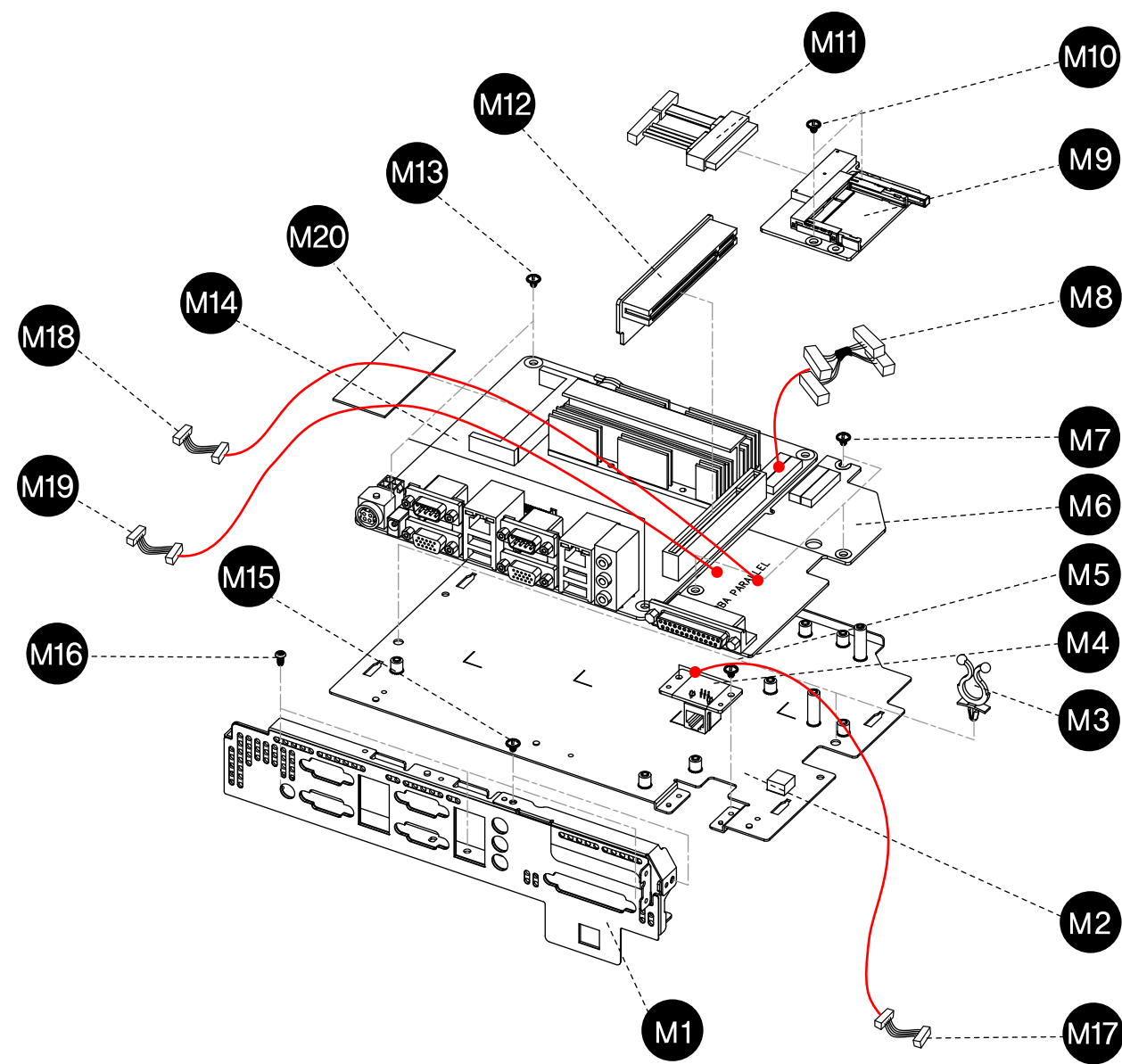
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

BRKT MAIN



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
M1	JK95-70509A	ASSY-BRKT INTERFACE	1	Y	
M2	JK95-70510A	ASSY-BRKT MAIN	1	Y	
M3	JK73-11042A	WIRE HOLDER	2	Y	
M4	JK92-10002E	HW-DRAWER BOARD	1	Y	
M5	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
M6	JK92-10001A	HW-PARALLEL BOARD	1	Y	
M7	S600100016A	SCREW-MACHINE:PWH,M3,L4	4	Y	
M8	S390800004A	HW-HARNESS IDE	1	Y	
M9	JK92-10011A	HW-CFAST BOARD	1	Y	OPTION
M10	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	OPTION
M11	S39090001A	HARNESS-SATA	1	Y	OPTION
M12	JK92-10732A	HW-RAISER BOARD	1	Y	OPTION
M13	S600100016A	SCREW-MACHINE:PWH,M3,L4	3	Y	
M14	JK95-70441A	HW-MOTHER BOARD	1	Y	
M15	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
M16	S600100031A	SCREW-MACHINE:FH,M3,L4	3	Y	
M17	JK39-40871A	HW-HARNESS DRAWER	1	Y	
M18	JK39-40824A	HW-HARNESS SPK JOIN	1	Y	
M19	JK39-40880A	HW-HARNESS LPT	1	Y	
M20	JK95-70215A	HW-DDR3 2G RAM	1	Y	OPTION

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

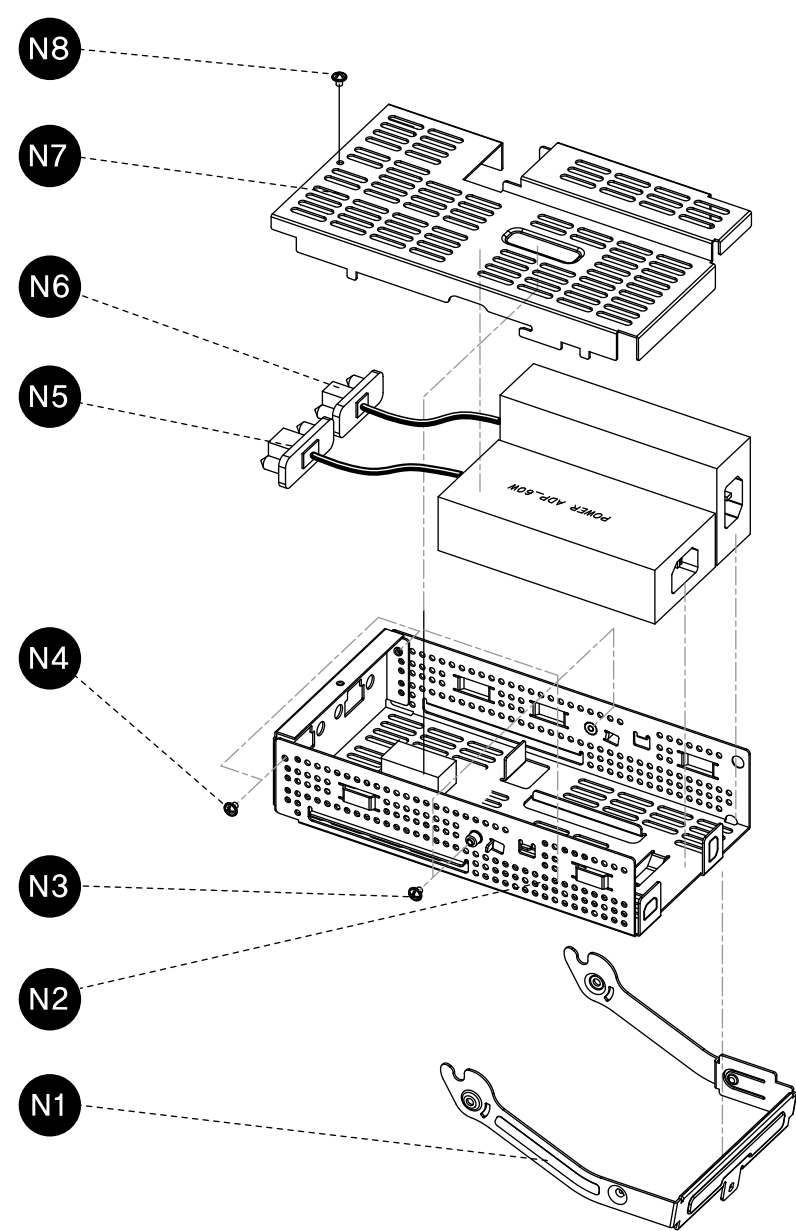
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

POWER



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
N1	JK70-20208A	IPR-BRKT POWER HANDLE	1	Y	
N2	JK95-70511A	ASSY-BRKT POWER BOTTOM (60W)	1	Y	OPTION
	JK95-70523A	ASSY-BRKT POWER BOTTOM (80W)			
N3	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
N4	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
N5	JK95-70424A	HW-MAIN POWER(60W)	1	Y	OPTION
	JK95-70425A	HW-MAIN POWER(80W)			
N6	JK95-70427A	HW-PRINTER POWER(60W)	1	Y	
N7	JK95-70512A	ASSY-BRKT POWER TOP (60W)	1	Y	OPTION
	JK95-70522A	ASSY-BRKT POWER TOP (80W)			
N8	S600100016A	SCREW-MACHINE:PWH,M3,L4	1	Y	

SPT-7000

- Introduction ▶
- System Installation ▶
- System Use ▶
- System Expansion & Dismantle ▶

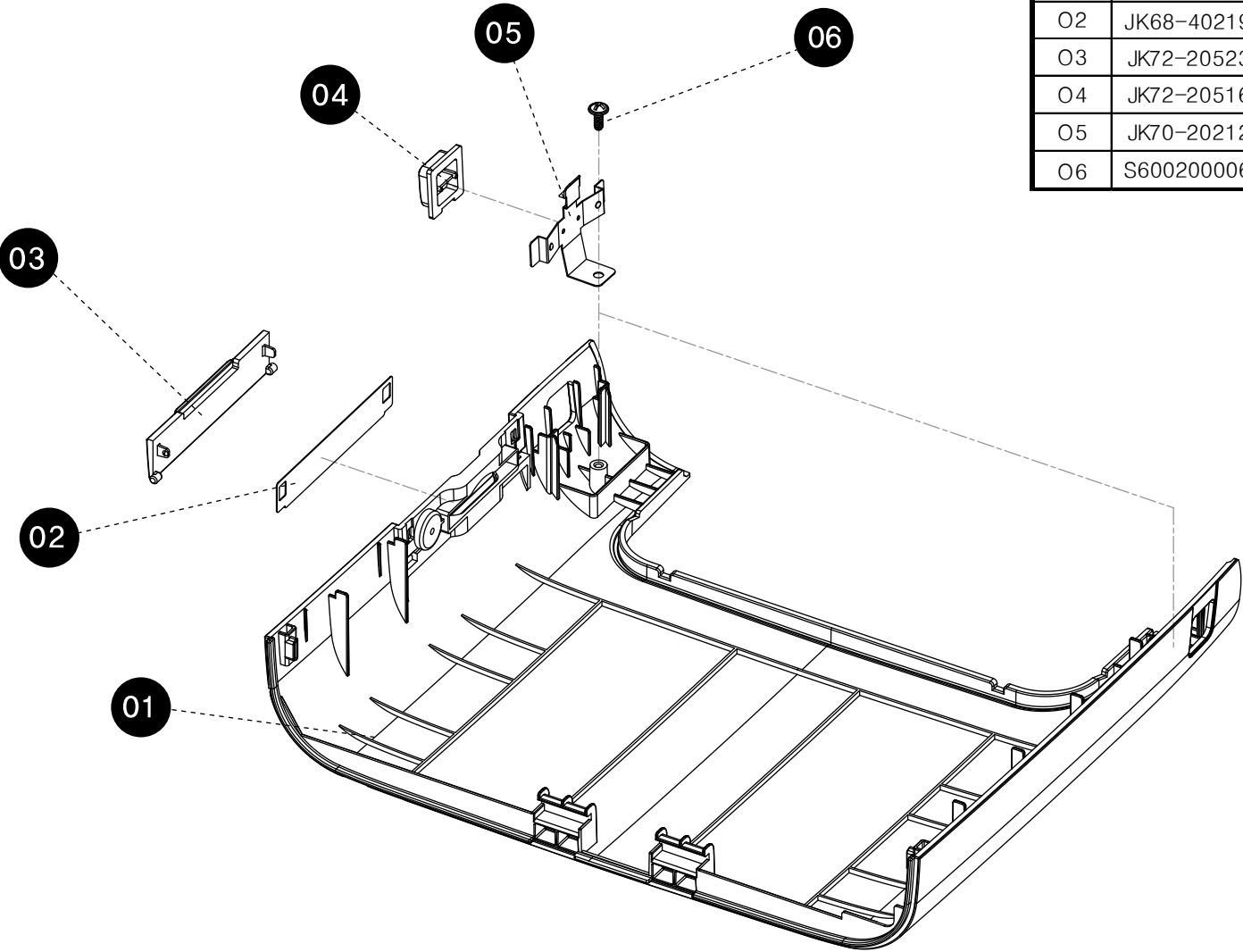
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

COVER REAR



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
O1	JK72-20557A	PMO-COVER REAR	1	Y	
O2	JK68-40219A	LABEL(R)-CFAST	1	Y	
O3	JK72-20523A	PMO-COVER CF	1	Y	
O4	JK72-20516A	PMO-LOCK BUTTON	2	Y	
O5	JK70-20212A	IPR-BRKT BUTTON	2	Y	
O6	S600200006A	SCREW-TAPPING:PWH,2,M3,L8	2	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

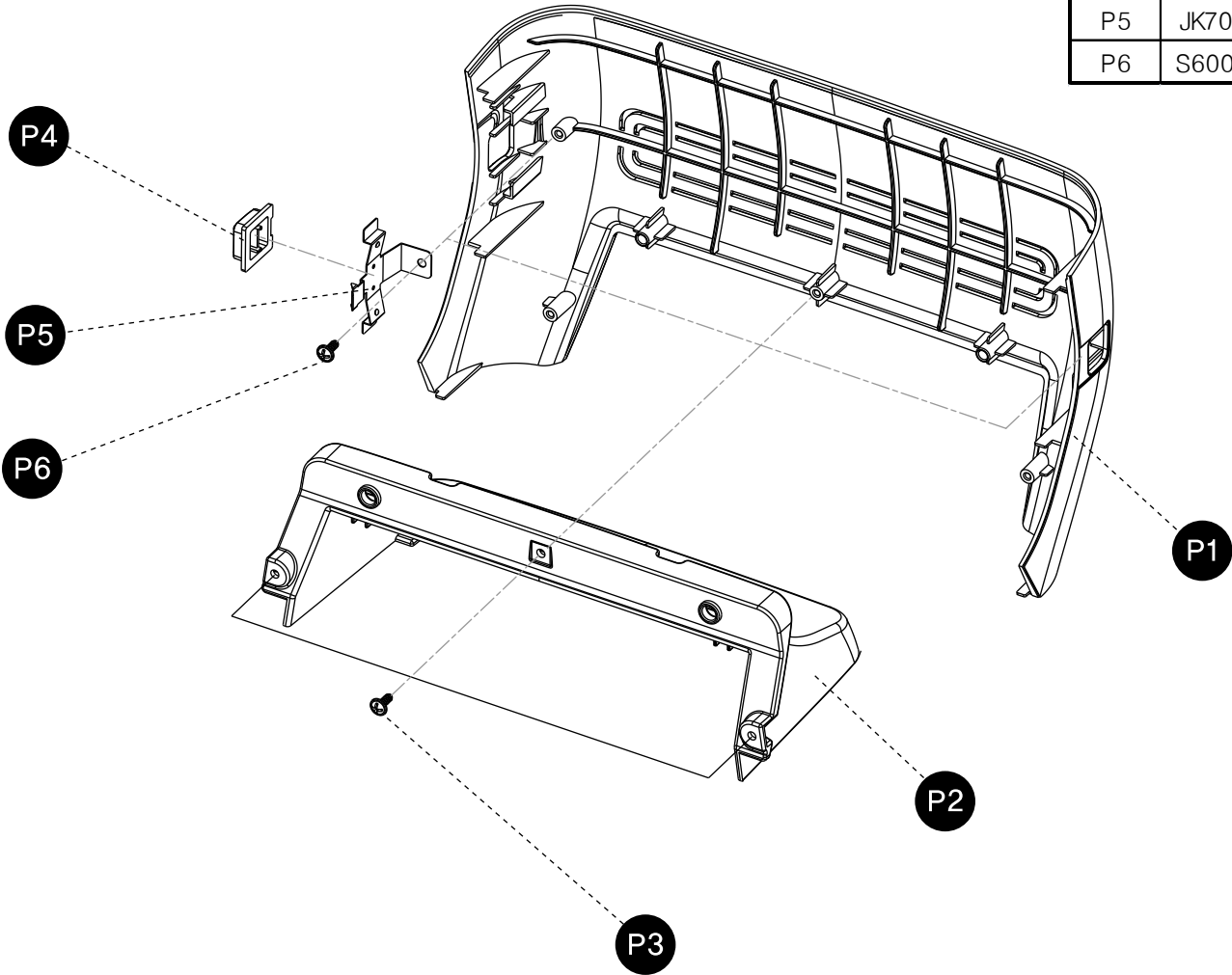
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

COVER BOTTOM



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
P1	JK72-20526A	PMO-COVER BOTTOM	1	Y	
P2	JK72-20525A	PMO-COVER WIRE	1	Y	
P3	S600200006A	SCREW-TAPPING:PWH,2,M3,L8	3	Y	
P4	JK72-20516A	PMO-LOCK BUTTON	2	Y	
P5	JK70-20212A	IPR-BRKT BUTTON	2	Y	
P6	S600200006A	SCREW-TAPPING:PWH,2,M3,L8	2	Y	

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

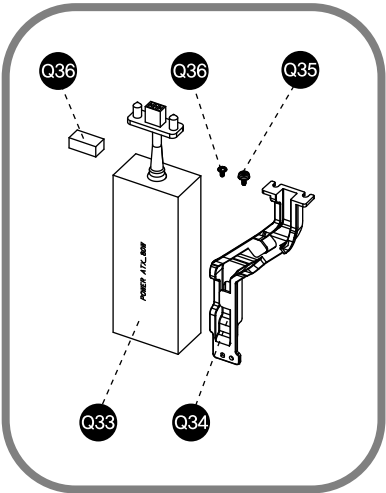
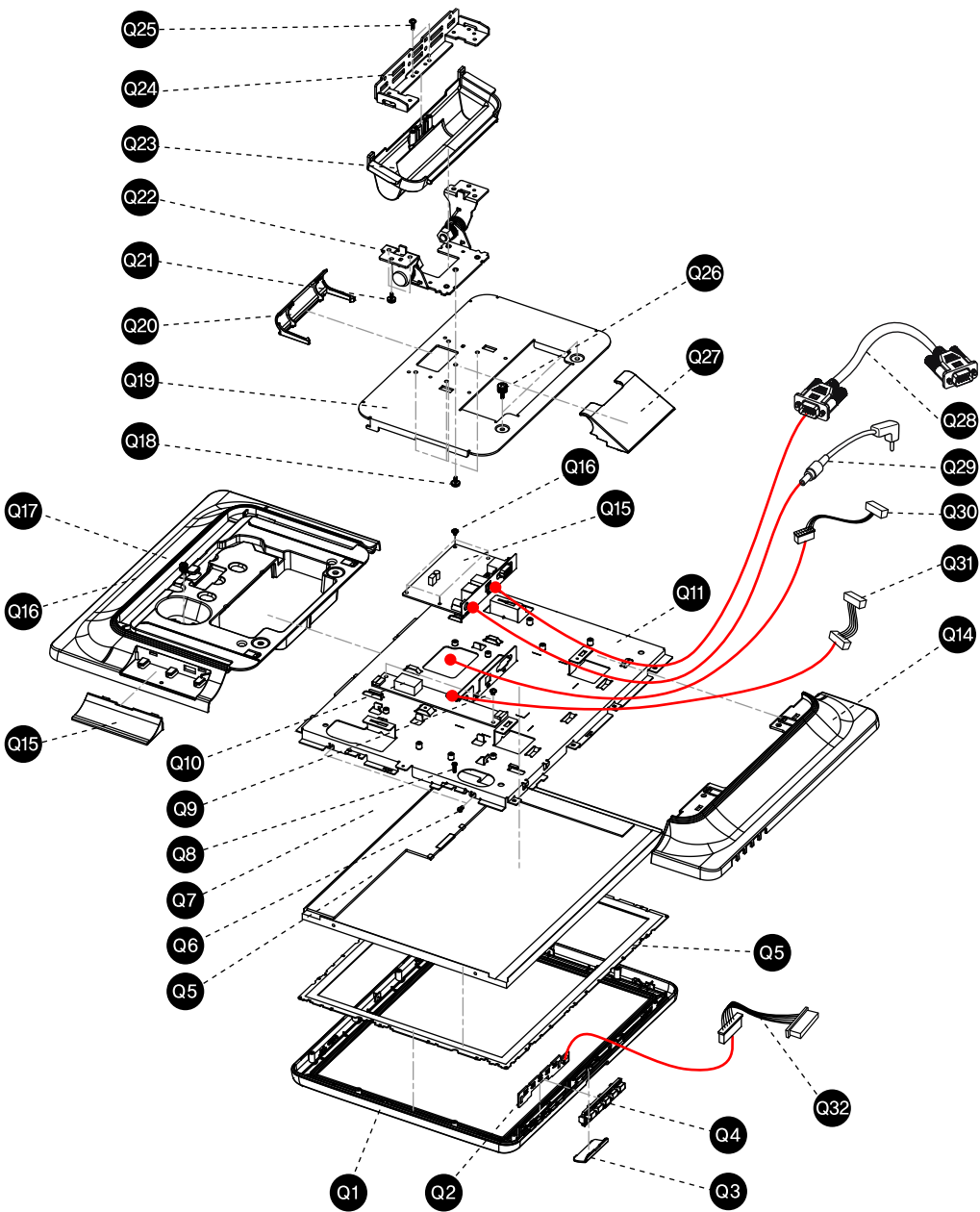
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
- Mainboard Overview
- Exploded View

System Structure
03. Exploded View

OPTION DUAL



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
Q	QCD-S7L15NB	OPTION 15"DUAL	1	Y	OPTION
Q1	JK72-20544A	PMO-FRONT DISPLAY	1	Y	
Q2	JK92-01736A	HW-DUAL OSD BOARD	1	Y	
Q3	JK72-20551A	PMO-BRAND FRONT	1	Y	OPTION
Q4	JK72-20547A	PMO-BUTTON	1	Y	
Q5	JK73-20015A	RMO-WATER PROOF	1	Y	
Q6	JK07-00014A	HW-LCD-TFT	1	Y	
Q7	S600100044A	SCREW-MACHINE:PH,M3,L5	4	Y	
Q8	S600300020A	SCREW-TAPTITE:BH,M3,L10	12	Y	
Q9	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
Q10	S4401001171	HW-INVATER MODULE	1	Y	
Q11	JK95-70431A	ASSY-BRKT DISPLAY DUAL	1	Y	
Q12	JK97-00016B	HW-UNIT AD BOARD	1	Y	
Q13	S600100016A	SCREW-MACHINE:PWH,M3,L4	4	Y	
Q14	JK72-20546B	PMO-REAR BOTTOM	1	Y	
Q15	JK72-20552A	PMO-DUMMY MSR	1	Y	OPTION
Q16	JK72-20545A	PMO-REAR TOP	1	Y	
Q17	S600100036A	SCREW-MACHINE HAND M3,L6	1	Y	
Q18	S600600005A	SCREW-ASS'Y TAPTITE:BH,M4,L8	5	Y	
Q19	JK70-20215B	IPR-PLATE REAR	1	Y	
Q20	JK72-20548A	PMO-HINGE TOP	1	Y	
Q21	S600600005A	SCREW-ASS'Y TAPTITE:BH,M4,L8	6	Y	
Q22	JK75-40014A	MEC-HINGE ASS'Y	1	Y	
Q23	JK72-20550A	PMO-HOLDER DUAL	1	Y	
Q24	JK70-20216A	IPR-BRKT HINGE	1	Y	
Q25	S600200005A	SCREW-TAPPING:PWH,M3,L10	2	Y	
Q26	S600100056A	SCREW-MACHINE HAND M3,L10	2	Y	
Q27	JK72-20549A	PMO-HINGE BOTTOM	1	Y	
Q28	JK39-40792B	HW-HARNESS-VGA CABLE	1	Y	
Q29	JK39-40791A	HW-HARNESS-LCD POWER	1	Y	
Q30	JK39-40798A	HW-HARNESS-LVDS	1	Y	
Q31	JK39-40797A	HW-HARNESS-INVERTER	1	Y	
Q32	JK39-40876A	HW-HARNESS-DUAL OSD	1	Y	
OPTION BOX					
Q33	JK95-70425A	HW-MAIN POWER(80W)	1	Y	OPTION
Q34	JK72-20528A	PMO-HOLDER CABLE	1	Y	
Q35	S600600005A	SCREW-ASS'Y TAPTITE:BH,M4,L8	4	Y	
Q36	S600100017A	SCREW-MACHINE:PWH,M3,L6	1	Y	
Q37	JK73-11053A	RMO-PAD POWER 80W	2	Y	OPTION

SPT-7000

- Introduction
- System Installation
- System Use
- System Expansion & Dismantle

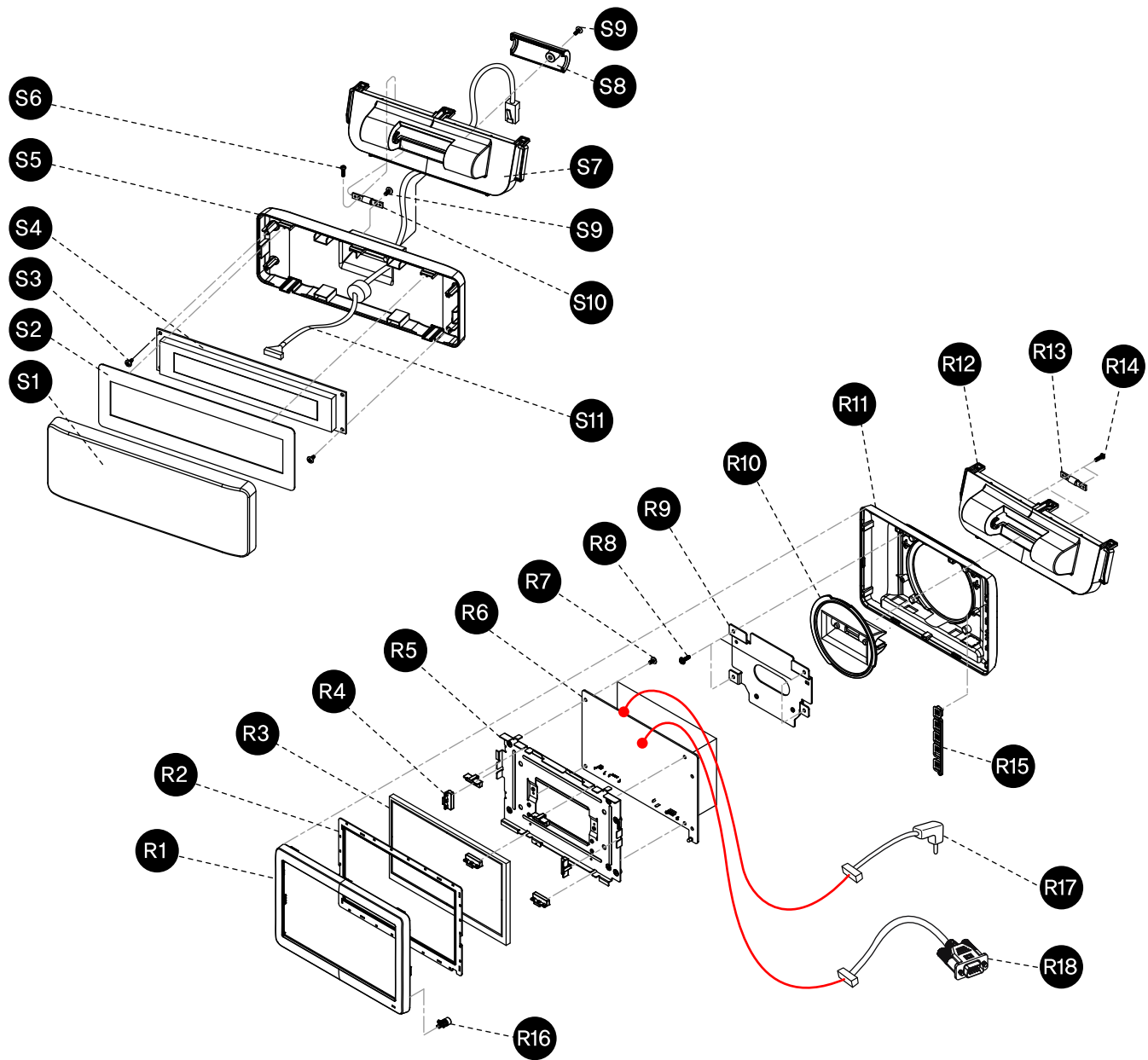
Appendix A
System Set-Up

Appendix B
System Structure

- System Block
Mainboard Overview
- Exploded View

System Structure
03. Exploded View

OPTION CDP 7INCH



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
S	QCD-S4V202	OPTION-CDP (CHARACTER)	1	N	OPTION
	QCD-S4G256	OPTION-CDP (GRAPHIC)			
S1	JK72-20299A	PMO-WINDOW VFD	1	Y	
S2	JK68-40120A	LABEL(R)-VFD SHEET	1	Y	
S3	S600300020A	SCREW-TAPTITE	2	Y	
S4	JK46-00006A	UNIT-VFD MODULE (CHARACTER)	1	Y	
	JK46-00007A	UNIT-VFD MODULE (GRAPHIC)			
S5	JK72-20298A	PMO-REAR VFD(M)	1	Y	
S6	S600300020A	SCREW-TAPTITE	1	Y	
S7	JK72-20595A	PMO-HOLDER VFD	1	Y	
S8	JK72-20300A	PMO-REAR VFD DUMMY	1	Y	
S9	S600300020A	SCREW-TAPTITE	1	Y	
S10	JK75-40004A	MEC-HINGE ASSY	1	Y	
S11	JK39-40727A	HARNESS-POLE	1	Y	

NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
R	QCD-S7L7NB	OPTION 7" DUAL	1	Y	OPTION
R1	JK72-20592A	PMO-LCD FRONT	1	Y	
R2	JK73-20016A	RMO-WATER PROOF(P)	1	Y	
R3	JK07-00023A	HW-DISPLAY-LCD	1	Y	
R4	JK73-11043A	RMO-RUBBER LCD	6	Y	
R5	JK70-20238A	IPR-BRKT LCD	1	Y	
R6	JK49-00003C	HW-7INCH AD B'D	1	Y	
R7	S600100016A	SCREW-MACHINE	4	Y	
R8	S600200006A	SCREW-TAPPING	4	Y	
R9	JK70-20240A	IPR-PLATE REAR(P)	1	Y	
R10	JK72-20596A	PMO-HOLDER HINGE(D)	1	Y	
R11	JK72-20593B	PMO-LCD REAR	1	Y	
R12	JK72-20595A	PMO-HOLDER VFD	1	Y	
R13	JK75-40004A	MEC-HINGE ASS'Y	2	Y	
R14	S600300020A	SCREW-TAPTITE	4	Y	
R15	JK72-20594A	PMO-BUTTON(P)	1	Y	
R16	JK72-20600A	PMO-COVER LED(P)	1	Y	
R17	JK39-60085A	HW-HARNESS-POWER	1	Y	
R18	JK39-60086A	HW-HARNESS-VGA CABLE	1	Y	