

POS System Electronic Manuals SPT — 3700 series

This manual consists of system introduction, system expansion and appendix A/B



Guideline of POS e-manuals

e-Manual SPT-3700

- System Introduction
- System Installation
- System Utilization
- System Expansion
- Appendix A
BIOS Set up
- Appendix B
System Configuration

End manual
This button will close the manual. Acrobat Reader will remain open until closed separately or enter (CTRL)+(Q) to end both.

You can print.

You can get advice about the manual.

You can see a Table of Contents list.

You can turn back to the first page.

You can move on to each chapter by clicking them.

Move on to next page

Page Number

Move on to previous page

Electronic Manuals

SPT-3700series

PDF electronic manual consists of system introduction, system installation, system utilizing, system expansion, appendix A(BIOS set up), appendix B(System configuration)

LIST

e-Manual SPT-3700	e-Manual SPT-3700	e-Manual SPT-3700	e-Manual SPT-3700	e-Manual SPT-3700	e-Manual SPT-3700
System Introduction	System Installation	System Utilization	System Expansion	Appendix A BIOS Set up	Appendix B System Configuration
<ul style="list-style-type: none"> Intro > Safety Notices Before Installation or Use Contents System features Specification(Options) Name and Function of Each Component 	<ul style="list-style-type: none"> Remove The Cable Cover > Remove Cable Tidy Dummy Keyboard/Mouse Connection Printer Connection Serial Ports Connection RJ-11 Cash Drawer Connection RJ-45 LAN Cable Connection USB Connection DC Power Connection 	<ul style="list-style-type: none"> Use of Touch Screen > POS Driver and Utility Introduction Use of Dual Monitors 	<ul style="list-style-type: none"> System Disassembly > System Reassemble Upgrading Memory Module HDD Replacement MSR Removal Internal Speaker Removal Touch MSR Board Removal LED Board Removal LPT Board Removal Joint Harness Removal I/O Extension Board Removal Main Board Removal Touch Panel Removal LCD Panel Removal 	<ul style="list-style-type: none"> Understanding BIOS Set Up > Main Menu Advanced Menu Chipset Menu(Host Bridge) Chipset Menu(South Bridge) Boot Menu Security Menu Save & Exit Menu 	<ul style="list-style-type: none"> System Block Diagram > Main Board Configuration A Deal Drawing

e-Manual
SPT-3700

System Introduction

Intro >

Safety Notices Before
Installation or Use

Contents

System features

Specification(Options)

Name and
Function of Each Component

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

PART 1. System Introduction

01. Intro

- This manual provides technical information about the circuits, components and construction of the SAM4S POS System SPT-3700.
- The contents of this mamnual may be changed without prior notice.
- Images and contents of this manual may not be copied without permission.
- Please notice that product damages from the use of non-standard components or mishandling cannot be compensated .
- The copyright of the manuals belongs to SHC.
- If you have any question, please contact your dealer.

[Guideline for users]

Class-A equipment (Broadcast/telecommunication equipment for business)

This product is registered for conformity of electromagnetic wave. Please be advised that this product be used out of home.

[Broadcasting communication certification mark]

Product name(model name) : POS system(SPT-3700)

Certification number : EMC-CE-3295 / EMC-FCC-1636

Company name : Shin Heung Precision Co., Ltd

Manufacturer/Country : Shin Heung Precision Co., Ltd/Republic of Korea

PART 1. System Introduction

01. Intro

Warning messages and symbols

- Warning messages are expressed by several symbols in this manuals. Warning messages are imperative sentences as below.



This symbol means there may be a risk of serious injury if not used properly.



This symbol means that there may be risk of damage or injury if not used properly.



This symbol means that there may be a risk of minor injury or damage if not used properly.



This symbol highlights important information.

PART 1. System Introduction

02. Safety Notices Before Installation or Use

- Read these cautions to avoid damage or injury.



Cautions!

Keep rated voltage.

The product can be damaged or burned by overvoltage.

Do not use damaged components.

The product may be damaged unless it is repaired at service center.

Install the product in a clean and dry place.

The product may not work properly in moist or dusty environments.

Always copy important files.

Always copy important files because data loss cannot be guaranteed by manufacturer.

Turn off the system and remove the power cable before the product is removed.

You may get an electric shock.

Do not use loose or damaged power cables.

There may be electric shock or fire.

Always connect power cable to a grounded 3-wire outlet.

It prevents electric shock from electrical short.

Install the product at an airy place.

The product may be transformed or burned by overheating if air vent is blocked.

Use multi consent which is only for computers.

There may be fire caused by overvoltage.

Use the cleaner which is only for computer.

Do not use benzene, thinner and alcohol or the product may be damaged.

Keep the product away from heaters.

The product may be damaged, overheated or burned.

Turn on the system after turning on peripheral device. Turn off peripheral device after turn off the system.

The product may be damaged.

Install the product in a safe, stable place.

The product may be damaged or you may get injured if the product is dropped.

Keep the product away from magnetic materials.

The contents of HDD may be erased or the electronic components may be damaged.

Carefully store or dispose of plastic packing material .

It is dangerous if children put their head on it.

Do not touch the power plug with wet hands.

You may get an electric shock.

Do not touch modem, telephone line or exposed terminal during electrical storms.

There may be electric shock or fire.

Upgrade the system after shutting off the power of system and its peripheral device.

The product may be damaged.

PART 1. System Introduction

03. Contents

e-Manual
SPT-3700

System Introduction

- Intro
- Safety Notices Before Installation or Use
- Contents** >
- System features
- Specification(Options)
- Name and Function of Each Component

System Installation

System Utilization

System Expansion

Appendix A BIOS Set up

Appendix B System Configuration



<Main body>



<Mouse/Mouse pad(option)>



<Keyboard(option)>



<Quick manuals>



<Magnetic DALLAS(option)>



<Power Cable/Adaptor>

System Introduction

Intro

Safety Notices Before
Installation or Use

Contents

System features

Specification(Options)

Name and
Function of Each Component

System Installation

System Utilization

System Expansion

Appendix A
BIOS Set upAppendix B
System Configuration

PART 1. System Introduction

04. System Features

System Introduction

- This product has passed rigorous quality testing.
- This product has a sophisticated design to arrange power and peripheral cables neatly and safely in any environment.
- The all-in-one design incorporates the touch screen, credit card reader, smart card reader and various customer displays for clean and simple installations.
- It is convenient to change Hard disk and memory.
- It offers basic supports like OS restore, anti-virus vaccine.

System Features

- 15" TFT LCD Touch Screen
- MSR(Magnetic Stripe Reader) (Option)
- Wall Mount Bracket (Option)
- All-in-One 15" or 7" or VFD Customer Display (Option)
- Fingerprinter Reader (Option)
- Cfast module (Option)

PART 1. System Introduction

05. System Specification(Options)

Optional Specifications

Magnetic Swipe Reader(MSR)	Read Track: ISO track 1,2,3 Interface: Internal USB Performance: 10~150CM/Sec Head Reliability: 500,000 times Error rate: Less than 0.5%
Wall Mount	The device for attaching SPT-3700 on the wall
DALLAS Key	Magnet Type
Customer display	VFD : 5 x 7 Dot 20 x 2 Character type 256 x 32 Graphic type LCD : 7" (17.78cm) 800 x 480 16:9 type 15" (38.1cm) 1024 x 768 4:3 type

e-Manual
SPT-3700

System Introduction

- Intro
- Safety Notices Before Installation or Use
- Contents
- System features
- Specification(Options) >**
- Name and Function of Each Component

System Installation

System Utilization

System Expansion

Appendix A
BIOS Set up

Appendix B
System Configuration

PART 1. System Introduction

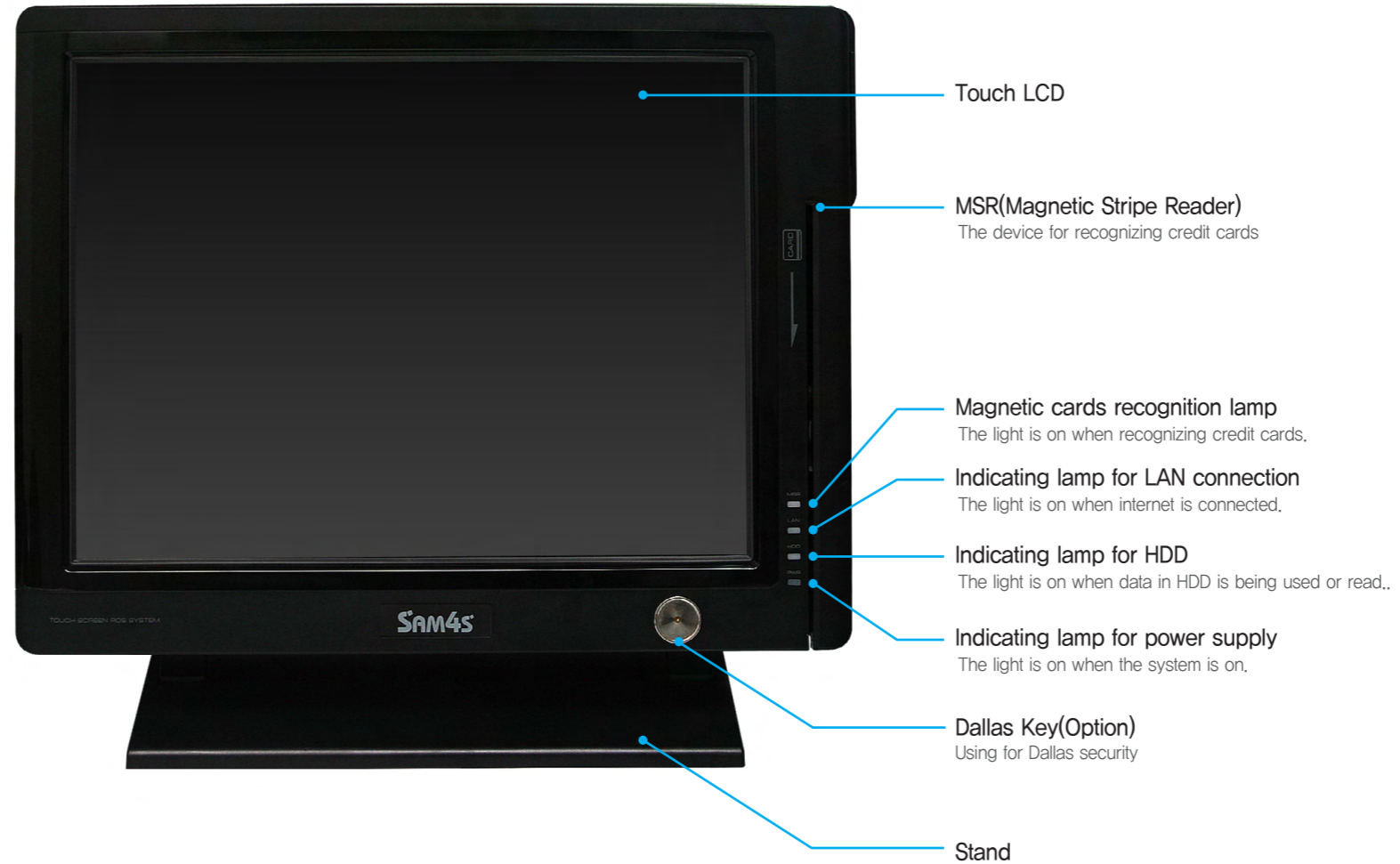
06. Name and Function of Each Component

Front View

e-Manual
SPT-3700

System Introduction

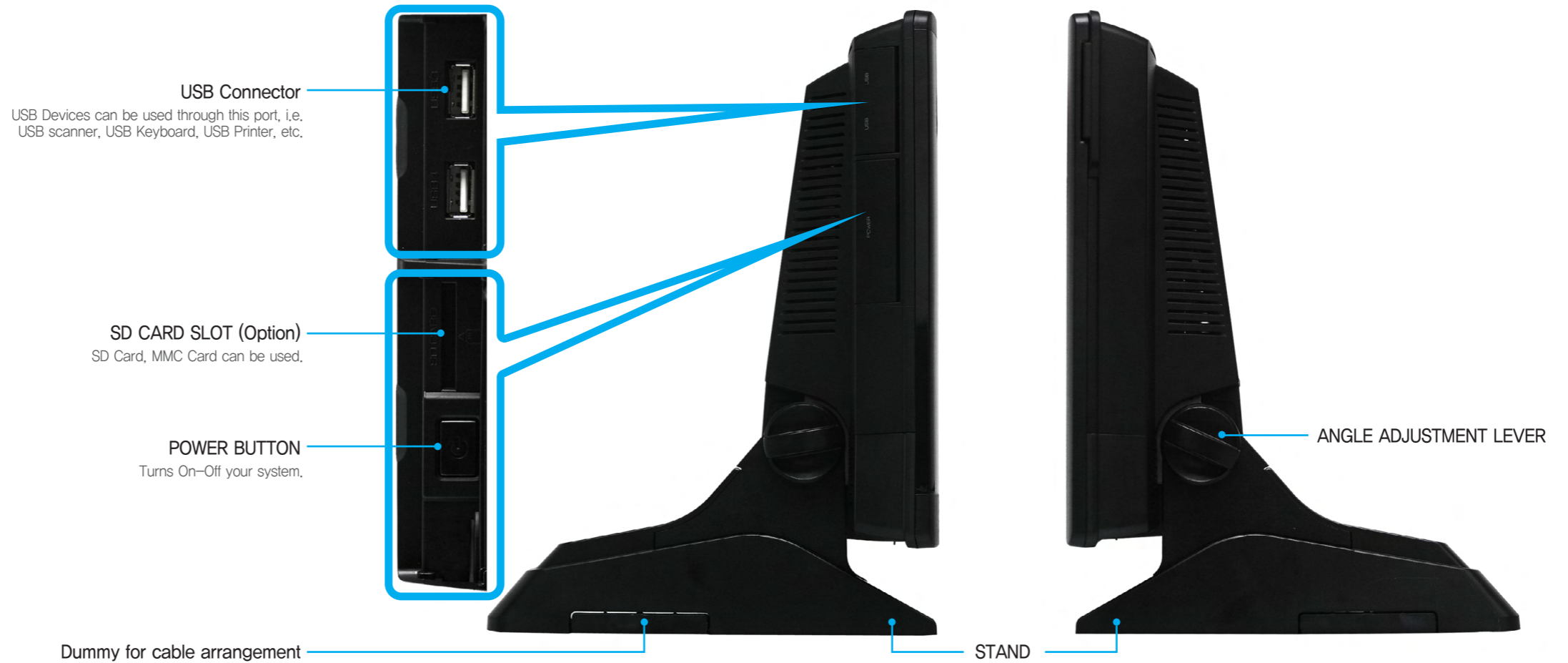
- Intro
- Safety Notices Before Installation or Use
- Contents
- System features
- Specification(Options)
- Name and Function of Each Component**
- System Installation
- System Utilization
- System Expansion
- Appendix A
BIOS Set up
- Appendix B
System Configuration



PART 1. System Introduction

06. Name and Function of Each Component

Side View



e-Manual
SPT-3700

System Introduction

- Intro
- Safety Notices Before Installation or Use
- Contents
- System features
- Specification(Options)
- Name and Function of Each Component** ▶

System Installation

System Utilization

System Expansion

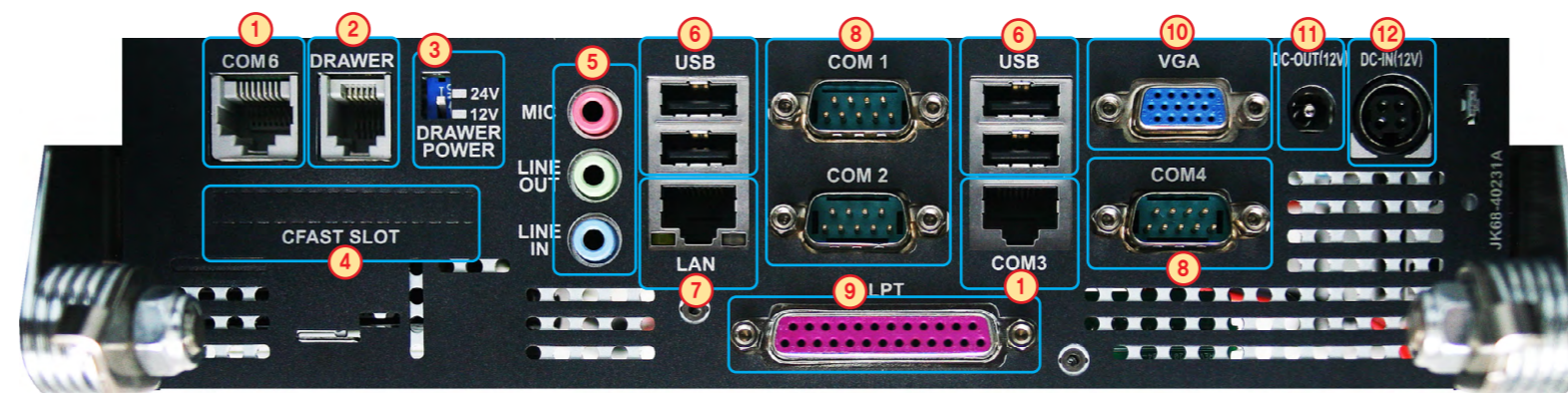
Appendix A
BIOS Set up

Appendix B
System Configuration

PART 1. System Introduction

06. Name and Function of Each Component

1 / 0



1. RJ-45 8pin COM(Serial) Port (CDP sharing COM6)
2. RJ-45 6pin Cash Drawer port
3. Setting switch of Cash drawer voltage. Select 12V or 24V(Factory status)
4. Cfast memory slot (option)
5. Audio port (Line-in / Line-out/ Mike-in)
6. USB 2.0 port
7. RJ-45 LAN (ETHERNET) port
8. D-SUB 9pin COM (Serial) port
9. D-SUB 25pin printer (LPT) port
10. D-SUB 15pin VGA port
11. 2.5φ 12V DC Output (for Rear display)
12. DIN 4pin 12V DC Input (Input power connection)

e-Manual SPT-3700

System Introduction

Intro

Safety Notices Before
Installation or Use

Contents

System features

Specification(Options)

Name and
Function of Each Component

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

PART 1. System Introduction

06. Name and Function of Each Component

e-Manual
SPT-3700

System Introduction

- Intro
- Safety Notices Before Installation or Use
- Contents
- System features
- Specification(Options)
- Name and Function of Each Component**

- System Installation
- System Utilization
- System Expansion
- Appendix A
BIOS Set up
- Appendix B
System Configuration

Rear View

7Inch Display or CDP(option)
It shows advertisements or calculation.



CDP(all-in-one customer display) – option



e-Manual
SPT-3700

System Introduction

System Installation

Remove The Cable Cover >

Remove Cable Tidy Dummy

Keyboard/Mouse Connection

Printer Connection

Serial Ports Connection

RJ-11 Cash Drawer Connection

RJ-45 LAN Cable Connection

USB Connection

DC Power Connection

System Utilization

System Expansion

Appendix A

BIOS Set up

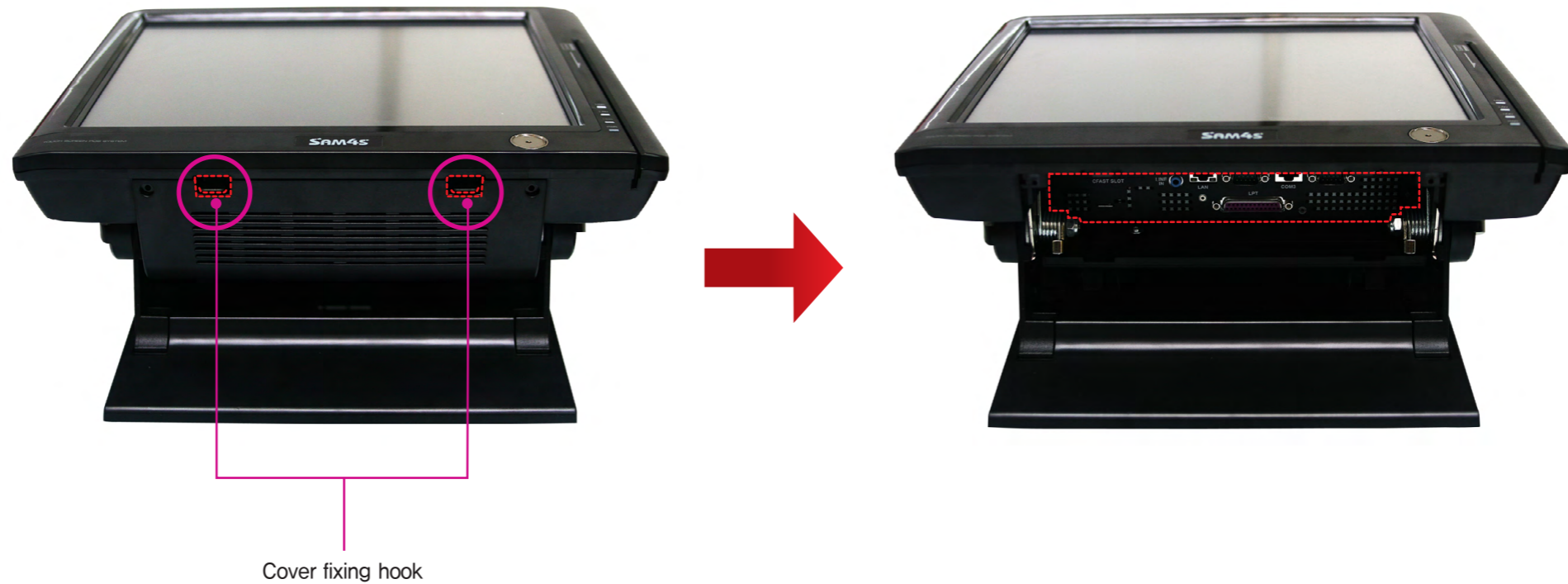
Appendix B

System Configuration

PART 2. System Installation

01. Remove The Cable Cover

1. Tilt its monitor back to see hooks fixing cable cover.
2. Push these hooks to remove the cover in order to see IO ports necessary for connecting peripherals.



e-Manual
SPT-3700

System Introduction

System Installation

Remove The Cable Cover

Remove Cable Tidy Dummy >

Keyboard/Mouse Connection

Printer Connection

Serial Ports Connection

RJ-11 Cash Drawer Connection

RJ-45 LAN Cable Connection

USB Connection

DC Power Connection

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

PART 2. System Installation

02. Remove Cable Tidy Dummy



* Remove the cable tidy dummy if necessary to route cables.
Remove dual monitor expansion cover for when a dual monitor is installed.

dual monitor expansion cover

Cable tidy dummy

PART 2. System Installation

03. Connecting Keyboard & Mouse

Connect USB type keyboard & mouse.



04. Connecting Printer

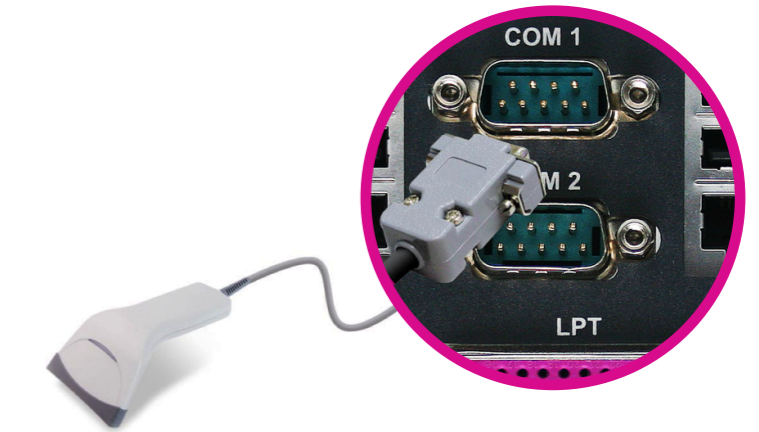
This system supports parallel, serial & USB interface printers. Connect the cable suitable to interface.



PART 2. System Installation

05. Connecting Serial Port Device Such as a Barcode Scanner

Connect a barcode scanner and serial interface device to the serial port.
 Each serial device a different specification of power supply.
 COM voltage can be set RI/5V/12V.
 Voltage setup can be done in BOIS, referring to Appendix A (BIOS set up).



<Barcode Scanner>

06. Connecting RJ-11 Cash Drawer

Use RJ-11 drawer port in system when Cash Drawer is needed.
 (Use SAM4S Cash Drawer).

Note! | Cash drawer has 12V/24V that you can choose by the switch.
 Refer to the setup method and name and function of each component on page B-7.
 You must check the used voltage of the cash drawer before connection.
 Cash drawer may not work or could be damaged if you connect it with different setup.



<Cash Drawer>

e-Manual
SPT-3700

System Introduction

System Installation

Remove The Cable Cover

Remove Cable Tidy Dummy

Keyboard/Mouse Connection

Printer Connection

Serial Ports Connection >

RJ-11 Cash Drawer Connection >

RJ-45 LAN Cable Connection

USB Connection

DC Power Connection

System Utilization

System Expansion

Appendix A

BIOS Set up

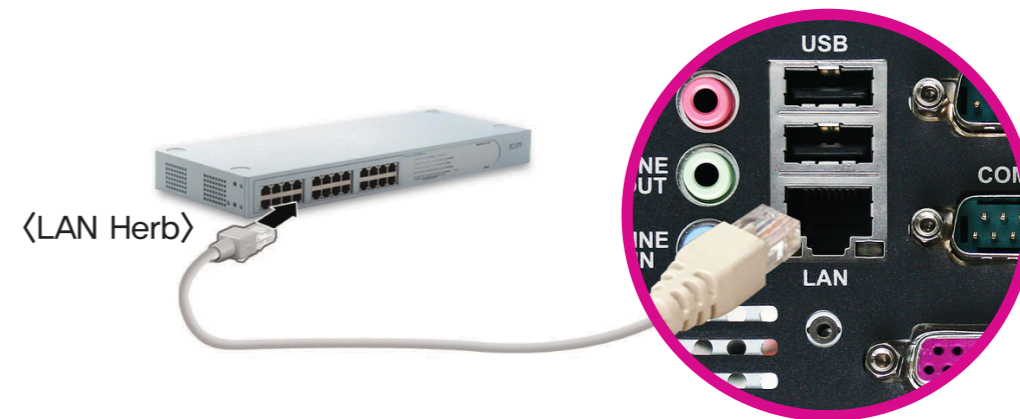
Appendix B

System Configuration

PART 2. System Installation

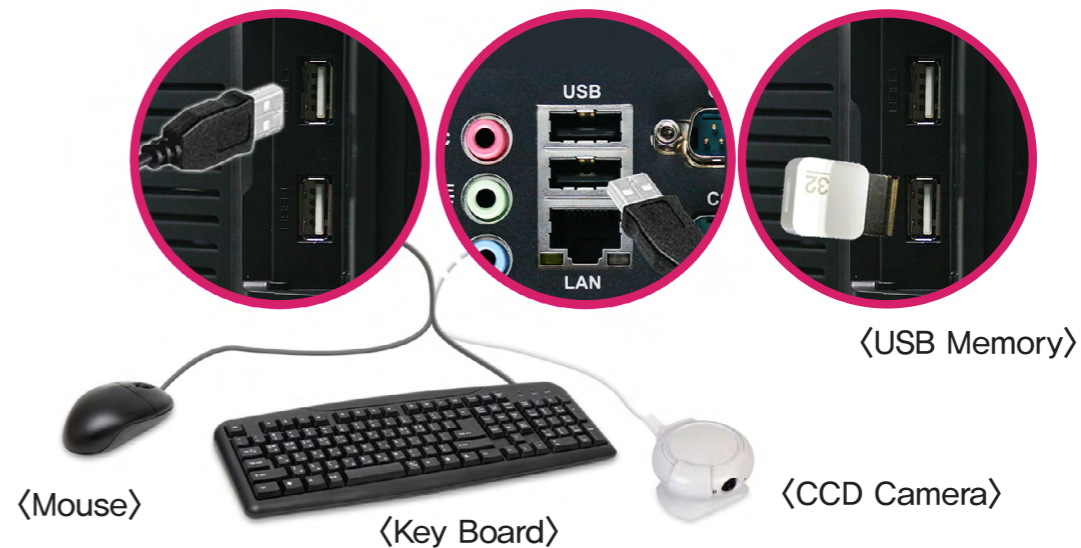
07. Connecting RJ-45 LAN Cable

Connect LAN cable to RJ-45 LAN port to use internet. It supports 100Mbps/1Gbps.



08. Connecting USB device

USB connectors are located on the side of the LCD panel and the connection panel located under the display. You can connect various USB devices such as keyboard, mouse, CCD camera, printer, etc. (Separate device drivers may be required.)



e-Manual
SPT-3700

System Introduction

System Installation

Remove The Cable Cover

Remove Cable Tidy Dummy

Keyboard/Mouse Connection

Printer Connection

Serial Ports Connection

RJ-11 Cash Drawer Connection

RJ-45 LAN Cable Connection >

USB Connection >

DC Power Connection

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

Remove The Cable Cover

Remove Cable Tidy Dummy

Keyboard/Mouse Connection

Printer Connection

Serial Ports Connection

RJ-11 Cash Drawer Connection

RJ-45 LAN Cable Connection

USB Connection

DC Power Connection >

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

PART 2. System Installation

09. Connecting DC Power Supply Cable

Connecting DC power supply cable to the bottom of system.
(Free Voltage system adapter is used. Both 100V and 220V can be used.)

**Cautions!**

- ▶ Adapter for this system should be only from SAM4S .
- ▶ SAM4S cannot be responsible for the damage caused by using other products except SAM4S.

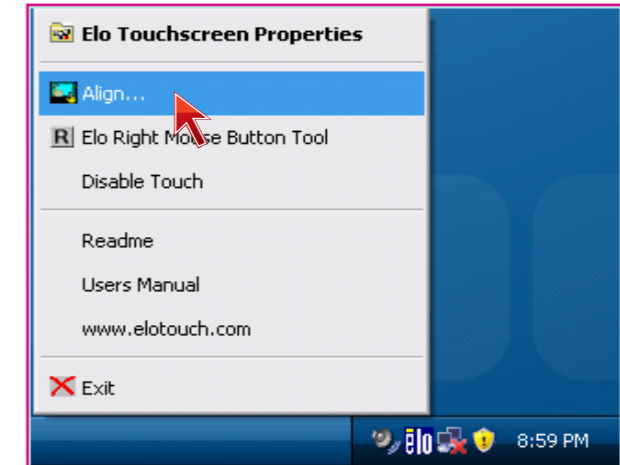


PART 3. System Utilization

01. Use of Touch Screen

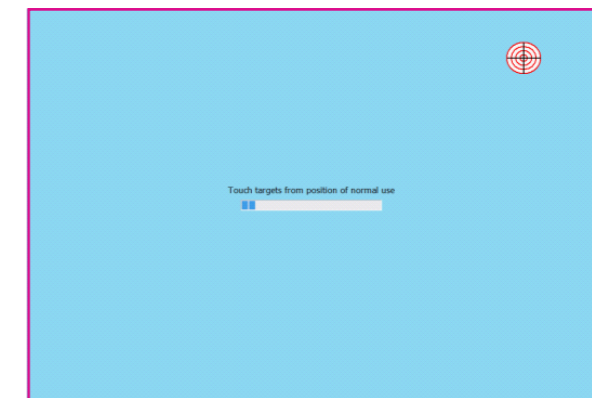
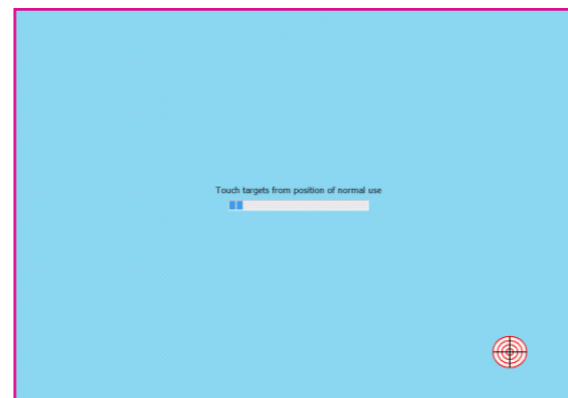
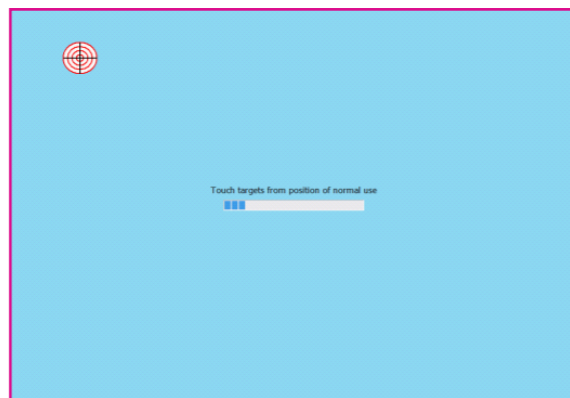
- Recalibrate if it is not accurate on touch points.

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 screed appears, touch the center of the red circle for 2 seconds and then remove your finger. Repeat the procedure if the red circle appears again.

Caution! | Ball point pens or sharp tools may damage the surface of the touch screen.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen >

POS Driver and
Utility Introduction

Use of Dual Monitors

System Expansion

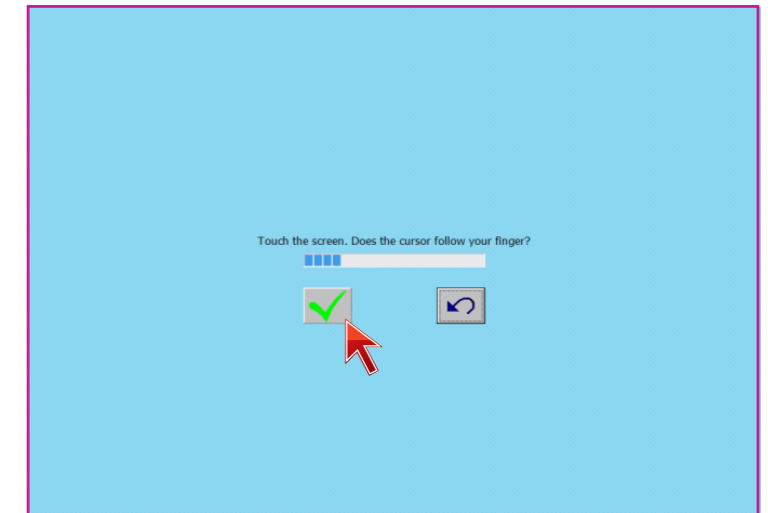
Appendix A
BIOS Set upAppendix B
System Configuration

PART 3. System Utilization

01. Use of Touch Screen

- 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 not needed when setting up Extended Screen Mode after connecting a dual monitor.
Recalibration is also not needed when changing to Single Screen Mode (LVDS only) while using Extended Screen Mode.

PART 3. System Utilization

02. POS Driver and Utility Intorduction

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

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

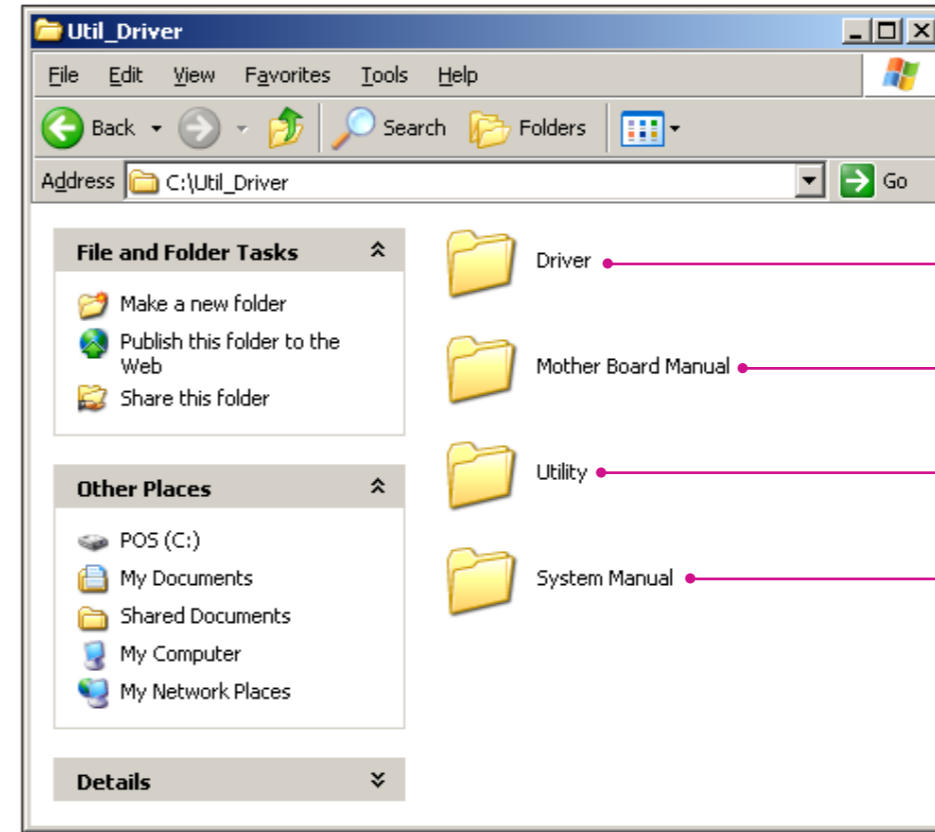
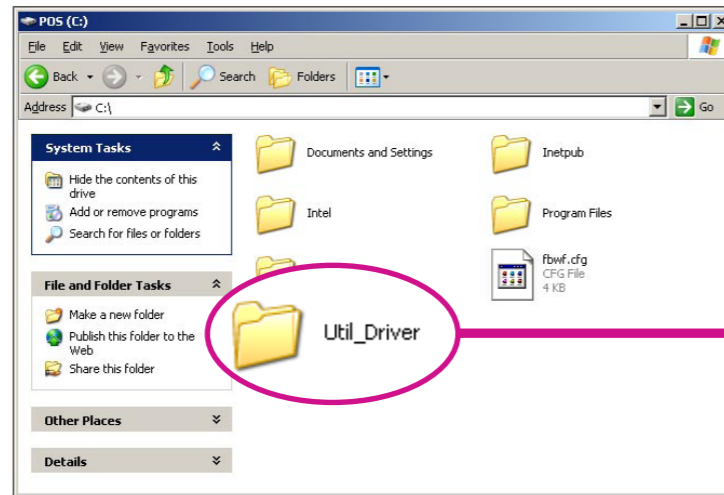
POS Driver and
Utility Introduction

Use of Dual Monitors

System Expansion

Appendix A
BIOS Set up

Appendix B
System Configuration

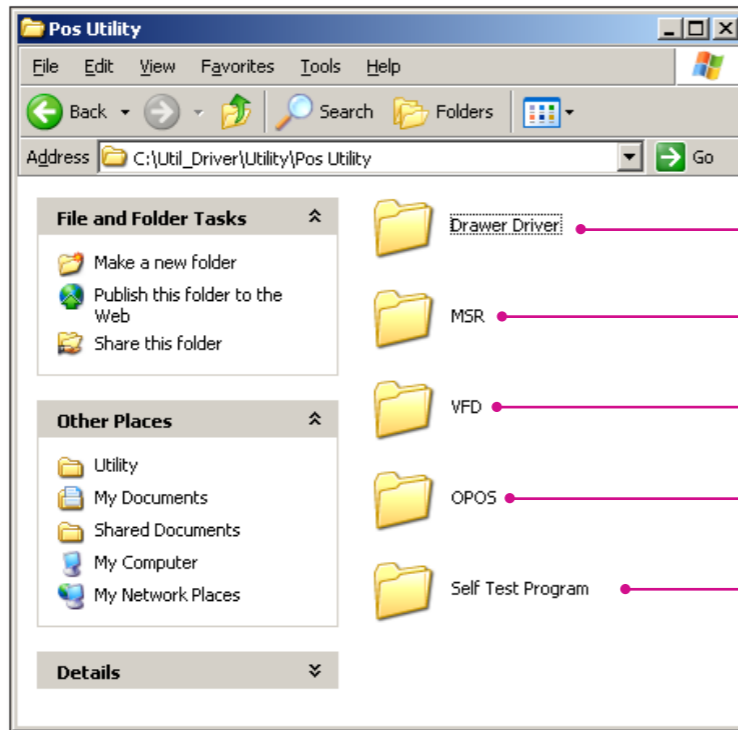


- Driver — Drivers
- Mother Board Manual — Mother Board Manual
- Utility — Utility
- System Manual — System Manual

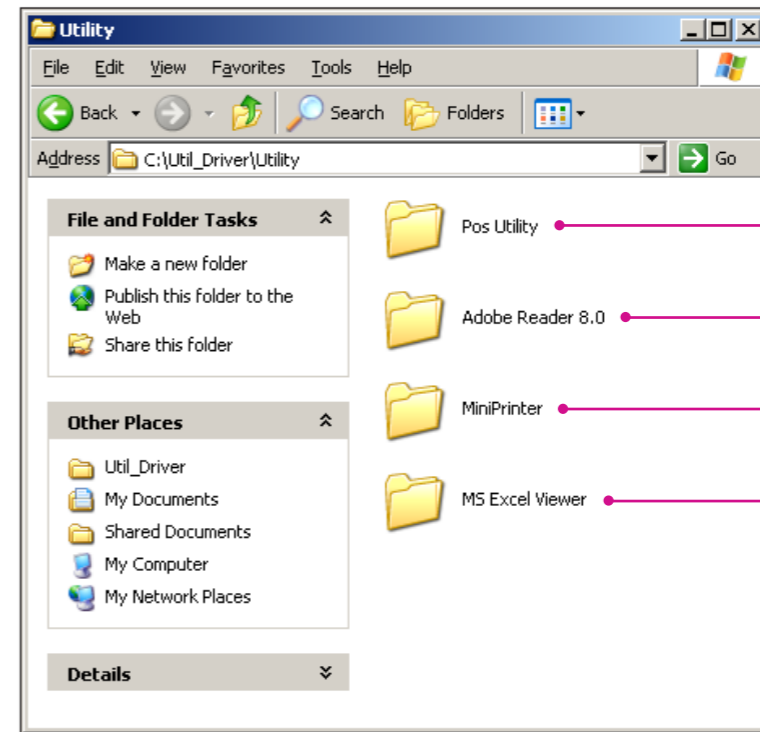
PART 3. System Utilization

02. POS Driver and Utility Intorduction

POS Driver & Other utilities are in C:/Util_Driver/Utility



- Drawer Drivers
- MSR
MSR Setup Utility
- VFD
Customer Display Utility
- OPOS
OPOS driver file
- Self Test Program
Test utility for peripherals of POS



- POS Utility
- Adobe Reader
- MiniPrinter
- MS Excel Viewer

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

POS Driver and
Utility Introduction

Use of Dual Monitors

System Expansion

Appendix A
BIOS Set upAppendix B
System Configuration

PART 3. System Utilization

02. POS Driver and Utility Intorduction

- 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 (The model names below are our products)**
 - LineDisplay (Customer Display) : Q202LD
 - Cash Drawer (Cash Drawer) : S3700CD
 - POSPrinter (Printer) : 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**
 - ① Execute 'SAM4SOPOSSelr_Vx.xx.exe' file in OPOS folder.
 - ② All components will be automatically registered & set up according to the system configuration.

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

POS Driver and
Utility Introduction

Use of Dual Monitors >

System Expansion

Appendix A
BIOS Set upAppendix B
System Configuration

PART 3. System Utilization

03. Use of Dual Monitors

- 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.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

POS Driver and
Utility Introduction

Use of Dual Monitors

System Expansion

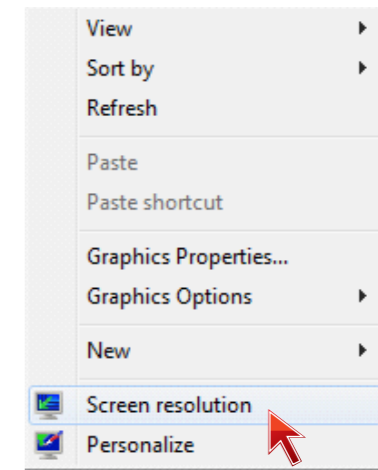
Appendix A
BIOS Set upAppendix B
System Configuration

PART 3. System Utilization

03. Use of Dual Monitors

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

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

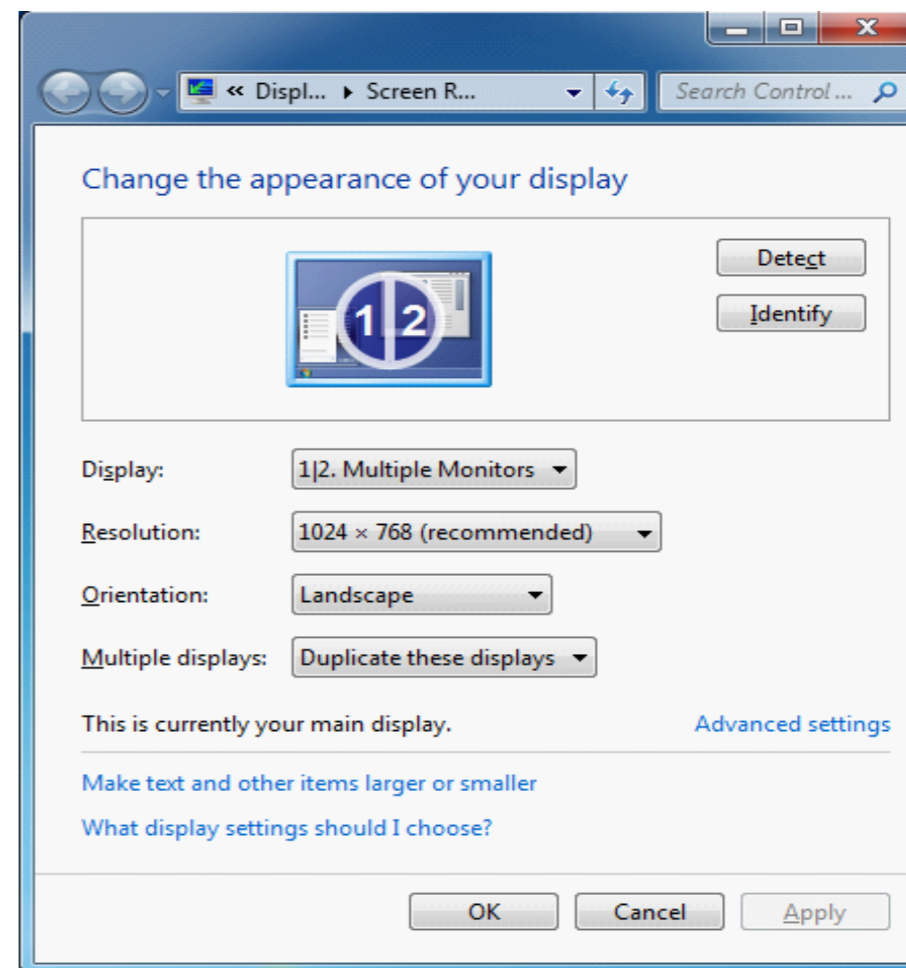


PART 3. System Utilization

03. Use of Dual Monitors

- 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.)

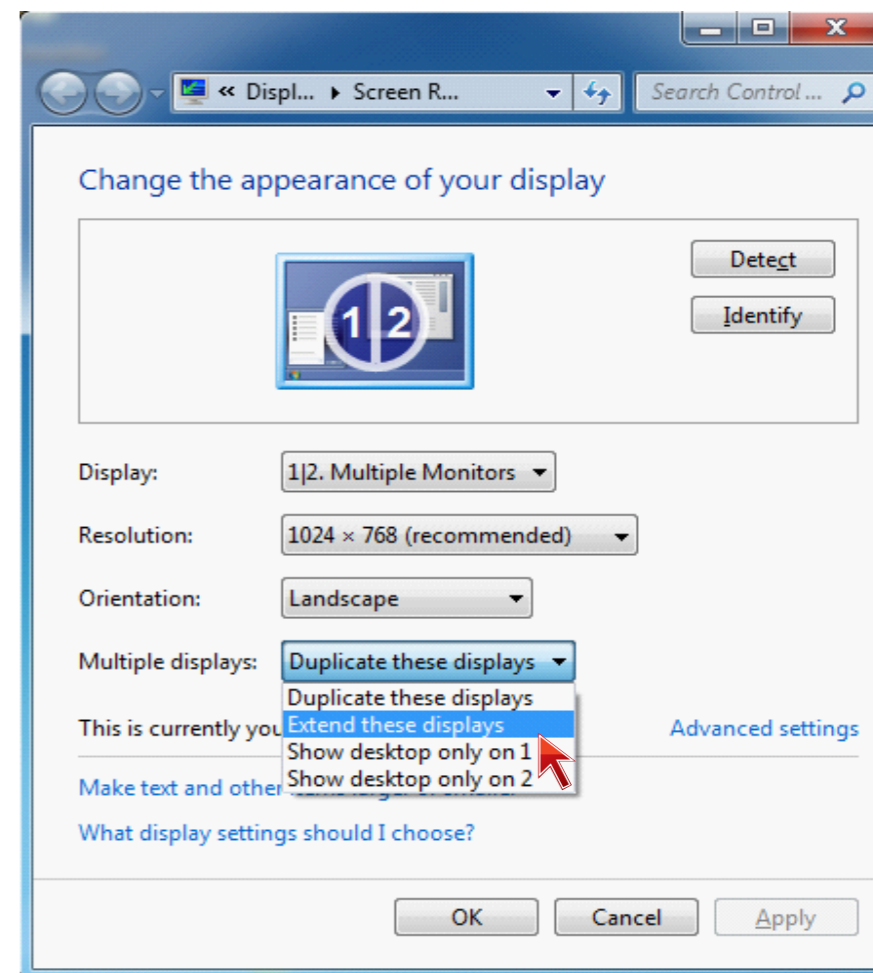


PART 3. System Utilization

03. Use of Dual Monitors

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

- 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.



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

POS Driver and
Utility Introduction

Use of Dual Monitors >

System Expansion

Appendix A

BIOS Set up

Appendix B

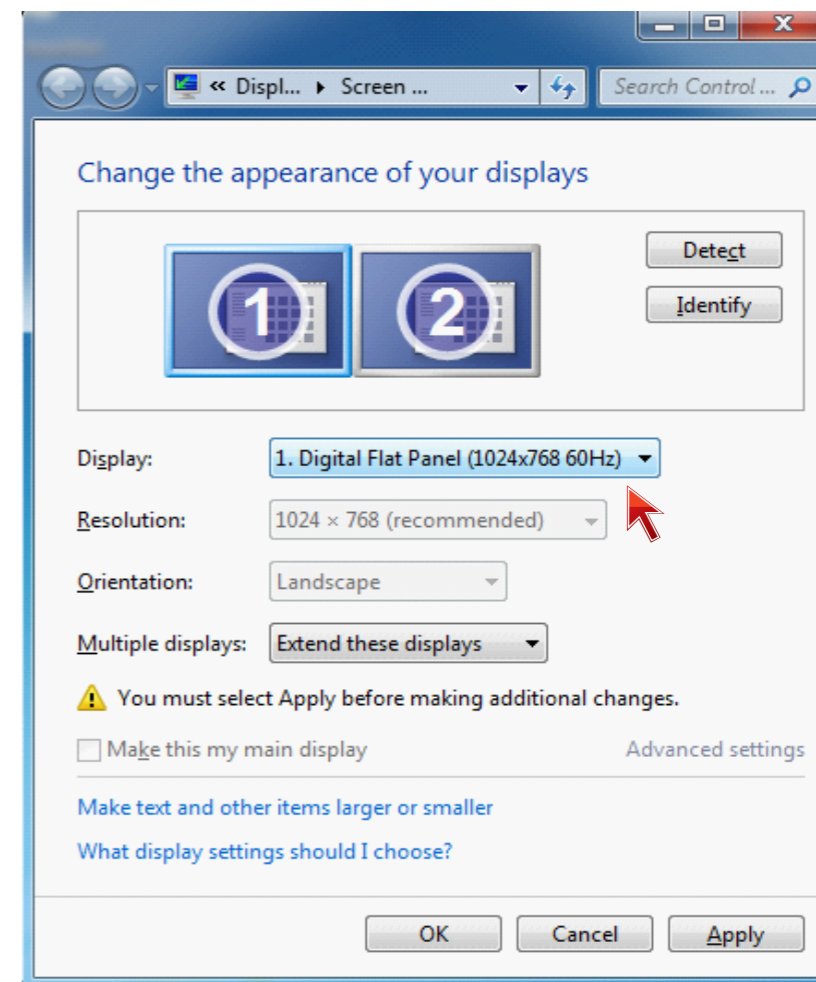
System Configuration

PART 3. System Utilization

03. Use of Dual Monitors

- 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.



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

POS Driver and
Utility Introduction

Use of Dual Monitors >

System Expansion

Appendix A
BIOS Set up

Appendix B
System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

POS Driver and
Utility Introduction

Use of Dual Monitors >

System Expansion

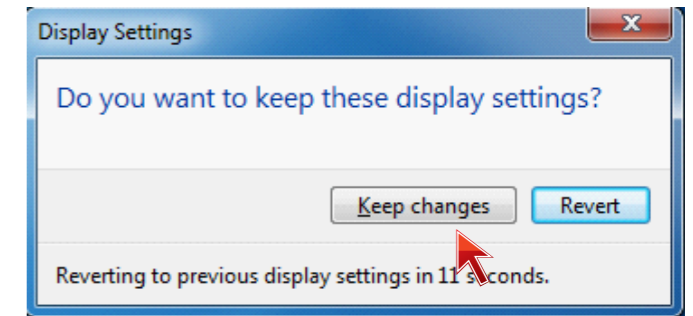
Appendix A
BIOS Set upAppendix B
System Configuration

PART 3. System Utilization

03. Use of Dual Monitors

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

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

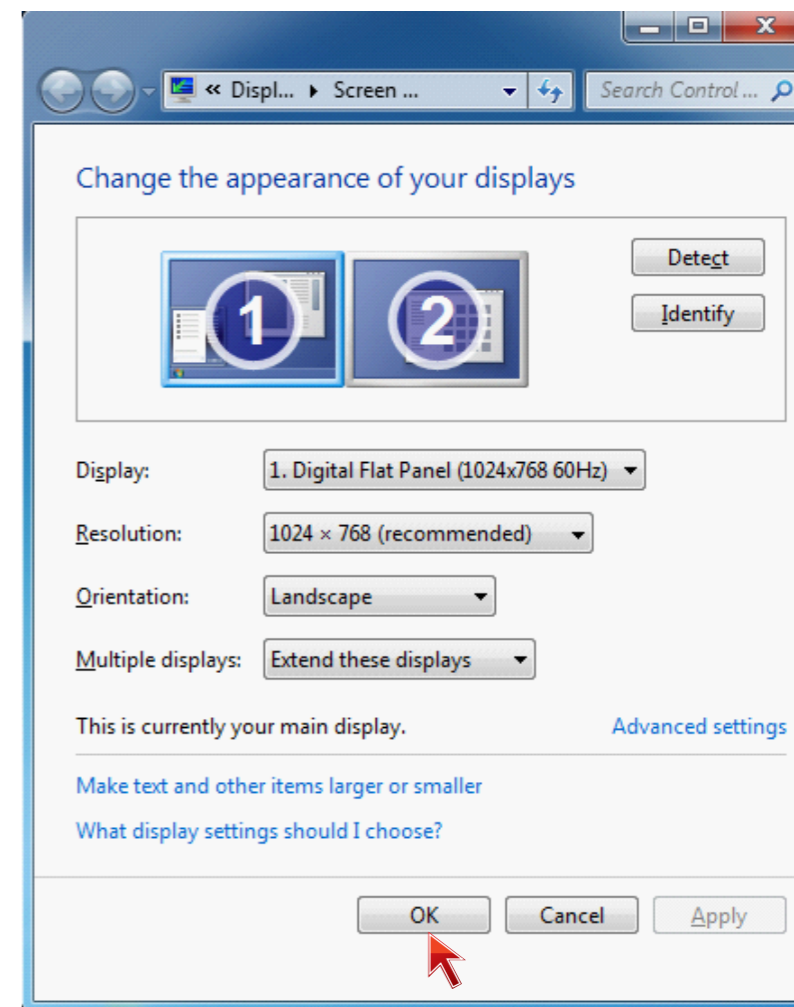


PART 3. System Utilization

03. Use of Dual Monitors

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

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



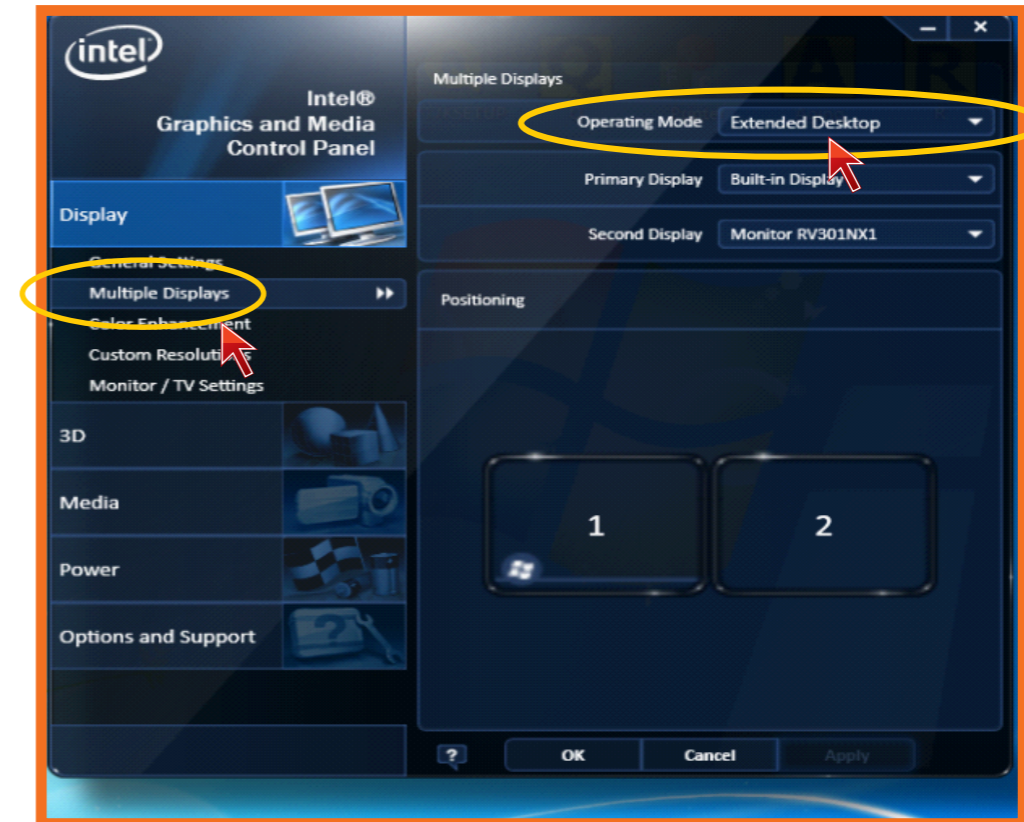
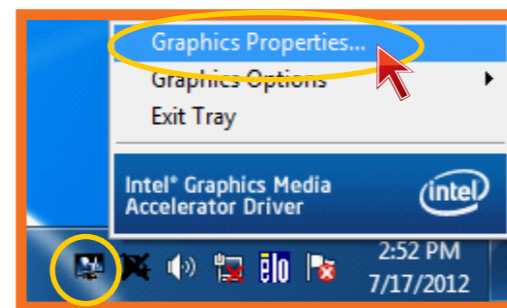
PART 3. System Utilization

03. Use of Dual Monitors

- 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 BIOS setup(Appendix A)
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'.



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

Use of Touch Screen

POS Driver and
Utility Introduction

Use of Dual Monitors >

System Expansion

Appendix A
BIOS Set up

Appendix B
System Configuration

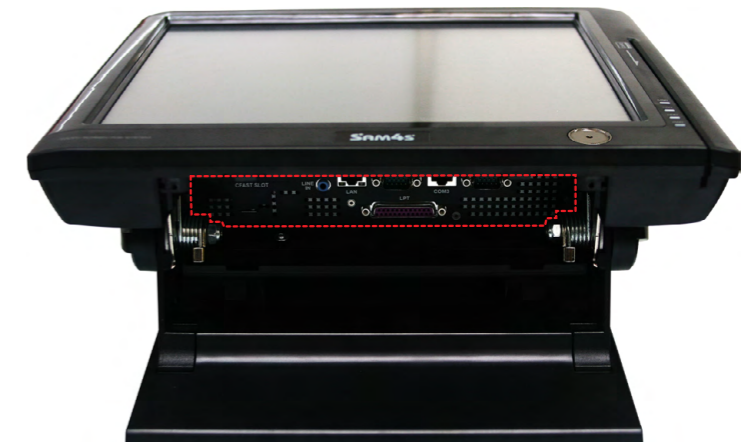
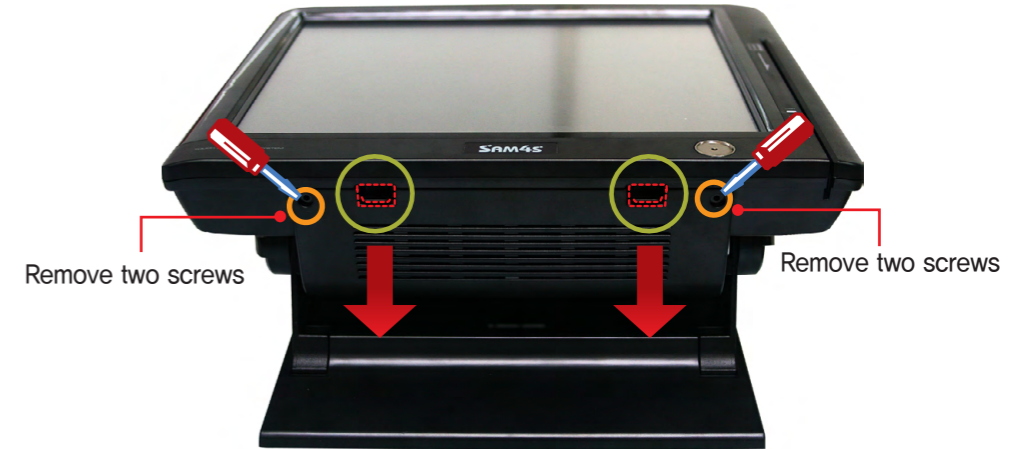
PART 4. System Expansion

01. System Disassembly

1. Make sure the system & peripherals power are off.
2. Take off the connector cab from the bottom of system in case it is fixed with screws.

3. Disconnect cables for peripherals & DC power input jack from the system.

Note! | The neck point should be gently pulled out, every time you disconnect DC power supply jack.



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly >

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly >

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

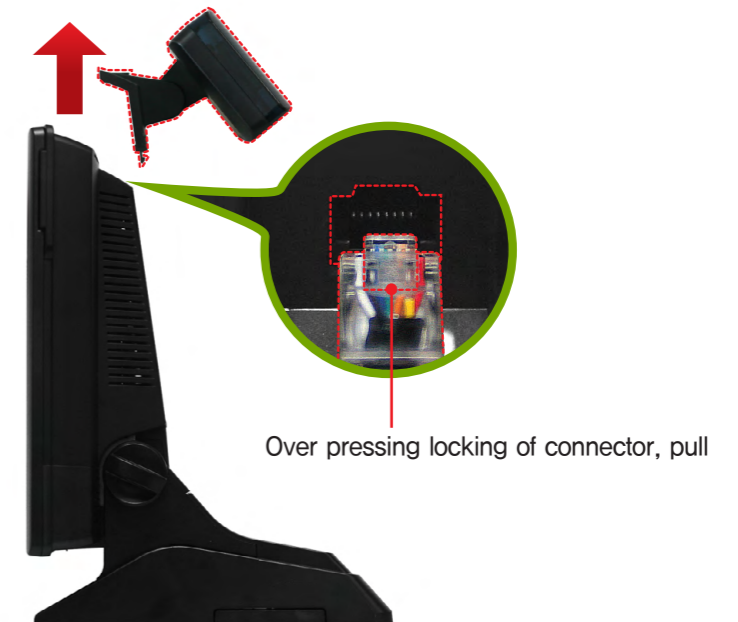
System Configuration

PART 4. System Expansion

01. System Disassembly(CDP)

4. CDP should be rotated as the direction shown in the figure and press 'PUSH' area with hands.

5. CDP should be separated as the arrow shown and its connector should be disconnected.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly >

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

PART 4. System Expansion

01. System Disassembly(CDP)

6. Lay the system while preventing LCD panel from being damaged.



7. Remove the stand by rotating the lever.



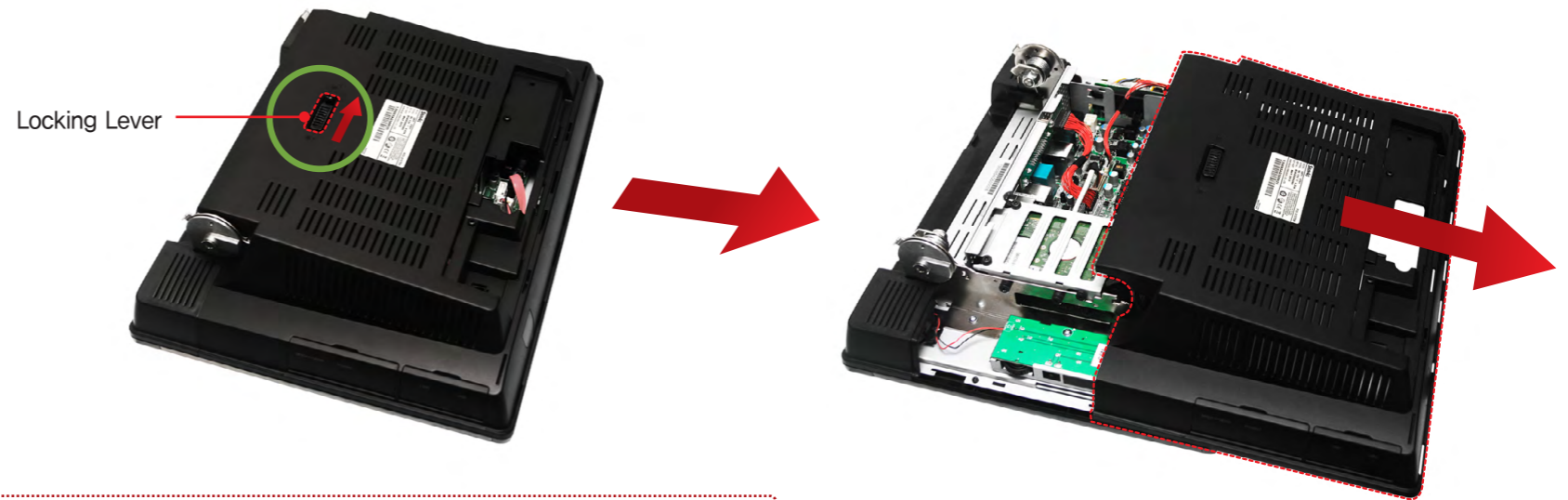
PART 4. System Expansion

01. System Disassembly(CDP)

8. Stand can be removed as the figure shown.



9. As referring to the figure, unscrew and release lock lever, and then the system back panel should be taken apart by pushing up the cover.



! Cautions! | ▶ If don't need disassemble about 7" display. Please Jump to 4-8 page

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly ▶

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly >

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

PART 4. System Expansion

01. System Disassembly(7" LCD)

4. LCD panel to prevent damage. Place the system, refer to figure.

5. Unscrew the lever to secure the stand.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly >

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

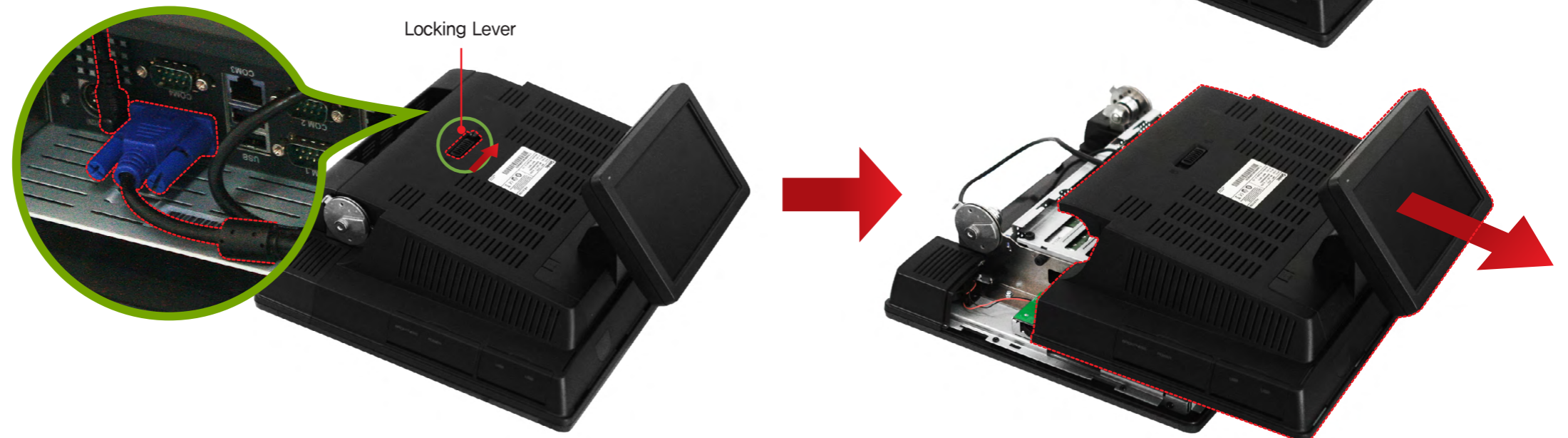
PART 4. System Expansion

01. System Disassembly(7" LCD)

6. Remove the stand.



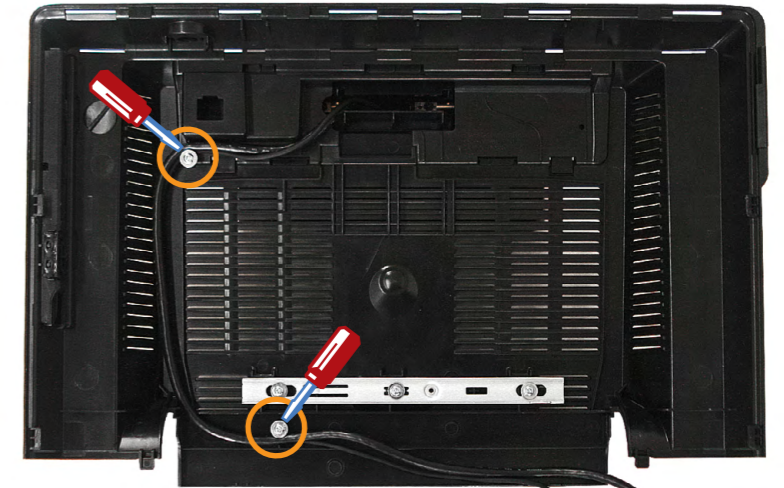
7. Disconnect the RGB & DC cable.
Remove the screw to release the locking lever. Then slide rear cover to remove



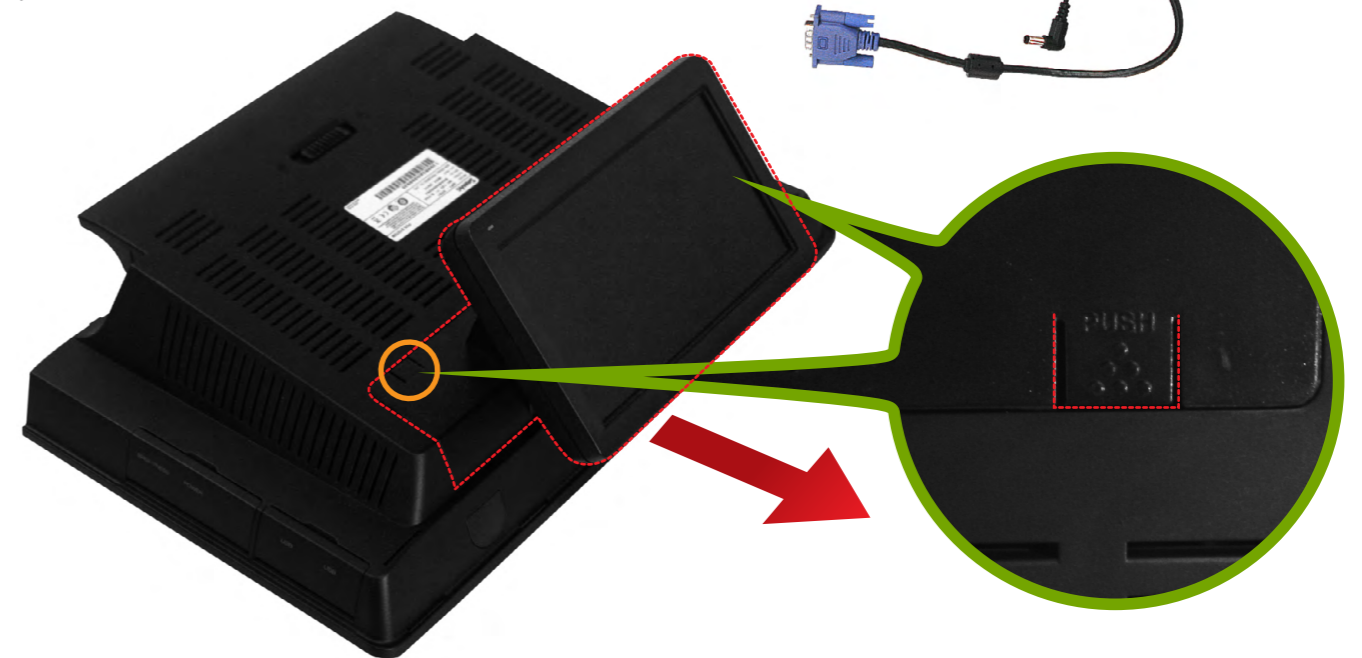
PART 4. System Expansion

01. System Disassembly(7" LCD)

8. Remove two screws on the inside of the cover as shown in picture.



9. Rear cover part of the 'PUSH' press with your fingers to separate 7" display.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly >

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly >

System Reassemble >

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

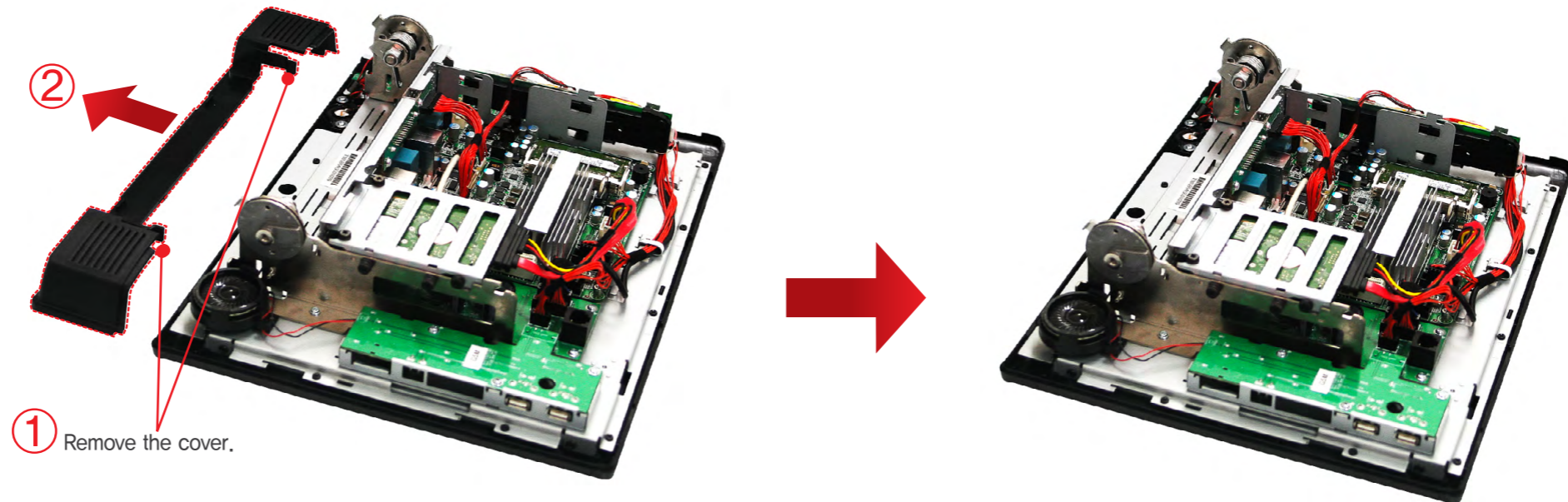
Appendix B

System Configuration

PART 4. System Expansion

01. System Disassembly

10. System dummy back panel can be removed with the aid of figure.



02. System Reassemble

1. It can be done going backwards of removing, and peripherals cable & DC power input jack is connected to the mains power.

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module >

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

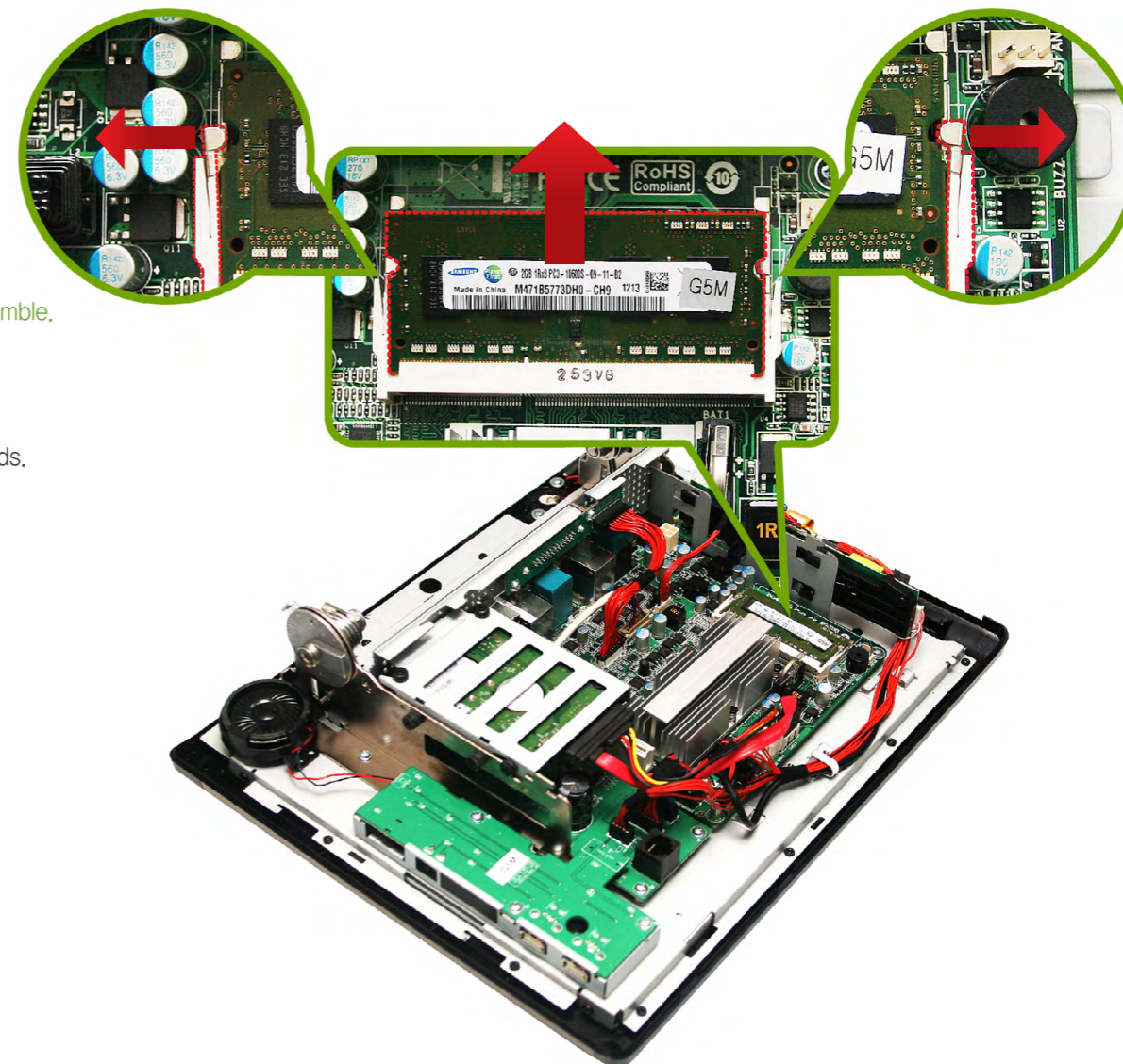
PART 4. System Expansion

03. Upgrading Memory Module

In case the user requires to increase the main memory(RAM) capacity, SPT-3700 uses DDRIII SODIMM package memory. The memory can be up to 4GB.

Once the memory is installed, BIOS automatically recognizes the memory type, capacity and speed.

1. System should be turned off for expanding memory.
※ Cables for power & peripherals should be disconnected prior to system disassemble.
2. System back cover should be taken off, referring to System remove.
3. Install new memory as shown in the figure and tighten them with levers at both ends.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement >

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

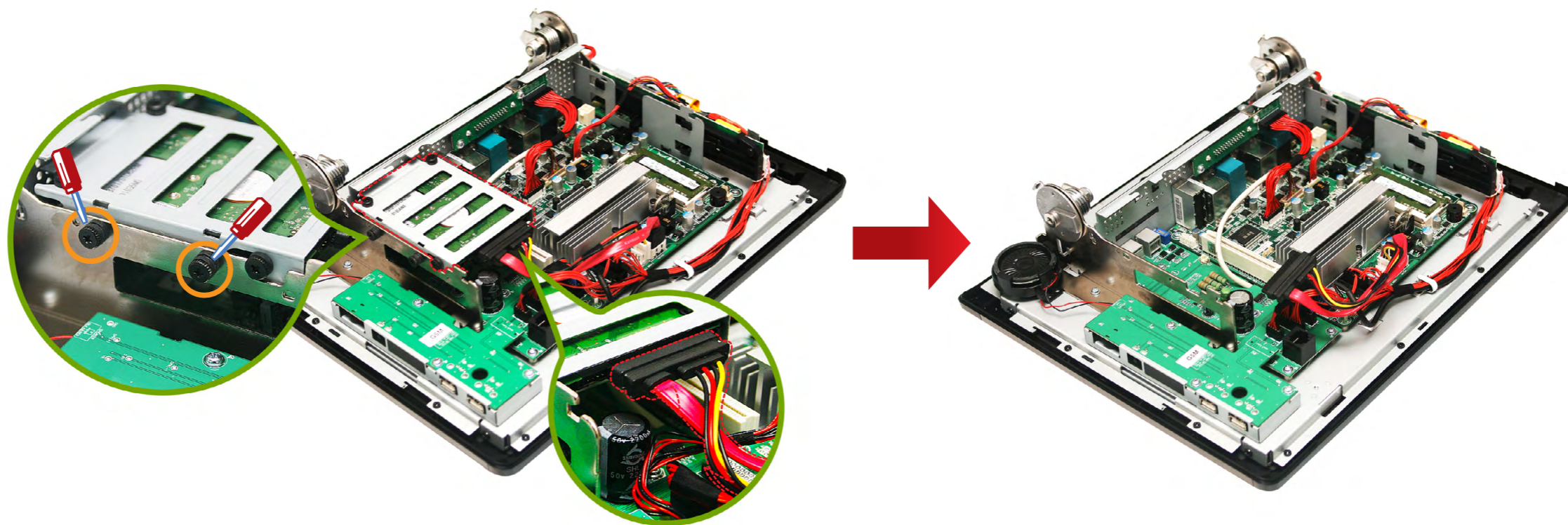
System Configuration

PART 4. System Expansion

04. HDD Replacement

Check the hard drive type before replacing. The 2.5 inch SATA interface is the only interface supported.

1. Save data, turn off the system and disconnect the main power and all cables.
2. Disconnect power & data cable of hard disk drive.
3. Remove screws which hold HDD bracket as the picture below.

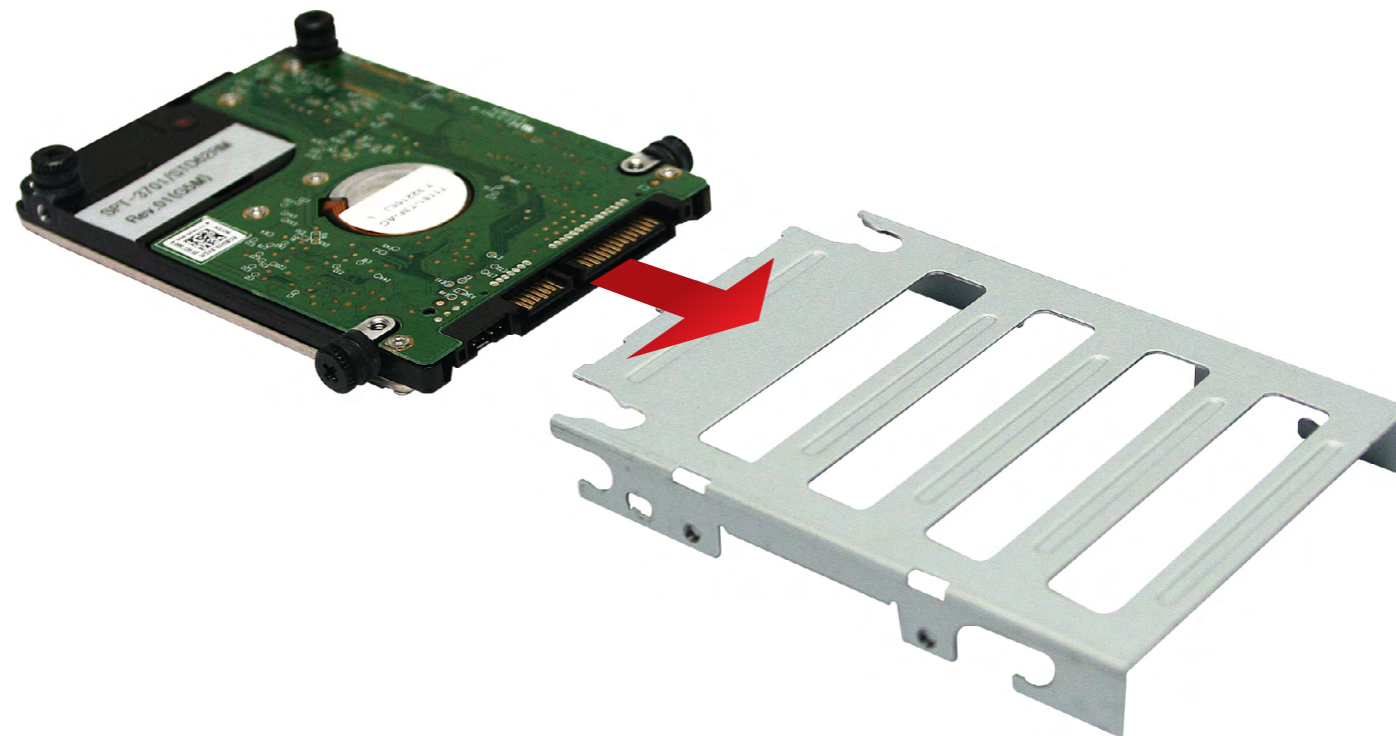


PART 4. System Expansion

04. HDD Replacement

Check the hard drive type before replacing. The 2.5 inch SATA interface is the only interface supported.

5. Remove bracket from the hard disk drive as shown in the figure.
6. Remove screws from the hard disk drive as shown in the figure.
7. Assemble it in the opposite way of dismantling and connect peripheral cables & DC power input jack.
8. Press power button and check BIOS setup menu (appendix A) to make sure the hard disk drive is correctly connected.



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

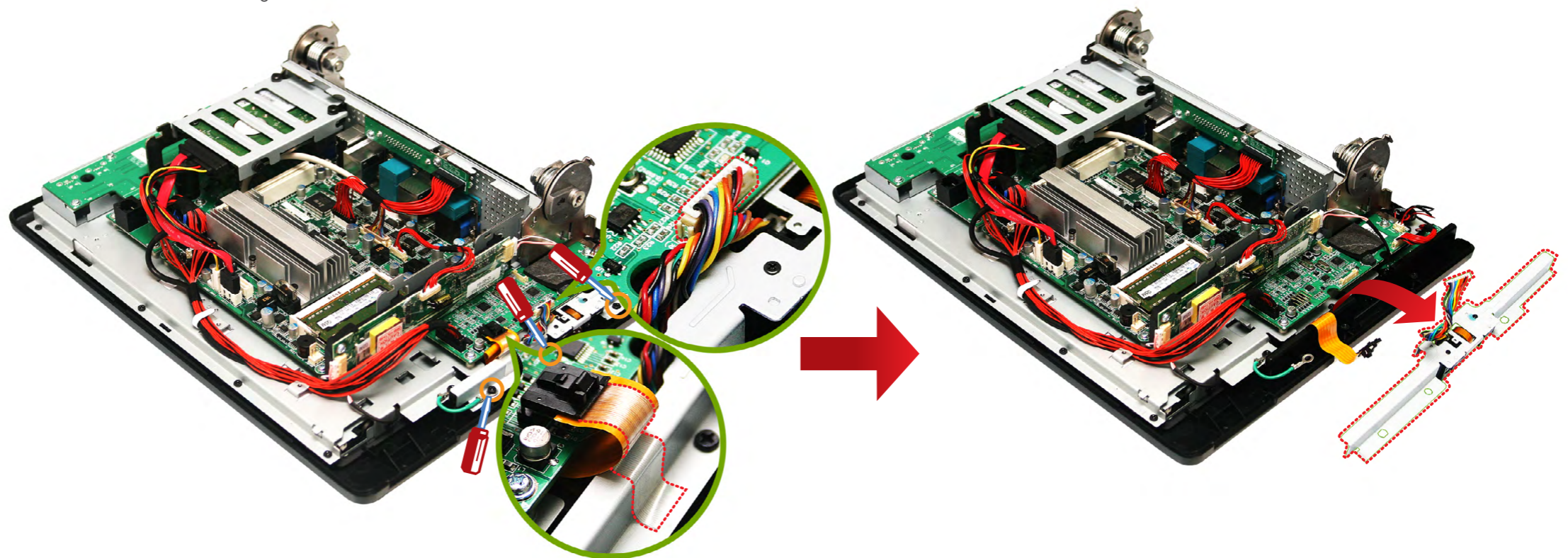
Appendix B

System Configuration

PART 4. System Expansion

05. MSR(Magnetic Stripe Reader) Removal

1. Remove system back cover (refer to System Disassembly).
2. Disconnect MSR (Magnetic Stripe Reader) cable.
3. Remove 3 screws which hold MSR bracket.
4. Remove MSR bracket as the figure below.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal >

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

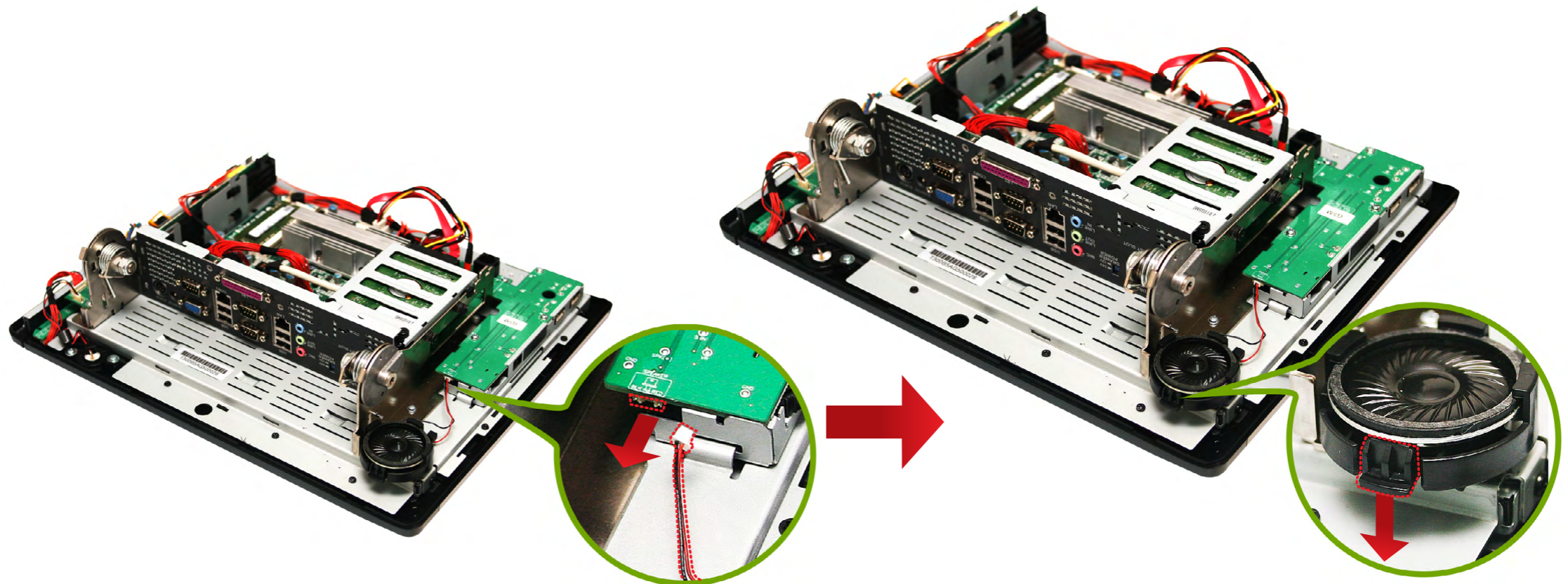
Appendix B

System Configuration

PART 4. System Expansion

06. Internal Speaker Removal

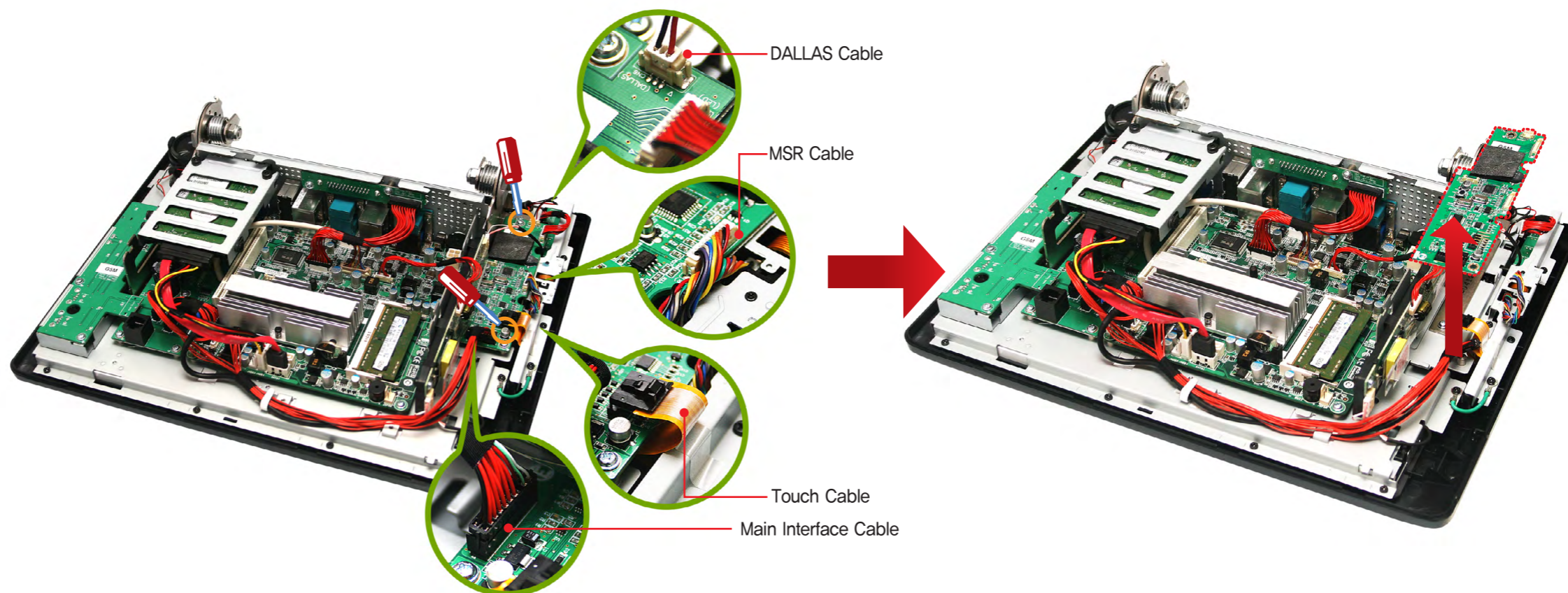
1. Remove system back cover (refer to System Disassembly).
2. Disconnect speaker cable.
3. Remove speaker while pressing the hook which holds the speaker.



PART 4. System Expansion

07. Touch MSR Board Removal

1. Remove system back cover (refer to System Disassembly).
2. Remove inverter.
3. Disconnect all cables to Touch MSR board.
4. Remove Touch MSR board after undoing screws (2EA) which connect to the display bracket.



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

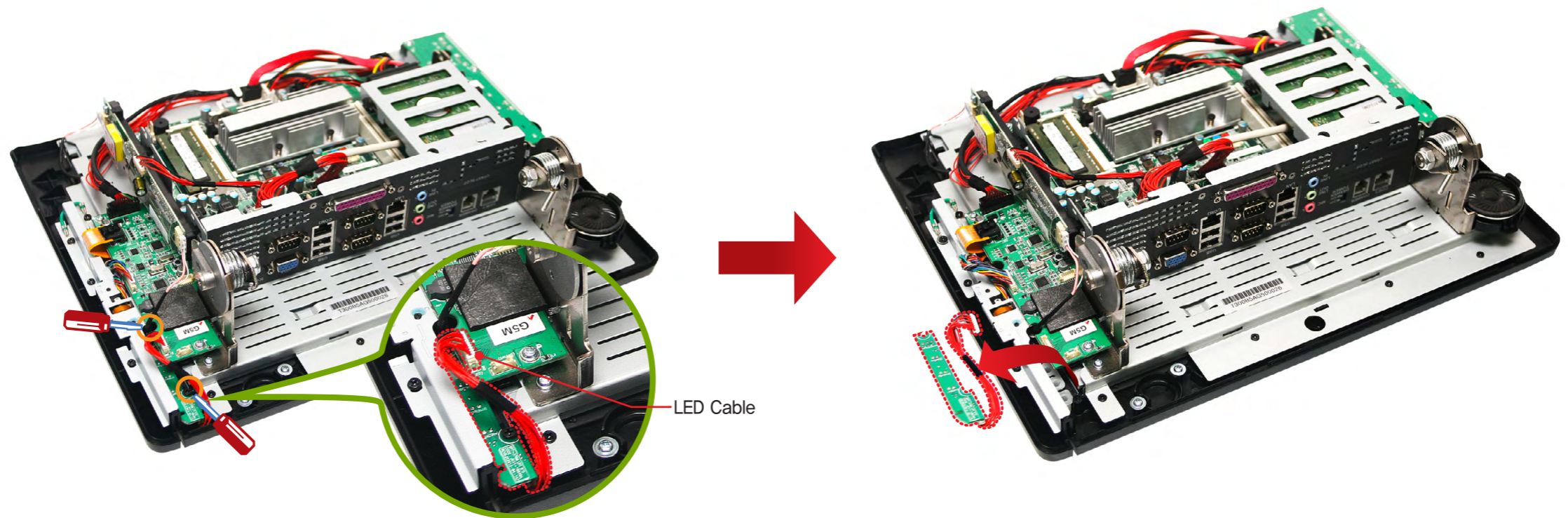
Appendix B

System Configuration

PART 4. System Expansion

08. LED Board Removal

1. Remove system back cover (refer to System Disassembly).
2. Disconnect cables which connect LED board.
3. Remove LED board after undoing screws (2EA) which hold LED board.

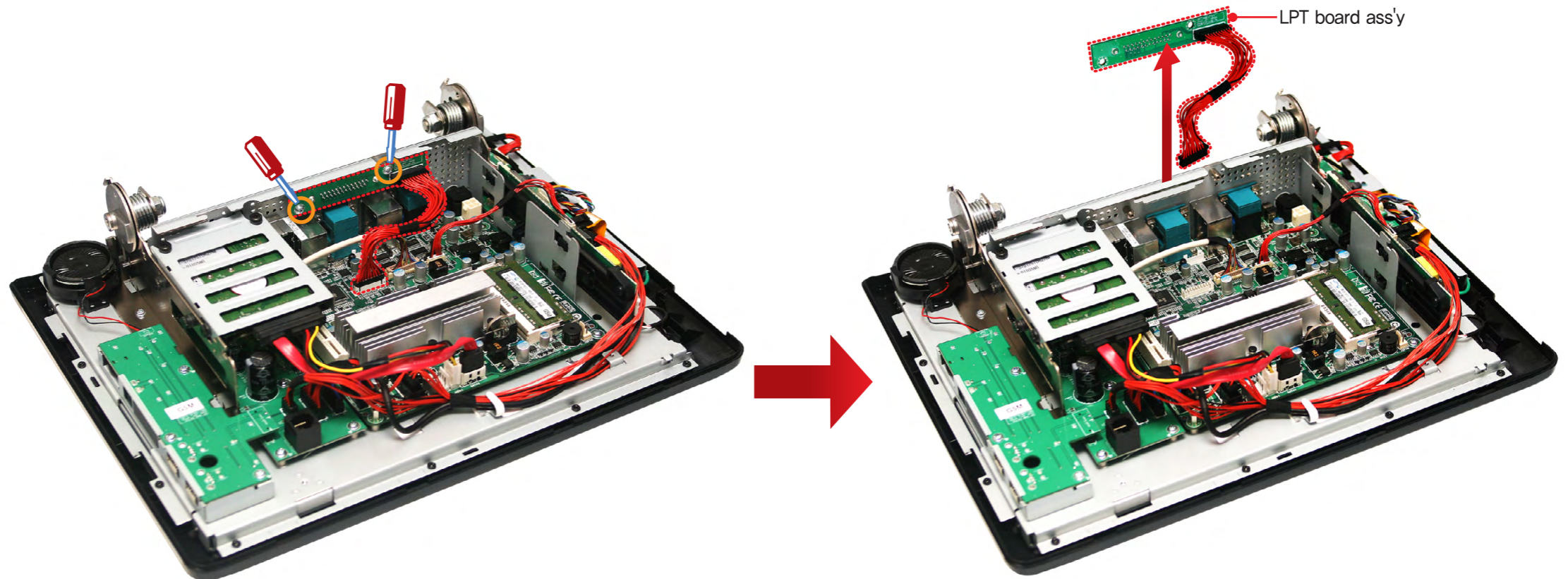


e-Manual
SPT-3700[System Introduction](#)[System Installation](#)[System Utilization](#)**System Expansion**[System Disassembly](#)[System Reassemble](#)[Upgrading Memory Module](#)[HDD Replacement](#)[MSR Removal](#)[Internal Speaker Removal](#)[Touch MSR Board Removal](#)[LED Board Removal](#)[LPT Board Removal](#)[Joint Harness Removal](#)[I/O Extension Board Removal](#)[Main Board Removal](#)[Touch Panel Removal](#)[LCD Panel Removal](#)[Appendix A](#)[BIOS Set up](#)[Appendix B](#)[System Configuration](#)

PART 4. System Expansion

09. LPT Board Removal

1. Remove system back cover (refer to System Disassembly)
2. Remove LPT board after undoing screws (2EA) which hold LPT board.
3. Remove LPT board ass'y

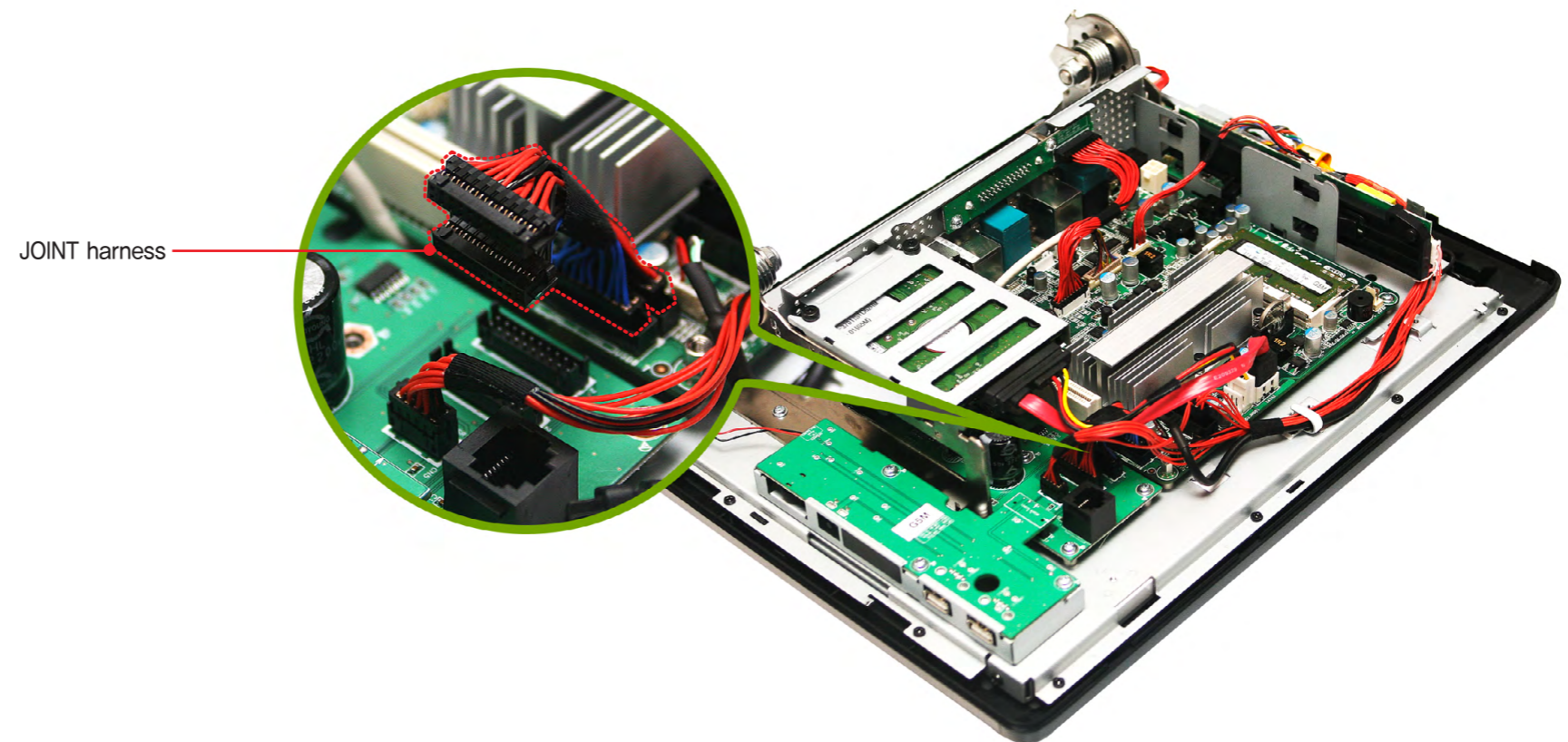


e-Manual
SPT-3700[System Introduction](#)[System Installation](#)[System Utilization](#)**System Expansion**[System Disassembly](#)[System Reassemble](#)[Upgrading Memory Module](#)[HDD Replacement](#)[MSR Removal](#)[Internal Speaker Removal](#)[Touch MSR Board Removal](#)[LED Board Removal](#)[LPT Board Removal](#)[Joint Harness Removal](#) >[I/O Extension Board Removal](#)[Main Board Removal](#)[Touch Panel Removal](#)[LCD Panel Removal](#)[Appendix A](#)[BIOS Set up](#)[Appendix B](#)[System Configuration](#)

PART 4. System Expansion

10. Joint Harness Removal

1. Remove system back cover (refer to System Disassembly)
2. Remove HDD module (refer to Replacing Hard Disk Drive on page 4-10).
3. Remove Joint harness.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

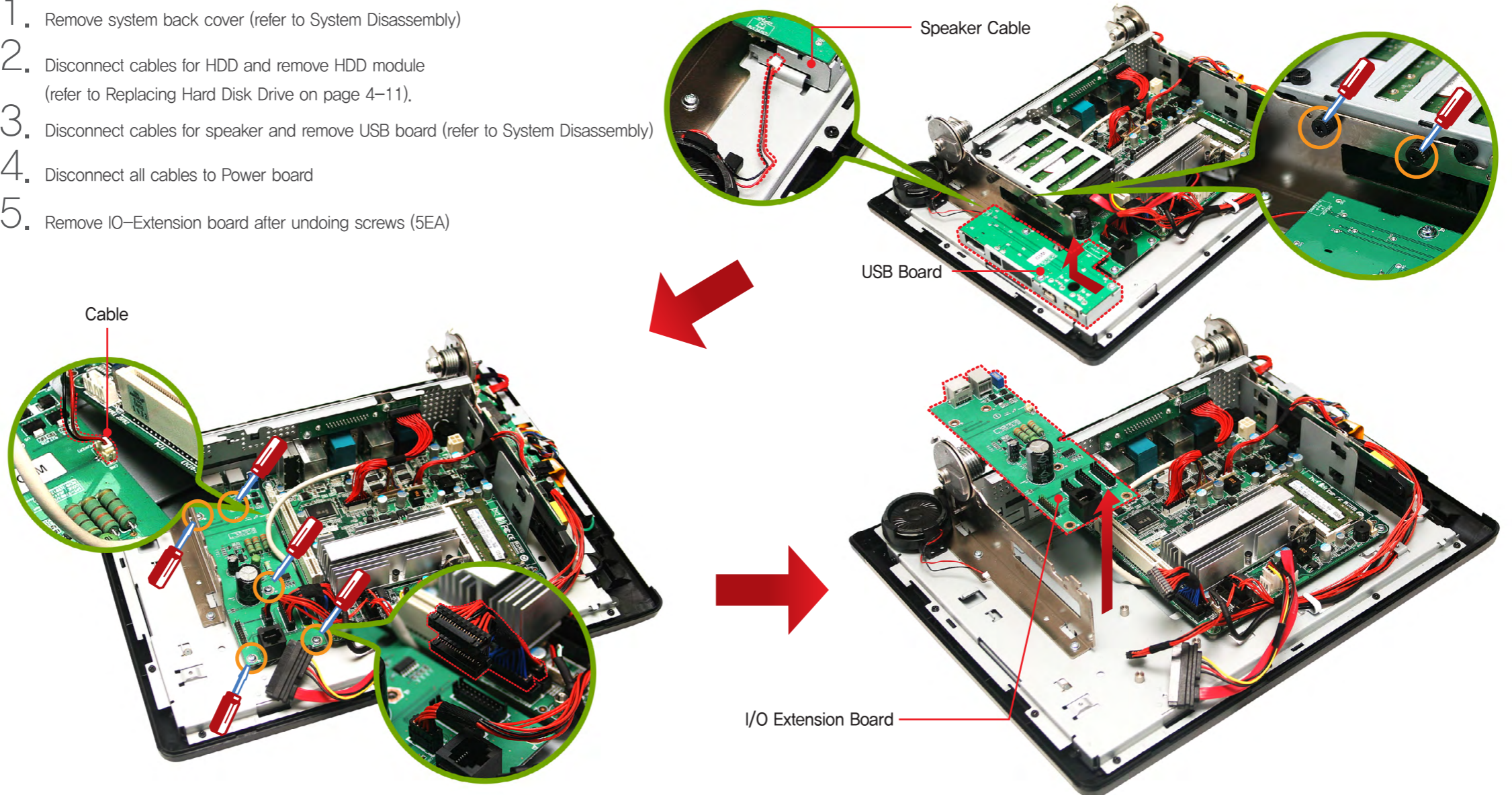
Appendix B

System Configuration

PART 4. System Expansion

11. I/O Extension Board Removal

1. Remove system back cover (refer to System Disassembly)
2. Disconnect cables for HDD and remove HDD module (refer to Replacing Hard Disk Drive on page 4-11).
3. Disconnect cables for speaker and remove USB board (refer to System Disassembly)
4. Disconnect all cables to Power board
5. Remove IO-Extension board after undoing screws (5EA)



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

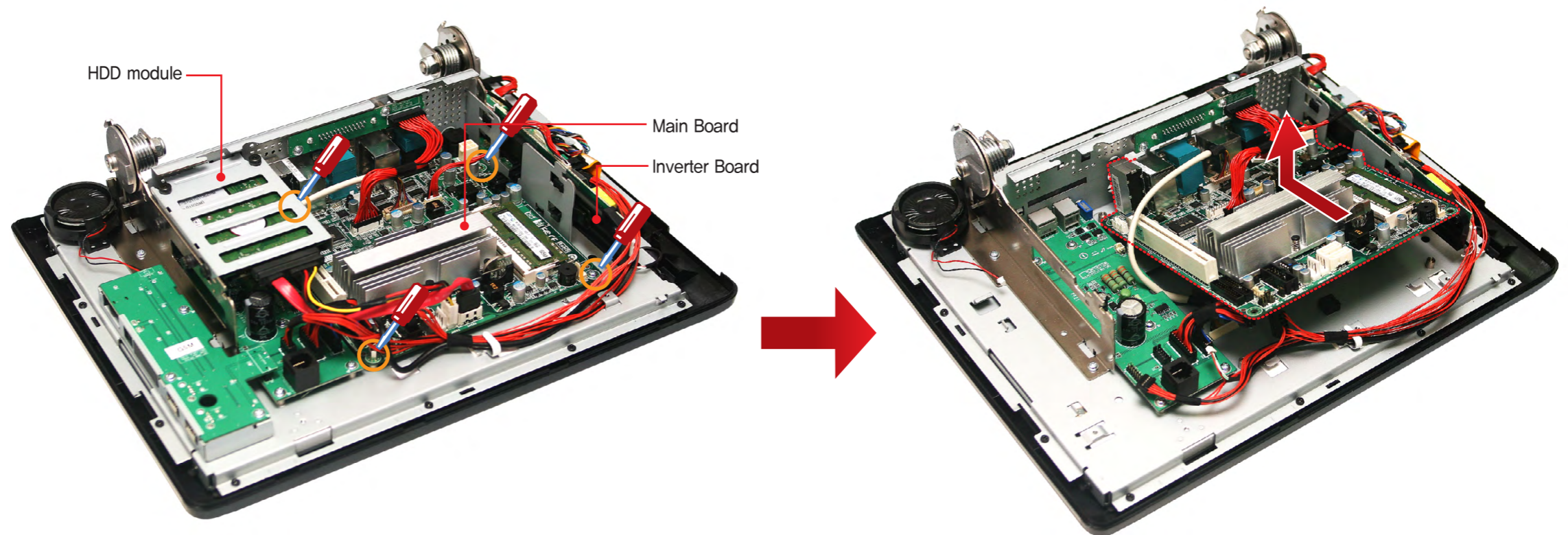
Appendix B

System Configuration

PART 4. System Expansion

12. Main Board Removal

1. Remove system back cover as referring to System remove (4-4 page).
2. Remove HDD module and inverter board.
3. Disconnect all cables to main board.
4. Remove main board after undoing screws to main board and pushing the direction of arrow.

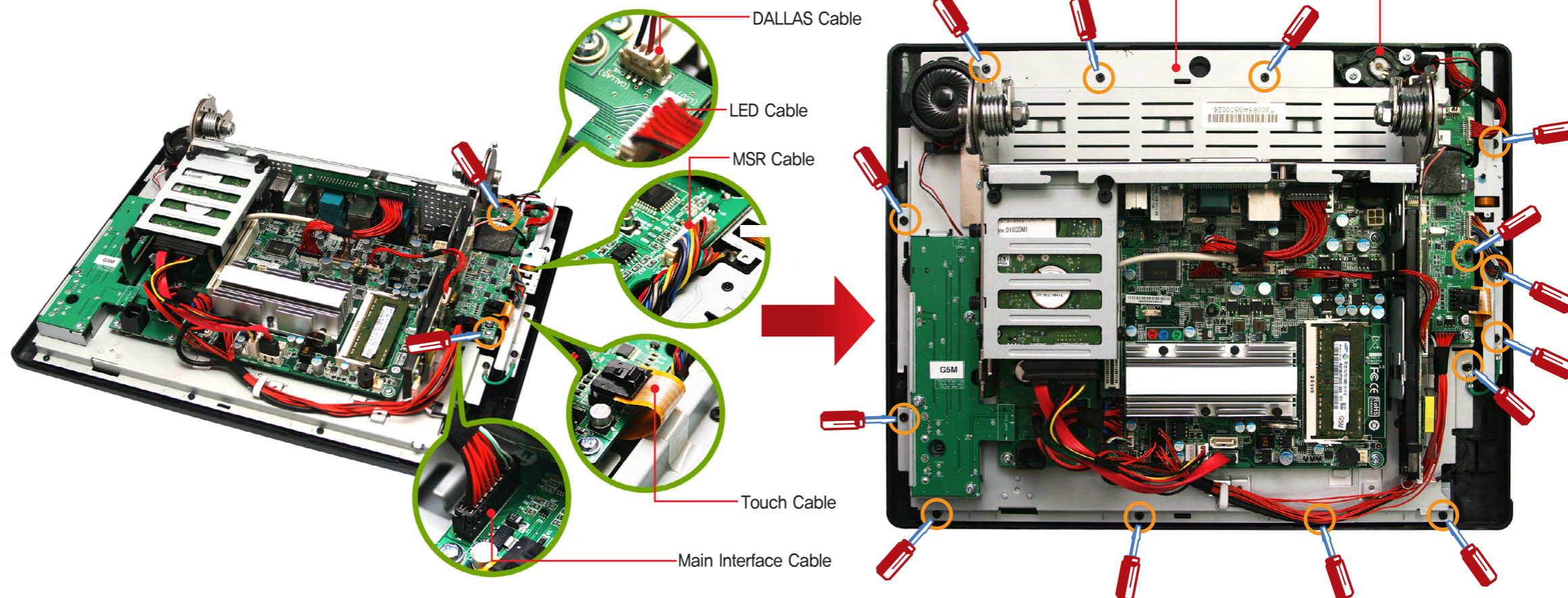


PART 4. System Expansion

13. Touch Panel Removal

Caution! | ▶ The touch panel is easily damaged from dust or mishandling while disconnecting the LCD and touch panel. Please use an authorized service center for touch panel removal and replacement.

1. Remove system back cover (refer to System Disassembly on page 4-4).
2. Remove touch cable and LED cable after undoing fixed screws as the picture below.
3. Remove LCD bracket and front display by undoing fixed screws.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal >

LCD Panel Removal

Appendix A

BIOS Set up

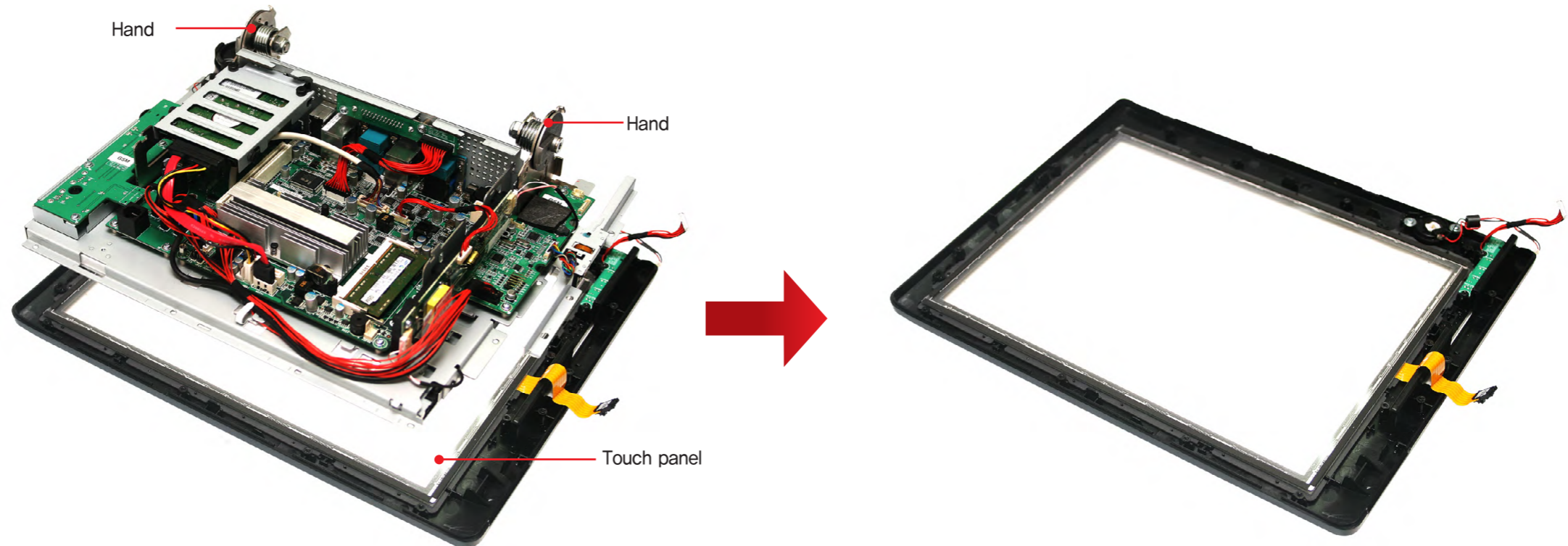
Appendix B

System Configuration

PART 4. System Expansion

13. Touch Panel Removal

4. Remove LCD and touch panel.

**Caution!**

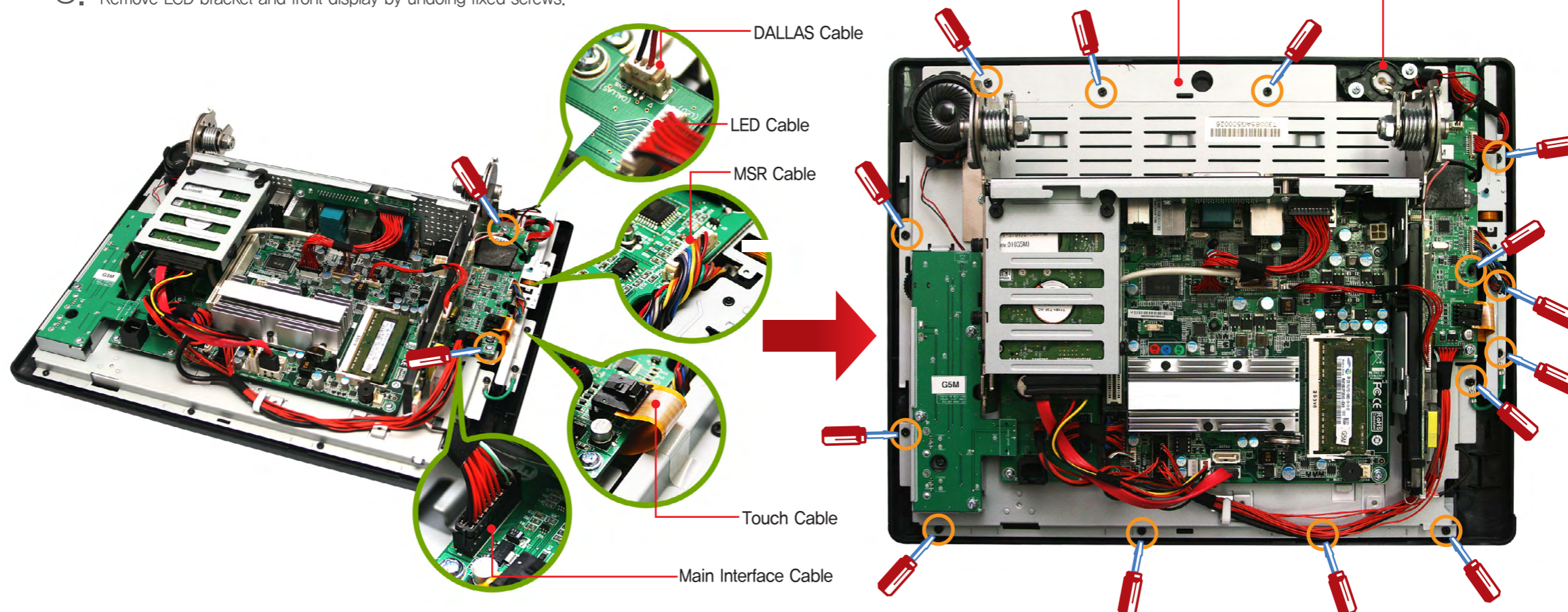
- ▶ Be careful not to damage cables.
- ▶ The touch panel may separate suddenly from the LCD panel due to a vacuum condition between the touch panel and LCD.
- ▶ Be careful not to damage components.
- ▶ Work in a clean environment. Dust can adhere to the surface of the LCD or touch panel and cause scratches.
- ▶ Touch panel and cables are made of sensitive materials. Take care to avoid damage.

PART 4. System Expansion

14. LCD Panel Removal

Caution! | ▶ The touch panel is easily damaged from dust or mishandling while disconnecting the LCD and touch panel. Please use an authorized service center for touch panel removal and replacement.

1. Remove system back cover (refer to System Disassembly on page 4-4).
2. Remove touch cable and LED cable after undoing fixed screws as the picture below.
3. Remove LCD bracket and front display by undoing fixed screws.



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal ▶

Appendix A

BIOS Set up

Appendix B

System Configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal

Appendix A

BIOS Set up

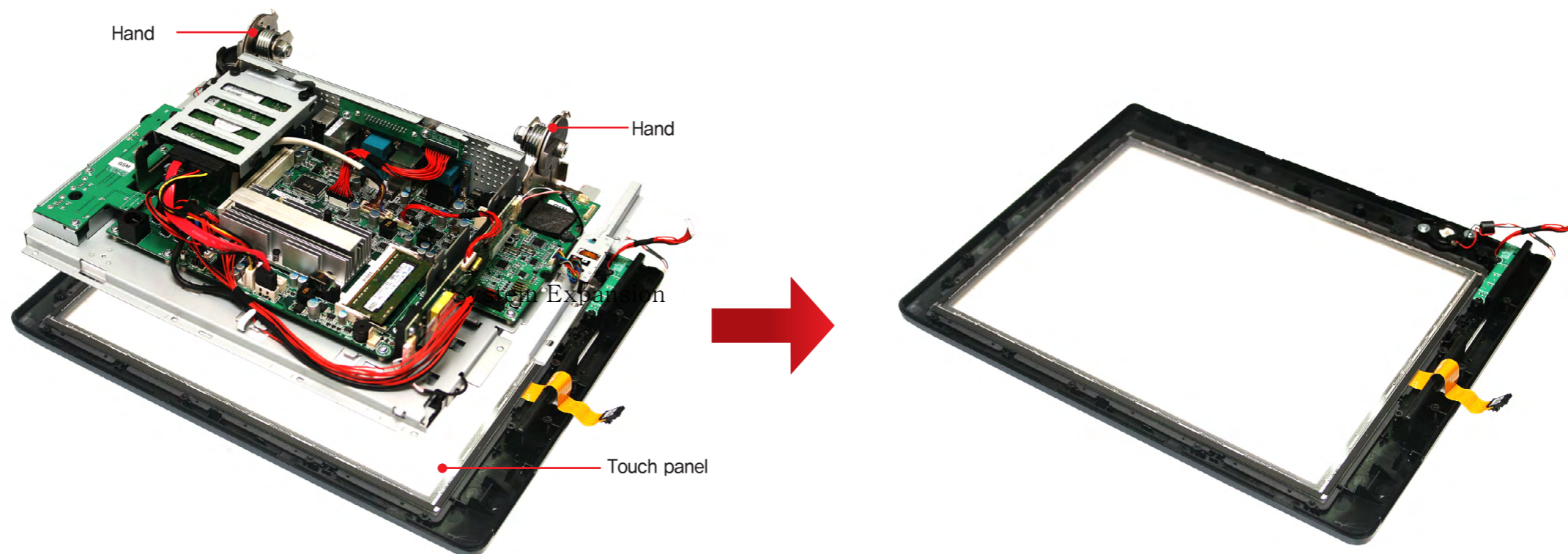
Appendix B

System Configuration

PART 4. System Expansion

14. LCD Panel Removal

4. Remove LCD and touch panel.

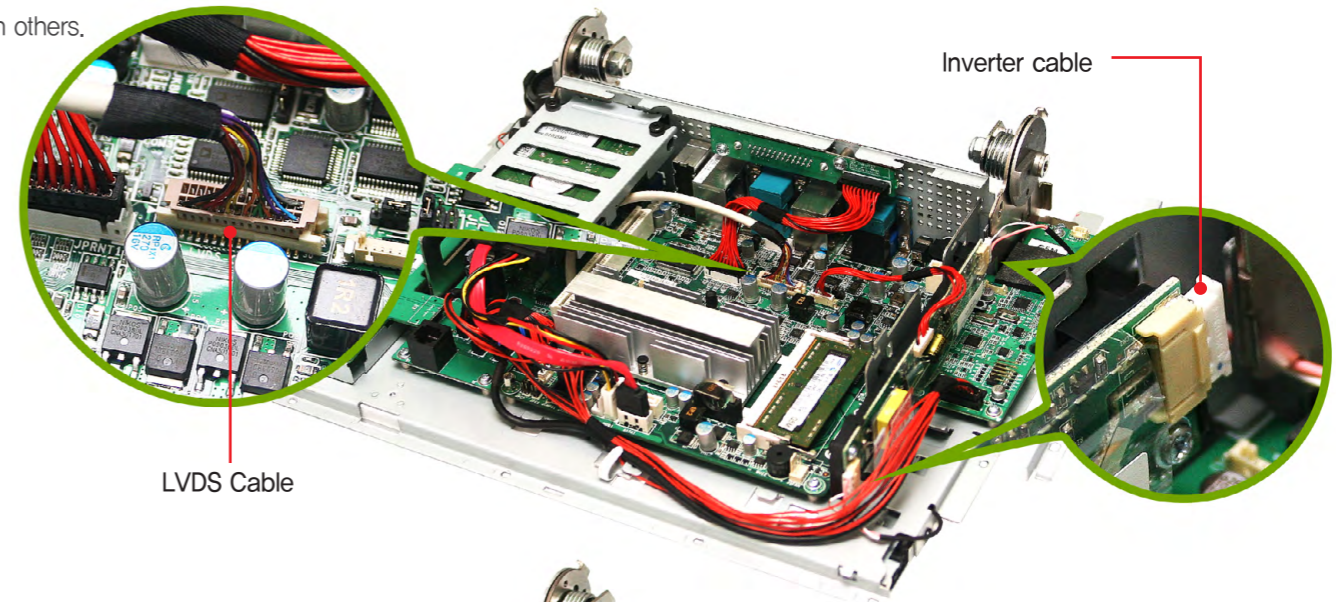
**Caution!**

- ▶ Be careful not to damage cables.
- ▶ The touch panel may separate suddenly from the LCD panel due to a vacuum condition between the touch panel and LCD.
- ▶ Be careful not to damage components.
- ▶ Work in a clean environment. Dust can adhere to the surface of the LCD or touch panel and cause scratches.
- ▶ Touch panel and cables are made of sensitive materials. Take care to avoid damage.

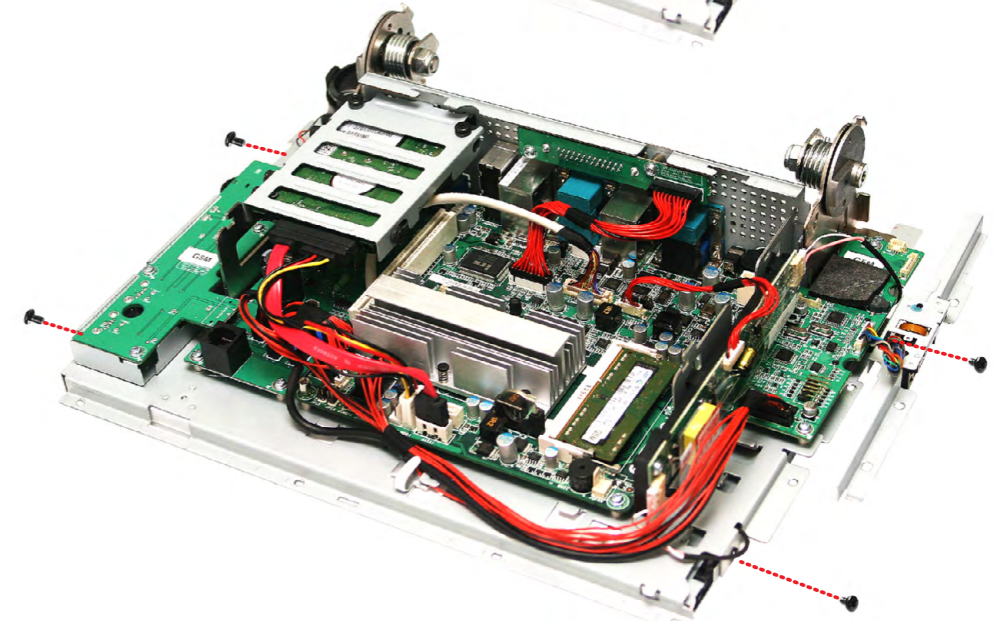
PART 4. System Expansion

14. LCD Panel Removal

5. Remove LVDS and inverter cable. Spread the cable in order not to be twisted with others.



6. Undo display bracket's side screws(4EA).



e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

System Disassembly

System Reassemble

Upgrading Memory Module

HDD Replacement

MSR Removal

Internal Speaker Removal

Touch MSR Board Removal

LED Board Removal

LPT Board Removal

Joint Harness Removal

I/O Extension Board Removal

Main Board Removal

Touch Panel Removal

LCD Panel Removal >

Appendix A

BIOS Set up

Appendix B

System Configuration

Appendix A. BIOS Set up

01. Understanding BIOS Set Up

- BIOS provides configuration and set-up information for driving the main board. BIOS values are saved in CMOS ROM on the main board.

BIOS (Basic Input and Output System) Set-Up is a menu-oriented software utility which enables a user to configure the system's environmental set-up, system hardware, power saving functions, etc. BIOS Set-Up values can seriously affect how the system works. Therefore, users should determine all options regarding BIOS Set-Up and configure the system accordingly.

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

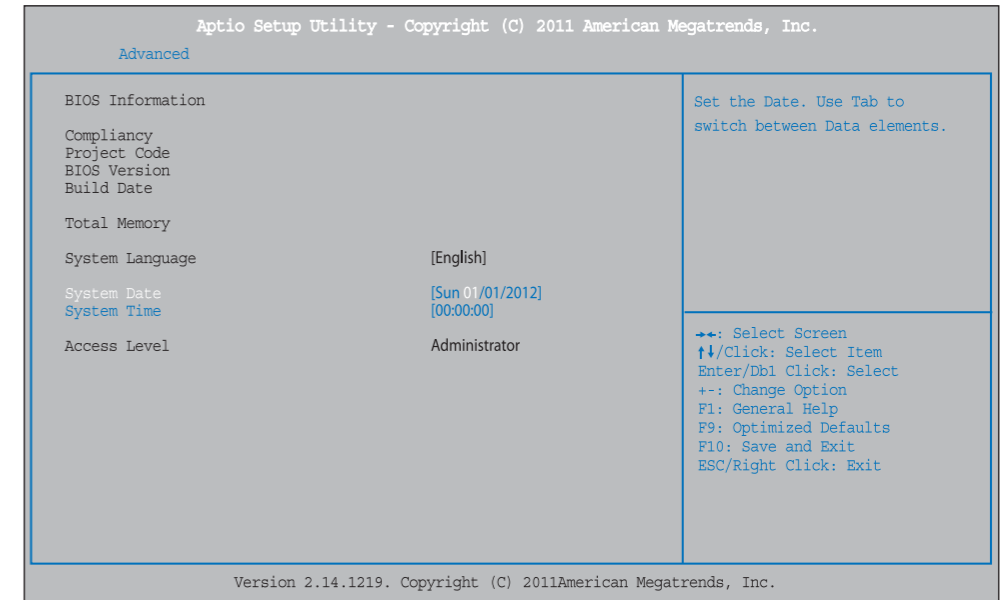
Appendix A. BIOS Set up

01. Understanding BIOS Set Up

- BIOS provides configuration and set-up information for driving the main board. BIOS values are saved in CMOS ROM on the main board.

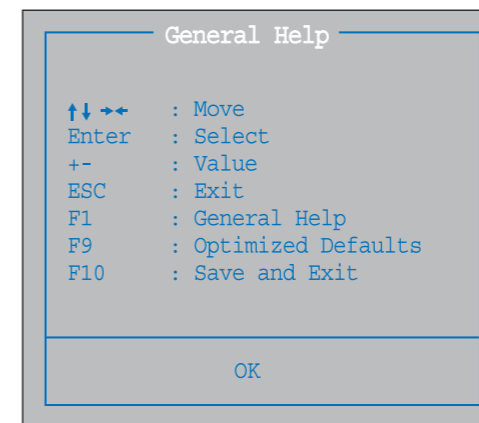
Initial Setup Screen

- Initial BIOS Set-Up Sreen has the following menu options:
Main, Advanced, Chipset, Boot, Security and Save & Exit.



Using Keys on BIOS Setup Screen.

- Press F1 key to see simple explanations on key functions.
Next slide shows key functions used on Setup.



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up >

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

Appendix B

System configuration

Appendix A. BIOS Set up

01. Understanding BIOS Set Up

- BIOS provides configuration and set-up information for driving the main board. BIOS values are saved in CMOS ROM on the main board.

- **→← : 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.

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

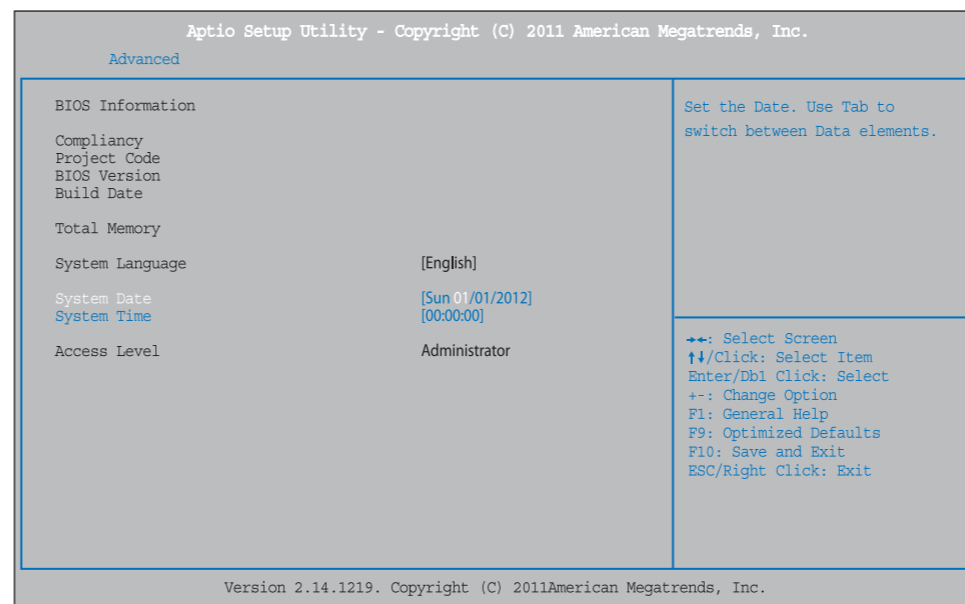
Boot Menu

Security Menu

Save & Exit Menu

Appendix B
System configurationAppendix A. BIOS Set up
02. Main Menu

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



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

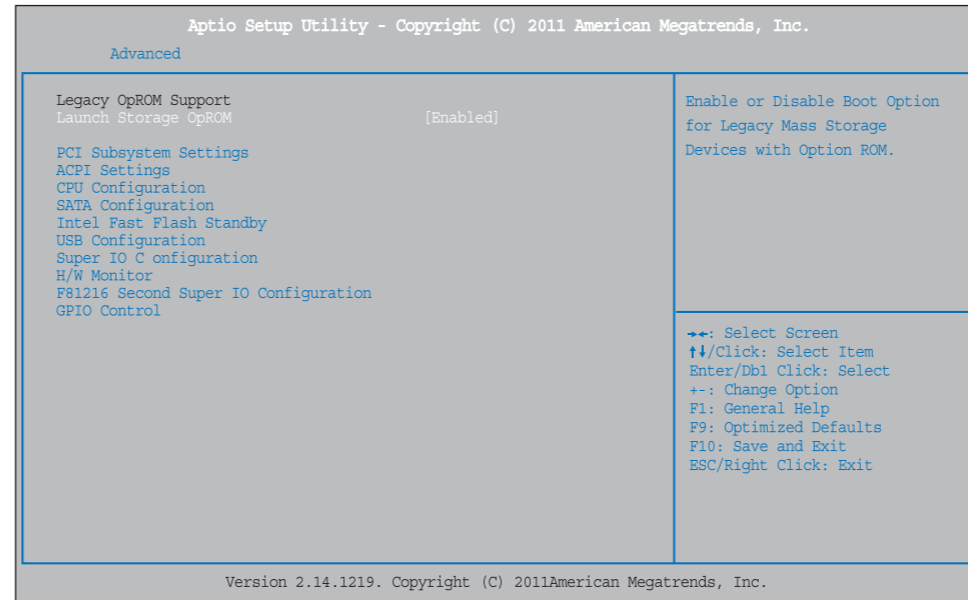
If needed, set up the time on System Time .

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.

Appendix A. BIOS Set up

03. Advanced Menu

- Use this menu to set up for system performance.



Launch Storage OpROM

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

e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

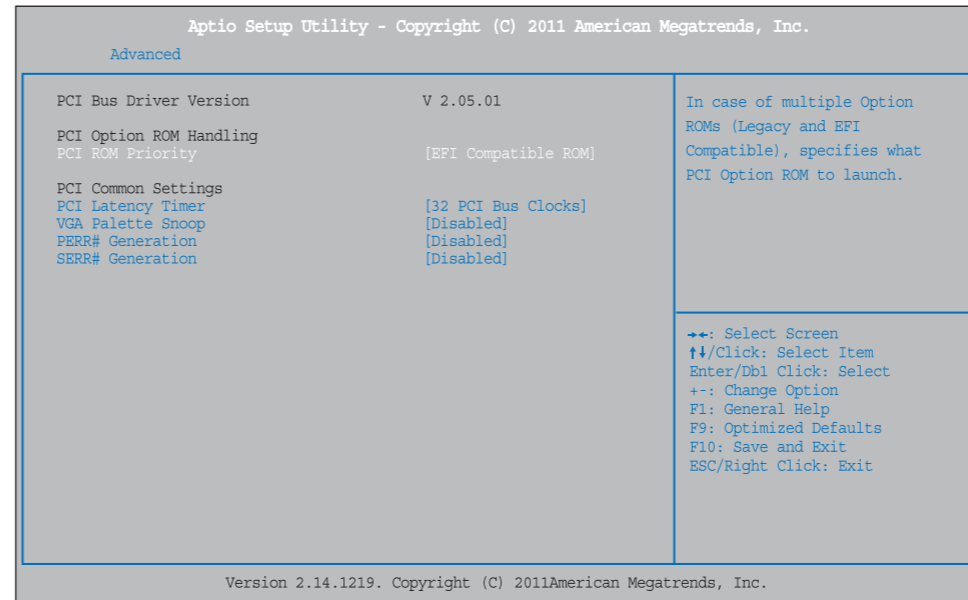
Appendix B

System configuration

Appendix A. BIOS Set up

03. Advanced Menu

- Use this menu to set up for system performance.



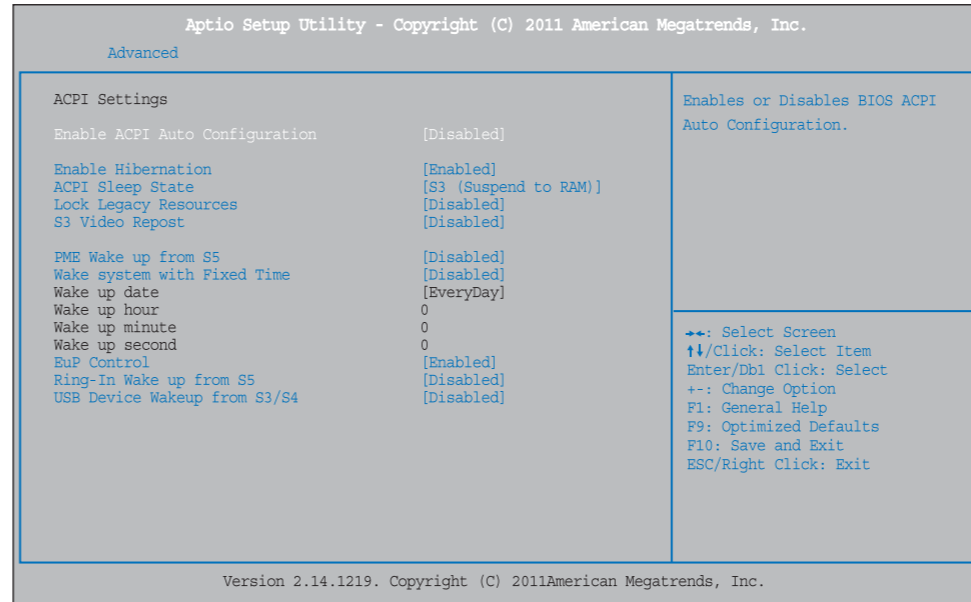
Advanced > PCI Subsystem Settings

- 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#.

Appendix A. BIOS Set up

03. Advanced Menu

- Use this menu to set up for system performance.



Advanced > ACPI Settings

- Enable ACPI Auto Configuration**
- Enable Hibernation**
- ACPI Sleep State**
- Lock Legacy Resources**
- S3 Video Repost**
- PME Wake up from S5**
- Wake system with Fixed Time**
- Wake up date / Wake up hour / Wake up minute / Wake up second**
- EuP Control**
- Ring-In Wake up from S5**
- USB Device Wake up from S3/S4**

The item enables or disables BIOS ACPI Auto Configuration.

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

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

This item enables or disables Lock of Legacy.

The item enables or disables S3 Video repost.

The item enables the system to wake from S5 using PME event.

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.

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

When EuP is enabled, the system will meet EuP requirement.

This item enables the system to wake from S5 using Ring-In event.

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

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

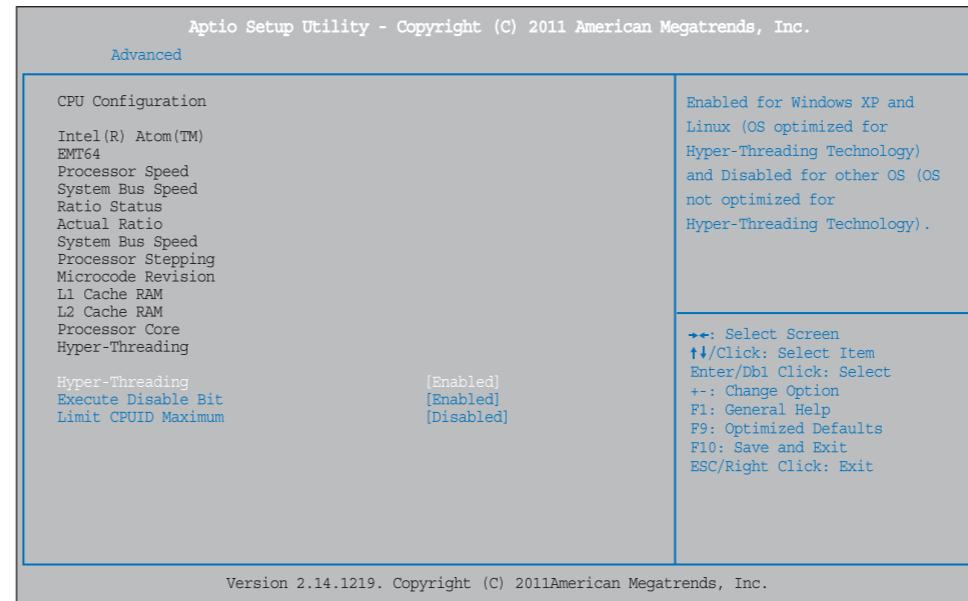
Appendix B

System configuration

Appendix A. BIOS Set up

03. Advanced Menu

- Use this menu to set up for system performance.



Advanced > CPU Configuration

- Hyper Threading Technology**
- Execute Disable Bit**
- Limit CPUID Maximum**

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

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

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.

Appendix A. BIOS Set up

03. Advanced Menu

- Use this menu to set up for system performance.



Advanced > SATA Configuration

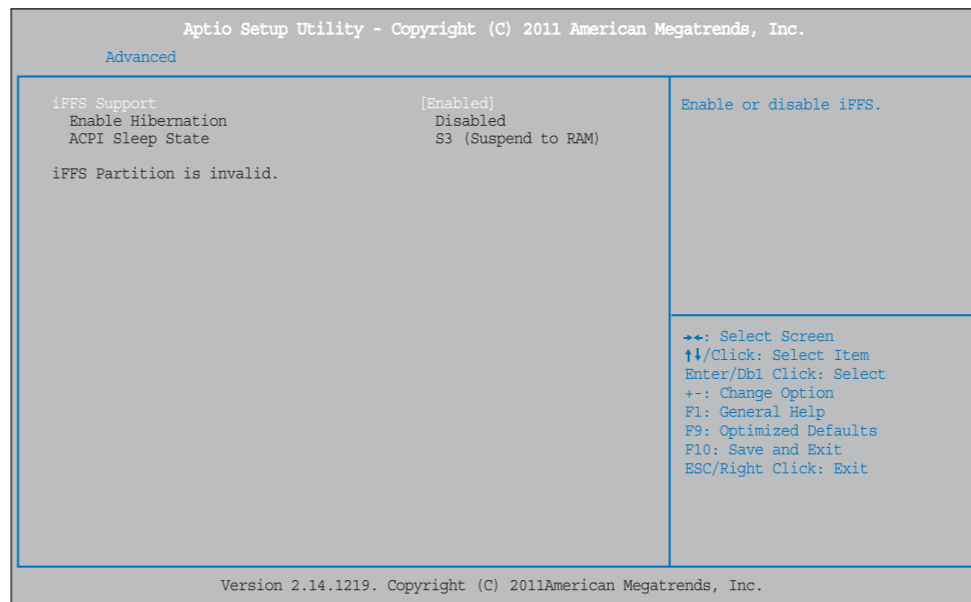
- SATA Controller(s)** This item enables/disables Serial ATA Controller (s) and support IDE / AHCI modes.
- Configure SATA as** This item selects a configuration for SATA controller..

Caution! Basic setup for SPT-3700 is AHCI mode.
If you change this setup carelessly, the system may not be booted.

Appendix A. BIOS Set up

03. Advanced Menu

- Use this menu to set up for system performance.



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.

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu >

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

Appendix B
System configuration

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

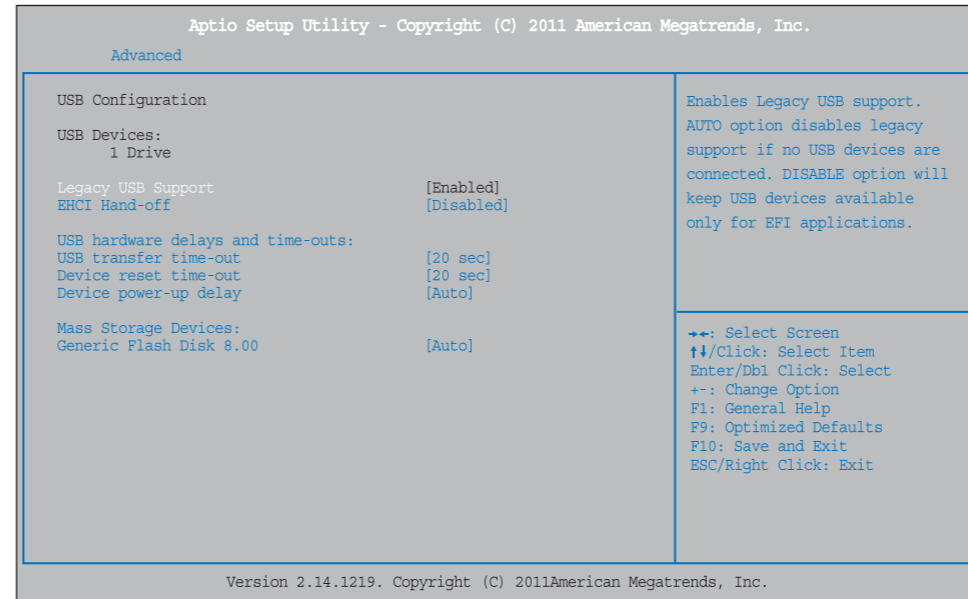
Save & Exit Menu

Appendix B

System configuration

Appendix A. BIOS Set up
03. Advanced Menu

- Use this menu to set up for system performance.



Advanced > USB Configuration

- Legacy USB Support**
- EHCI Hand-Off**
- USB transfer time-out**
- Device reset time-out**
- Device power-up delay**

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).

This is a workaround for Oses without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.

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

This is the USB mass storage device Start Unit command time-out.

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

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu >

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

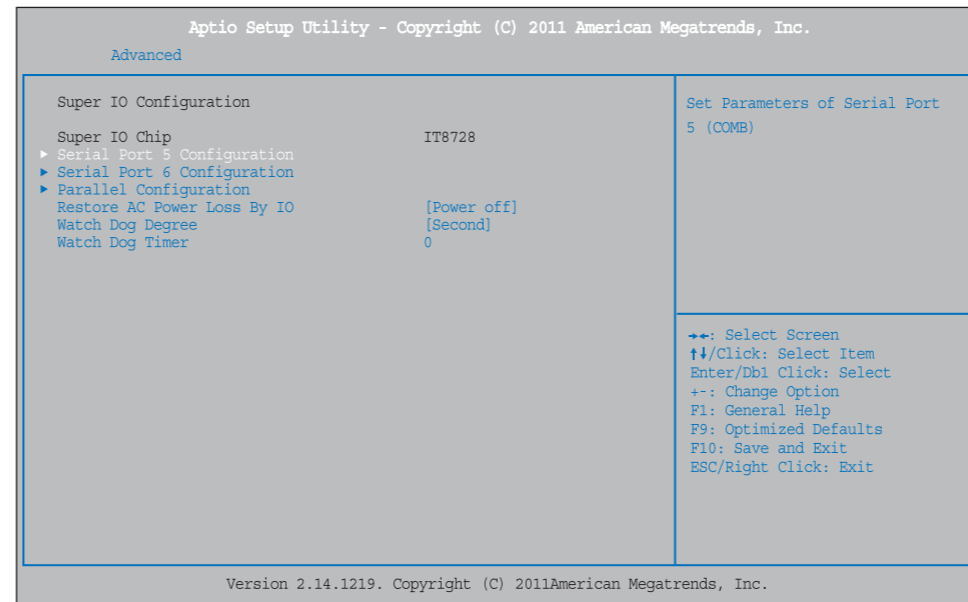
Save & Exit Menu

Appendix B

System configuration

Appendix A. BIOS Set up
03. Advanced Menu

- Use this menu to set up for system performance.



Advanced > Super IO Configuration

- Serial Port 5/6 Configuration**
- Parallel Port Configuration**
- Restore AC Power Loss by IO**

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

Decides to use Parallel Port and sets up IRQ, IO Address, Device Mode, etc.

This setting determines whether the system restarts after a power fail or interrupts occurs.

Options as below.

- Power Off: Leaving the system in power-off status after power recovers.
- Power On: Powering on the system immediately when power returns.
- Last State: Recover the system as before a power fail or interrupts occurs.

- Watch Dog Degree**
- Watch Dog Timer**

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

Sets up the time of Watch Dog Timer function.

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

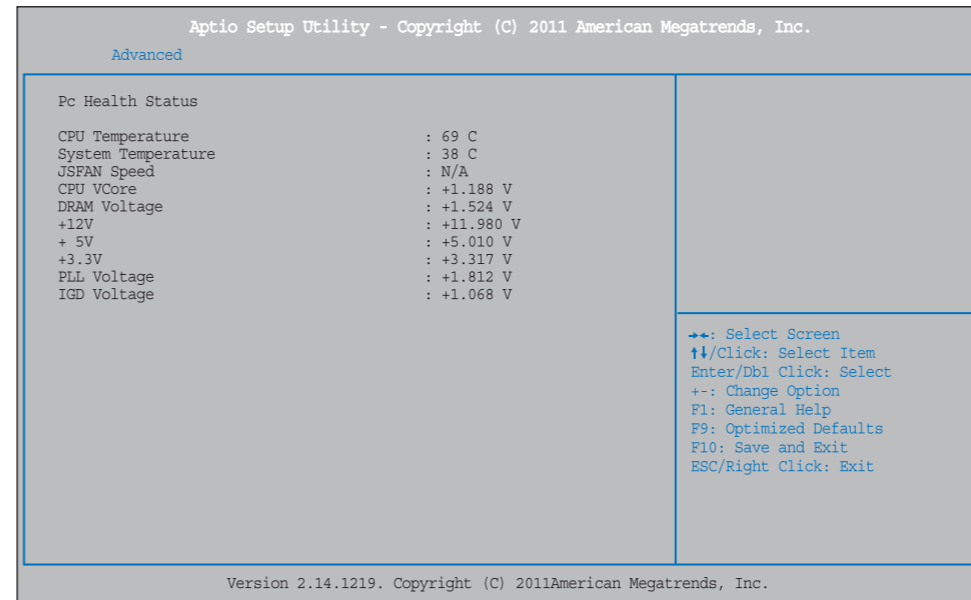
Appendix B

System configuration

Appendix A. BIOS Set up

03. Advanced menu

- Use this menu to set up for system performance.



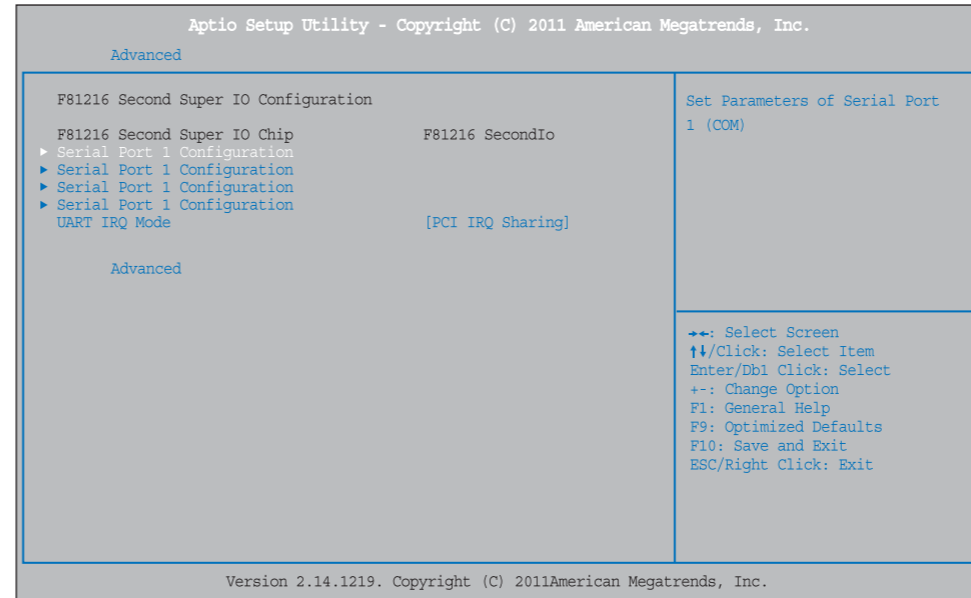
Advanced > H/W Monitor

- 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.

Appendix A. BIOS Set up

03. Advanced menu

- Use this menu to set up for system performance.



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.

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

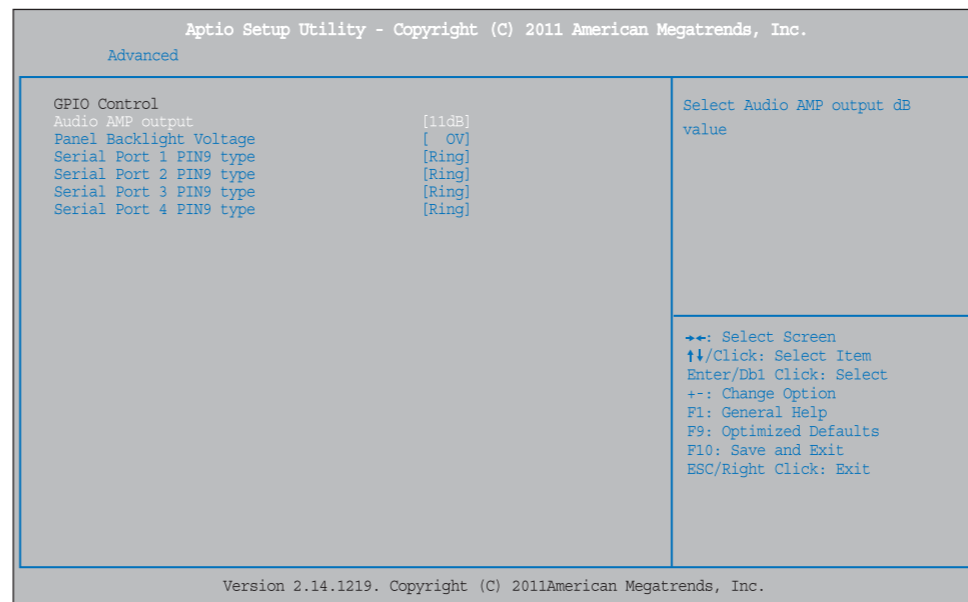
Save & Exit Menu

Appendix B

System configuration

Appendix A. BIOS Set up
03. Advanced menu

- Use this menu to set up for system performance.



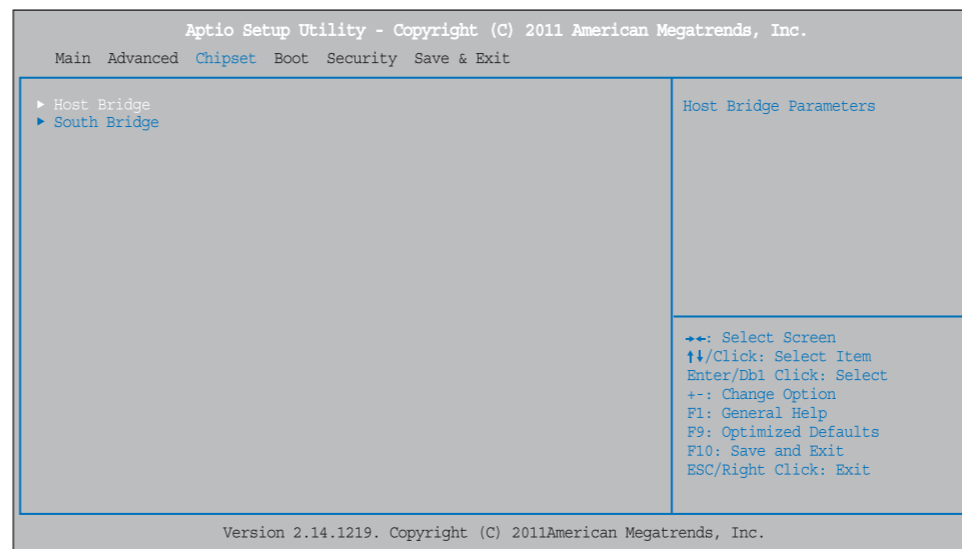
Advanced > GPIO Control

- Audio AMP output** This item allows you to set Audio AMP output dB value.
- Panel Backlight Voltage** This item allows you to set Panel Backlight voltage.
- Serial Port 1/2/3/4 PIN9 type** This item allows you to set the output voltage value of Serial port 1/2/3/4 PIN9 type.

Appendix A. BIOS Set up

04. Chipset Menu(Host Bridge)

- Chipset is the device supporting the data transfer/control between CPU and peripheral components.



Chipset › Host Bridge

You can change the setting of Host Bridge in Intel Atom Processor.

Host Bridge is responsible for main memory(RAM) and graphic control.

e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge) ▶

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

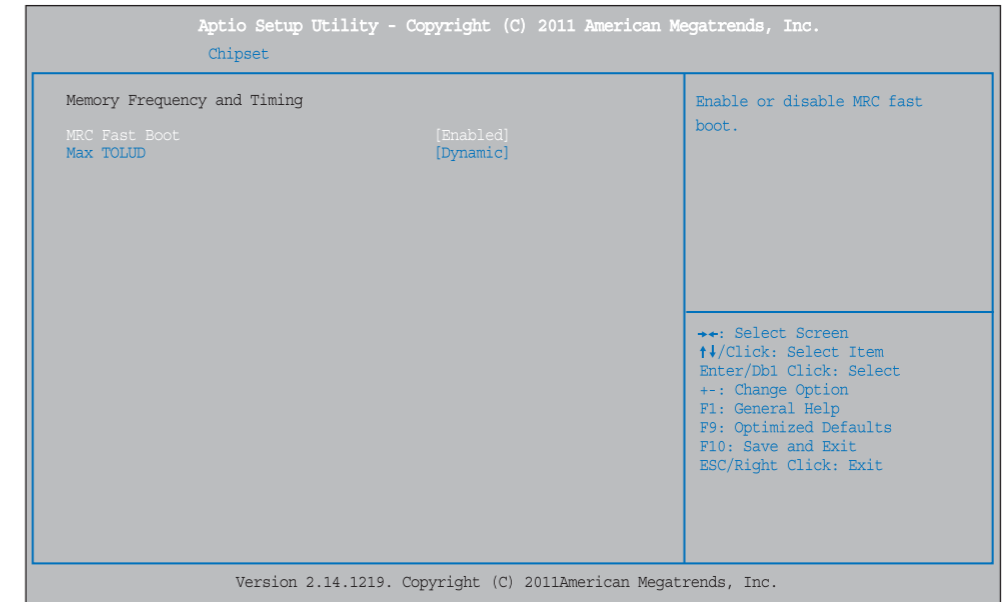
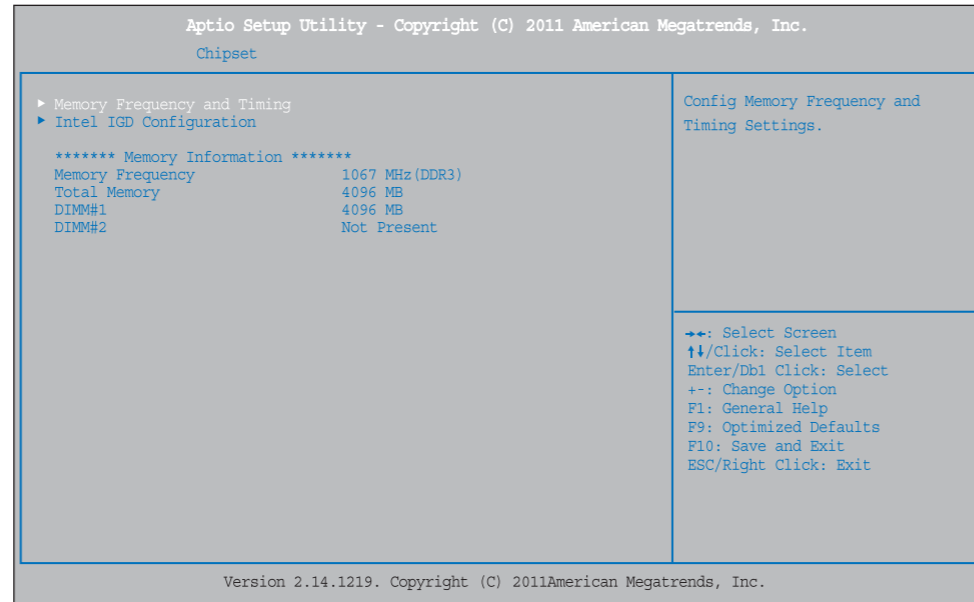
Appendix B

System configuration

Appendix A. BIOS Set up

04. Chipset Menu(Host Bridge)

- Chipset is the device supporting the data transfer/control between CPU and peripheral components.



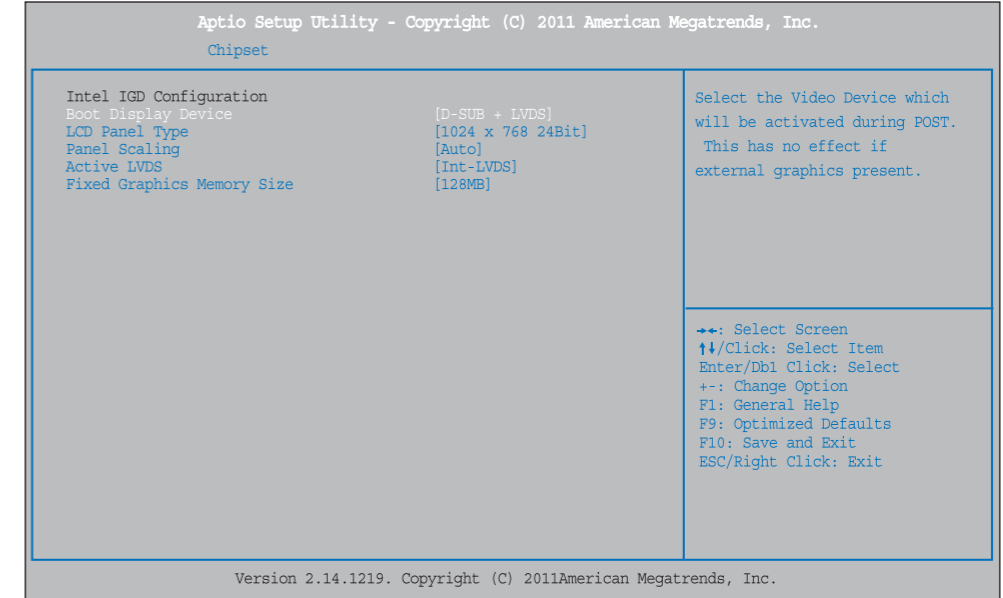
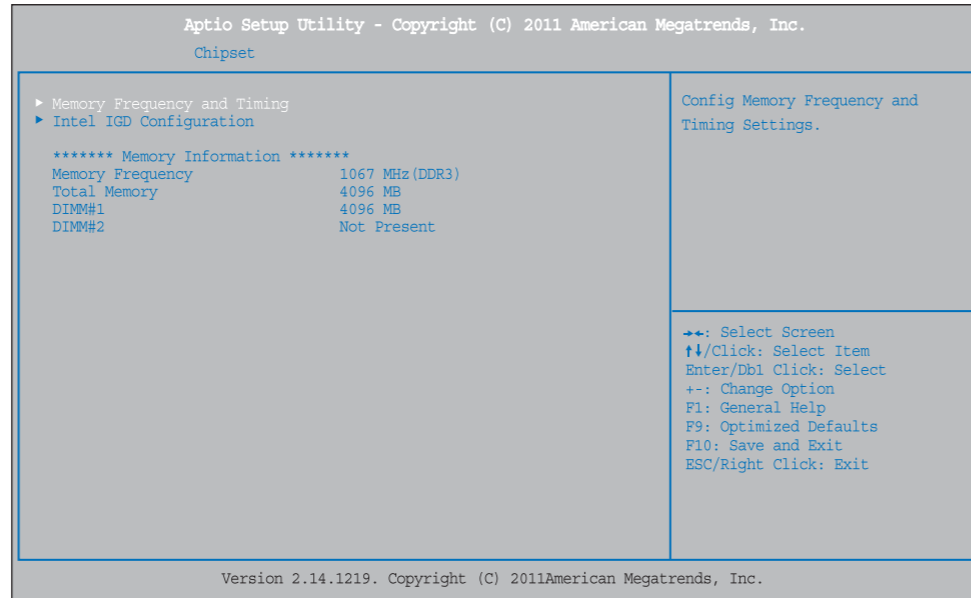
Chipset › Host Bridge › Memory Frequency and Timing

- 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.

Appendix A. BIOS Set up

04. Chipset Menu(Host Bridge)

- Chipset is the device supporting the data transfer/control between CPU and peripheral components.



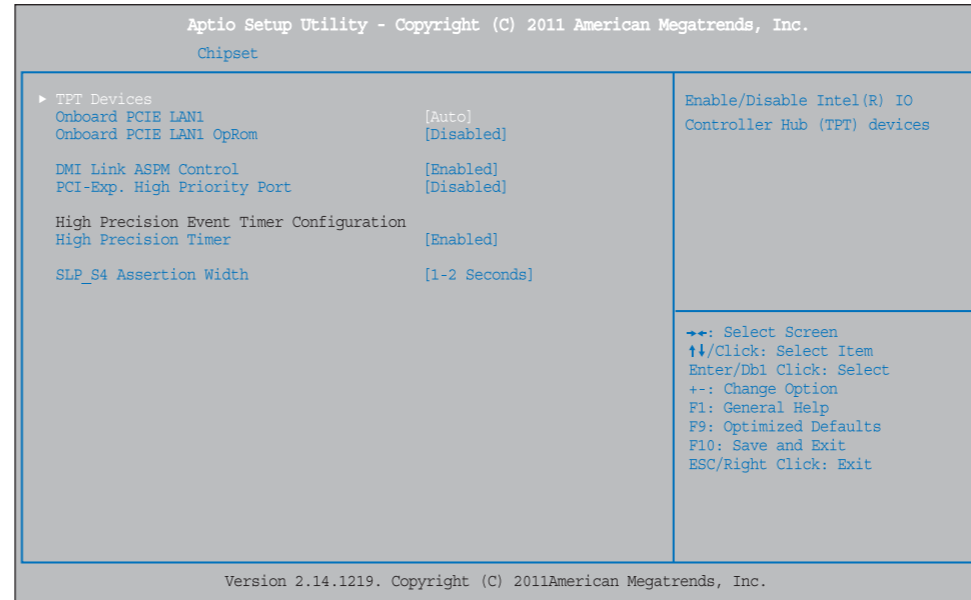
Chipset › Host Bridge › Intel IGD Configuration

- **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.

Appendix A. BIOS Set up

04. 05. Chipset Menu(South Bridge)

- South bridge – You can set the items for PCI bus system. It is responsible for PCI, IDE, USB devices.



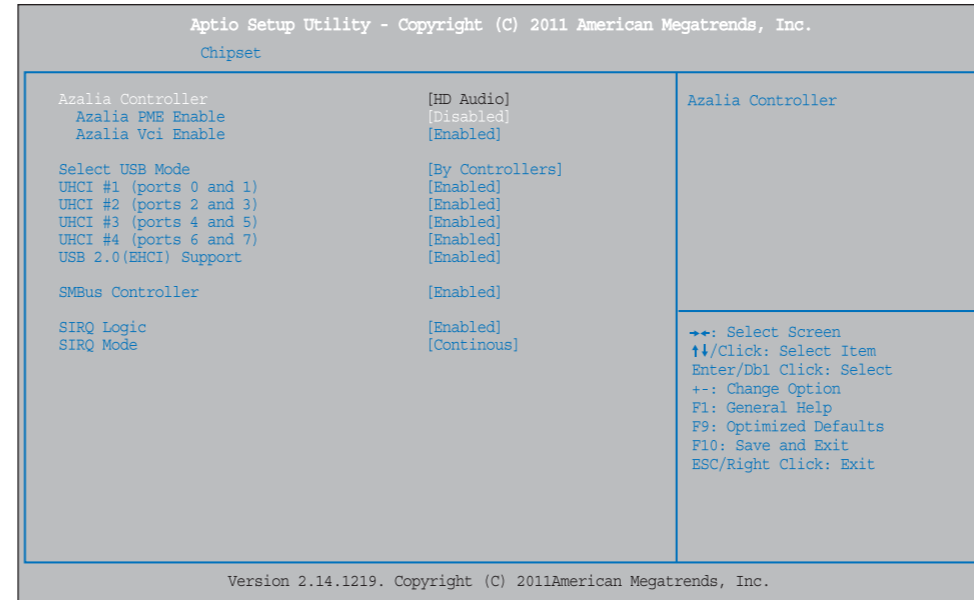
Chipset › South Bridge

- **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.

Appendix A. BIOS Set up

04. 05. Chipset Menu(South Bridge)

- South bridge – You can set the items for PCI bus system. It is responsible for PCI, IDE, USB devices.



Chipset › South Bridge › TPT Device

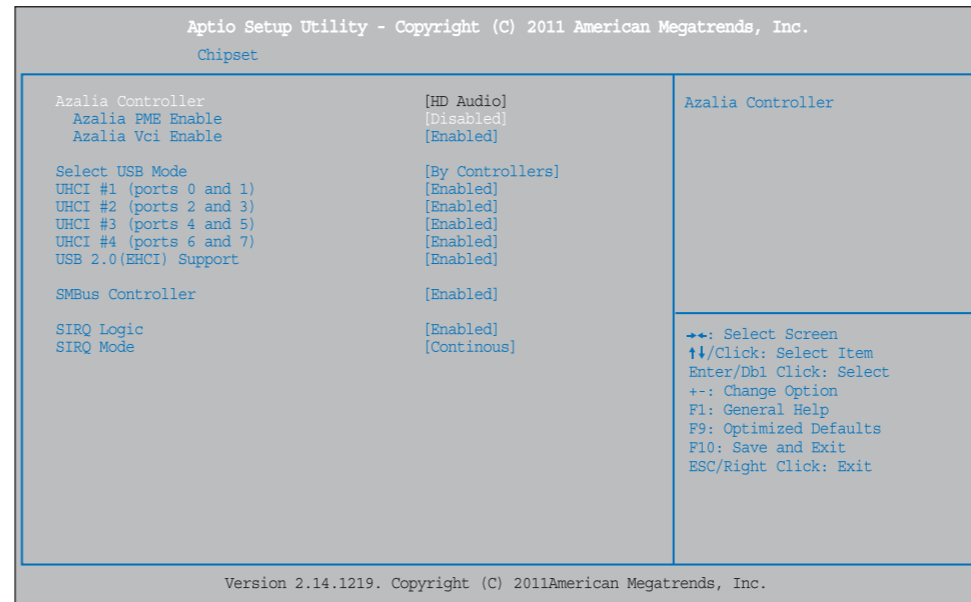
- **Azalia Controller** You can use this item to select the Azalia Controller.
- **Azalia PME Enable** You can use this item to enable or disable Power Management capability of Audio Controller.
- **Azalia Vci Enable** Azalia supports 1 extended VC, which will override ICH VcP settings when enabled.
- **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)**

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

Appendix A. BIOS Set up

04. 05. Chipset Menu(South Bridge)

- South bridge – This section describes configuring the PCI bus system. PCI, IDE, USB devices are set in this section,



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.

Appendix A. BIOS Set up

05. Boot Menu

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

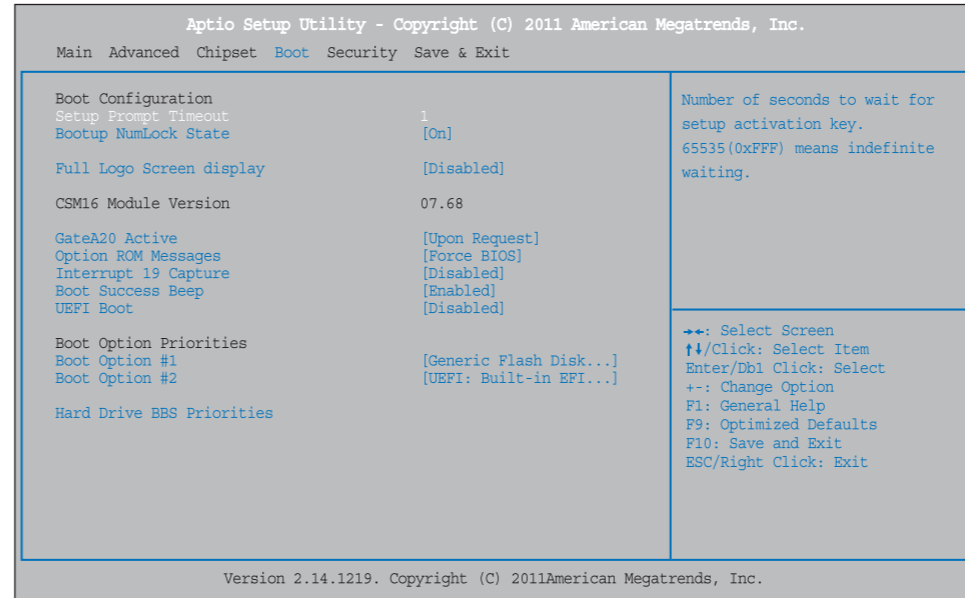
Boot Menu

Security Menu

Save & Exit Menu

Appendix B

System configuration



Setup Prompt Timeout You can use this item to set the number of seconds waiting

- **Bootup Num-Lock State** for setup activation key.

- **Full Screen LOGO Display** You can use this item to select the keyboard NumLock

- **GateA20 Active** State after the system has been switched on. This item allows you to enable or disable Full Screen LOGO Show function.
- 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. When this item is set to Enabled,

- **Boot Success Beep** BIOS will let user know boot success with beep. This item enables or disables boot from the UEFI Devices.

- **UEFI Boot** 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.

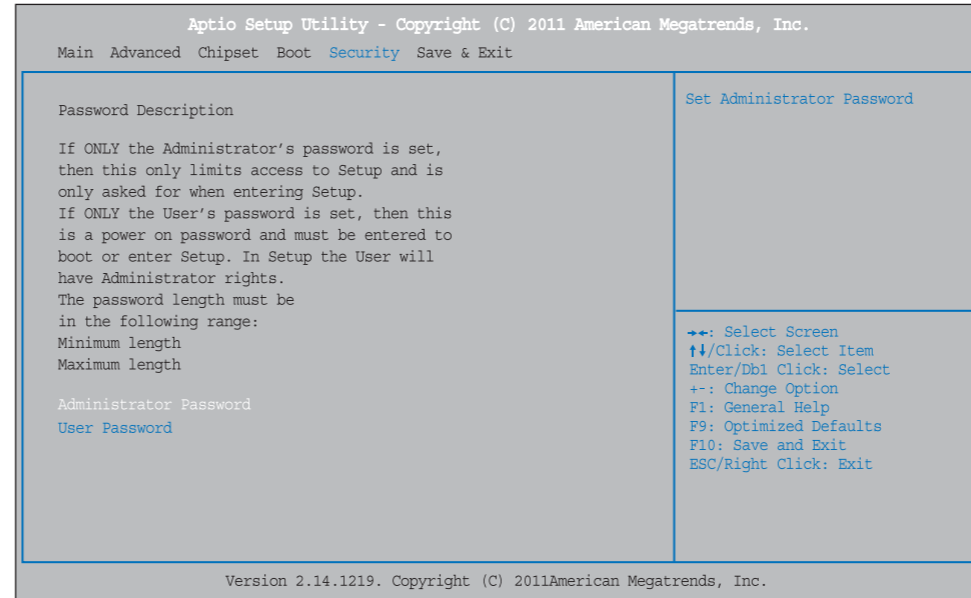
- **Boot Option Priorities** The BIOS will attempt to arrange the hard disk boot sequence automatically.

- **Hard Disk Drive BBS Priorities** 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.

Appendix A. 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.

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A
BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

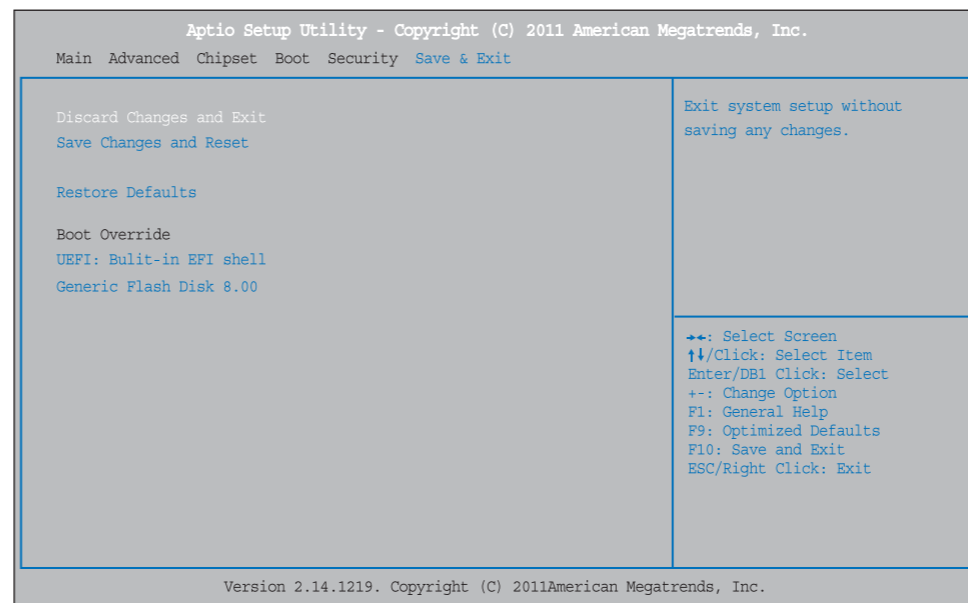
Appendix B

System configuration

Appendix A. 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. This selection allows you to reload the BIOS when problem occurs during system booting sequence.
- Restore Defaults** These configurations are factory settings optimized for this system.
- Boot Override** This item allows you to exit the system setup without saving any changes.

e-Manual SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A BIOS set up

Understanding BIOS Set Up

Main Menu

Advanced Menu

Chipset Menu(Host Bridge)

Chipset Menu(South Bridge)

Boot Menu

Security Menu

Save & Exit Menu

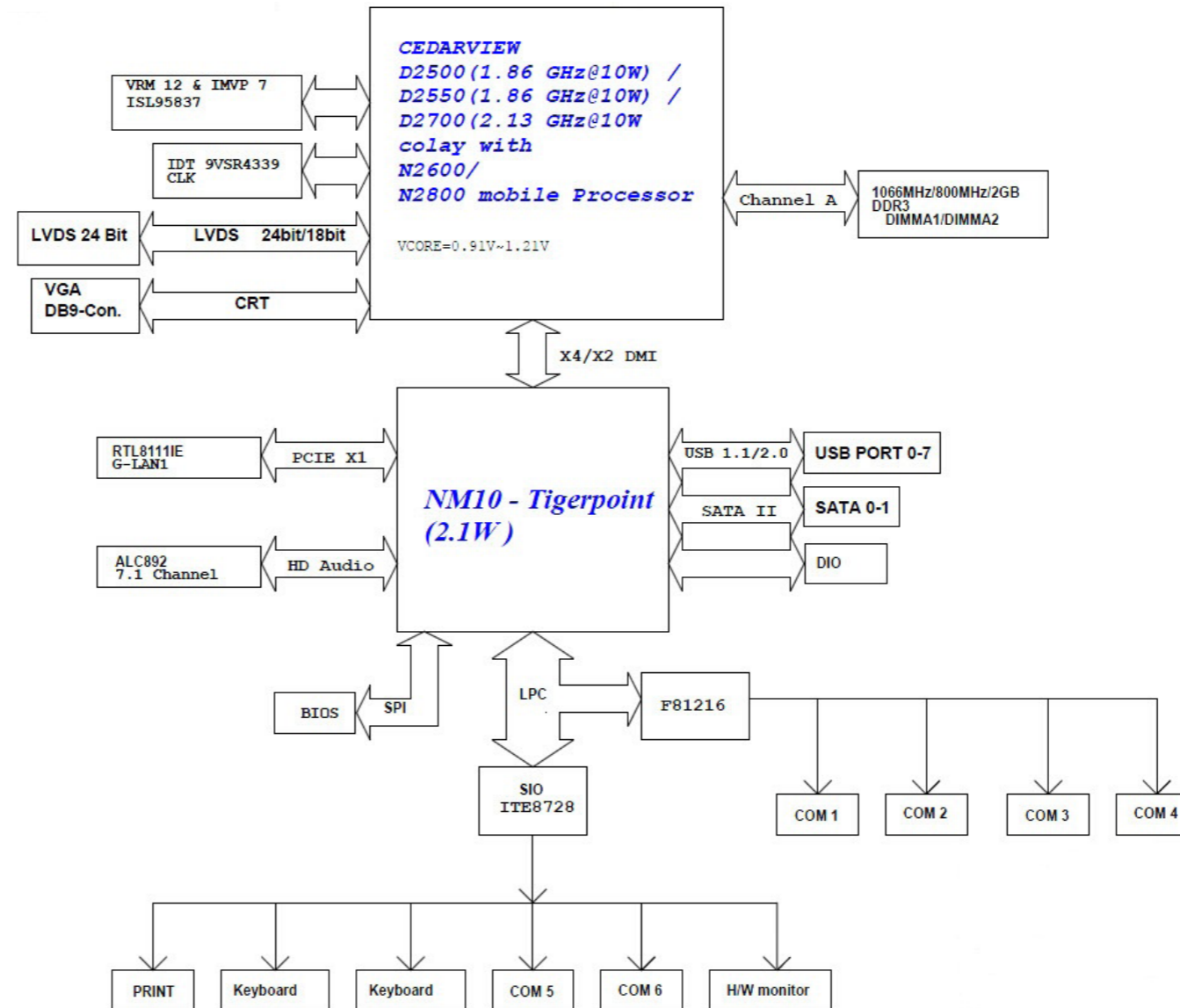
Appendix B

System configuration

Appendix B. System Configuration

01. System Block Diagram

- System Block Diagram EIC10-SAM(D2550)



e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System configuration

System Block Diagram >

Main Board Configuration

A Deal Drawing

Appendix B. System Configuration

02. Main Board Configuration

Main Chipset & Connector

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

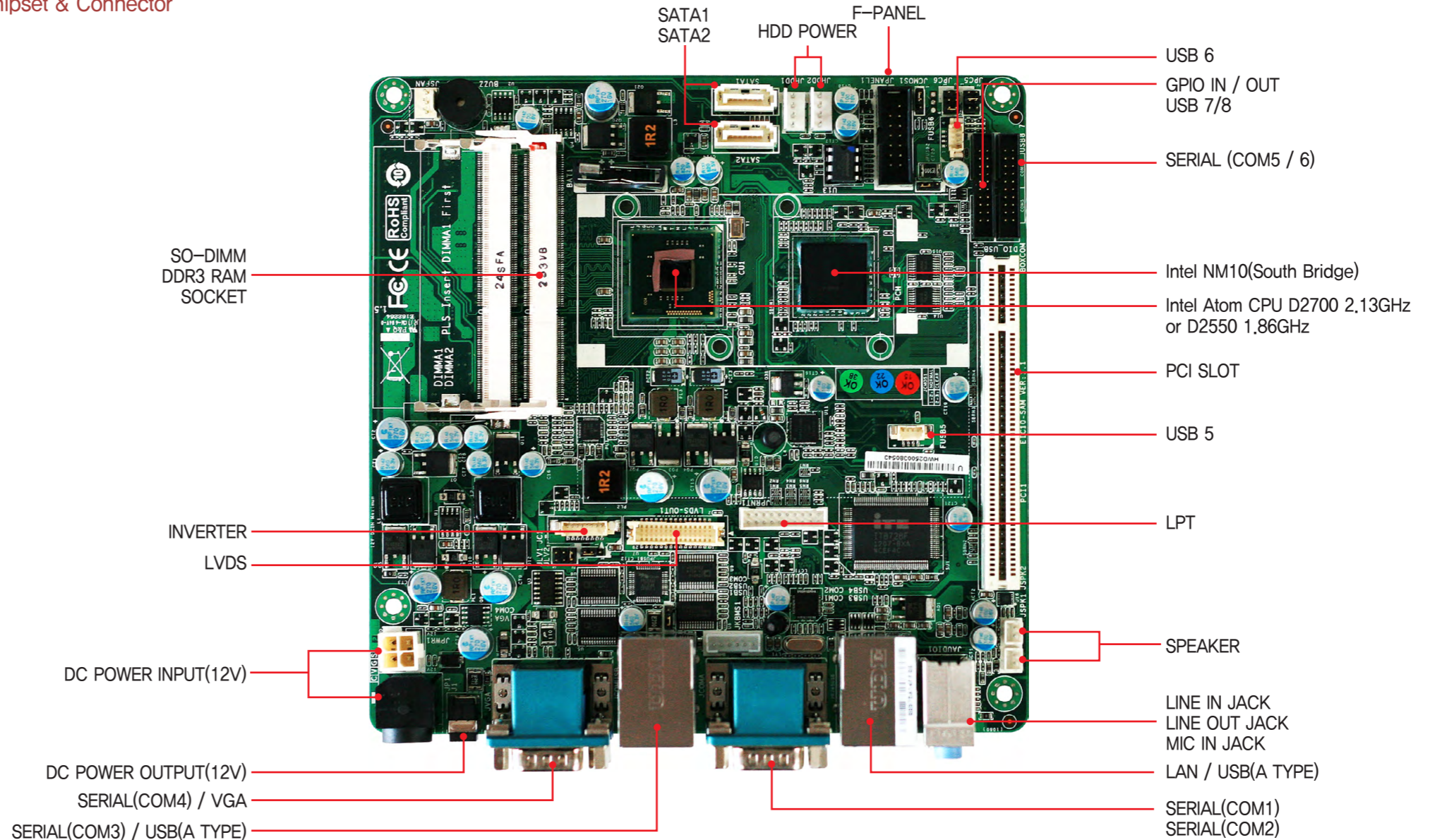
BIOS Set up

Appendix B
System Configuration

System Block Diagram

Main Board Configuration >

A Deal Drawing



Appendix B. System Configuration

02. Main Board Configuration

Main Jumper Setting



BIOS Clear Jumper(JCMOS1)

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



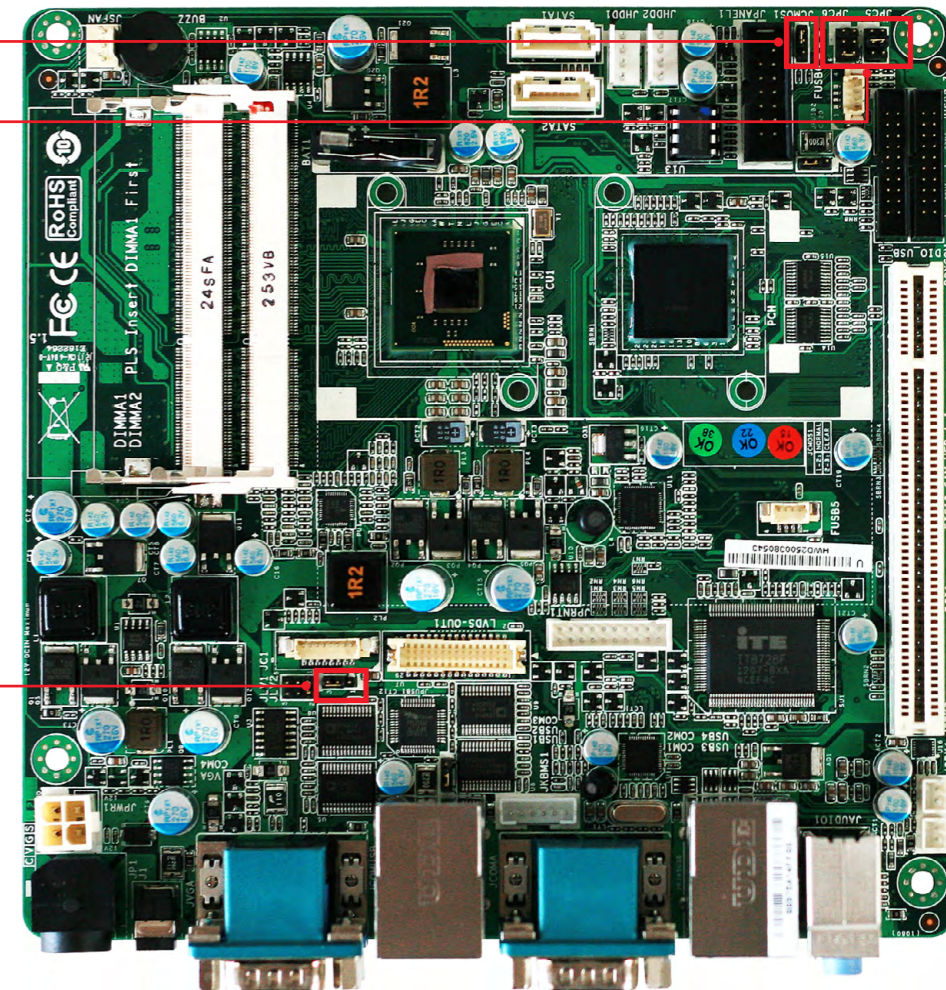
– Serial6(JPC6)

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)

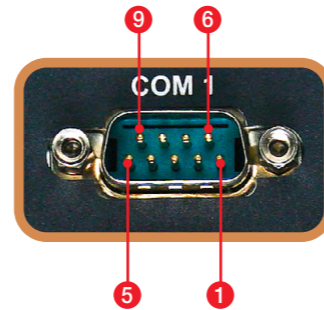


Appendix B. System Configuration

02. Main Board Configuration

- IO pin map

Serial communication port



COM1/2/4(DSUB9 MALE)

Pin	Assignment
1	Carrier detect (DCD)
2	Received data (RXD)
3	Transmitted data (TXD)
4	Data terminal ready (DTR)
5	Signal ground (GND)
6	Data set ready (DSR)
7	Request to send (RTS)
8	Clear to send (CTS)
9	Ring, 5V or 12V

COM3/COM6(RJ45)

Pin	Assignment
1	RI / 15V / 12V
2	DSR
3	TXD
4	RXD
5	RTS
6	LTS
7	GND
8	DTR

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

System Block Diagram

Main Board Configuration ▶

A Deal Drawing

Appendix B. System Configuration

02. Main Board Configuration

- IO pin map

USB & LAN Ports



USB Port(TYPE A)

Pin Num	Assignment
1	VBUS(5V)
2	D -
3	D +
4	GND

LAN Port(RJ45)

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

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B
System Configuration

System Block Diagram

Main Board Configuration ▶

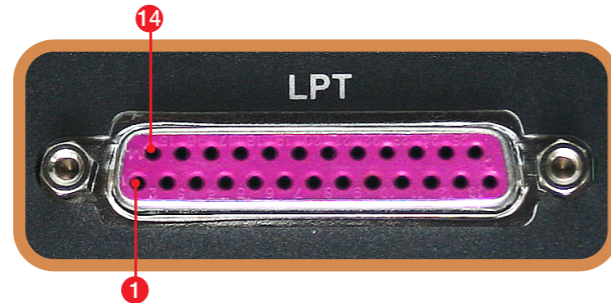
A Deal Drawing

Appendix B. System Configuration

02. Main Board Configuration

- IO pin map

Printer port



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	-

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

System Block Diagram

Main Board Configuration >

A Deal Drawing

Appendix B. System Configuration

02. Main Board Configuration

- IO pin map

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

Switch Selection	Voltage
OFF	12V (Default)
ON	24V

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

System Block Diagram

Main Board Configuration >

A Deal Drawing

Appendix B. System Configuration

02. Main Board Configuration

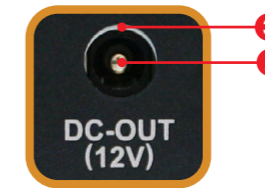
- IO pin map

DC Power Jack



Adapter Input +12V

Pin Num	Description
1	+12V
2	+12V
3	GND
4	GND



Adapter Output +12V

Pin Num	Description
1	NC
2	+12V
3	GND

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B
System Configuration

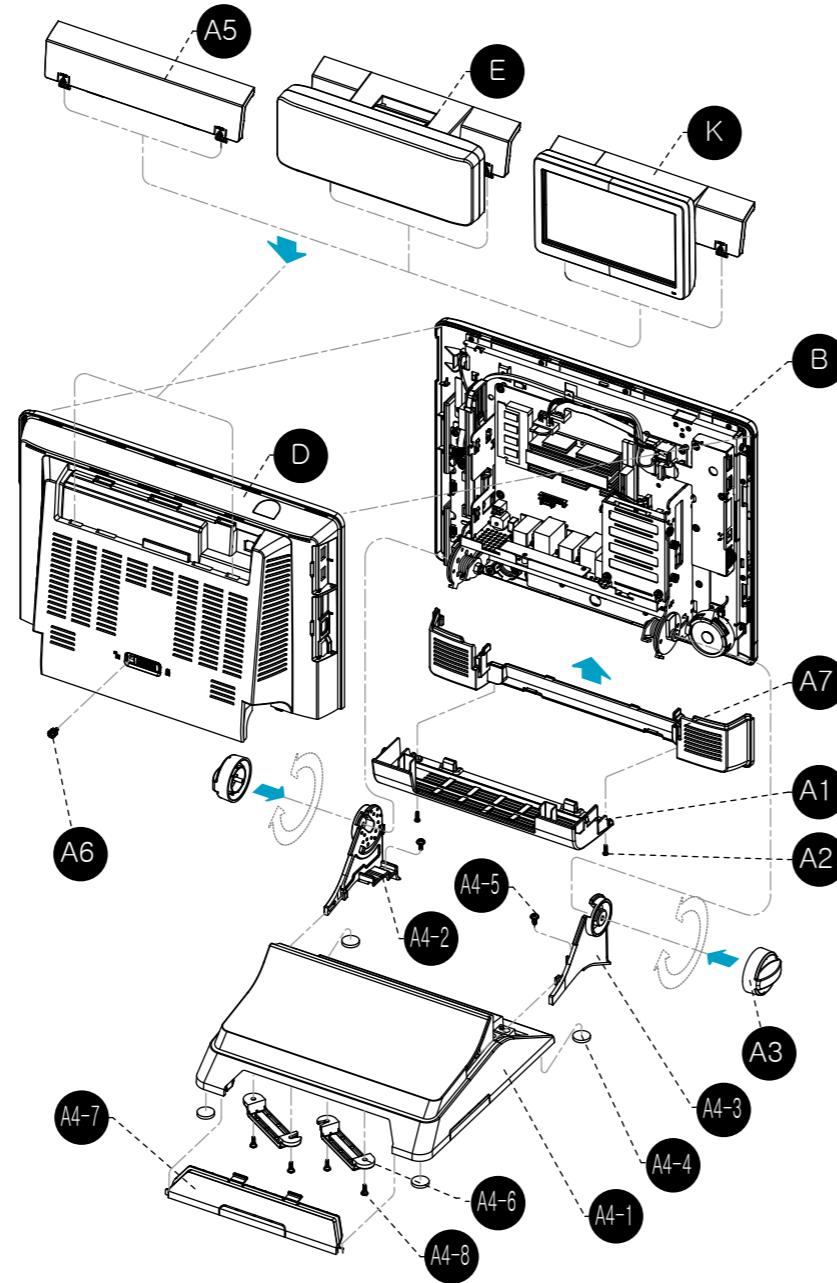
System Block Diagram

Main Board Configuration ▶

A Deal Drawing

Appendix B. System Configuration

03. A Deal Drawing



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
B	-	ASS'Y-MAIN DISPLAY	1	N	
A1	JK72-20283A	PMO-COVER CABLE	1	Y	
A2	S600300020A	SCREW-TAPTITE	2	Y	
A3	JK95-70330A	MEA-LEVER HINGE	2	Y	
A4	JK91-10036A	PHA-MAIN STAND	1	Y	
A4-1	JK72-20304A	PMO-STAND	1	Y	
A4-2	JK70-20101B	IPR-HINGE SUPPORT(R)	1	Y	
A4-3	JK70-20101A	IPR-HINGE SUPPORT(L)	1	Y	
A4-4	JK73-11023A	RMO-FOOT RUBBER	4	Y	
A4-5	S600300011A	SCREW-TAPTITE	2	Y	
A4-6	JK72-20303A	PMO-HOLDER WIRE	2	Y	
A4-7	JK72-20302A	PMO-COVER DUMMY STAND	1	Y	
A4-8	S600300025A	SCREW-TAPTITE	4	Y	
E	QCD-V202	OPTION-CDP (CHARACTER)	1	Y	OPTION
	QCD-G256	OPTION-CDP (GRAPHIC)		Y	OPTION
A5	JK72-20286	PMO-COVER REAR DUMMY	1	Y	Buyer SPEC(Silk)
D	JK95-70013B	PRA-COVER REAR(T)	1	Y	
A6	S600100037A	SCREW-MACHINE COIN	1	Y	
A7	JK72-20295A	PMO-REAR DISP BOTTOM	1	Y	
K	QCD-S3L7NB	OPTION 7"DUAL	1	Y	OPTION

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

BIOS Set up

Appendix B

System Configuration

System Block Diagram

Main Board Configuration

A Deal Drawing

Appendix B. System Configuration

03. A Deal Drawing

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

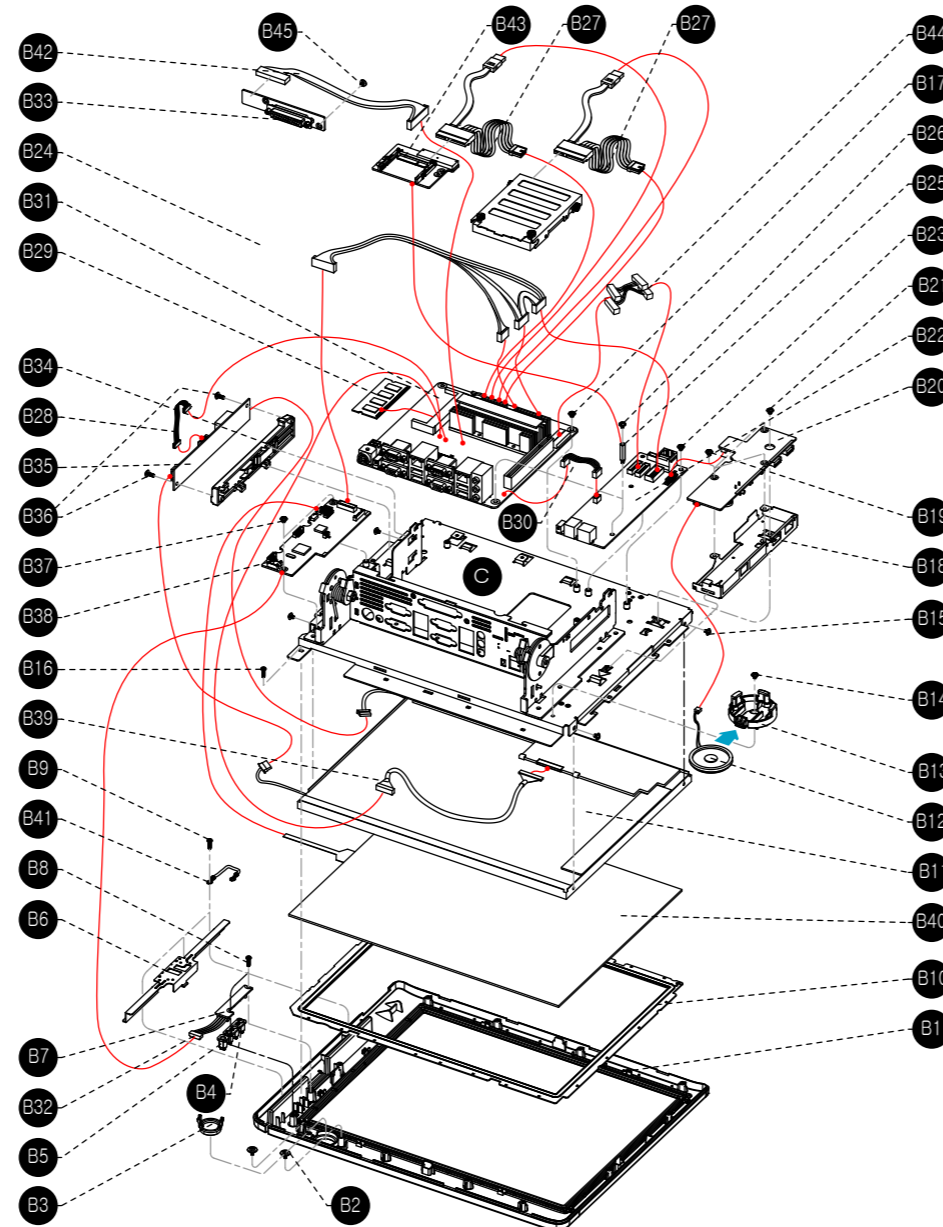
BIOS Set up

Appendix B
System Configuration

System Block Diagram

Main Board Configuration

A Deal Drawing ▶



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
B1	JK72-20288	PMO-FRONT DISPLAY	1	Y	Buyer SPEC(Silk)
B2	S600200023A	SCREW-TAPPING	2	Y	
B3	JK72-20284A	PMO-COVER DECO	1	Y	
B4	JK72-20294A	PMO-LENS LED	1	Y	
B5	JK72-20602A	PMO-LED CAP	1	Y	
B6	JK70-20097A	IPR-BRKT MSR	1	Y	
B7	JK92-10018C	PBA-SUB LED B'D,SPT-3700,SVC	1	Y	
B8	S600300020A	SCREW-TAPTITE	2	Y	
B9	S600300020A	SCREW-TAPTITE	3	Y	
B10	JK73-20229A	RMO-WATER PROOF	1	Y	
B11	JK07-00014A	LCD-TFT, AUO	1	Y	
B12	S3004000001	UNIT-SPEAKER	1	Y	
B13	JK72-20291A	PMO-HOLDER SPEAKER	1	Y	
B14	S600100016A	SCREW-MACHINE	1	Y	
B15	S600100016A	SCREW-MACHINE	4	Y	
B16	S600300020A	SCREW-TAPTITE	11	Y	
B17	S600100016A	SCREW-MACHINE	3	Y	
B18	JK95-70480A	MEA-BRKT SD CARD	1	Y	
B19	S600100016A	SCREW-MACHINE	3	Y	
B20	JK92-10018E	PBA-SUB USB B'D,SPT-3700,SVC	1	Y	
B21	S600100016A	SCREW-MACHINE	1	Y	
B22	JK92-10018A	PBA-SUB I/O Extension B'D,SPT-3700,SVC	1	Y	
B23	S600100016A	SCREW-MACHINE	4	Y	
B24	JK39-80005A	HARNES-I/O EXT TO TOUCH	1	Y	
B25	JK70-70046A	ICT-MACHINE HEXA	2	Y	OPTION
B26	S600100016A	SCREW-MACHINE	2	Y	
B27	S39090001A	HARNES-SATA	1	Y	
B28	JK39-80003A	HARNES-INVERTER	1	Y	
B29	JK95-70214A	UNIT-RAM	1	Y	DDR3,1G,SODIMM
	JK95-70215A				DDR3,2G,SODIMM
B30	JK39-40824A	HARNES-SPEAKER	1	Y	
B31	JK95-70210C	UNIT-MOTHER B'D	1	Y	
B32	JK39-80002A	HARNES-MSR TO LED	1	Y	
B33	JK92-10018B	PBA-SUB LPT B'D,SPT-3700	1	Y	
B34	JK72-20289A	PMO-HOLDER INVERTER	1	Y	
B35	S4401001171	UNIT-INVERTER MODULE	1	Y	
B36	S600200006A	SCREW-TAPPING	2	Y	
B37	S600100016A	SCREW-MACHINE	2	Y	
B38	JK92-10019A	PBA-SUB TOUCH B'D	1	Y	AMT TOUCH
	JK92-10018D				ELO TOUCH
B39	JK39-80004A	HARNES-LVDS	1	Y	
B40	JK95-70378E	ELA-TOUCH PANEL 5W	1	Y	
B41	JK39-40661A	HARNES-GND	1	Y	
B42	JK39-40880A	HARNES-LPT	1	Y	
B43	JK92-10011A	PBA-SUB SPT-7000,CFAST	1	Y	OPTION
B44	S390800004A	HARNES-JOINT	1	Y	
B45	S600100016A	SCREW-MACHINE	2	Y	
C	-	ASS'Y-FRAME MAIN	1	Y	

Appendix B. System Configuraton

03. A Deal Drawing

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

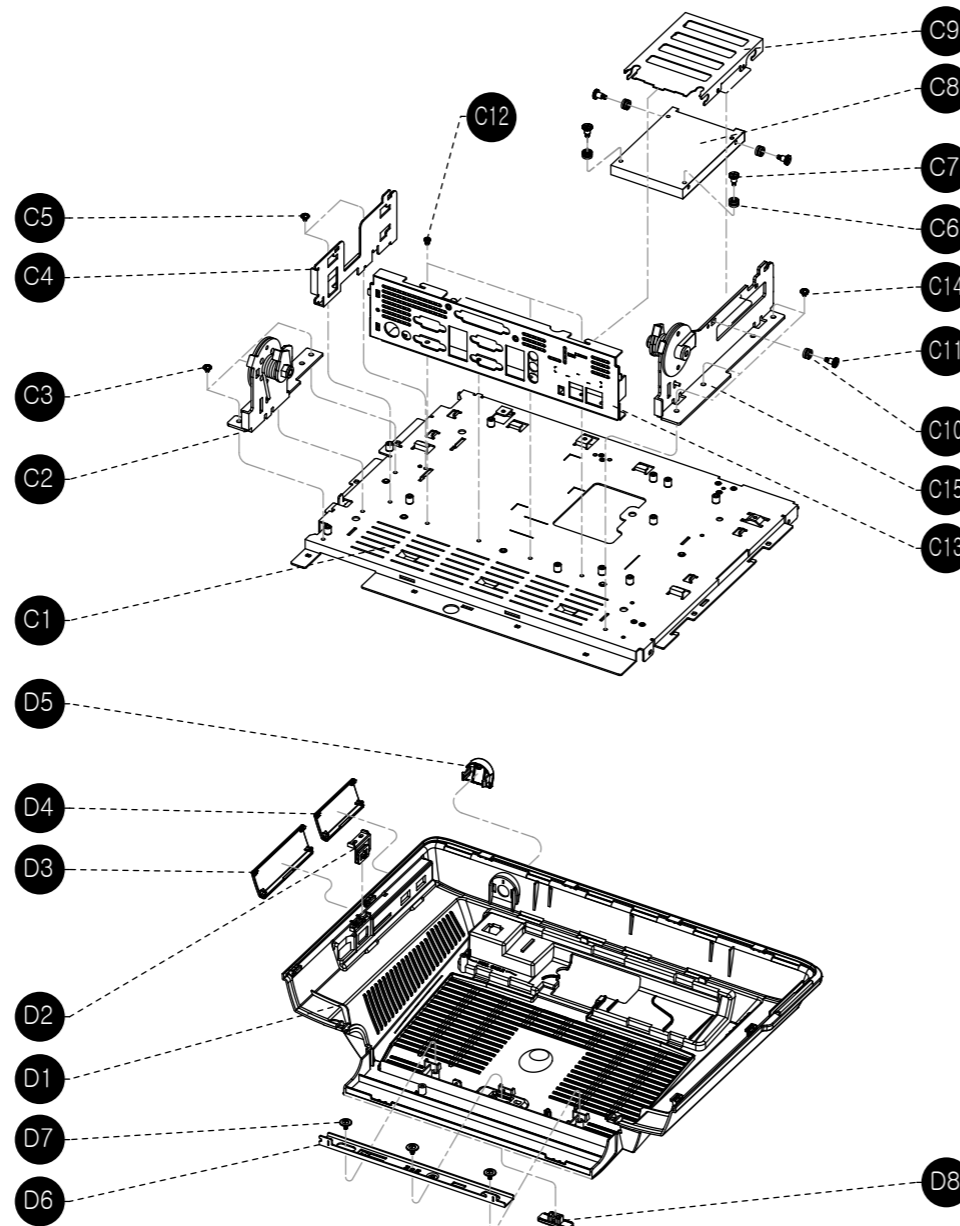
BIOS Set up

Appendix B
System Configuration

System Block Diagram

Main Board Configuration

A Deal Drawing >



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
C1	JK95-70328A	MEA-BRKT DISPLAY(M)	1	Y	
C2	JK95-70335C	MEA-BRKT HINGE(L)	1	Y	
C3	S600100016A	SCREW-MACHINE	3	Y	
C4	JK70-20100A	IPR-BRKT SIDE(M)	1	Y	
C5	S600100016A	SCREW-MACHINE	2	Y	
C6	JK73-11017A	RMO-RUBBER INSULATOR	4	Y	
C7	S600100036A	SCREW-MACHINE HAND	4	Y	
C8	JK95-70209C	UNIT-HDD	1	Y	
C9	JK70-20090B	IPR-BRKT HDD	1	Y	
C10	JK73-11017A	RMO-RUBBER INSULATOR	2	Y	
C11	S600100036A	SCREW-MACHINE HAND	2	Y	
C12	S600100031A	SCREW-MACHINE	4	Y	
C13	JK95-70328F	MEA-BRKT IO SHEILD(V)	1	Y	
C14	S600100016A	SCREW-MACHINE	3	Y	
C15	JK95-70335D	MEA-BRKT HINGE(R)	1	Y	

NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
D	JK95-70013B	PRA-COVER REAR(T)	1	Y	
D1	JK72-20296A	PMO-REAR DISP TOP	1	Y	
D2	JK72-20281A	PMO-BUTTON POWER	1	Y	
D3	JK72-20285B	PMO-COVER POWER	1	Y	
D4	JK72-20287A	PMO-COVER USB	1	Y	
D5	JK72-20282A	PMO-COVER ANTENNA	1	Y	
D6	JK70-20096A	IPR-BRKT LOCK(R)	1	Y	
D7	JK600200023A	SCREW-TAPPING	3	Y	
D8	JK72-20293A	PMO-KNOB LOCK	1	Y	

Appendix B. System Configuration

03. A Deal Drawing

e-Manual
SPT-3700

System Introduction

System Installation

System Utilization

System Expansion

Appendix A

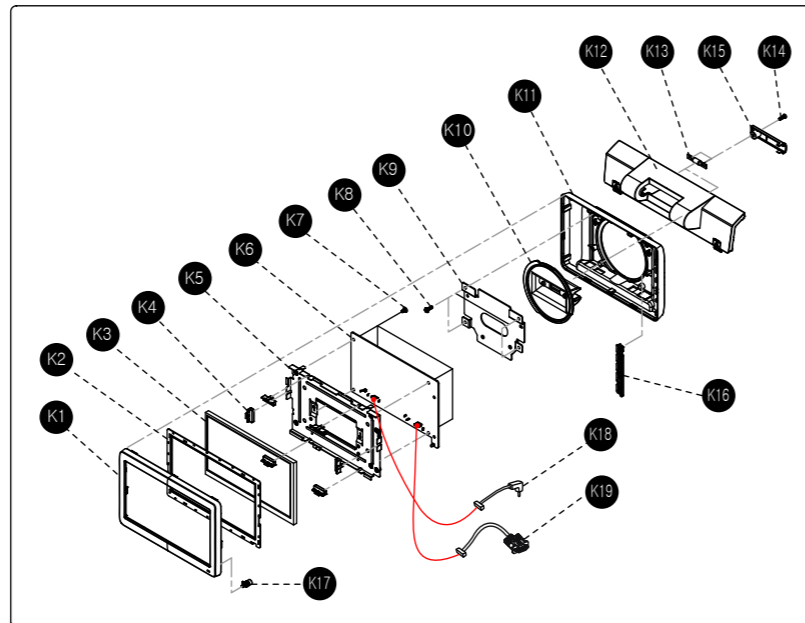
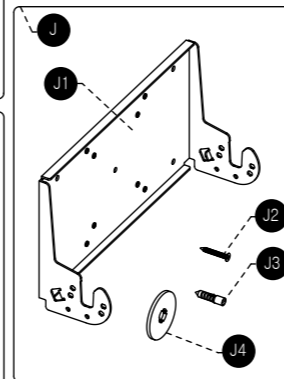
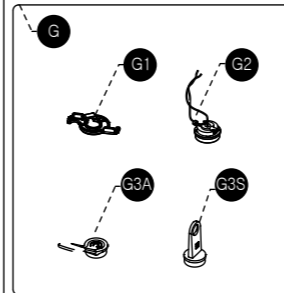
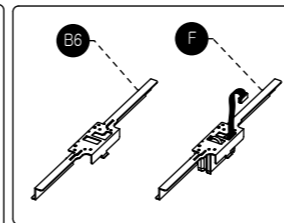
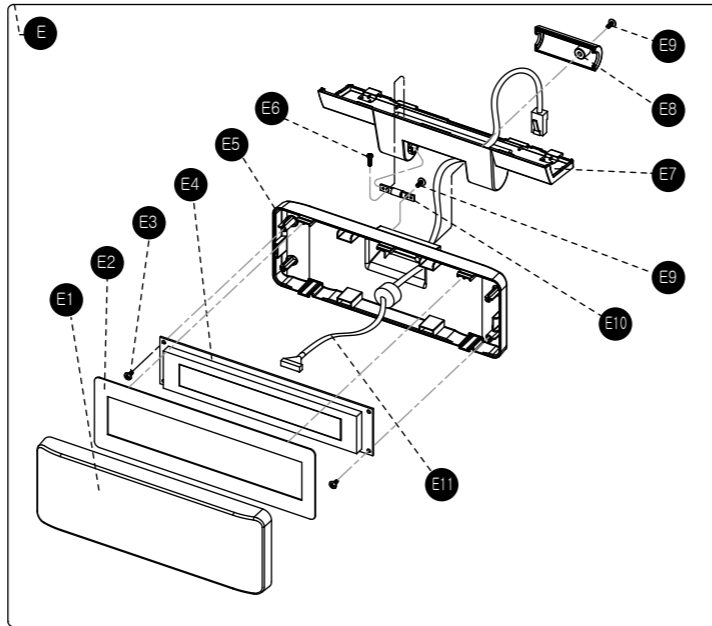
BIOS Set up

Appendix B
System Configuration

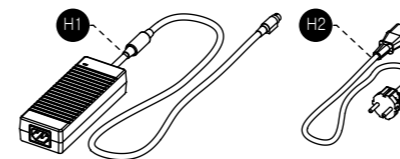
System Block Diagram

Main Board Configuration

A Deal Drawing



Part Drawing(Power)



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
E	QCD-V202	OPTION-CDP(CHARACTER)	1	Y	OPTION
	QCD-G256	OPTION-CDP(GRAPHIC)			
E1	JK72-20299A	PMO-WINDOW VFD	1	Y	
E2	JK68-40120A	LABEL(R)-VFD SHEET	1	Y	
E3	S600300020A	SCREW-TAPTITE	2	Y	
E4	JK46-00006A	UNIT-VFD MODULE(CHARACTER)	1	Y	
	JK46-00007A	UNIT-VFD MODULE(GRAPHIC)			
E5	JK72-20298A	PMO-REAR VFD(M)	1	Y	
E6	S600300020A	SCREW-TAPTITE	1	Y	
E7	JK72-20297A	PMO-HOLDER VFD(M)	1	Y	
E8	JK72-20300A	PMO-REAR VFD DUMMY	1	Y	
E9	S600300020A	SCREW-TAPTITE	1	Y	
E10	JK75-40004A	MEC-HINGE ASS'Y	1	Y	
E11	JK39-40727A	HARNES-POLE	1	Y	

NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
K	QCD-S3L7NB	OPTION 7"DUAL	1	Y	OPTION
K1	JK72-20592A	PMO-LCD FRONT	1	Y	
K2	JK73-20016A	RMO-WATER PROOF(P)	1	Y	
K3	JK07-00023A	HW-DISPLAY-LCD	1	Y	
K4	JK73-11043A	RMO-RUBBER LCD	6	Y	
K5	JK70-20238A	IPR-BRKT LCD	1	Y	
K6	JK49-00003C	HW-7INCH AD B'D	1	Y	
K7	S600100016A	SCREW-MACHINE	4	Y	
K8	S600200006A	SCREW-TAPPING	4	Y	
K9	JK70-20240A	IPR-PLATE REAR(P)	1	Y	
K10	JK72-20596A	PMO-HOLDER HINGE(D)	1	Y	
K11	JK72-20593B	PMO-LCD REAR	1	Y	
K12	JK72-20603A	PMO-HOLDER LCD	1	Y	
K13	JK75-40004A	MEC-HINGE ASS'Y	2	Y	
K14	S600300020A	SCREW-TAPTITE	4	Y	
K15	JK72-20604A	PMO-HOLDER DUMMY	1	Y	
K16	JK72-20594A	PMO-BUTTON(P)	1	Y	
K17	JK72-20600A	PMO-COVER LED(P)	1	Y	
K18	JK39-60085A	HW-HARNES-POWER	1	Y	
K19	JK39-60086A	HW-HARNES-VGA CABLE	1	Y	

NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
B6	JK70-20097A	IPR-BRKT MSR	1	Y	NONE MSR
F	QMR-T370	OPTION-MSR(TRACK 1/2/3)	1	Y	OPTION
G	QDK-T305	OPTION-DALLAS(M)	1	Y	PROBE + HOLDER(5EA)
	QDK-T310	OPTION-DALLAS(M)			PROBE + HOLDER(10EA)
G1	JK72-20290A	PMO-HOLDER PROBE	1	Y	
G2	JK95-70134C	ELA UNIT-IBUTTON PROBE	1	Y	
G3A	JK95-70130B	ELA UNIT-HOLDER DALLAS	1	Y	ANGLE TYPE
G3S	JK95-70196A	ELA UNIT-HOLDER DALLAS	1	Y	STRAIGHT TYPE
J	EWM-Q300	OPTION-WALL MOUNT	1	Y	
J1	JK70-20134A	IPR-BRKT WALL	1	N	
J2	-	SCREW	4	N	
J3	-	ANCHOR	4	N	
J4	JK70-60035A	RMO-RUBBER HINGE	2	Y	

NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
H1	JK44-40009D	POWER-SMPS	1	Y	
	JK39-20004A				EUROPE,BLK
	JK39-20004B				USA,SVT
	JK39-20004C				UK,ASTA
H2	JK39-20004D	CBF POWER CORD	1	Y	AUSTRALIA
	JK39-20004E				KOREA
	JK39-20004F				SOUTH AFRICA
	JK39-20004G				ISRAEL