

Point-of-sale system

IMPREX D5



User's manual

-Table of Contents-

POSBANK USER'S MANUAL REVISION HISTORY	4
PREFACE	5
SYMBOL; MARK	6
COPYRIGHT	7
WARRANTY	8
SAFETY INSTRUCTIONS	9
NOTICE	10
LIABILITY LIMITATION	11
INSTALLATION RECOMMENDATIONS	12
1.PRODUCTOVERVIEW.....	13
(1) INSIDE YOUR PACKAGE	13
(2) PRE-INSTALLATION PREPARATION	15
(3) PRODUCT OUTLINE	15
(4) CONFIGURATION	16
(5) I/O PORT: DETAILS	19
(6) INSTALLATION OF OPTIONAL DEVICES: CDP	20
(7) INSTALLATION OF OPTIONAL DEVICES: 2ND DISPLAY	21
(8) SETTING UP: KEYBOARD & MOUSE CONNECTION	22
(9) SETTING UP: CONNECTION USB PORT	23
(10) SETTING UP: CONNECTION VIA ETHERNET PORT (LAN)	24
(11) SETTING UP: LINE-OUT, MIC-IN, LINE-IN CONNECTION	25
(12) SETTING UP: POWER CABLE CONNECTION	26
(13) SWITCHING ON POS	27
(14) SHUTTING DOWN POS	28
(15) INTEGRATED PRINTER: CONTROL PANEL	29
(16) INTEGRATED PRINTER: SELF-TEST	30
(17) INTEGRATED PRINTER: PRINTER SETTINGS	31
(18) INTEGRATED PRINTER: INSTALLING NEW PAPER ROLL	34
(19) INTEGRATED PRINTER: METHOD FOR PROCESSING PAPER-JAM	36
(20) SYSTEM DRIVERS	37
2.MOTHERBOARD	38
(1) MOTHERBOARD OVERVIEW	38
(2) MOTHERBOARD LAYOUT	39
(3) JUMPERS	41
3.BIOSSETUPUTILITY.....	44
(1) MANAGING AND UPDATING YOUR BIOS	44
(2) BIOS SETUP PROGRAM	45
(3) MAIN SETUP	47
4.TROUBLESHOOTING.....	66
(1) NETWORK ISSUES	66
(2) MSR ISSUES	66
(3) USB ISSUES	66
(4) LCD ISSUES	66
(5) TOUCH-SCREEN ISSUES	67
(6) POWER ISSUES	67
(7) PS/2 KEYBOARD ISSUES	67
(8) BOOTING ISSUES	67
5.MAINTENANCE.....	68
IMPREX D5 MODULE POS SYSTEM REPLACEMENT	68
(1) MOTHERBOARD REPLACEMENT	69
(2) DC/DC BOARD REPLACEMENT	74
(3) MEMORY REPLACEMENT	75
(4) HDD REPLACEMENT	79
(5) MSR REPLACEMENT	81
(6) DISPLAY UNIT REPLACEMENT	85
(7) INTEGRATED PRINTER: PRINTER ROLLER & BRACKET REPLACEMENT	85
(8) INTEGRATED PRINTER: PRINTER MECHANISM & CIRCUIT BOARD REPLACEMENT	87
(9) INTEGRATED PRINTER: PRINTER PCB REPLACEMENT	90
SPECIFICATION	93

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POSBANK User's manual Revision History

Changes to the IMPREX D5 User's manual are listed below.

Rev No.	Revision History	Date /author
PBUM-015E(Rev001;130116)	New	2013.01.16

Preface

This User's Guide gives information about main unit/IO port layout, basic setup, component installation, and board layout for point of sale system "IMPREX D5"

Intended Audience

The User's Guide is intended for technically qualified personnel.

It is not intended for general audiences.

5

Document Organization

The chapters in this Product User's manual are arranged as follows:

1. product package contents
2. system configuration
3. Harness (cable connector)
4. BIOS Setup
5. Installing and Replacing POS SYSTEM Components: instructions on how to install the motherboard and other POS hardware components.
6. Product specification

SYMBOL; MARK

6



CE MARK

This device complies with the requirements of the EEC directive 2004/108/EC with regard to "Electromagnetic compatibility" and 2006/95/EC "Low Voltage Directive".



FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.



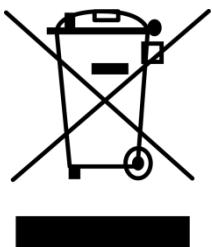
KC

Korea Certification mark.
Certificate No. KCC-REM-PBS-IMPREX-D5(A)



CCC

China Certification mark.



Recycling and disposal of electric and electronic devices and their components

This product should not be mixed with other commercial wastes for disposal.

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7

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Warranty

We guarantee our POS terminal product and its parts against defects in materials and workmanship, under proper use, for a standard period of 2 years from the original date of purchase.

During this period, we will repair or replace defective and/or faulty products or parts without charge to the customer for parts and labor.

The 1st year includes servicing and new or refurbished replacement parts free of charge, with one-way shipping costs borne by the seller. The customer shall, however, be responsible for the return delivery costs. The 2nd year also includes free of charge servicing and parts, but a limited warranty requires the entire shipping cost to be borne by the customer.

Products out of the warranty period or scope shall be diagnosed at the customer's expense.

In the case of product damage due to error on part of the consumer, incorrect usage, carelessness or natural phenomenon, the customer shall bear the full cost for both repair and delivery.

Safety Instructions

1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket.
2. The wall socket must be easily accessible and in close proximity to the machine.
3. Read these instructions carefully. Save these instructions for future reference.
4. Follow all warnings and instructions marked on the product.
5. Do not use this product near water.
6. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered.
8. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.
9. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Notice

1. Always ensure that the correct power voltage is used as a precaution against fire and electrical shock.
2. Avoid exposing product to direct sunlight. Do not use product in areas of high humidity. Doing so may cause low reliability and/or operational malfunction.
3. Be careful of static electricity on PCB of system with anti-static appliances. Doing so may cause inferior reliability and shorted product life.
4. Keep product away from highly static areas. This may lead to inferior performance and reduced life cycle.
5. Do not interfere with, or obstruct metal components inside product. Doing so may cause the risk of fire or electric shock.
6. Do not pull on power cable or peripheral devices' connector cable. Doing so may cause fire, electric shock or electronic system malfunction.
7. Use caution when around other electronic devices with possible high frequency or electro-magnetic effects e.g. Audio, Electronic-range etc. Doing so will lead to the serious risk of product malfunctioning or a system error occurring.
8. Ensure that batteries are replaced correctly. Failure to do this may result in sudden explosions.
9. Dispose of used batteries properly according to the instructions.

Liability Limitation

• Installation and maintenance

We recommend that you inquire about product installation, maintenance and repair service from the official service center and agent office.

POSBANK takes no responsibility for malfunctions or system errors occurring after service and/or system check carried out by unofficial service providers.

11

• High frequency appliances

This product is qualified by FCC, CE and KC compliances, and is thus governed by these qualifications' safety regulations.

However, the product can affect and be affected by other high frequencies generated around it. As such, POSBANK does not consider liability for any system error or disorder due to this issue.

• Electronic noise emitting equipment

We recommend using the product away from electronic noise emitting equipment such as heaters, motors, fluorescent lights, TVs etc. as it may cause interruption or interference with normal operation.

• Installation location

For optimal performance, the product should be kept in an environment of lower than 65% humidity and in a temperature of 10 ~ 30 °C. Please also keep away from direct sun-light.

• Cleaning procedure

Cleaning with chemical based products (in particular those containing benzyl or chemical thinning agents) can damage the exterior surfaces of the product. We recommend using a soft damp cloth and wiping gently, taking particular care when dealing with the LCD display screen.

• Product limitations

1. The use of this product for anything other than POS tasks is strictly prohibited.
The product is not supported for regular PC and interface operation.
2. This product is for business use only, and not for usage in the home.
3. Both hardware and software are both fully configured.
4. Normal operating is guaranteed on a steady power connection.

Installation Recommendations

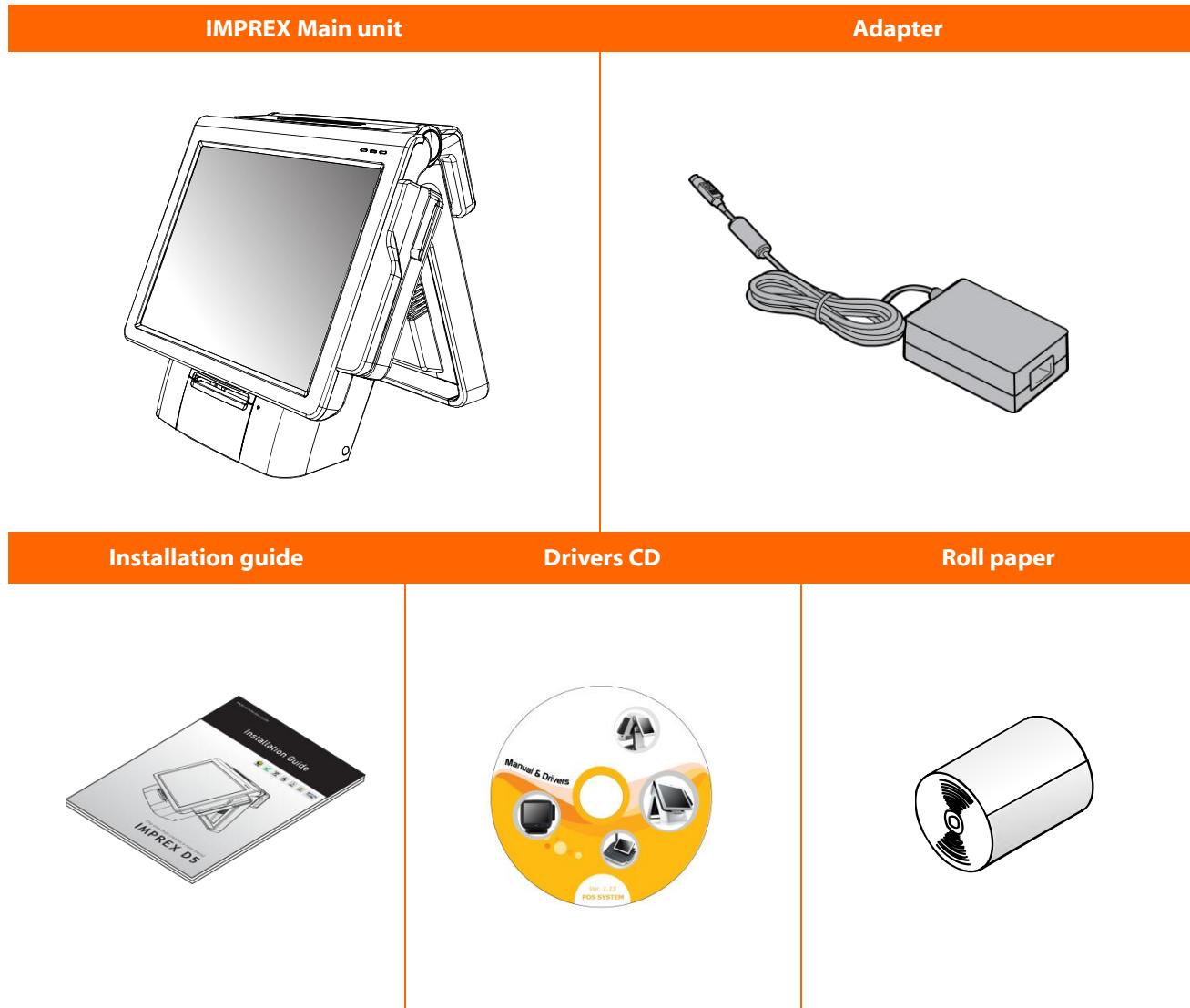
1. Avoid installing during thunderstorms. (Possibility of dangerous exposure to electricity.)
2. Install away from damp spaces or water-leaks.
3. Beware of static occurrence during installation.
4. Use only ground connected and quality certified power cords and cables.
5. Keep out of direct sun-light, extremely high or low temperatures, or high humidity areas.
6. Install product away from areas prone to shocks or vibration.
7. Install product away from sewing machines, welding equipment, electric stoves, audio equipment and other high frequency generating equipment.
8. Installation and use in close proximity to an air-conditioning unit is not recommended.
9. Do not connect cables underneath carpets or floorboards.
10. Only use power cables supplied by pre-approved and certified vendors.
11. Never use power cords from high power source appliances.
e.g. Electronic heaters, Electric stoves, Audio equipment, Air-conditioners, Refrigerators etc.
12. The use of multiple connections in a shared power outlet/socket is not recommended.

1. Product Overview

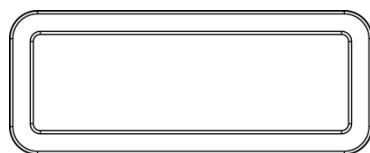
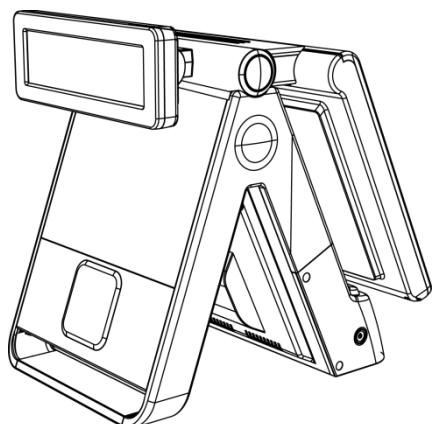
(1) Inside Your Package

1. Please check your package and confirm its contents.
2. The POS terminal main unit, power cable, user manual and driver CD are included in the package. If any items are missing or damaged, please contact your dealer for assistance.
» All user manuals and drivers are available for download on our website: www.easyset.org

13

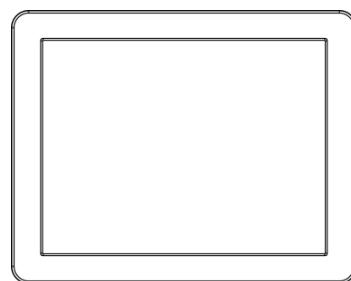
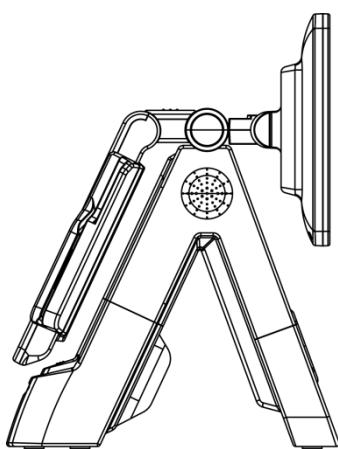


Optional Devices: CDP (Customer display)

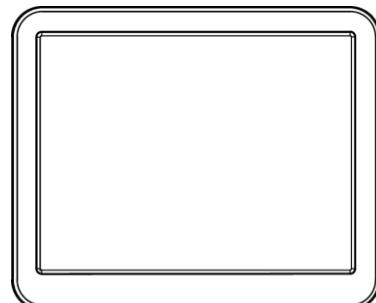
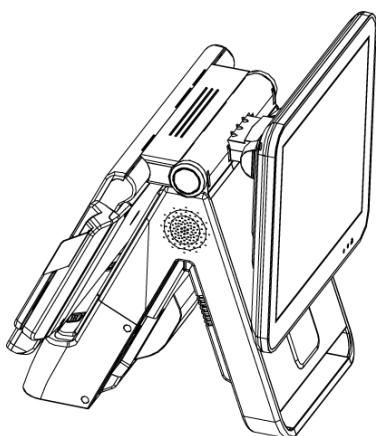


14

Optional Devices: 2nd LCD monitor 12.1"



Optional Devices: 2nd LCD monitor 15"



(2) Pre-installation Preparation

1. Remove protective film from touch-screen to prevent possible operating difficulties.
2. Attach all optional parts before setting up the main POS unit.

(3) Product Outline

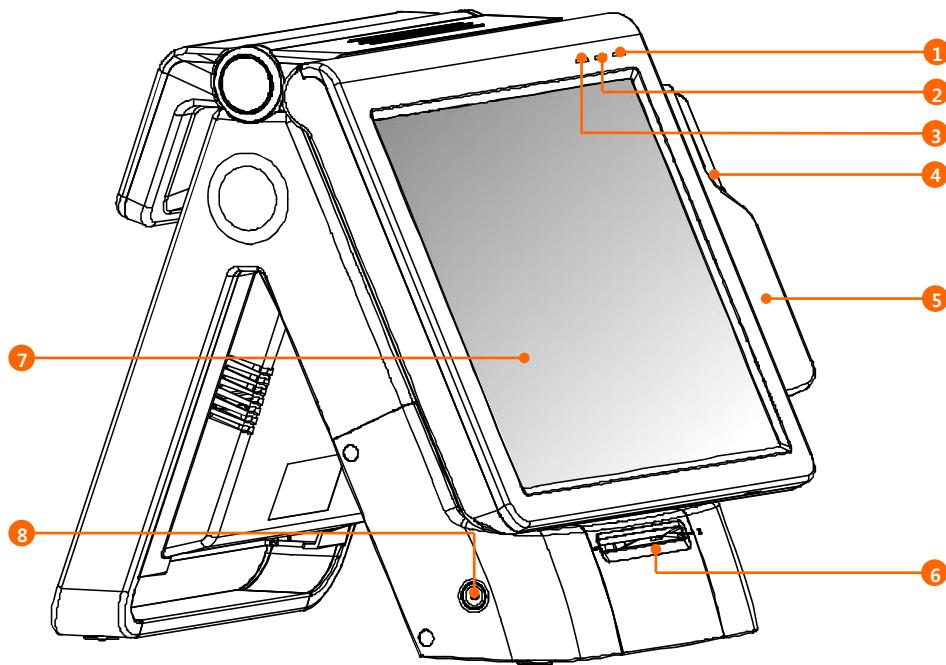
1. Each part of product may differ depending on the specific POS model.
2. Model-specific data sheets are provided on our website at www.easyset.org

(4) Configuration

Refer to following diagram to identify the components on this side of the system.

Front view

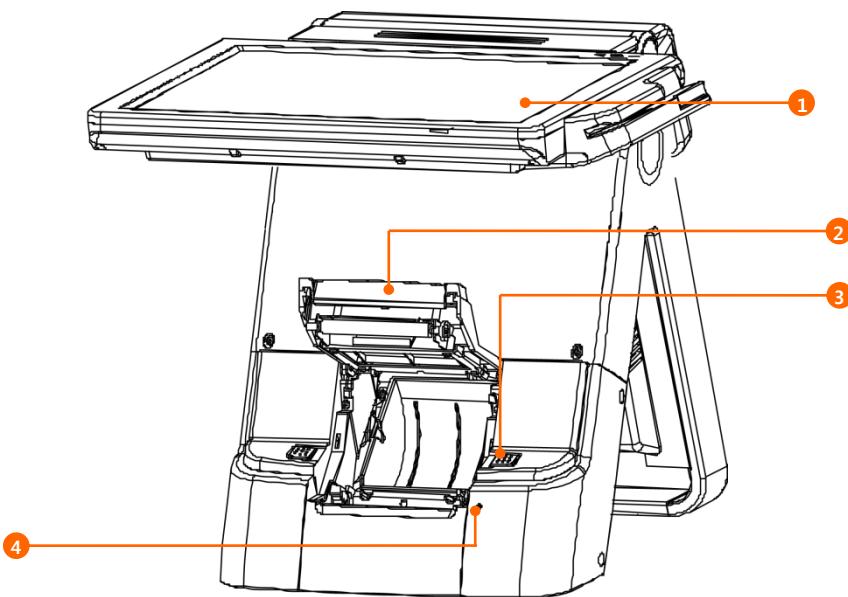
16



-
- 1. LAN LED
 - 2. HDD LED
 - 3. Power LED
 - 4. Smart card reader(SCR); Optional
 - 5. Magnetic stripe reader(MSR); Optional
 - 6. Integrated receipt printer
 - 7. LCD & Touch panel display
 - 8. Power switch

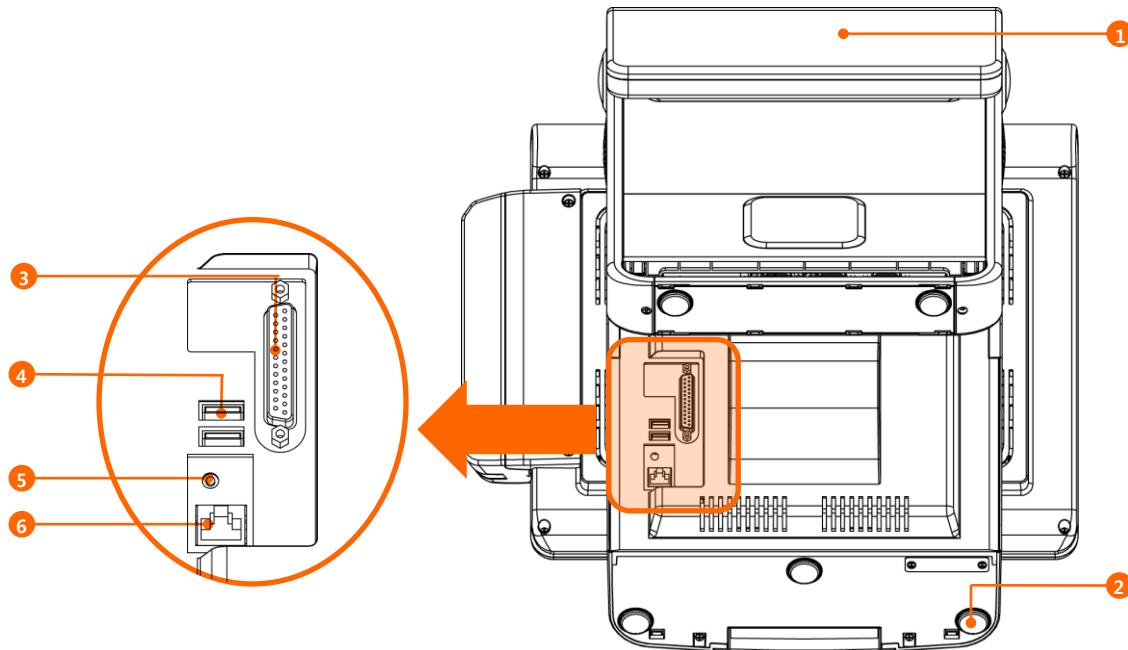
Front View (Display Unit Up)

17



-
- 1. LCD & Touch panel display
 - 2. Integrated receipt printer cover
 - 3. Printer cover open button
 - 4. Paper out LED

Rear/Underside View



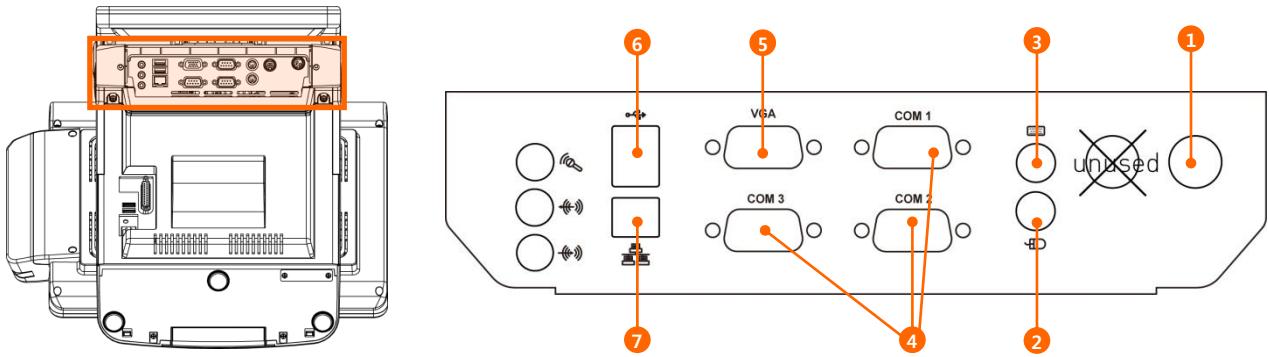
-
- 1. dummy cover
 - 2. Rubber foot
 - 3. Parallel port - optional
 - 4. EXT USB
 - 5. Integrated receipt printer reset switch
 - 6. Cash drawer port

(5) I/O port: Details

* I/O ports may differ according to product model or options.

Power & I/O port

19

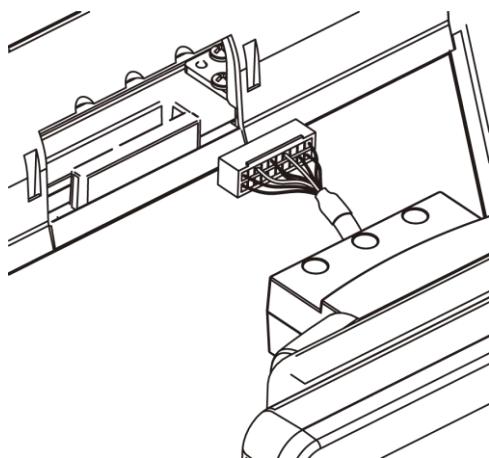


-
- 1. Power connector
 - 2. PS/2 mouse port
 - 3. PS/2 keyboard port
 - 4. COM1, COM2, COM3 port
 - 5. VGA port
 - 6. USB x 3 Ports
 - 7. LAN port

(6) Installation of Optional Devices: CDP

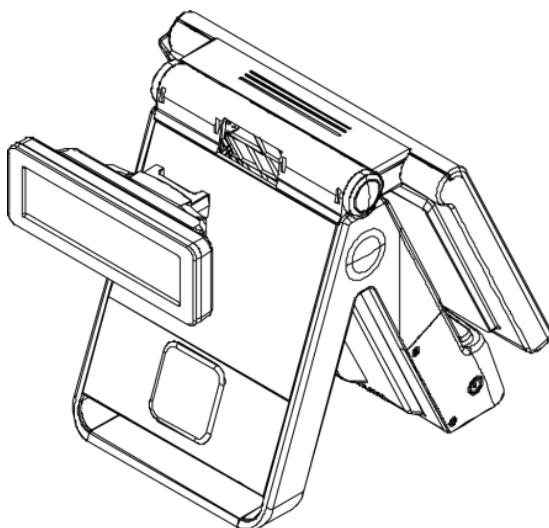
CDP Installation

20

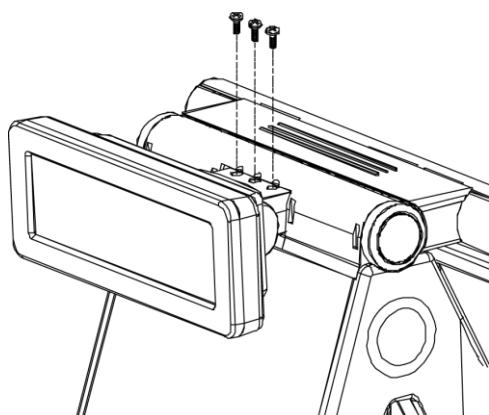


* Warning: Completely remove power cable when opening main unit or installing optional devices.

Step 1. Connect CDP cable to main unit.



Step 2. Insert CDP into slot on main unit.



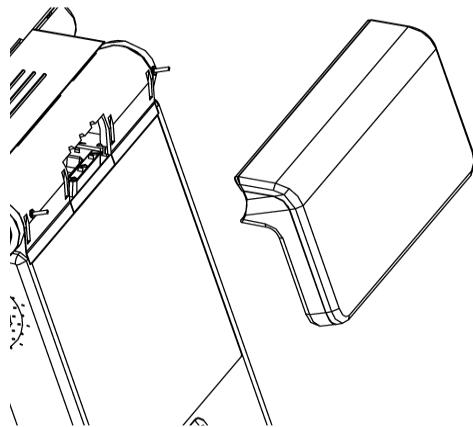
Step 3. Firmly attach using the 3 screws provided.

CDP installation is successful if the default text appears on CDP when powering on the POS system.

(7) Installation of Optional Devices: 2nd Display

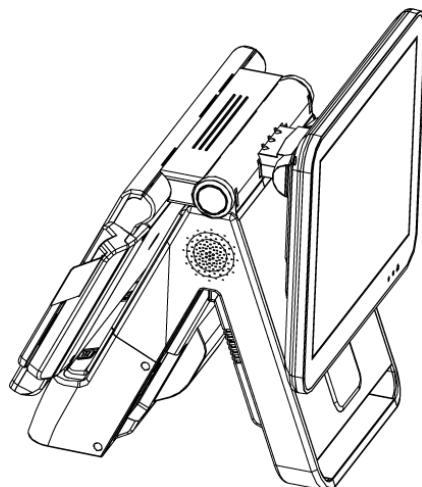
2nd Display

21

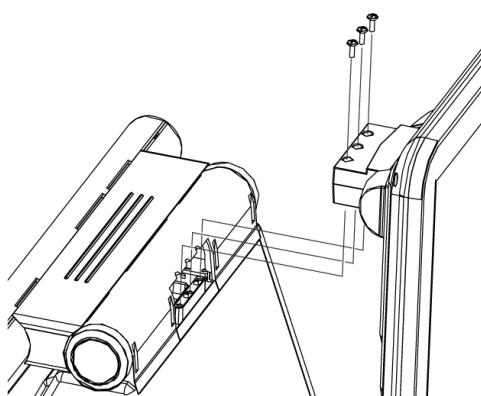


*The assembling method of the 2nd Display is equal for all the products.
(10.1,12.1,15 inch)

Step 1. Separate Dummy Cover.



Step 3. Connect the 2nd display into slot on main unit, after connecting the 2nd display cable.



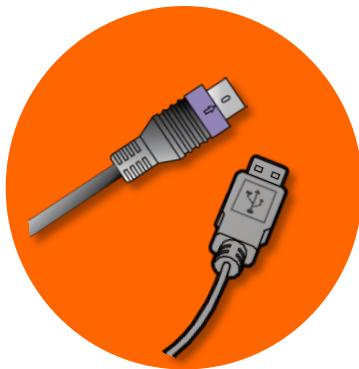
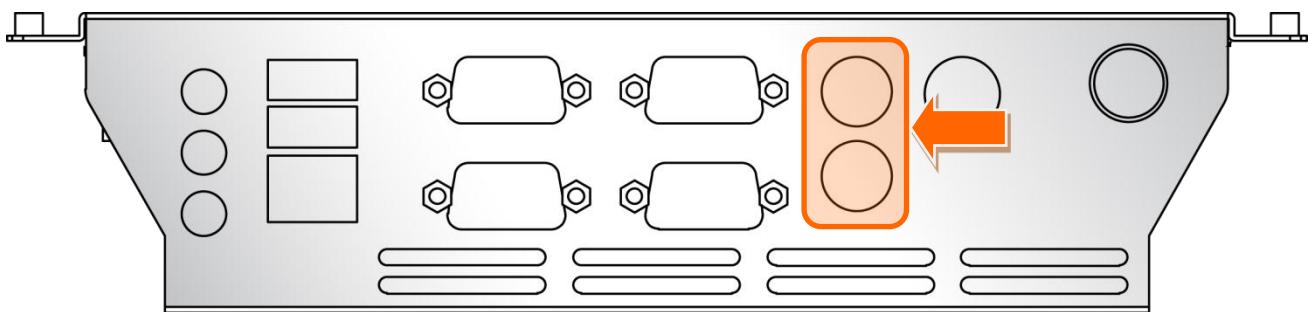
Step 4. Firmly attach using the 3 screws provided.

The unit is successfully installed if the O/S boots on the 2nd display unit.

(8) Setting up: Keyboard & Mouse Connection

Connecting the keyboard and mouse to the PS/2 port on the bottom panel.
or connecting the USB type keyboard and mouse to the USB port on the bottom panel.

22



(9) Setting up: Connection USB Port

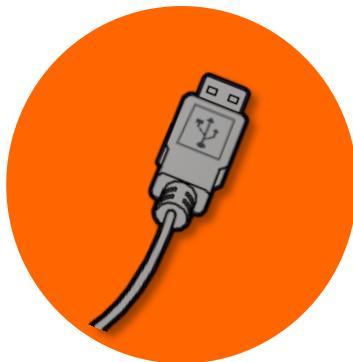
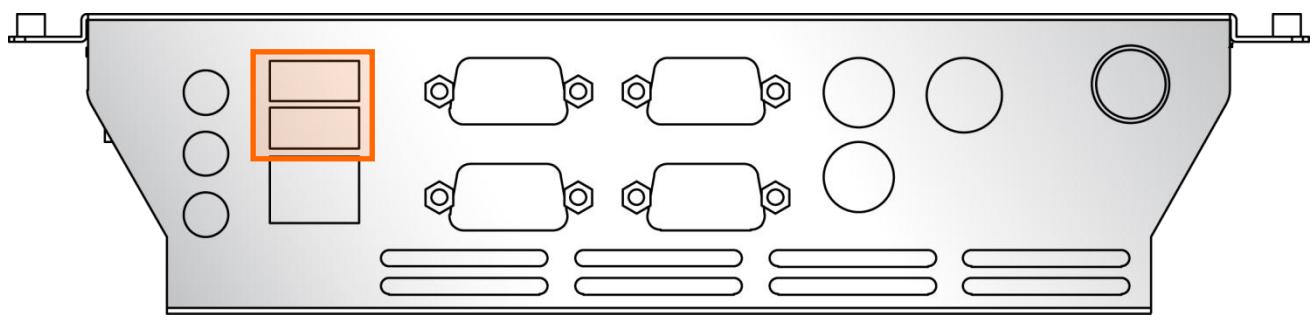
USB ports are provided in the POS unit, two at the rear I/O and two at the side, all of which support the standard USB 2.0.

Some USB devices (optional devices) are only functional with specific driver software installed.

If multiple USB devices are used together, this may result in abnormal functionality.

Using a USB hub with external adapter for supplying power is recommended.

Dependent on the type of device, it is possible for the USB device to be recognized later than normal.



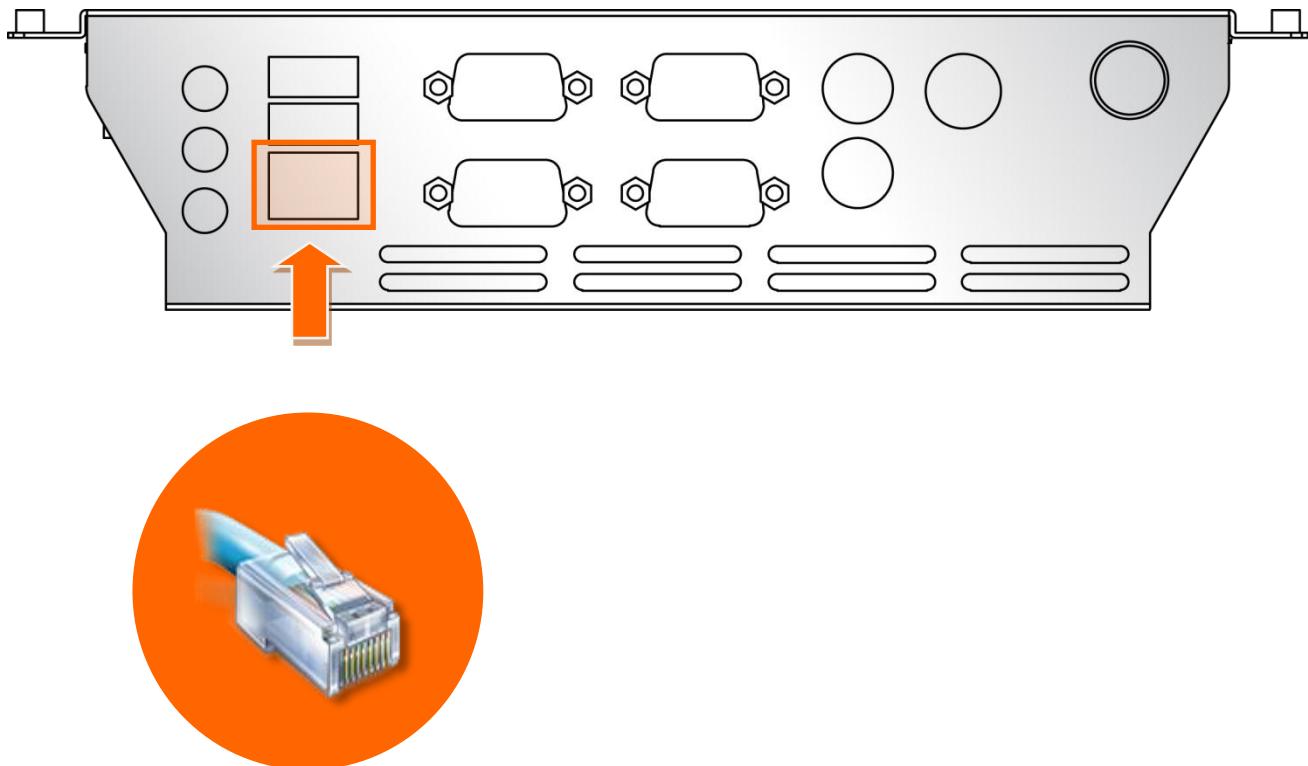
(10) Setting up: Connection via Ethernet Port (LAN)

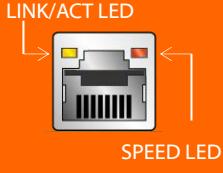
The Ethernet port located at the rear I/O supports 10/100/1000Mbps using an RJ45 connector cable.

When connected properly, the LAN LED light will be switched on.

Through a network hub.

Refer to the table below for the LAN port LED indications.

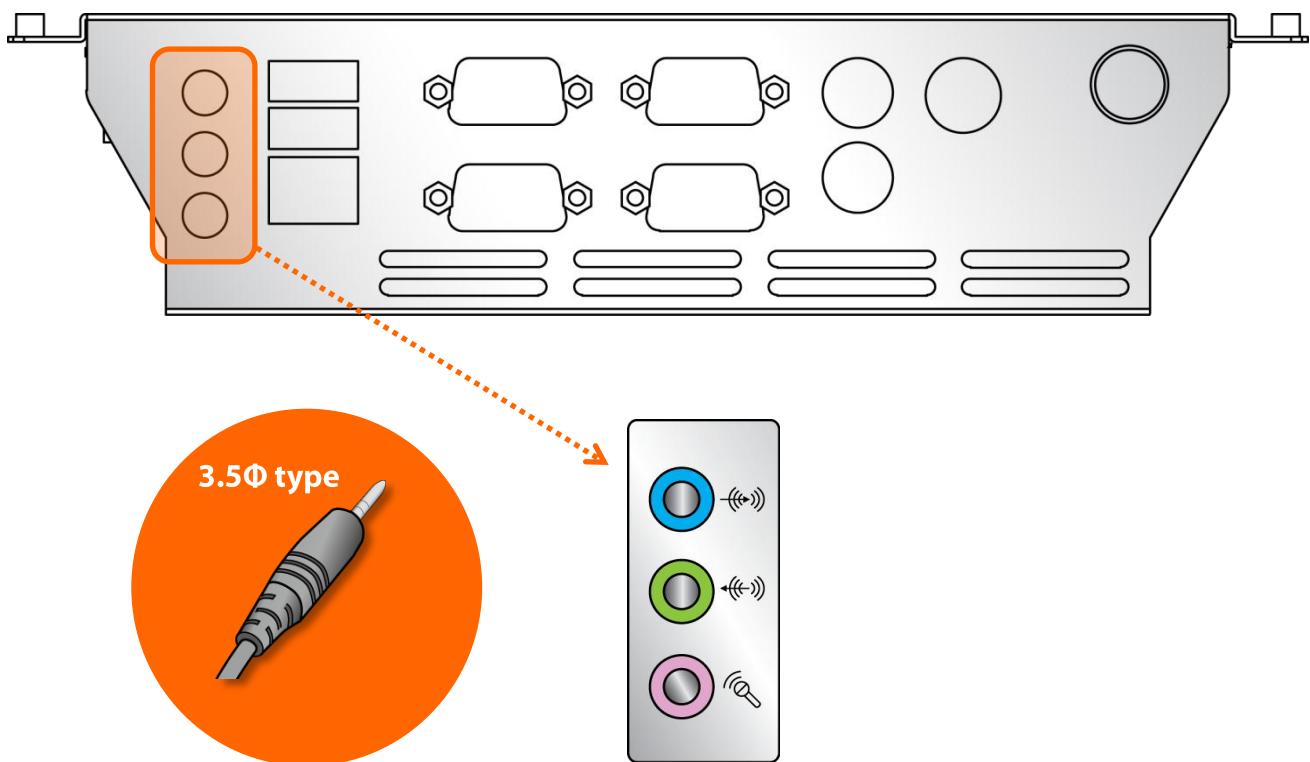


LINK/ACT LED 	LINK / ACT LED		SPEED LED	
	Status	Description	Status	Description
	OFF	No link	OFF	10Mbps connection
	YELLOW	Linked	ORANGE	100Mbps connection
	BLINKING	Data activity	GREEN	1Gbps connection

(11) Setting up: Line-out, Mic-in, Line-in connection

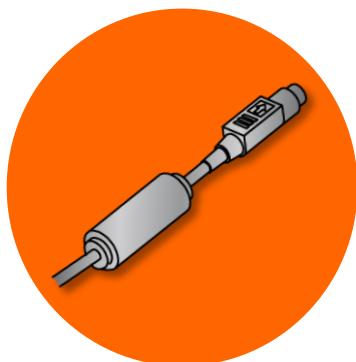
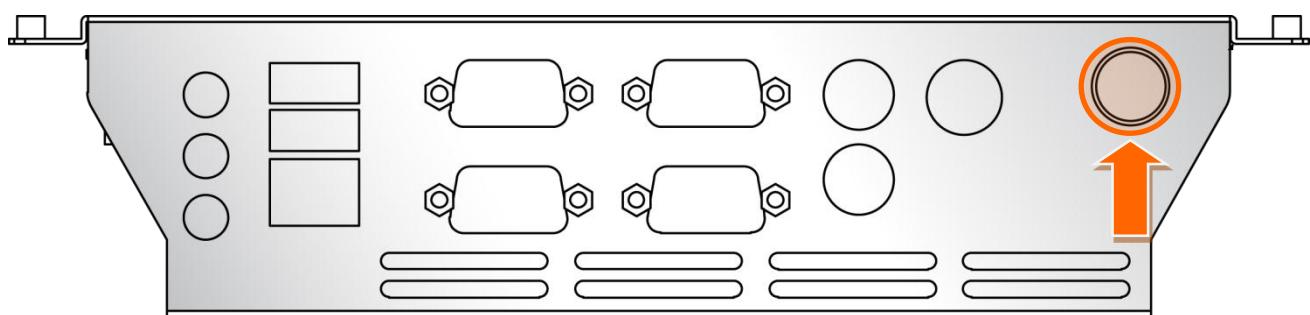
- **Line In port (light blue):** This port connects a tape, CD, DVD player, Sources.
- **Line Out port (lime):** This port connects a headphone or a speaker. In 4-channel, 6-channel and 8-channel configuration, the function of this port becomes Front Speaker Out.
- **Microphone port (pink):** This port connects a microphone.

25



(12) Setting up: Power Cable Connection

The 'IMPREX D5' POS system is equipped with a 12V, 5A power adaptor. Connect the cable to the DC-IN port on system IO panel.



CAUTION: Do not pull on the adaptor cable! Disconnect cable with pulling the plug cap.

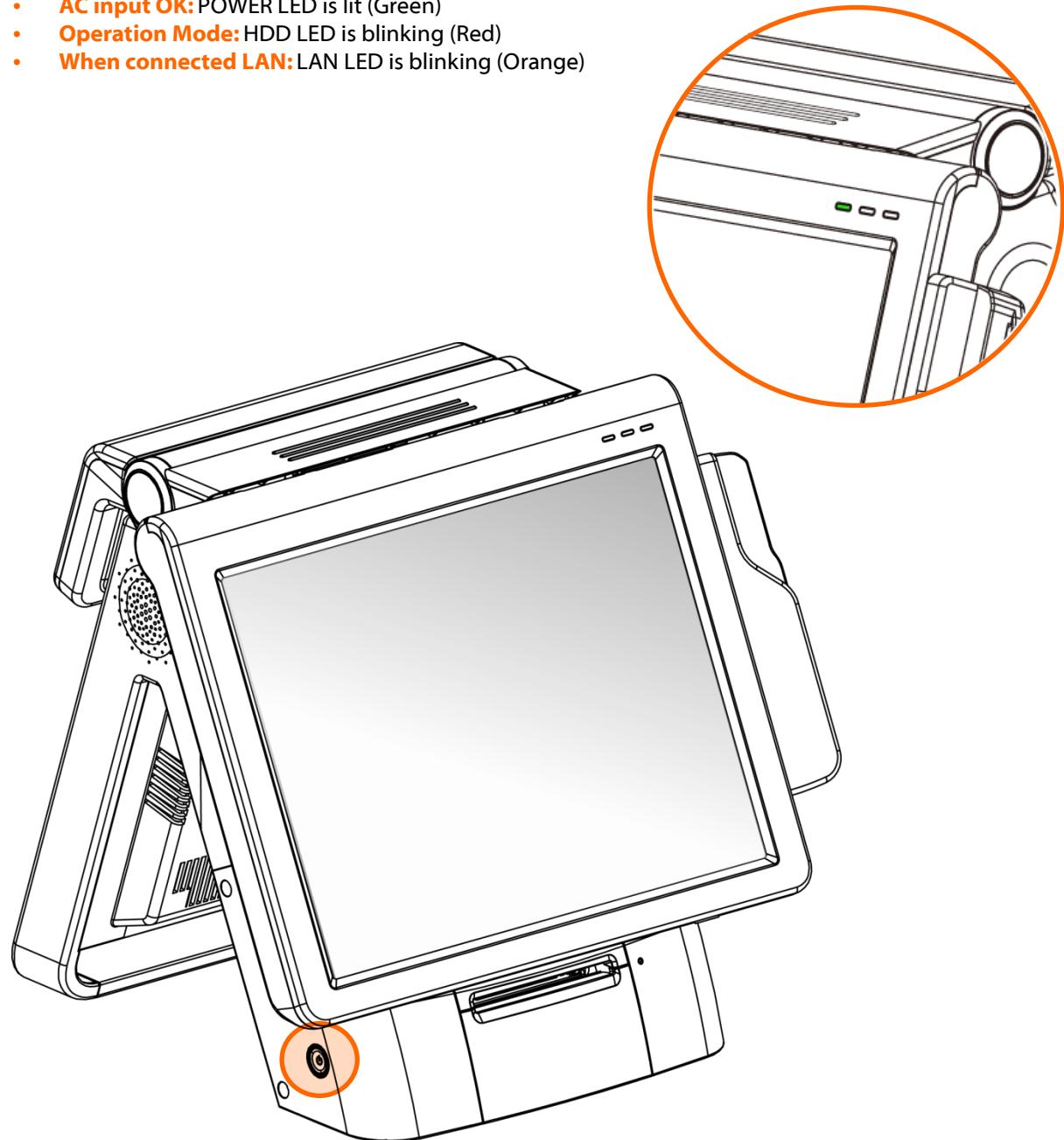
(13) Switching On POS

1. The power switch is located left hand side of the main unit. (POWER LED will light up.)
When connected to AC source, the POWER LED will be lighted automatically.
The unit's status can be determined by each LED lamp.
2. Confirm that Windows loads correctly.

27

Indicator modes are as follows :

- **AC input OK:** POWER LED is lit (Green)
- **Operation Mode:** HDD LED is blinking (Red)
- **When connected LAN:** LAN LED is blinking (Orange)



(14) Shutting Down POS

* For product stability, we recommend closing Windows from the O/S. Please make sure that you have closed all applications before closing Windows.

1. Click 'Start' and select 'Turn off Computer'
2. Click 'Shut Down' to close Windows.

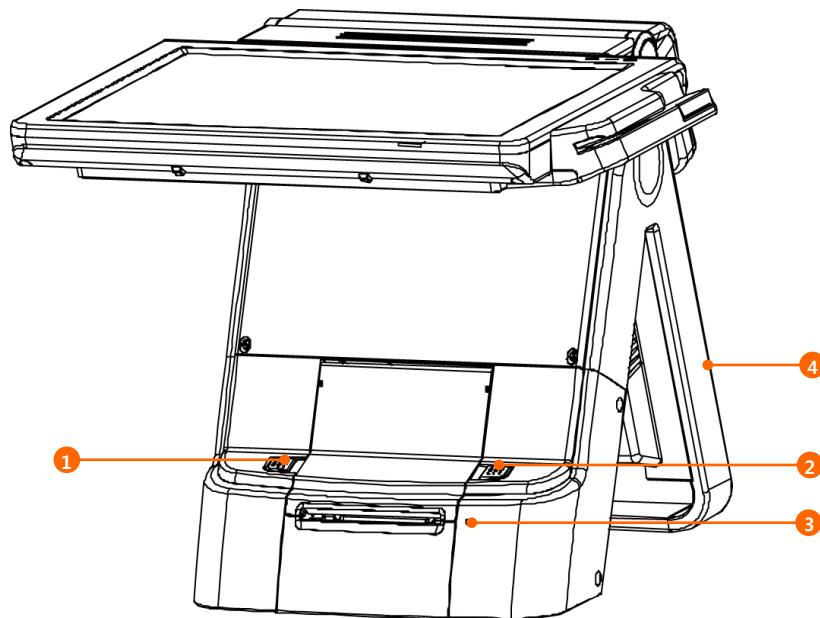
(ex: POSReady2009 or Windows XP)



(15) Integrated Printer: Control Panel

Integrated Printer: Control Panel

29

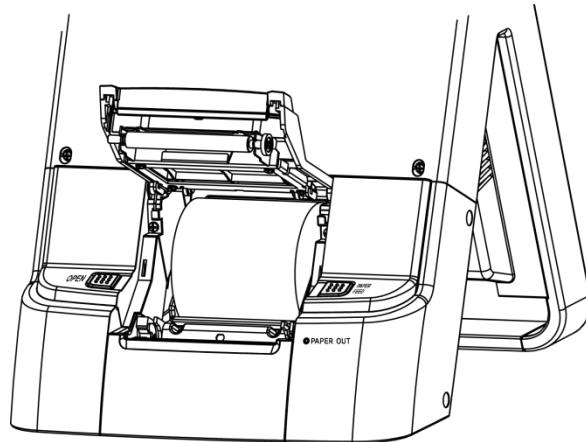


-
1. **OPEN (Button):** Press to open integrated printer.
 2. **PAPER FEED (Button):** Pressing once discharges a short load of paper. Holding down continuously will discharge paper until the button is released again.
 3. **PAPER OUT (LED):** This LED will light up while printing.
 4. **RESET SWITCH**

(16) Integrated Printer: Self-test

Integrated Printer: Self-test

30



-
- 1.** Make sure the paper roll is installed properly.
 - 2.** While holding down the FEED button, turn on the printer to press reset button.
 - 3.** The self-test prints out the current ROM version and printer status.
 - 4.** Release the FEED button when self-test is finished.
 - 5.** The printer is ready to receive data as soon as it completes the self-test.

(17) Integrated Printer: Printer settings

The printer properties(baudrate, density etc.) can be changed from the printer's 'Setting mode'.

To enter 'Setting mode':

1. Turn off the printer to press reset button.
2. Ensure that the paper roll is inserted properly and the end of the roll is outside the printer with the cover securely fixed.
3. While holding down the FEED button, turn on the printer to press reset button.
4. The printer's 'Self-test' will begin.
5. Information about the printer's current state will be printed.
6. After 5 seconds without releasing the FEED button, the printer will enter 'Setting mode'.
7. The following properties available to be set will be printed:

```
*** Setting Mode ***
Interface :Serial
1. Step by Step
2. Serial Baudrate
3. Serial Handshaking
4. Error Sound
5. Density
6. Auto Cut
7. Code Page
8. USB Mode
9. Black Mark Mode
10. Auto Load Mode
11. Sensing Level
12. Setting the paper width
```

* The following table shows the available options for each property in 'Setting mode'.

[Switch 1 - Settings]

No	Function	Button count	Setting	Default
1	Serial Baudrate		Set in order	9600 BPS
		1	2400 BPS	
		2	4800 BPS	
		3	9600 BPS	
2		4	19200 BPS	
		5	38400 BPS	
		6	57600 BPS	
		7	115200 BPS	

No	Function	Button count	Setting	Default
3	Serial Handshaking	1	DTR/DSR	DTR/DSR
		2	Xon/Xoff	
4	Error Sound	1	No Sound	No Sound
		2	Internal Buzzer	
		3	External Buzzer	
5	Density	1	Low power	Low power
		2	Normal	
		3	Normal	
		4	Dark	
6	Auto Cut	1	Install	Install
		2	Disable	
7	Code Page	* Please refer to the 'Language setting' table for details.		
8	USB Mode	1	Serial Emulation	Actual USB
		2	Actual USB	
		3	Ethernet to USB	
9	Black Mark Mode	1	Disable	Disable
		2	Enable	
10	Auto Load Mode	1	Disable	Disable
		2	Enable	
11	Sensing Level	1	Level 0	Level 0
		2	Level 1	
		3	Level 2	
		4	Level 3	
		5	Level 4	
		6	Level 5	
		7	Level 6	
		8	Level 7	
		9	Level 8	
		10	Level 9	
12	Setting the paper width	1	80mm	80mm
		2	58mm	

[Switch 2 - language]

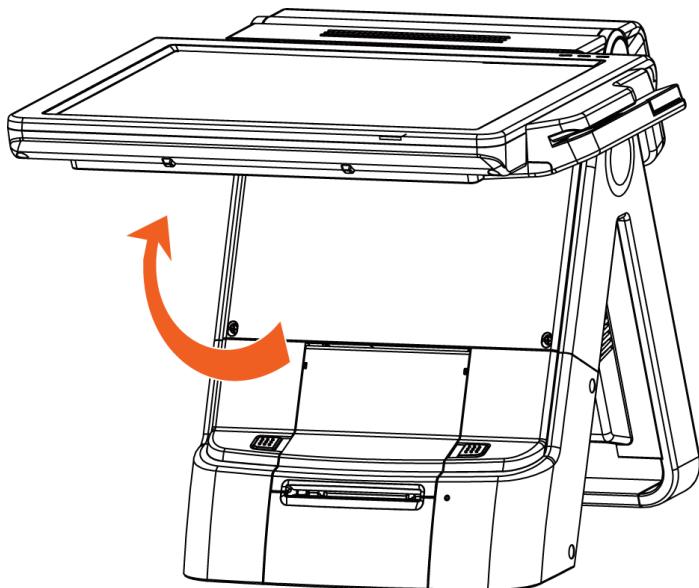
* To select the desired language, press the FEED button the corresponding number of times.

	Button Count	CODE PAGE	LANGUAGE
PAGE 1	1	Next code page	
	2	CP-437	USA, Standard Europe
	3	Katakana	Japanese
	4	CP-850	Multilingual
	5	CP-860	Portuguese
	6	CP-863	Canadian- French
	7	CP-865	Nordic
	8	CP-1252	Latin I
	9	CP-866	Cyrillic Russian
PAGE 2	1	Next code page	
	2	CP-852	Latin II
	3	CP-858	Euro
	4	Thai-42	
	5	Thai-11	
	6	Thai-14	Thailand character
	7	Thai-16	
	8	Thai-18	
	9	CP- 874	
PAGE 3	1	Next code page	
	2	CP-737	Greek
	3	CP-775	Baltic
	4	CP-855	Cyrillic
	5	CP-857	Turkish
	6	CP-861	Icelandic
	7	CP-862	Hebrew
	8	CP-864	Arabic
	9	CP-869	Greek II
PAGE 4	1	CP-1251	Cyrillic
	2	CP-1253	Greek
	3	CP-1254	Turkish
	4	CP-1255	Hebrew
	5	CP-1256	Arabic
	6	CP-1257	Baltic
	7	CP-1258	Vietnam
	8	CP-950	Traditional Chinese BIG 5
	9	CP-936	Simplified Chinese GBK
	10	CP-932	Japanese Shift-JIS
	11	CP-949	Korean
	12	Farsi	

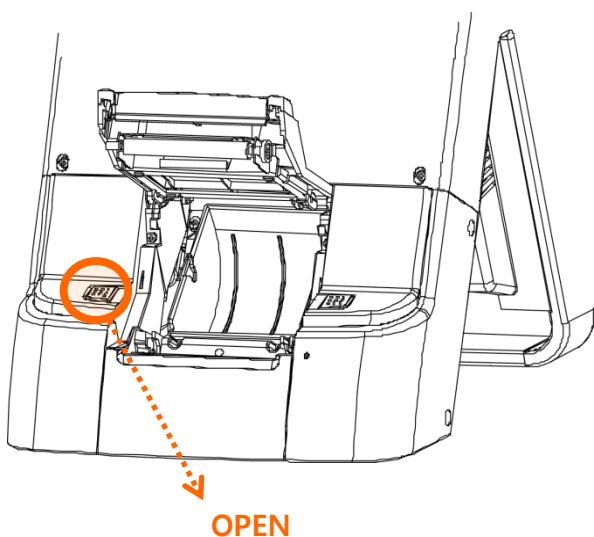
(18) Integrated Printer: Installing New Paper Roll

Installing New Paper Roll

34



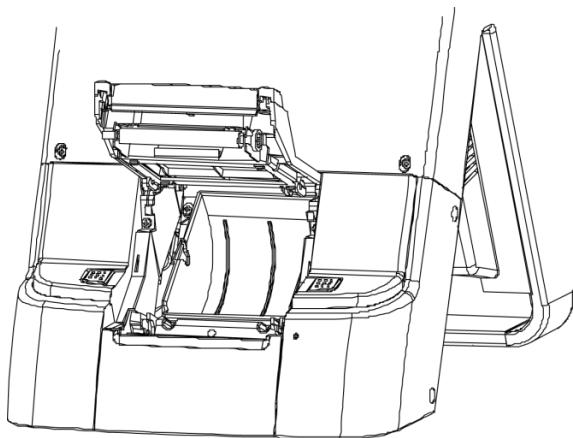
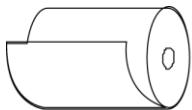
Step 1. Raise the main display unit.



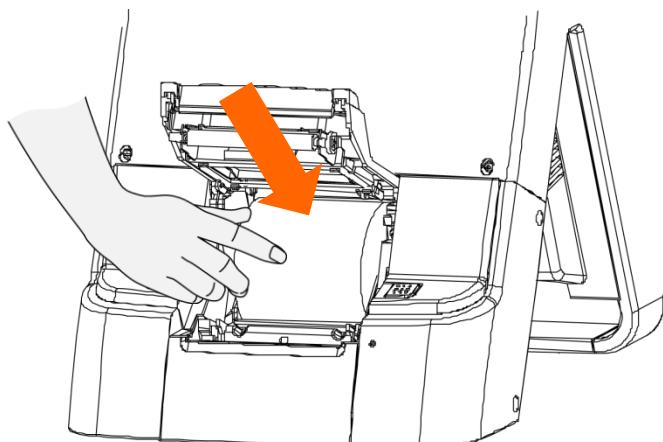
Step 2. Press the 'OPEN' button to open the printer unit cover.

Installing New Paper Roll

35



Step 3. Insert new paper roll exactly as shown figure (with loose paper towards the bottom of the unit).



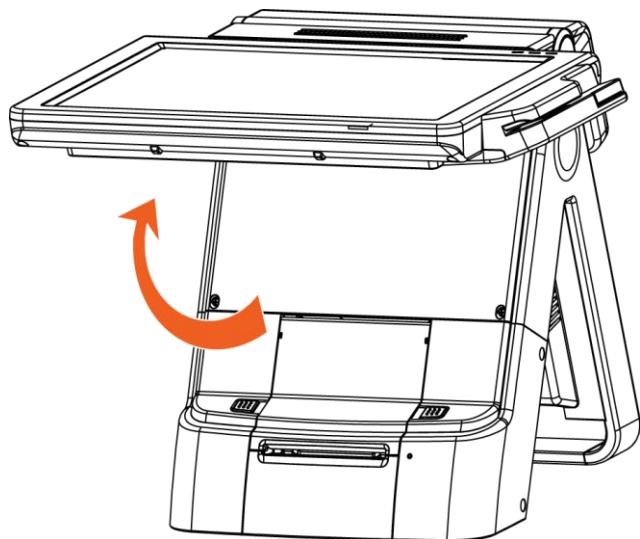
Step 4. Draw out the end of the paper roll and close the cover.

When closing the printer cover, press down in the middle to ensure that the paper makes contact with the roller.

(19) Integrated Printer: Method for processing paper-jam

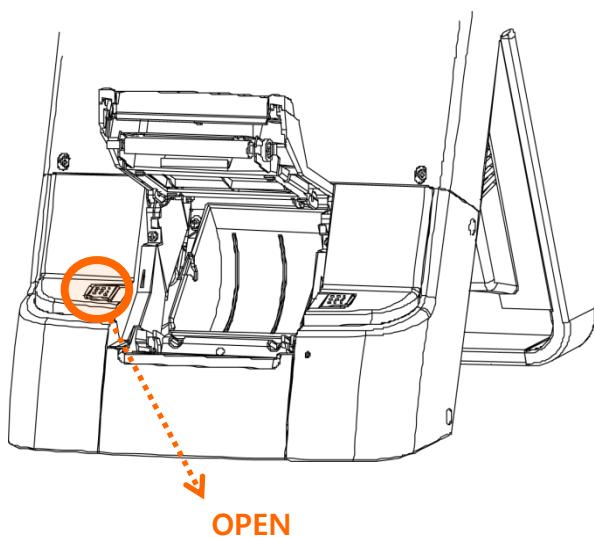
Method for processing paper-jam

36



Step 1. When paper is jammed in cutter blades, it stops printing.

Step 2. First of all, open the cover pressing "Cover open button", and try to remove the jammed paper.



Step 3. If the cover is still stuck even after pressing the "Cover open button", turn the power off and on again. Then, repeat Step 2 once more.

If the cover could not be opened after following all the steps, please do not take any further step and make inquiry to supplier.

(20) System Drivers

Please visit our website: www.posbank.com for the latest driver updates.

Supported devices: Cash drawer, CDP (Customer Display Panel), MSR (Magnetic Swipe Reader) and printer.

Driver installation

37

- **Installation method :**

Driver will automatically install by clicking SETUP.EXE in your driver CD.

If you require any help with installing or using our OPOS system, please contact our customer service center.

- **Folder of contents of POS terminal installation driver:**

1. CHIP SET DRV installation
2. VIDEO (VGA) DRV installation
3. TOUCH DRV installation
4. AUDIO DRV installation method
5. LAN DRV installations
6. AMT & ME Driver installation
7. User's Manual, Installation guide

2. Motherboard

(1) Motherboard Overview

This includes description of the jumpers and connectors on the motherboard.

Warning

Take note of the following precautions before you install motherboard components or change any motherboard settings.

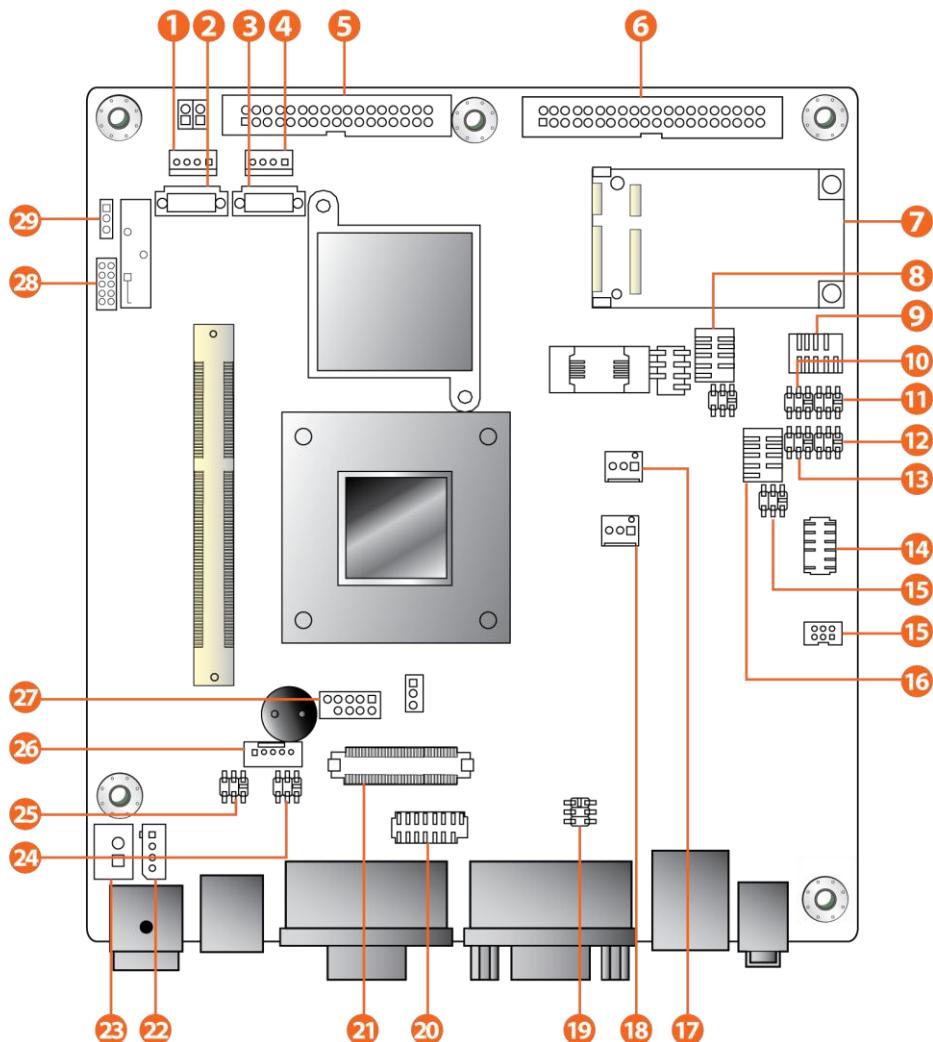
1. Unplug the power cord from the wall socket before touching any component.
2. Before handling components, use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, to avoid damaging them due to static electricity.
3. Hold components by the edges to avoid touching the ICs on them.
4. Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component.
5. Before you install or remove any component, ensure that the ATX power
6. Supply is switched off or the power cord is detached from the power supply. Failure to do so may cause

(2) Motherboard Layout

This includes description of the jumpers and connectors on the motherboard.

Motherboard view

39



NO	Description	NO	Description
1.	SATA_PWR_CN2	17.	SYS_FAN
2.	SATA 2	18.	CPU_FAN
3.	SATA 1	19.	COMPSEL3
4.	SATA_PWR_CN1	20.	VGA 1
5.	J1	21.	LVDS1
6.	J2	22.	CN29(12V DC)
7.	Mini PCIe slot	23.	CN30(24V DC)
8.	COM 6	24.	COMP1SEL2
9.	COM 5	25.	COMP1SEL1
10.	JCOMPWR2	26.	VP1(Inverter)
11.	JCOMPWR3	27.	F-Panel1
12.	JCOMPWR1	28.	GPIO1
13.	COMPSEL5	29.	CMOS1
14.	CN15		
15.	COMPSEL4		
15-1.	JAMP1		
16.	COM 4		
16-1.	COMPSEL6		

(3) Jumpers

Clear RTC RAM (CLRTC)

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOSRTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which include system setup information such as system passwords.

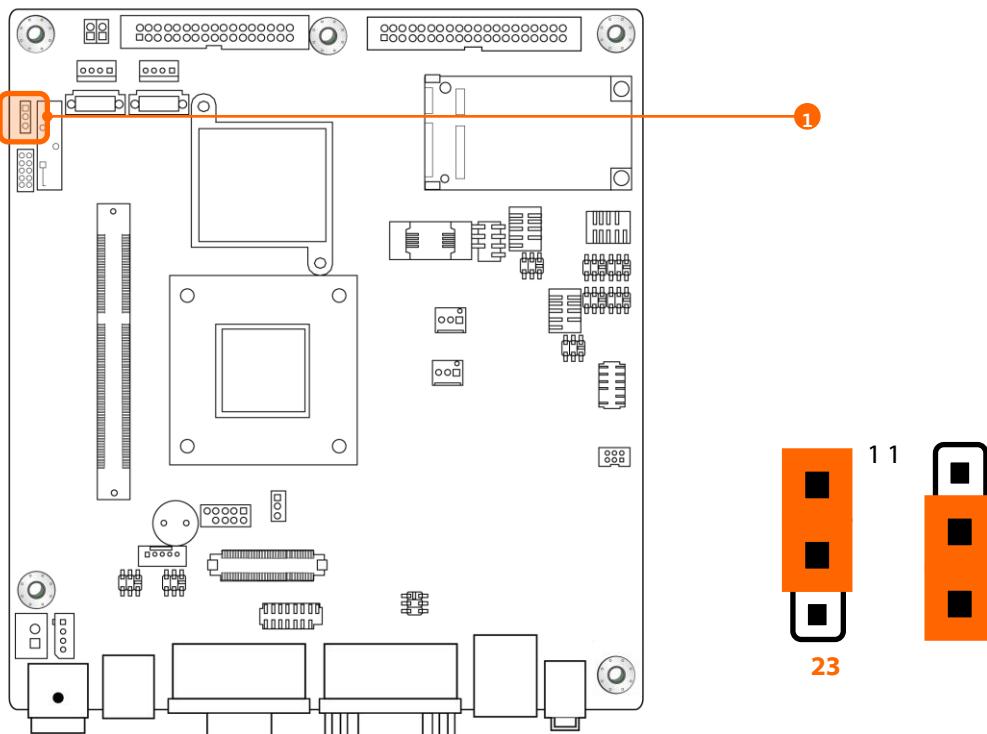
To erase the RTC RAM:

1. Turn OFF the computer and unplug the power cord.
2. Remove the onboard battery.
3. Move the jumper cap from pins 1-2 (default) to pins 2-3. Keep the cap on pins 2-3 for about 5~10 seconds, then move the cap back to pins 1-2.
4. Re-install the battery.
5. Plug the power cord and turn ON the computer.
6. Hold down the key during the boot process and enter BIOS setup to re-enter data.

41

CAUTION: Except when clearing the RTC RAM, never remove the cap on CLRTC jumper default position.
Removing the cap will cause system boot failure!

Clear RTC RAM (CLRTC)



1. Clear RTC RAM (CLRTC)
2. Normal(Default)
3. Clear CMOS

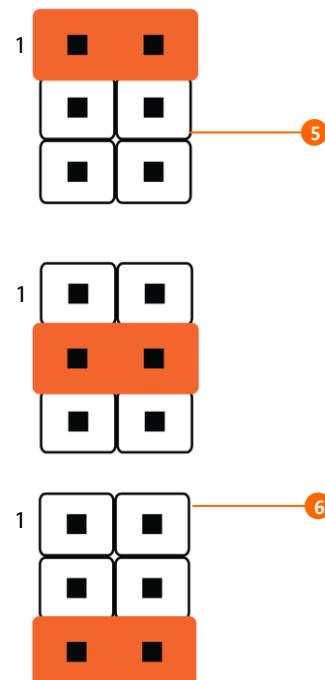
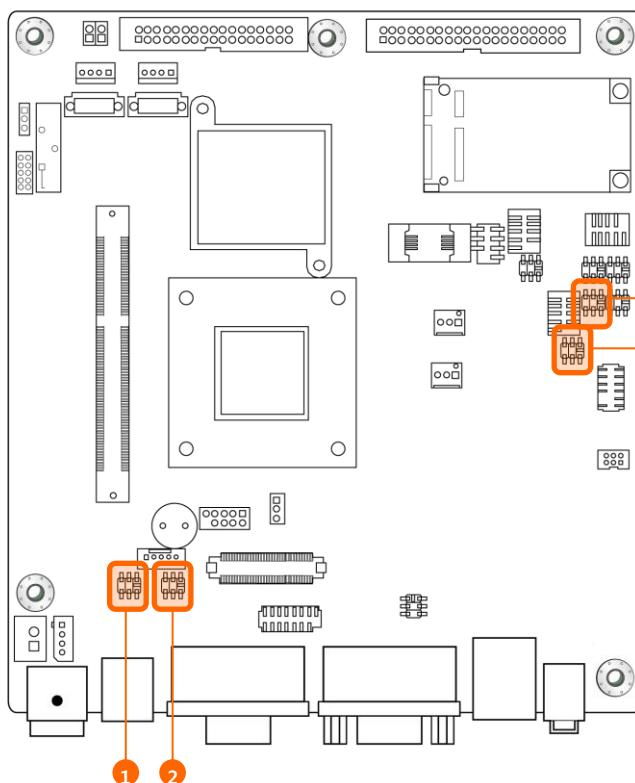
You do not need to clear the RTC when the system hangs due to overclocking. For system failure due to over clocking, use the C.P.R. (CPU Parameter Recall) feature. Shut down and reboot the system so the BIOS can automatically reset parameter settings to default values.

COM1, 2, 3, 4, 6RI, +12V and +5V Power Select(COMP1SELx)

This jumper allows you to select COM1 RI, +5V and +12V power. Set COMP1SELx top ins 5-6 +5V power. And set COMP1SELx to pins 1-2 +12V power. Then setCOMP1SELx to pins 3-4 for RI selection.

COMP1SELx

42



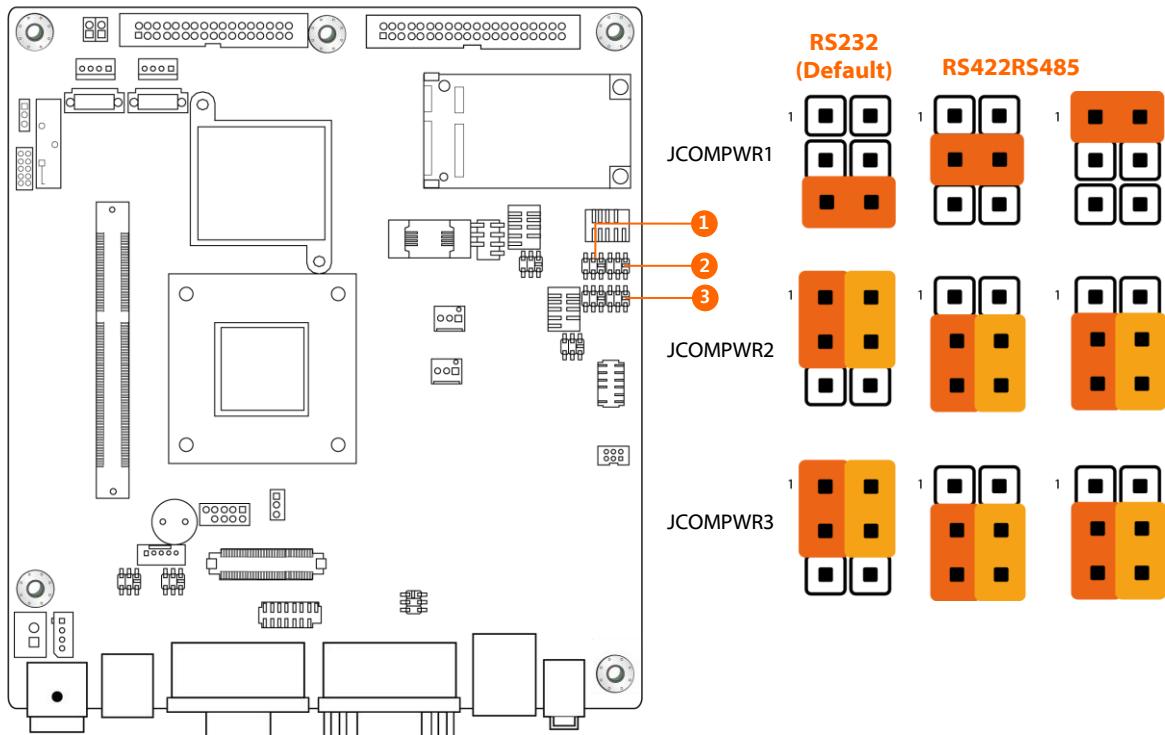
-
- 1. COMP1SEL1
 - 2. COMP1SEL2
 - 3. COMP1SEL5
 - 4. COMP1SEL4
 - 5. +12V
 - 6. +5V

COM5RS232, RS422, RS485 Select(JCOMPWRx)

This jumper allows you to select COM5 RS232, RS422, RS485. Changing jumpers will be selected different RSxxx protocols.

JCOMPWRx

43



-
1. JCOMPWR2
 2. JCOMPWR3
 3. JCOMPWR1

This jumper allows you to select COM5 RS232, RS422, RS485. Changing jumpers will be selected different RSxxx protocols.

3. BIOS Setup Utility

* This chapter tells how to change the system settings through the BIOS Setup menus.
Detailed descriptions of the BIOS parameters are also provided.

44

(1) Managing and updating your BIOS

1.1 Creating a bootable floppy disk

1. Do either one of the following to create a bootable floppy disk.

DOS environment

- a. Insert a 1.44MB floppy disk into the drive.
- b. At the DOS prompt, type **Format A:/S** then press <Enter>.

Windows® XP environment

- a. Insert a 1.44 MB floppy disk to the floppy disk drive.
- b. Click **Start** from the Windows® desktop, then select **My Computer**.
- c. Select the 3 1/2 Floppy Drive icon.
- d. Click **File** from the menu, then select **Format**. A **Format 3 1/2 Floppy Disk** window appears.
- e. Select **Create an MS-DOS startup disk** from the format options field, then click **Start**.

Windows® 2000 environment

To create a set of boot disks for Windows® 2000:

- a. Insert a formatted, high density 1.44 MB floppy disk into the drive.
- b. Insert the Windows® 2000 CD to the optical drive.
- c. Click Start, then select Run.
- d. From the Open field, type
D:\bootdisk\makeboot a:
assuming that D: is your optical drive.
- e. Press <Enter>, then follow screen instructions to continue.

2. Copy the original or the latest motherboard BIOS file to the bootable floppydisk.

(2) BIOS setup program

This motherboard supports a programmable firmware chip that you can update using the provided utility described in section “2.1 Managing and updating your BIOS.”

Use the BIOS Setup program when you are installing a motherboard, reconfiguring your system, or prompted to “Run Setup.” This section explains how to configure your system using this utility.

Even if you are not prompted to use the Setup program, you can change the configuration of your computer in the future. For example, you can enable the security password feature or change the power management settings. This requires you to reconfigure your system using the BIOS Setup program so that the computer can recognize these changes and record them in the CMOS RAM of the firmware hub.

The firmware hub on the motherboard stores the Setup utility. When you start up the computer, the system provides you with the opportunity to run this program.

Press **** during the Power-On-Self-Test (POST) to enter the Setup utility; otherwise, POST continues with its test routines.

If you wish to enter Setup after POST, restart the system by pressing **<Ctrl+Alt+Delete>**, or by pressing the reset button on the system chassis. You can also restart by turning the system off and then back on. Do this last option only if the first two failed.

The Setup program is designed to make it as easy to use as possible. Being a menu-driven program, it lets you scroll through the various sub-menus and make your selections from the available options using the navigation keys.

-
- The default BIOS settings for this motherboard apply for most conditions to ensure optimum performance. If the system becomes unstable after changing any BIOS settings, load the default settings to ensure system compatibility and stability. Select the Load Default Settings item under the Exit Menu. See section “2.7 Exit Menu.”
 - The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.
-

2.1 Legend Box

The keys in the legend bar allow you to navigate through the various setup menus.

Key(s)	Function Description
F1	General help, only for Status Page Setup Menu and Option Page Setup Menu
Esc	Return to the main menu from a sub-menu or prompts you to quit the setup program
←, →	Move to the item in the left or right hand
↑, ↓	Move to previous or next item
Enter	Brings up a selection menu for the highlighted field
+ or PgUp	Moves the cursor to the first field
- or PgDn	Moves the cursor to the last field
F5	Loads the previous values
F6, F7	Loads the fail-safe / optimized defaults
F10	Saves changes and exits Setup

2.2 List Box

This box appears only in the opening screen. The box displays an initial list of configurable items in the menu you selected.

2.3 Sub-menu

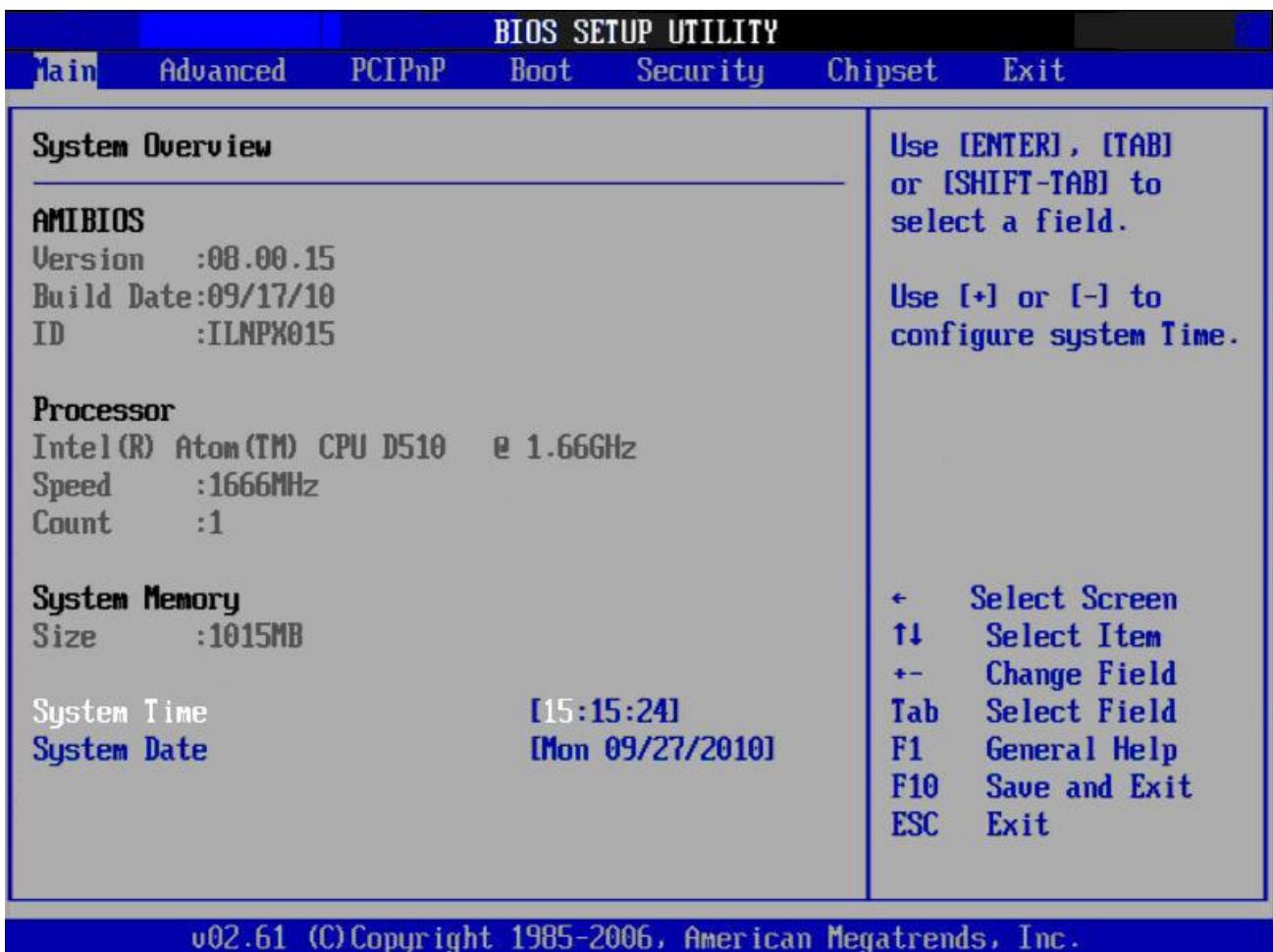
Note that a right pointer symbol (>) appears to the left of certain fields. This pointer indicates that you can display a sub-menu from this field. A sub-menu contains additional options for a field parameter. To display a sub-menu, move the highlight to the field and press <Enter>. The sub-menu appears. Use the legend keys to enter values and move from field to field within a sub-menu as you would within a menu. Use the <Esc> key to return to the main menu.

Take some time to familiarize yourself with the legend keys and their corresponding functions. Practice navigating through the various menus and submenus. If you accidentally make unwanted changes to any of the fields, press <F6> to load the fail-safe default values. While moving around through the Setup program, note that explanations appear in the Item Specific Help window located to the right of each menu. This window displays the help text for the currently highlighted field.

(3) Main Setup

3.1 Main Menu

Press to enter AMIBIOSCMOS Setup Utility, the Main Menu will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.



The Main BIOS setup screen has two main frames. The left frame displays all the options that can be configured. Grayed-out options can not be configured ; options in blue can. The right frame displays the key legend. Above the key legend is an area reserved for a text message. When an option is selected in the left frame, it is highlighted in white. Often a text message will accompany it.

•System time / System date

Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys.

Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields.

The date must be entered In MM/ DD/ YY format. The time must be entered in HH:MM:SS or mat.

3.2 Advanced BIOS Features

Select the Advanced tab from the AIMB-2I2 setup screen to enter the BIOS Setup screen. You can select any of the items in the left frame of the screen, such as CPU Configuration, to go to the submenu for that item. You can display an Advanced BIOS Setup option by highlighting it using

the <Arrow> keys. All Advanced BIOS Setup options are described in this section.

The Advanced BIOS Setup screen is shown below. The submenus are described on the following pages.

48

BIOS SETUP UTILITY

Main Advanced PCIPnP Boot Security Chipset Exit

Advanced Settings

WARNING: Setting wrong values in below sections
may cause system to malfunction.

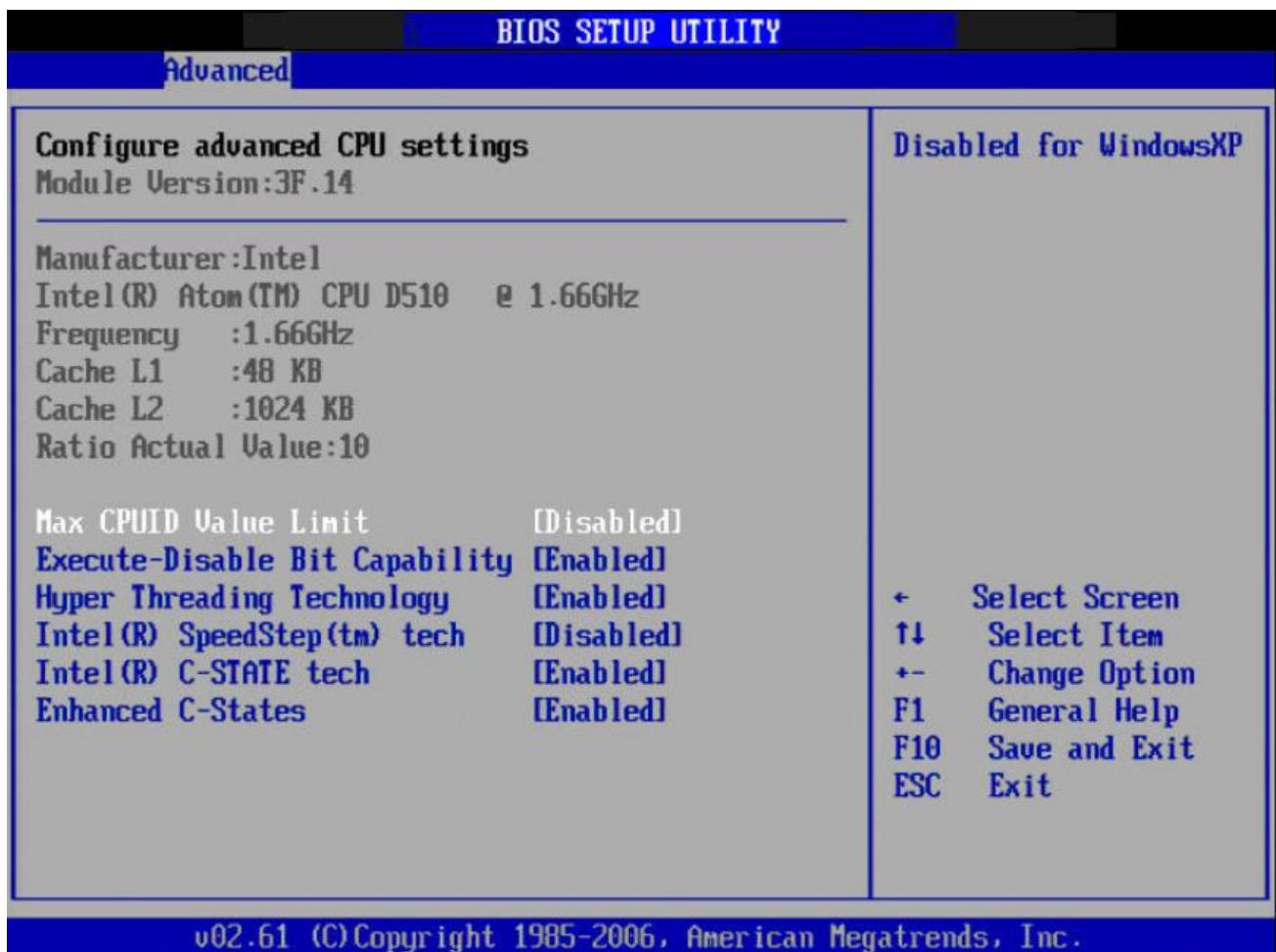
► CPU Configuration
► IDE Configuration
► SuperIO Configuration
► Hardware Health Configuration
► ACPI Configuration
► APM Configuration
► USB Configuration

Configure CPU.

+ Select Screen
↑↓ Select Item
Enter Go to Sub Screen
F1 General Help
F10 Save and Exit
ESC Exit

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3.3CPU Configuration



•Max CPUID Value Limit

This item allows you to limit CPUID maximum value.

•Execute-Disable Bit Capability

This item allows you to enable or disable the No-Execution page protection technology.

•Hyper Threading Technology

This item allows you to enable or disable Intel Hyper Threading technology.

•Intel® Speed StepTMtech

When set to disabled, the CPU runs at its default speed, when set to enabled, the CPU speed is controlled by the operating system.

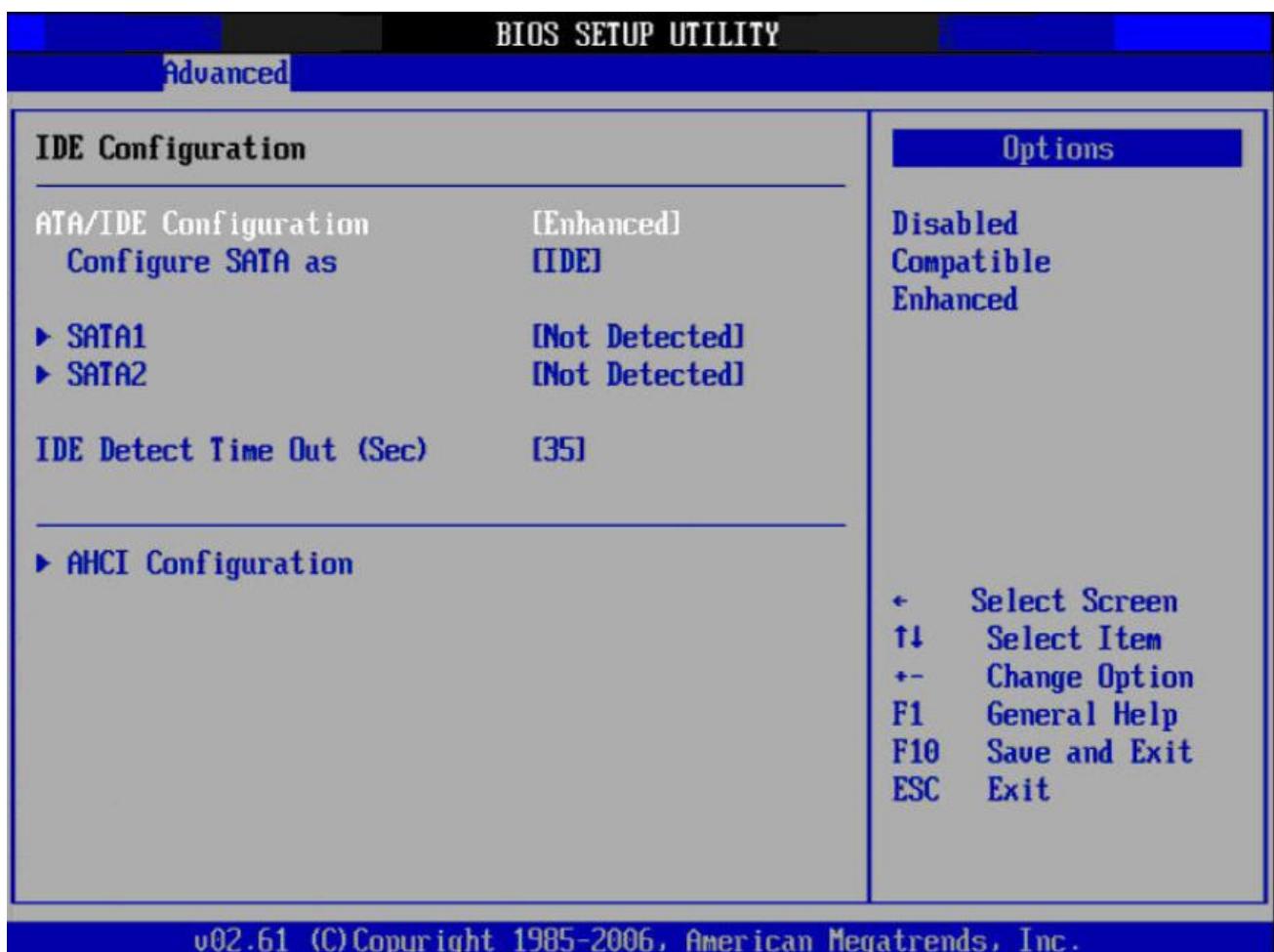
•Intel® C-STATE tech

This item allows the CPU to save more power in idle mode.

•Enhanced C-States

CPU idle set to enhanced C-States, disabled by Intel® C-STATE tech item.

3.4 IDE configuration



•ATA / IDE Configuration

This can be configured as Disabled, Compatible or Enhanced.

•Configure SATA as

This can be configured as IDE or AHCI.

•SATA1/SATA2

While entering setup, the BIOS automatically detects the presence of SATA devices.

This displays the status of SATA device auto-detection.

•IDE Detect Time Out (Sec)

This item allows you to select the time out value for detecting ATA/ ATAPI device(s).

•AHCI Configuration

AHCI is a new interface specification that allows the SATA controller driver to support advanced features.

While entering setup, BIOS auto detects the AHCI devices. This displays the status of auto detection of AHCI devices.

BIOS SETUP UTILITY

Advanced

Configure Win627DHG Super IO Chipset

WatchDog Timer	[0]
WatchDog Mode	[Second]
Serial Port1 Address	[3F8/IRQ4]
Serial Port2 Address	[2F8/IRQ3]
Parallel Port Address	[378]
Parallel Port Mode	[Normal]
Parallel Port IRQ	[IRQ7]
Serial Port3 Address	[3E8]
Serial Port3 IRQ	[5]
Serial Port4 Address	[2E8]
Serial Port4 IRQ	[10]
Serial Port5 Address	[288]
Serial Port5 IRQ	[11]
Serial Port6 Address	[280]
Serial Port6 IRQ	[11]

← Select Screen
↑↓ Select Item
Enter Update
F1 General Help
F10 Save and Exit
ESC Exit

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•On board Serial port1 [3F8/IRQ4]

This item allows user to adjust serial port1 address and IRQ.

•On board Serial port2 [2F8/IRQ3]

This item allows user to adjust serial port2 address and IRQ.

•On board Serial port3 [C80/IRQII]

This item allows user to adjust serial port3 address and IRQ.

•On board Serial port4 [C88/IRQIO]

This item allows user to adjust serial port4 address and IRQ.

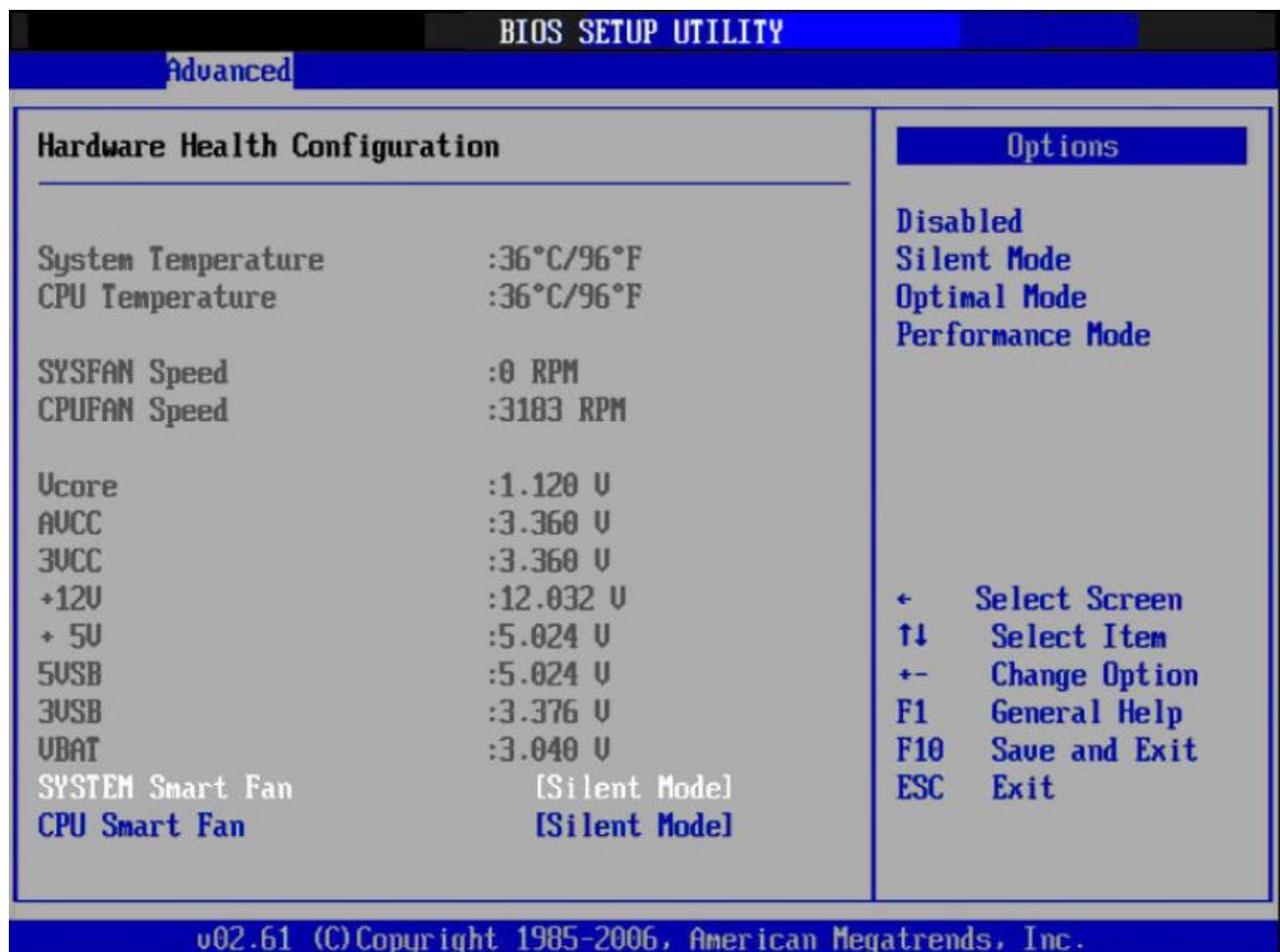
•On board Serial port5 [C90/IRQII]

This item allows user to adjust serial port5 address and IRQ.

•On board Serial port6 [C98/IRQIO]

This item allows user to adjust serial port7 address and IRQ.

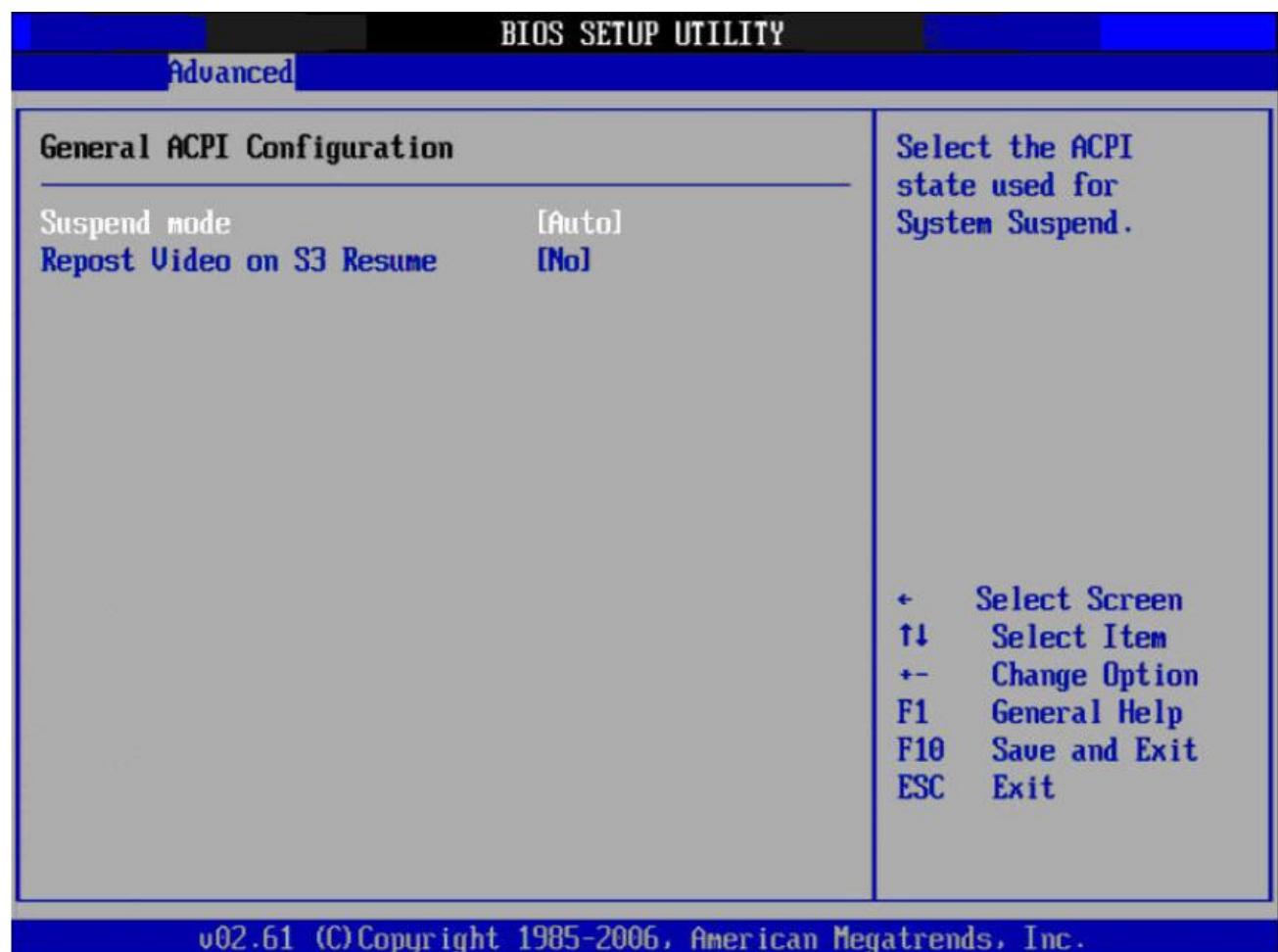
3.5Hardware Health Configuration



•CPU warning temperature

Use this to set the CPU warning temperature threshold. When the system CPU reaches the warning temperature ,the buzzer will beep.

3.6General ACPI Configuration



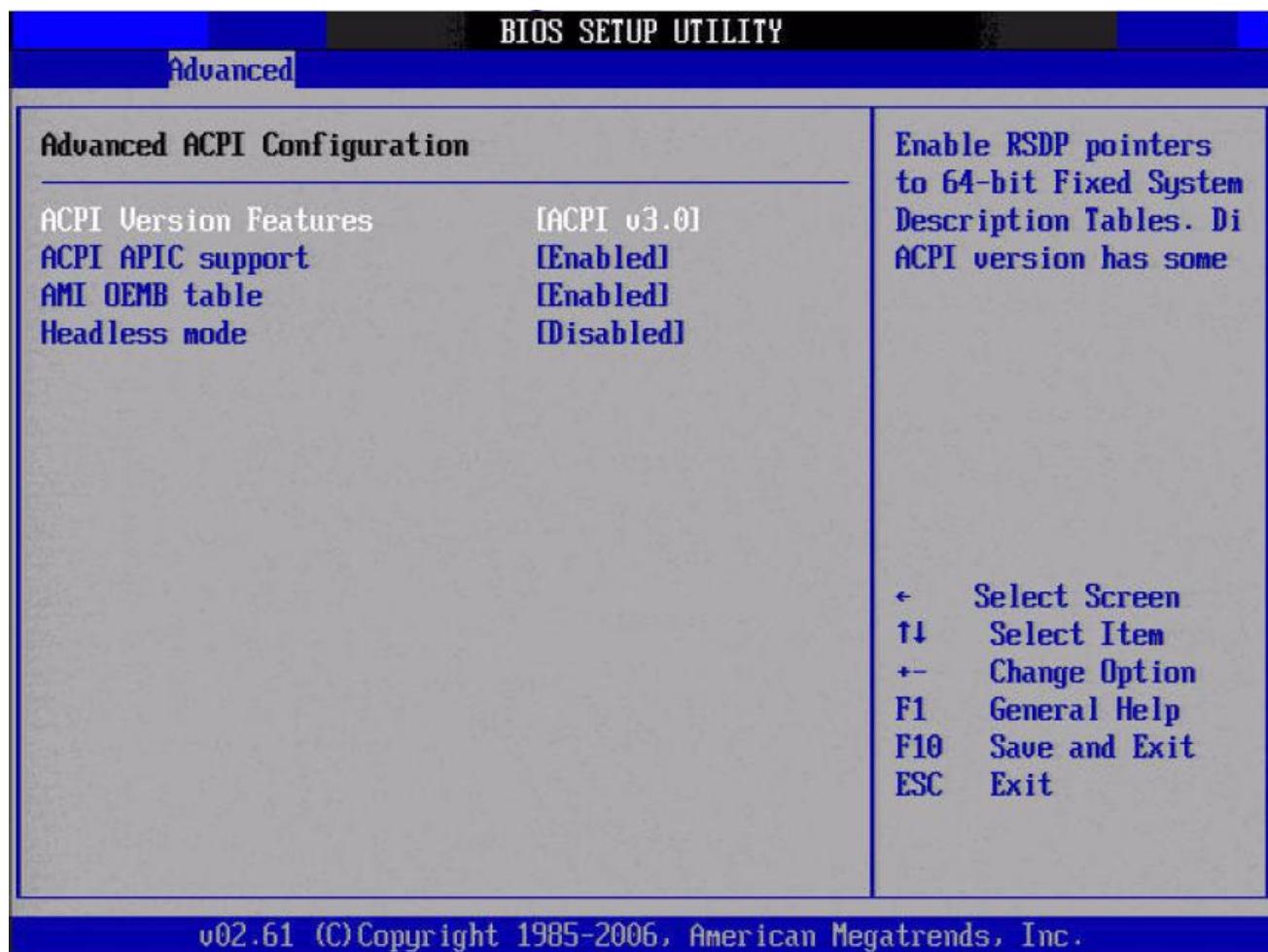
•**Suspend mode**

Select the ACPI state used for system suspend.

•**Report Video on S3 Resume**

This item allows you to invoke VABIOSPOST on S3 / STR resume.

3.7 Advanced ACPI Configuration



•ACPI Version Features

This item allows you to enable RSDP pointers to 64-bit fixed system description tables.

•ACPIAPIC support

Include ACPI table pointer to RSDT pointer list.

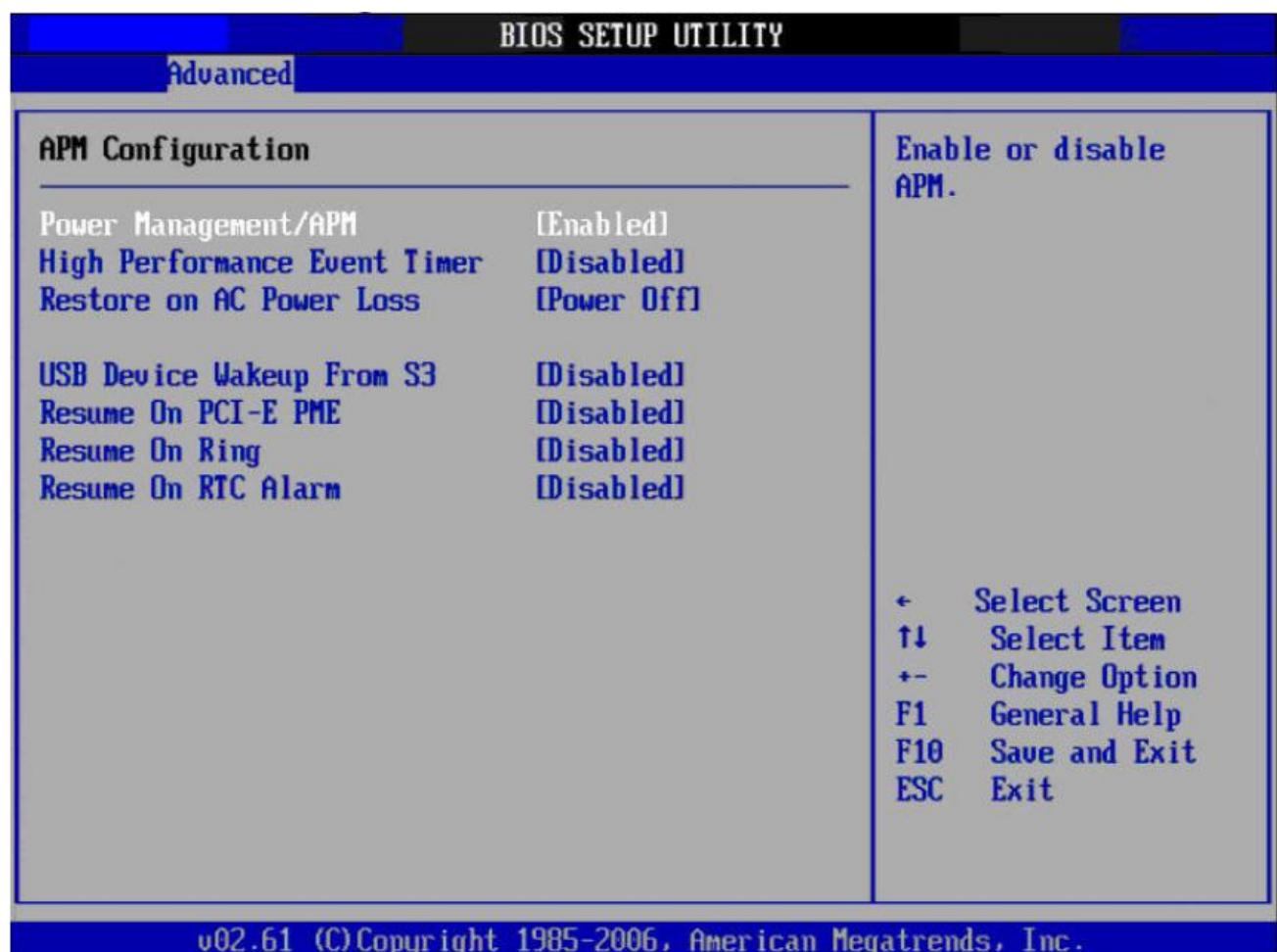
•AMI OEMB table

Include OEMB table pointer to R(x)SDT pointer lists.

•Head less mode

Enable/ Disable Head less operation mode through ACPI.

3.8 APM Configuration



•Power Management/ APM

Enable or disable APM power management function.

•Restore on AC Power Loss

This option allows user to set system action when AC power restores after AC Power loss. Available options include Power Off, Power On, Last Status.

•Resume On Ring

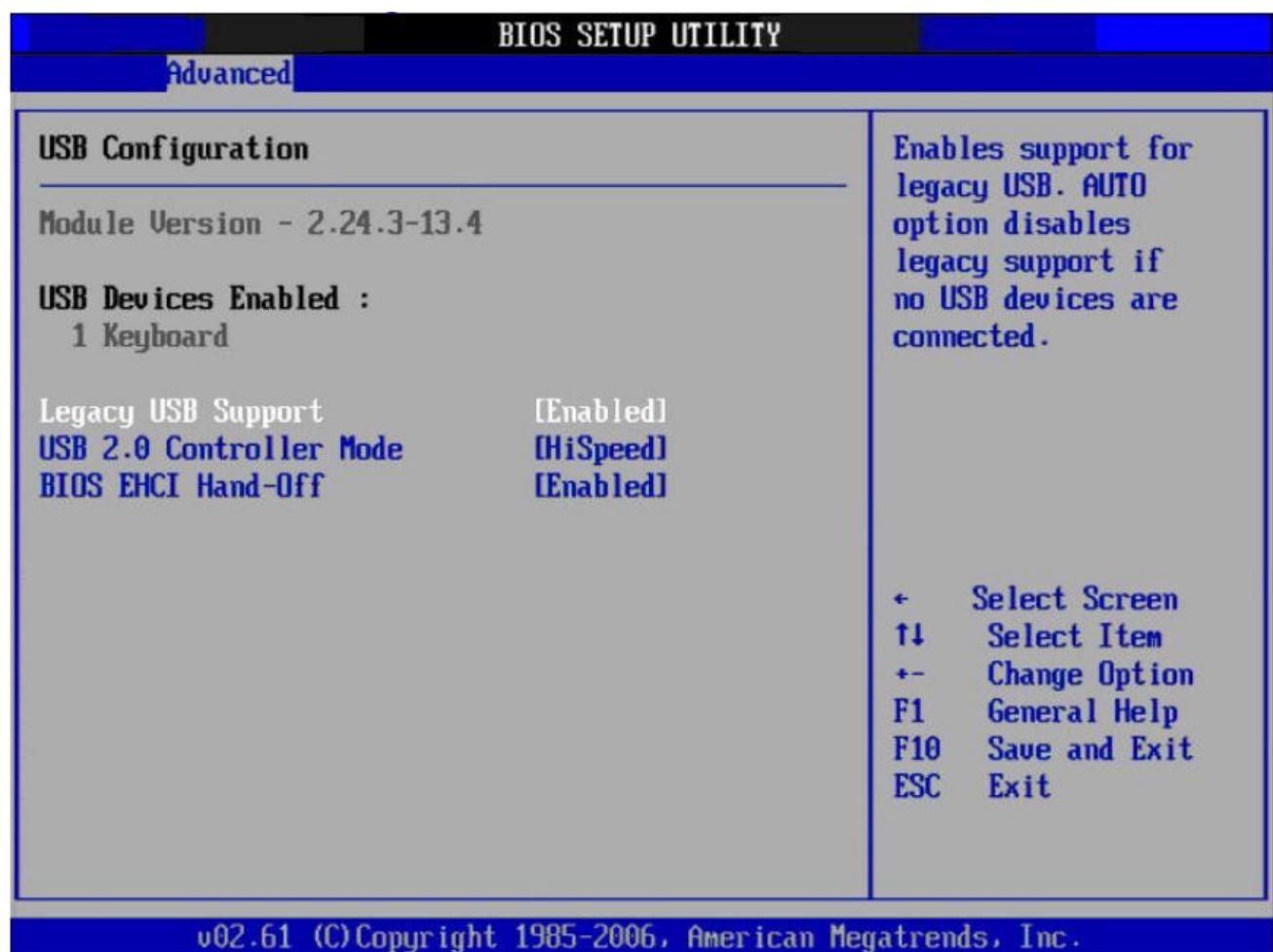
Disable / Enable RI wake event.

•Resume On RTC Alarm

Disable / Enable RTC wake event.

3.9USB Configuration

56



•Legacy USB Support

Enables support for legacy USB. Auto option disables legacy support If no USB Devices are connected.

•USB2.0 Controller Mode

This item allows you to select Hi-Speed (480Mbps) or Full Speed(12Mbps).

•BIOS EHCI Hand-Off

This is a workaround for Oss without EHCI hand-off support.
The EHCI owner-ship change should be claimed by EHCI driver.

3.10 Advanced PCI/ PnP Settings

Select the PCI / PnP tab from the AIMB-2I2 setup screen to enter the Plug andPlay BIOS Setup screen. You can display a Plug and Play BIOS Setup option by highlighting it using the <Arrow> keys. All Plug and Play BIOS Setup options are described in this section. The Plug and Play BIOS Setup screen is shown below.

57

BIOS SETUP UTILITY

Main Advanced PCIPnP Boot Security Chipset Exit

Advanced PCI/PnP Settings

WARNING: Setting wrong values in below sections may cause system to malfunction.

Clear NURAM	[No]	▲ Clear NURAM during System Boot. Select Screen Select Item Change Option General Help Save and Exit Exit
Plug & Play O/S	[No]	
PCI Latency Timer	[64]	
Allocate IRQ to PCI UGA	[Yes]	
Palette Snooping	[Disabled]	
PCI IDE BusMaster	[Enabled]	
OffBoard PCI/ISA IDE Card	[Auto]	
IRQ3	[Available]	
IRQ4	[Available]	
IRQ5	[Available]	
IRQ7	[Available]	
IRQ9	[Available]	
IRQ10	[Available]	
IRQ11	[Available]	

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•Clear NVRAM

Set this value to force the BIOS to clear the Non-Volatile Random Access Memory (NVRAM). The Optimal and Fail-Safe default setting is No.

•Plug& Play O/S

When set to No, BIOS configures all the devices in the system. When set to Yes and if you install a Plug and Play operating system, the operating system configures the Plug and Play devices not required for bootup.

•PCI Latency Timer

Value in units of PCI clocks for PCI device latency timer register.

•Allocate IRQ to PC IVGA

When set to Yes, will assign IRQ to PCI VGA card if card requests IRQ.

When set to No will not assign IRQ to PC IVGA card even if card requests an IRQ.

•Palette Snooping

This item is designed to solve problems caused by some non-standard VGA card.

•PCI IDE Bus Master

When set to Enabled, BIOS uses PCI bus mastering for reading! Writing to IDE drives.

•Off Board PCI / ISA IDE Card

Some PCI IDE cards may require this to be set to the PCI slot number that is holding the card.
Set to Auto works for most PC/IDE cards.

•IRQ 3/ 4/ 5/ 7/ 9/ 10/11

This item allows you to sign an interrupt types for IRQ-3, 4, 5, 7, 9, 10, 11.

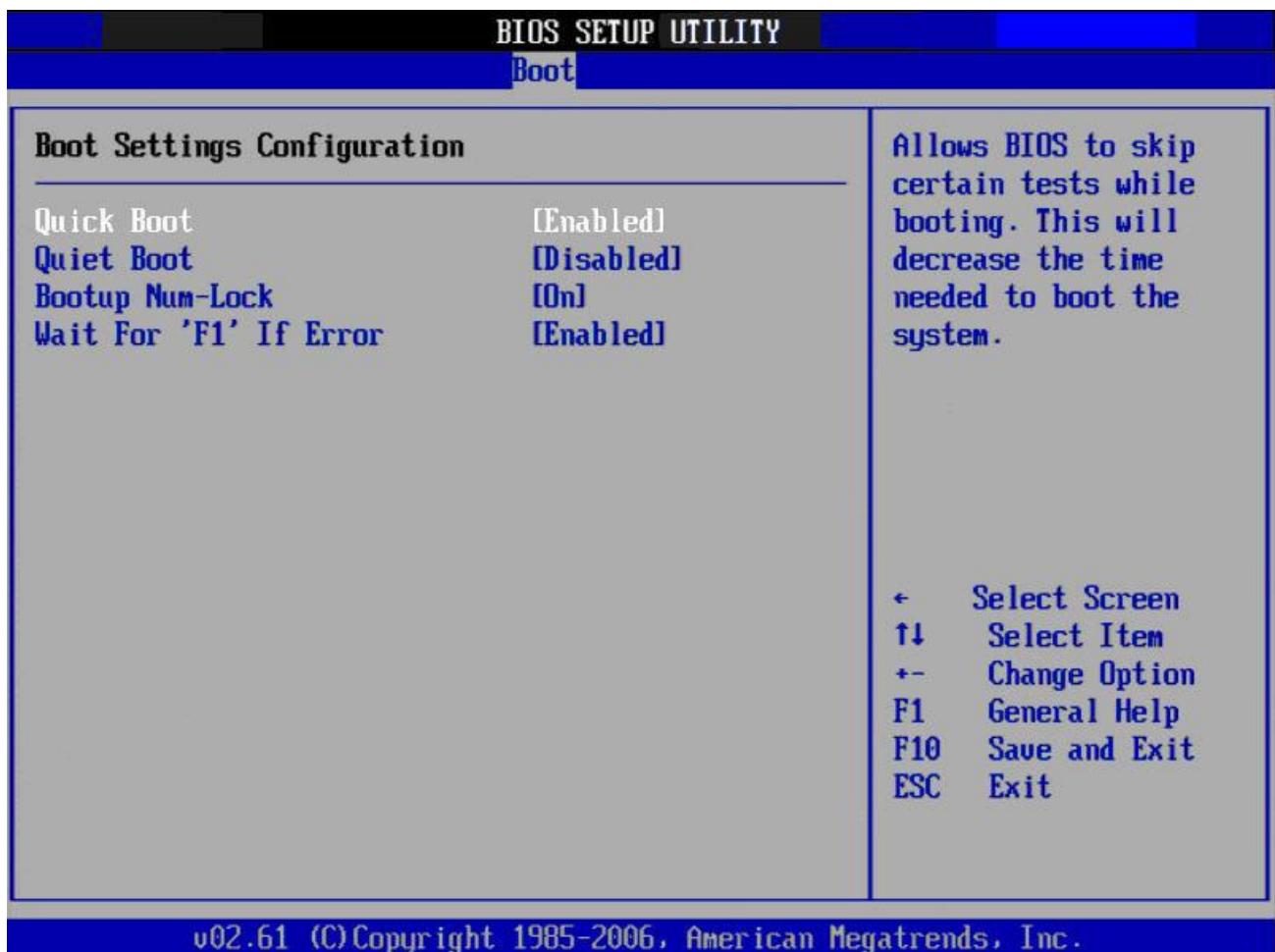
•DMA Channel 0/1/3/5/6/7

When set to Available, will specify DMA is available to be used by PCI/PnP devices.
When set to Reserved, will specified DMA is Reserved for use by legacy ISA devices.

•Reserved Memory Size

This item allows you to reserve a set amount of memory for legacy ISA devices.

3.11 Boot settings Configuration



•Quick Boot

This item allows BIOS to skip certain tests while booting.
This will decrease the time needed to boot the system.

•Quiet Boot

If this option is set to Disabled, the BIOS displays normal POST messages.
If Enabled, an OEM Logo is shown instead of POST messages.

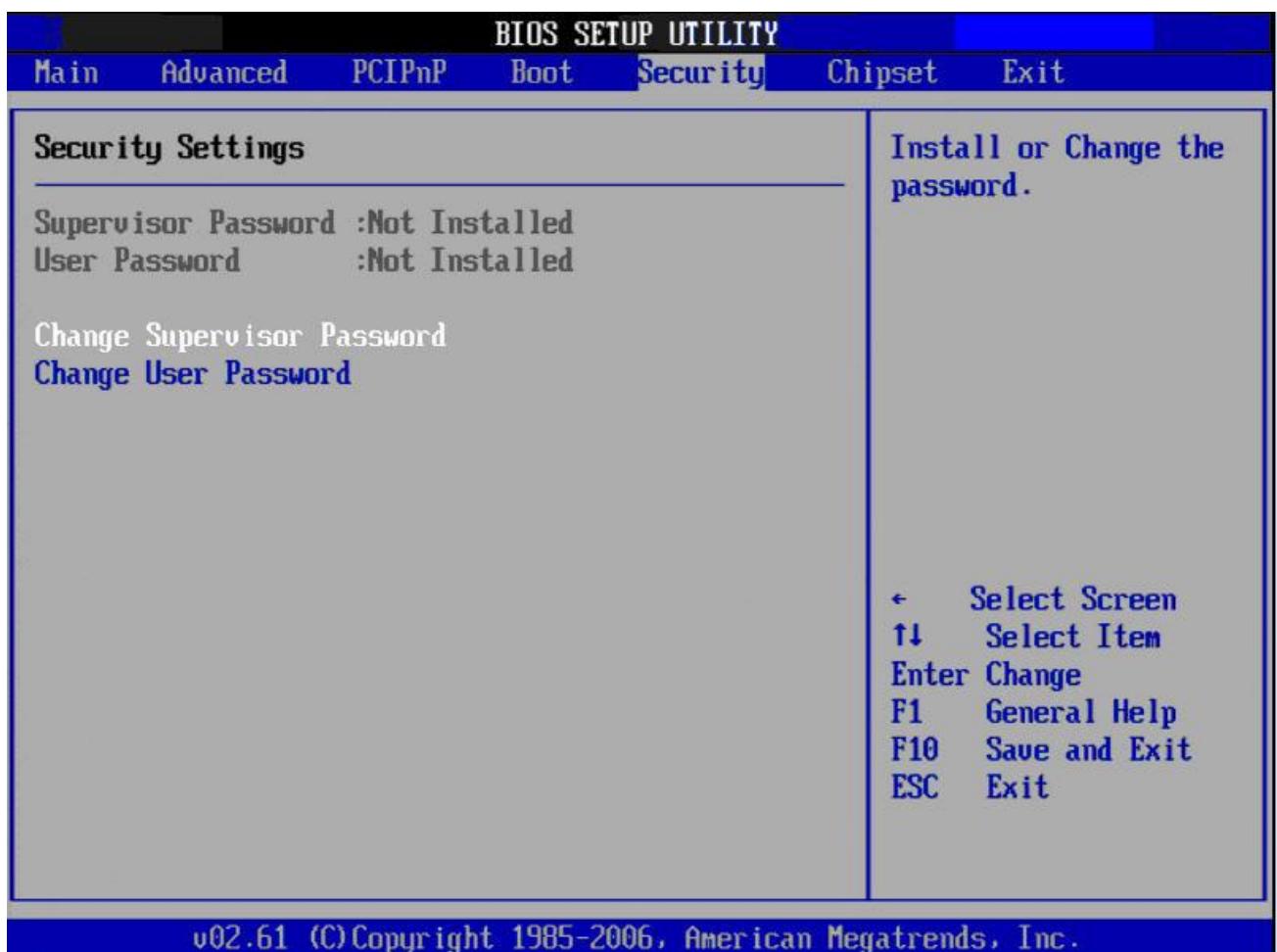
•Boot up Num-Lock

Select the Power-on state for Numlock.

•Wait For .F1. If Error

Wait for the F1 key to be pressed if an error occurs.

3.12 Security Setup



Select Security Setup from the PCM-9562 Setup main BIOS setup menu.

All Security Setup options, such as pass word protect ion and virus protection are described in this section.

To access the sub menu for the following items, select the item and press

<Enter> :

•**Change Supervisor / User Password**

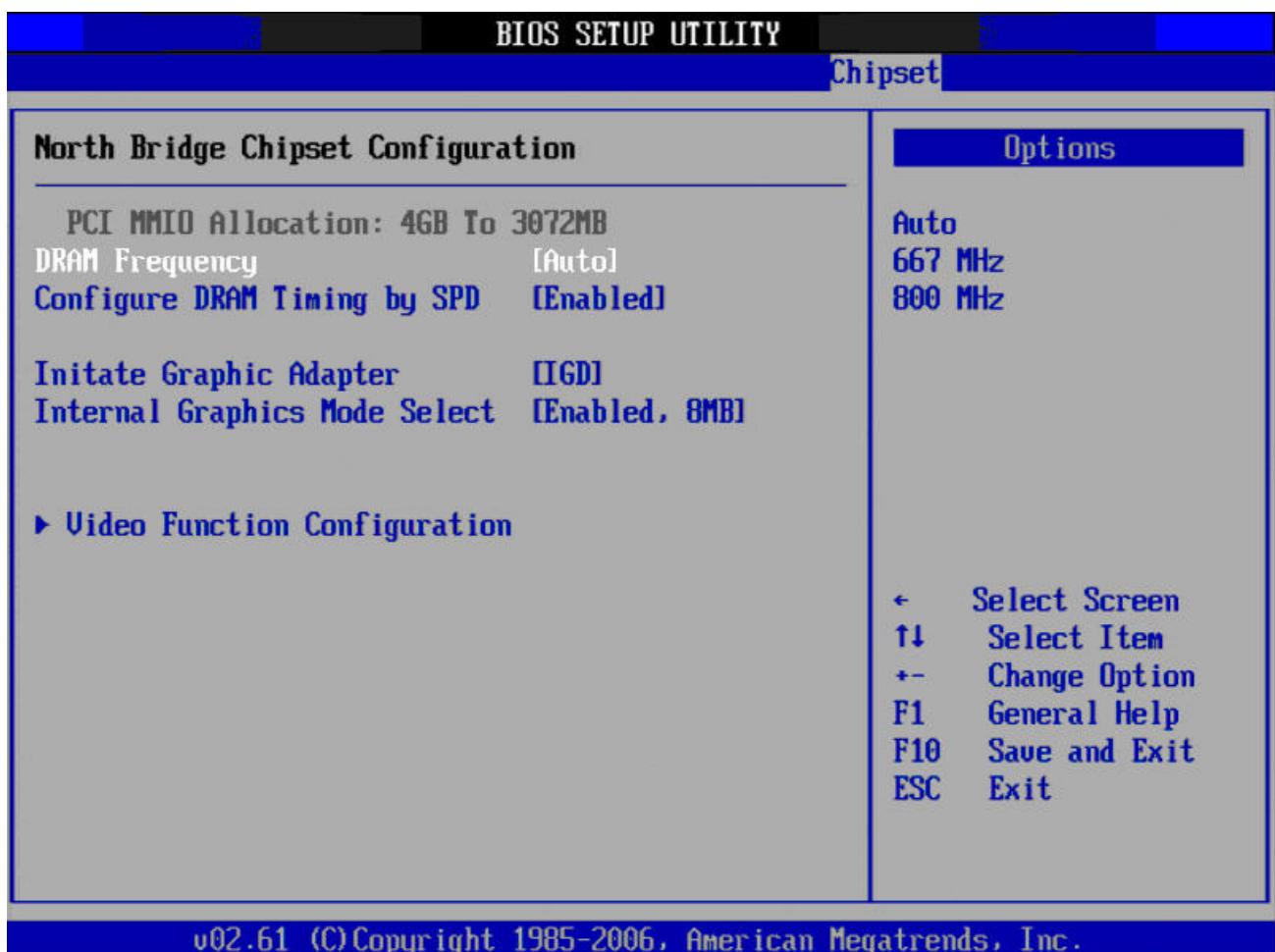
Provides for either installing or changing the password.

3.13 Advanced Chipset Settings



- North Bridge Configuration
- South Bridge Configuration

3.14 North Bridge Chipset Configuration



•DRAM Frequency

This item allows you to manually change DRAM frequency.

•Configure DRAM Timing by SPD

This item allows you to enable or disable detect by DRAM SPD.

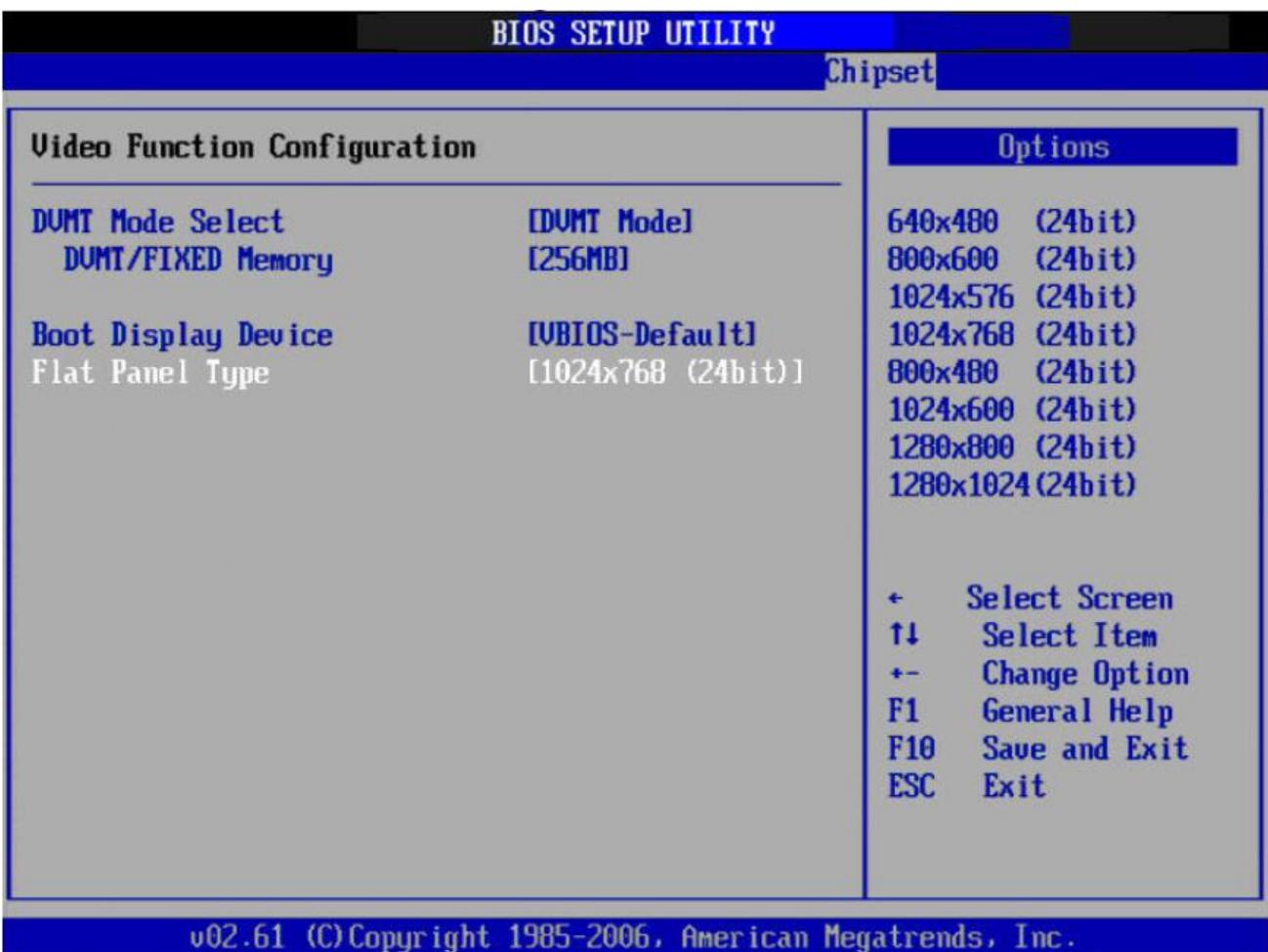
•Initiate Graphic Adapter

This item allows you to select which graphics controller to use as the primary boot device.

•Internal Graphics Mode Select

Select the amount of system memory used by the Internal graphics device.

3.15 Video Function Configuration



•DVMT Mode Select

Displays the active system memory mode.

•DVMT / FIXED Memory

Specifies the amount of DVMT/ FIXED system memory to allocate for video memory.

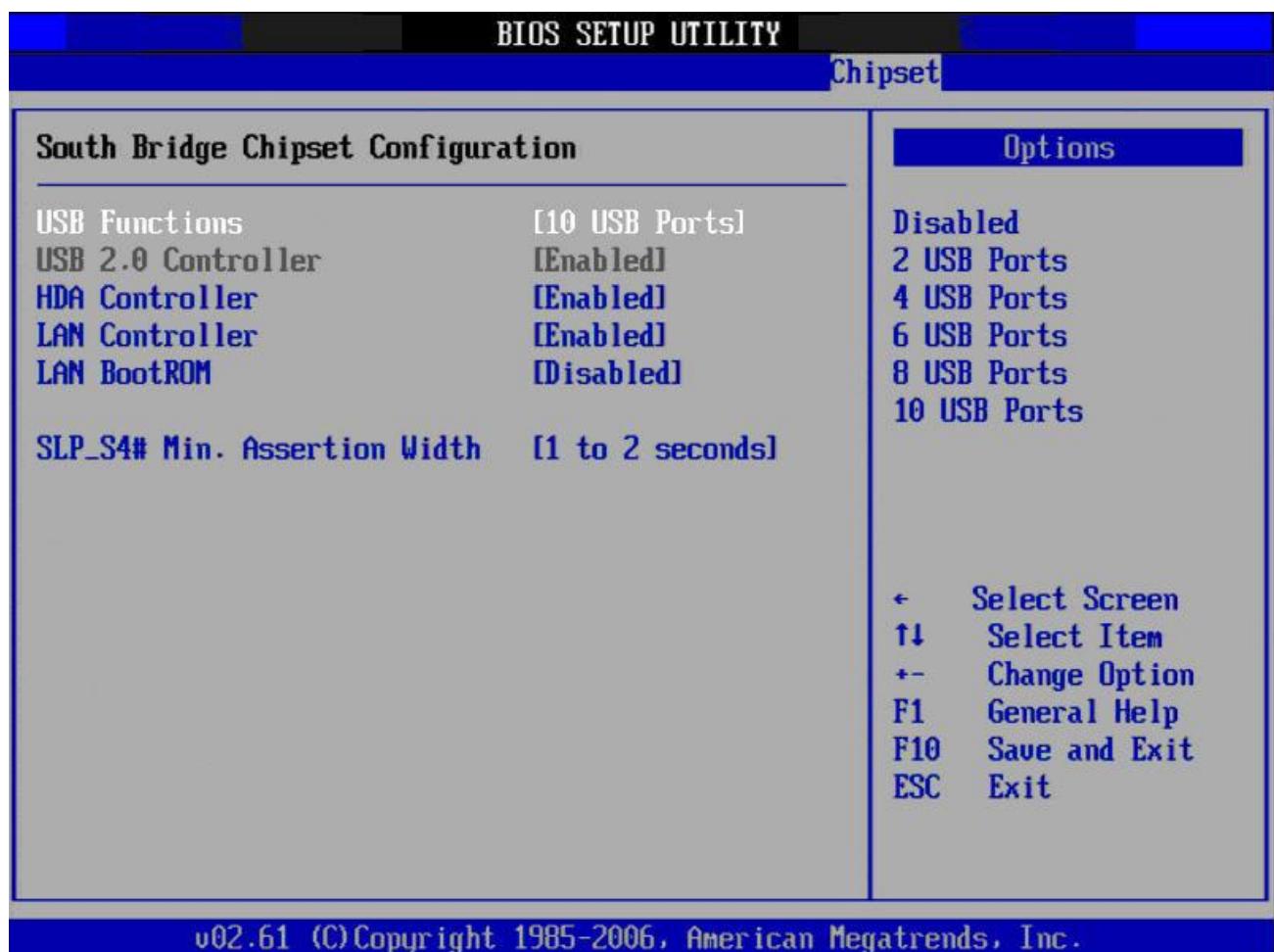
•Boot Display Device

Select boot display device at post stage.

•Flat Panel Type

This item allows you to select which panel resolution you want.

3.16 South Bridge Chipset Configuration



•USB Functions

Select : Disabled, 2 USB Ports, 4USB Ports, 6USB Ports or 8USB Ports.

•USB 2.0 Controller

Enables or disables the USB2.O controller.

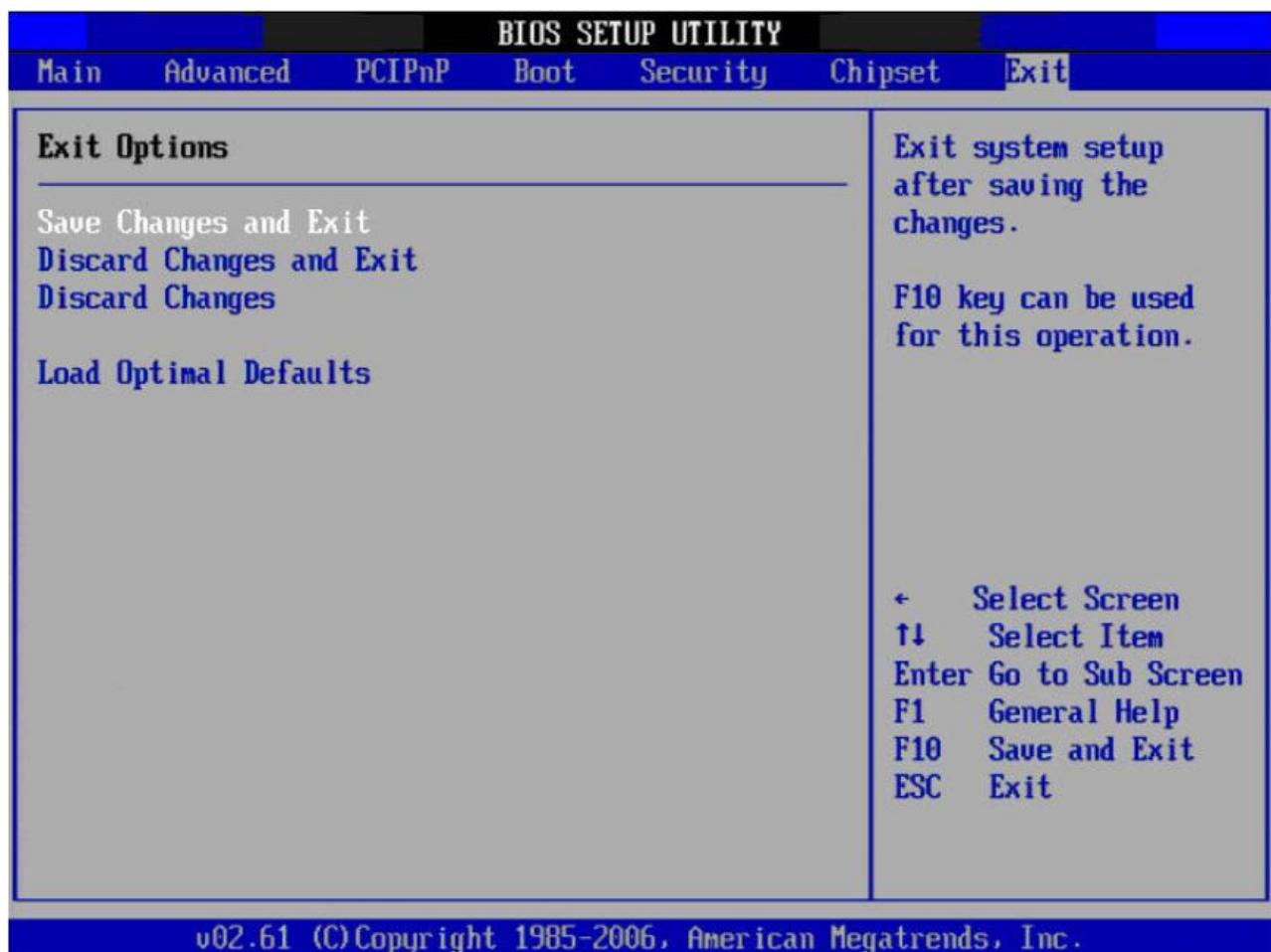
•LAN controller

Enables or disables the GbE controller.

•SLP_S4 # Min. Assertion Width

This item allows you to set a delay of a set number of seconds.

3.17 Exit Option



65

•Save Changes and Exit

When you have completed system configuration, select this option to save your changes, exit BIOS setup and reboot the computer so the new system configuration parameters can take effect.

Select Save Changes and Exit from the Exit menu and press <Enter>.

The following message appears:

Save Configuration Changes and Exit Now?

[Ok] / [Cancel]

2.Select Ok or Cancel.

•Discard Changes and Exit

Select this option to quit Setup without making any permanent changes to the system configuration.

Select Discard Changes and Exit from the Exit menu and press <Enter>.

The following message appears:

Discard Changes and Exit Setup Now?

[Ok]/ [Cancel]

2.Select Ok to discard changes and exit.

•Discard Changes

I.Select Discard Changes from the Exit menu and press<Enter>.

•Load Optimal Defaults

The ID525-PBP3 automatically configures all setup items to optimal settings when you select this option. Optimal Defaults are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Optimal.

Defaults if your computer is experiencing system configuration problems.

Select Load Optimal Defaults from the Exit menu and press <Enter>.

4.Troubleshooting

66

(1) Network Issues

Symptom	Corrective Procedure
Cannot access LAN	<ul style="list-style-type: none">▪ Check if hub or switch is working correctly▪ Check RJ45 cable connection▪ Check if LAN LEDs are on/off▪ Reinstall LAN card▪ Replace motherboard

(2) MSR Issues

Symptom	Corrective Procedure
MSR does not respond	<ul style="list-style-type: none">▪ Check MSR reader cable connection▪ Check motherboard and LCD cable connection▪ Check MSR board cable connection

(3) USB Issues

Symptom	Corrective Procedure
USB port doesn't work	<ul style="list-style-type: none">▪ Check Windows device manager for device recognition▪ Check USB device status and connection▪ Erase and re-install USB driver▪ Change USB device

(4) LCD Issues

Symptom	Corrective Procedure
LCD backlight doesn't work	<ul style="list-style-type: none">▪ Check LCD cable connection▪ Check inverter cable connection▪ Replace inverter cable▪ Change LCD panel

(5) Touch-screen Issues

Symptom	Corrective Procedure
Touch-screen doesn't detect touch operations	<ul style="list-style-type: none">▪ Check touch-screen cable connection▪ Check motherboard and LCD cable connection▪ Check BIOS set-up

67

(6) Power Issues

Symptom	Corrective Procedure
System switches off abruptly and system does not load	<ul style="list-style-type: none">▪ Check A/C cable connection▪ Check motherboard power connection▪ Check CPU settings/status▪ Check DRAM settings▪ Check power button cable connection▪ Change power adaptor unit

(7) PS/2 Keyboard Issues

Symptom	Corrective Procedure
PS/2 Keyboard Issues	<ul style="list-style-type: none">▪ Check card-reader cable▪ Check CN6 jumper

(8) Booting Issues

Symptom	Corrective Procedure
Re-booting during system operation	<ul style="list-style-type: none">▪ Check SATA cable connection▪ Check memory status

5. Maintenance

Safety Warning

POSBANK will not be held responsible for repairs conducted via service providers other than those officially specified by the seller.

68

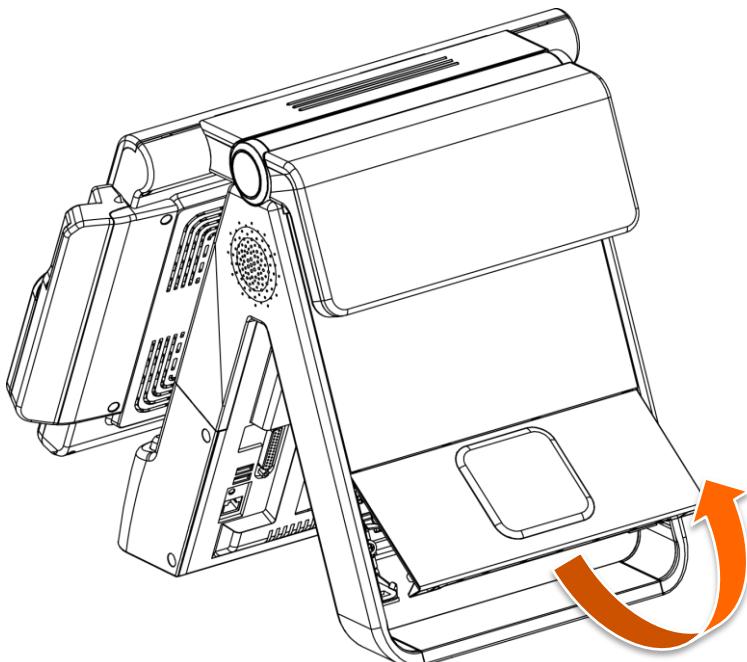
General Guidelines

1. Always disconnect the unit from the power outlet.
2. Disconnect all cables from the POS main unit before attempting reparation.
3. Keep all components in the static-proof packaging provided until ready for installation.
4. If the device still is not functioning after repair, please turn off the POS unit and contact the customer service center for a follow-up inspection.
5. We recommend that power supply unit (PSU) checks and monitor repairs only be performed at a certified service center.

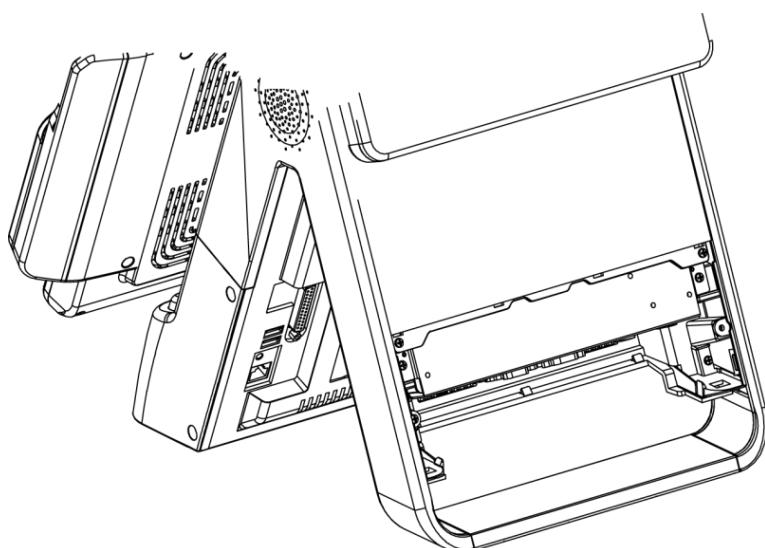
(1) Motherboard Replacement

Motherboard Replacement

69



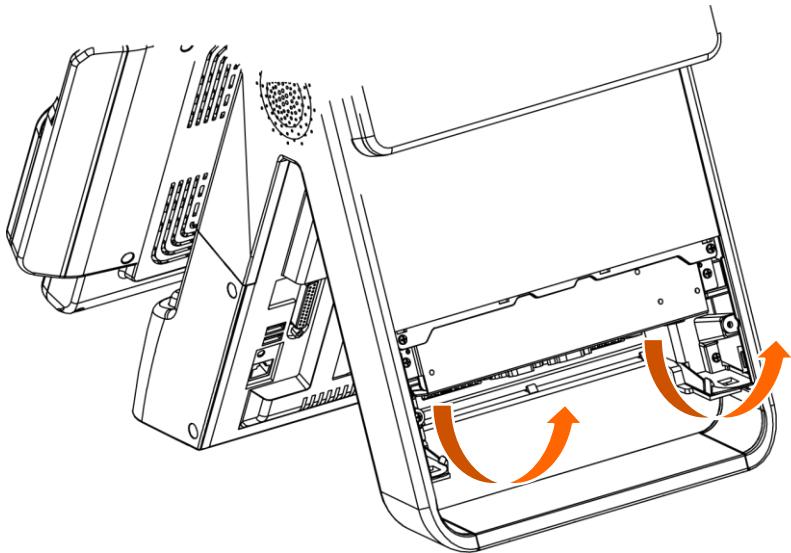
Step 1. Pull the bottom and lift up the interface panel.



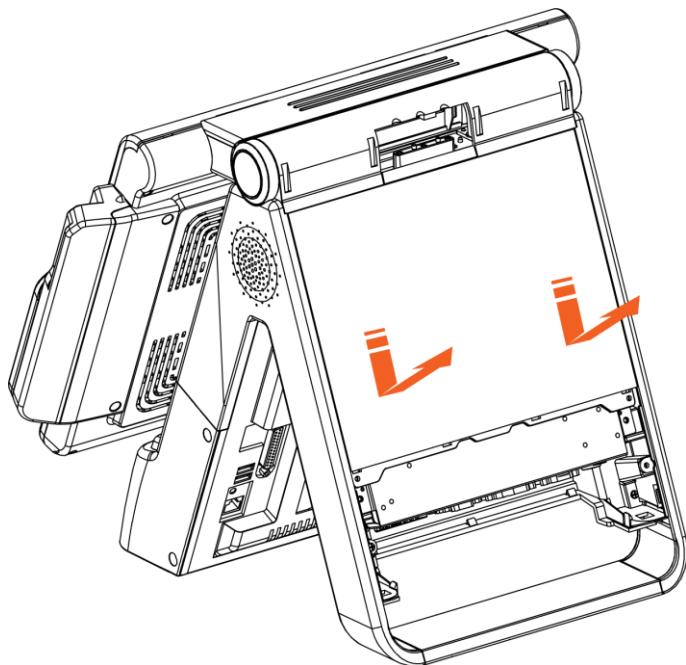
Interface panel is now removed.

Motherboard Replacement

70



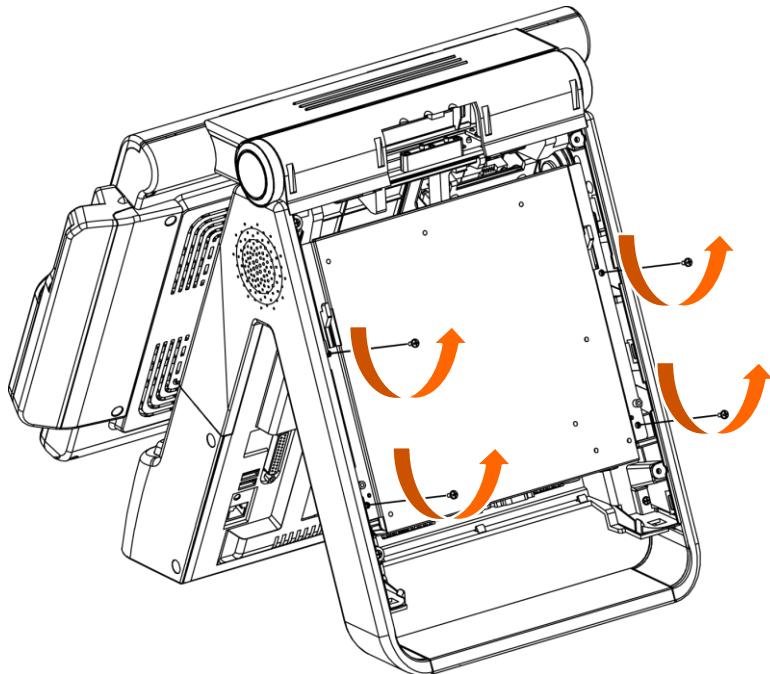
Step 2. After removing the interface panel, remove the 2 screws from underneath (as shown)



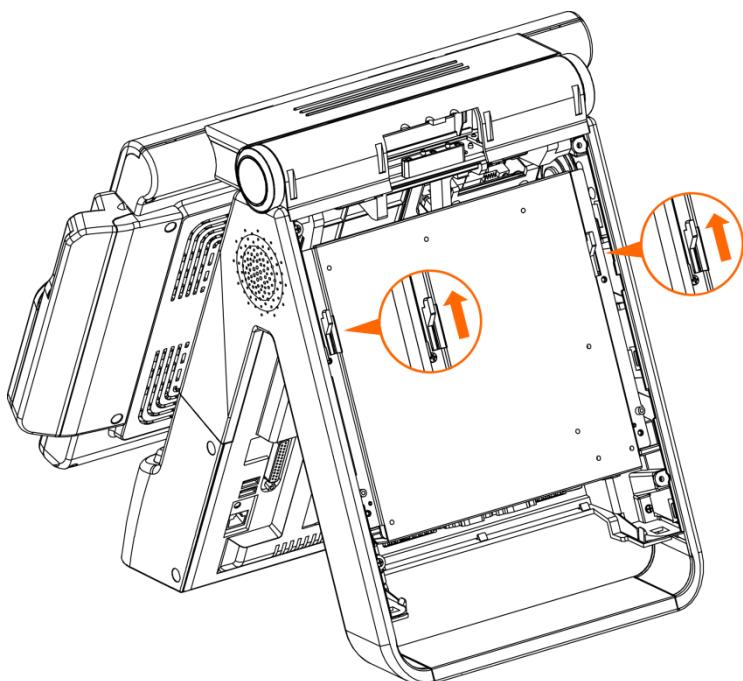
Step 3. Pull the second cover off main unit.

Motherboard Replacement

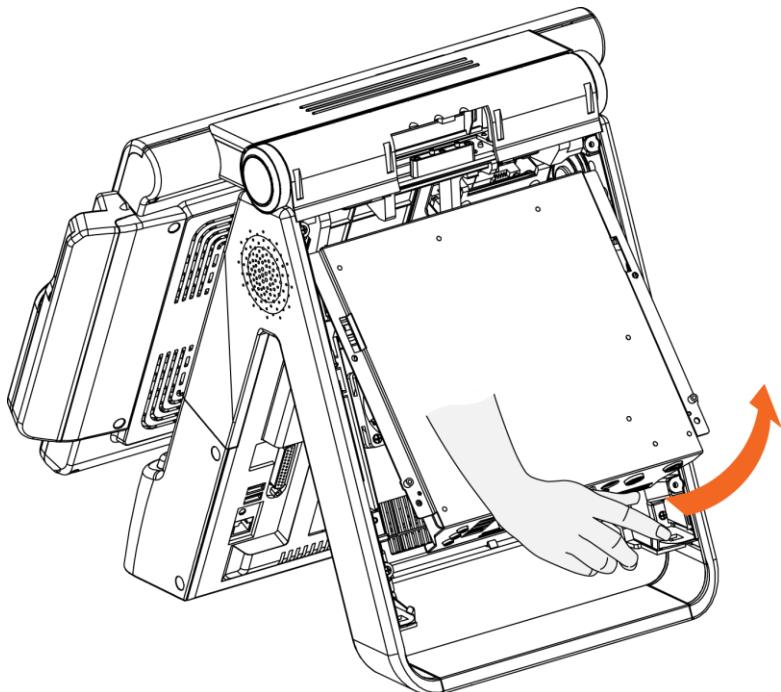
71



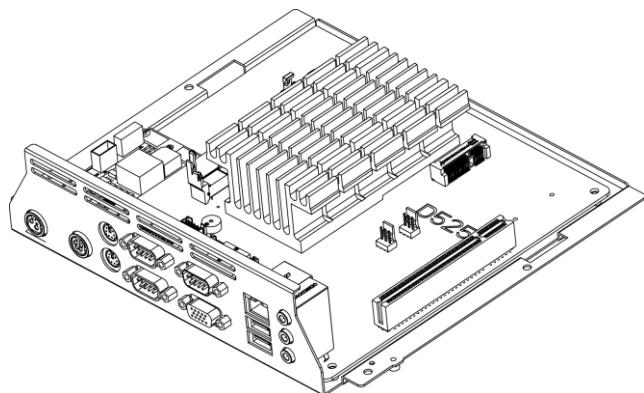
Step 4. Remove the 4 screws from either side of the panel underneath.



Step 5. Detach from fixtures at either side of panel.



Step 6. Remove motherboard mounting panel (as shown).

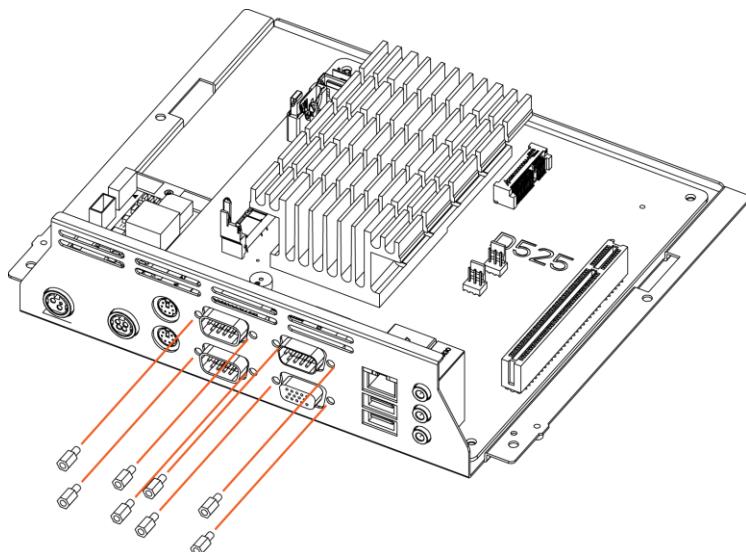


Motherboard mounting panel is now removed.

Step 7. Remove Replace motherboard mounting panel and reassemble unit using the reverse procedure of steps 1-6 above.

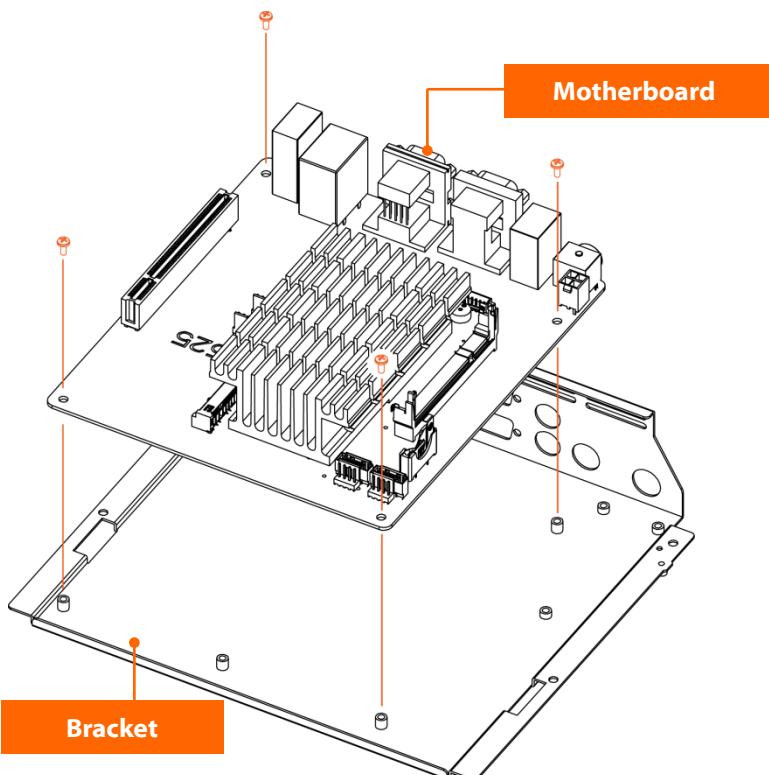
Motherboard Replacement

73



Step 7. Remove the 8 Six-angle screws as shown in the picture.

These screws can be removed by turning counterclockwise with a designated spanner.



Step 8. Separate the Motherboard after removing 4 screws.

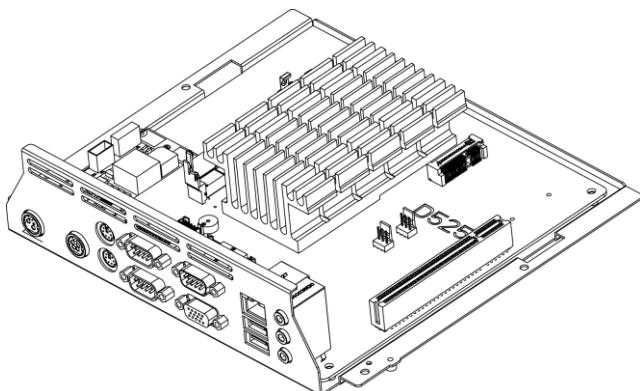
Motherboard is now removed.

Step 9. Replace motherboard and reassemble unit using the reverse procedure of steps 1-8 above.

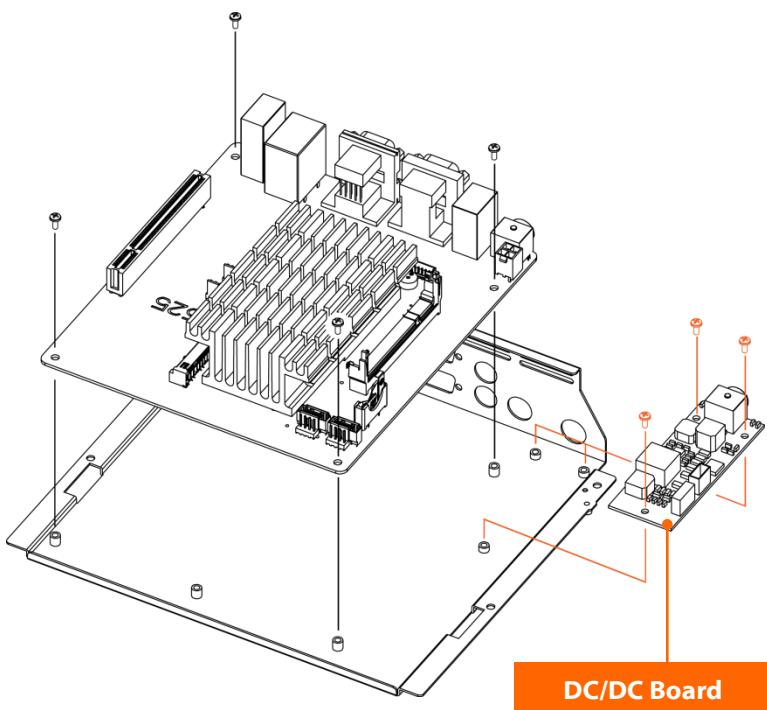
(2) DC/DC Board Replacement

DC/DC Board Replacement

74



Step 1. Separate the Motherboard mounting panel.
(Please refer to P.71~73)

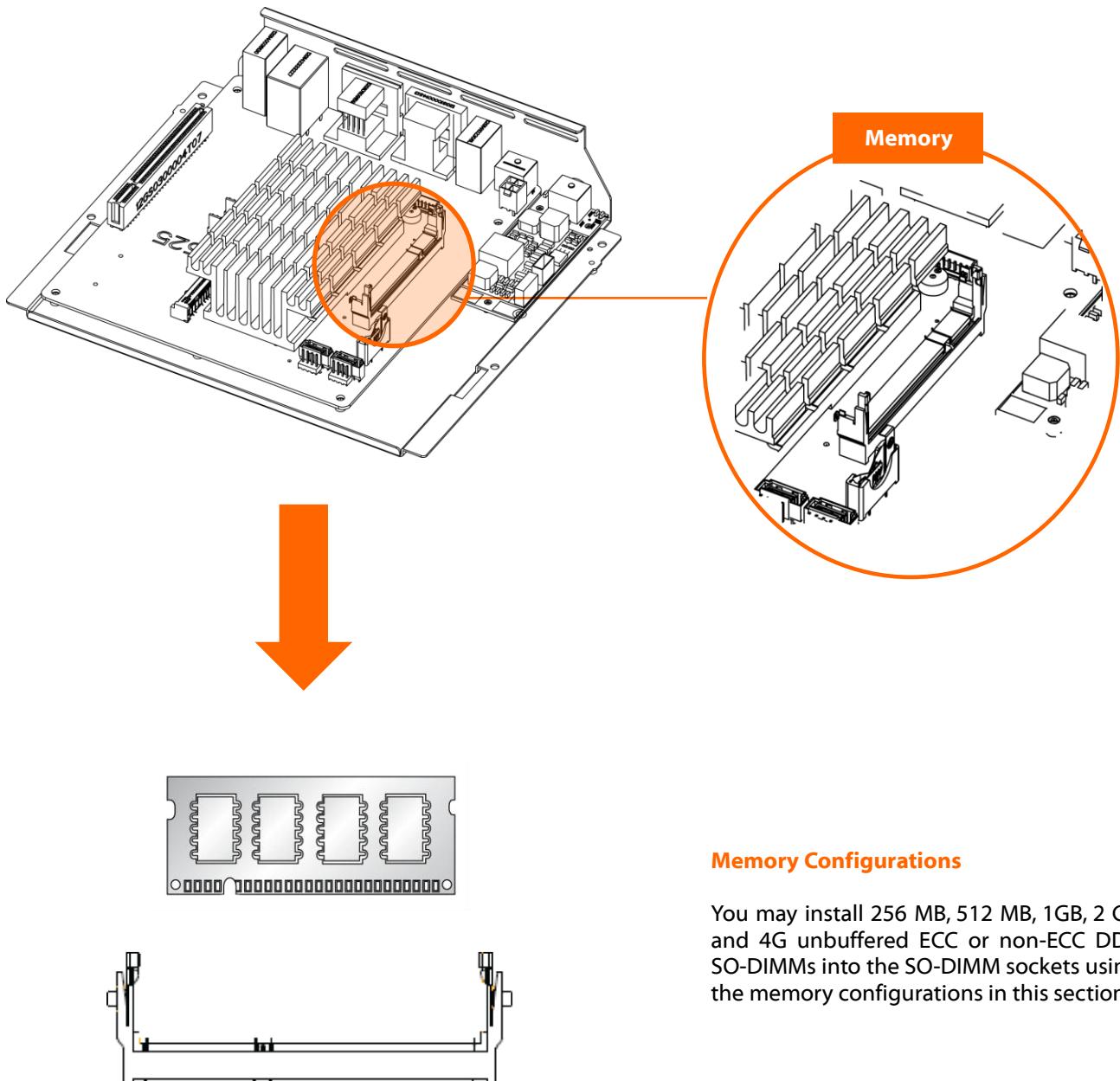


Step 2. Separate the DC/DC Board after removing 3 screws.

(3) Memory Replacement

Memory Replacement

75

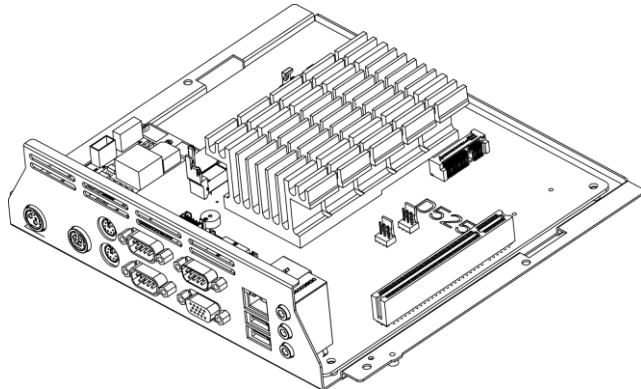


Memory Configurations

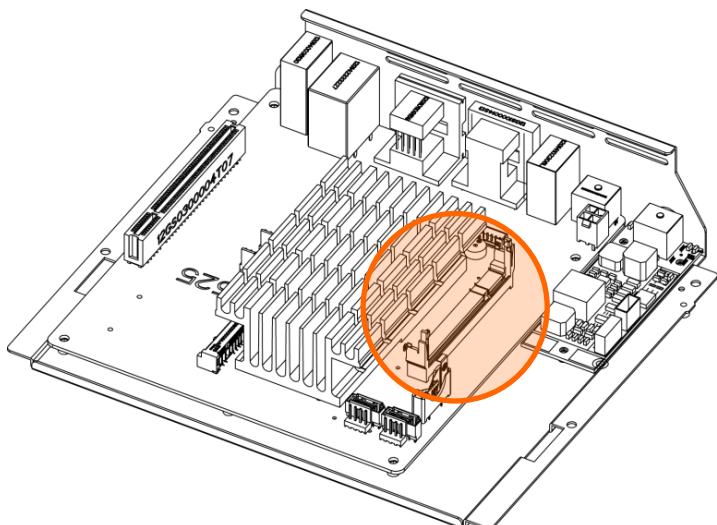
You may install 256 MB, 512 MB, 1GB, 2 GB and 4G unbuffered ECC or non-ECC DDR SO-DIMMs into the SO-DIMM sockets using the memory configurations in this section.

Memory Replacement

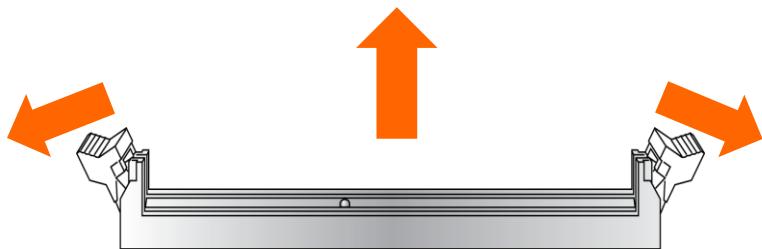
76



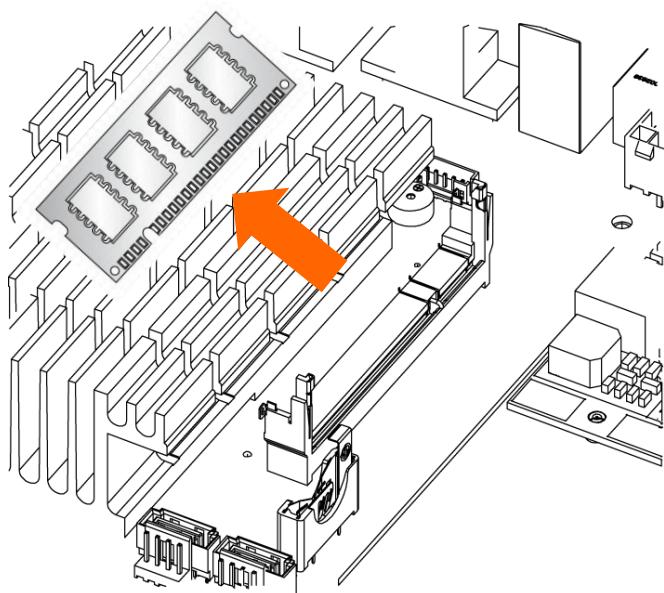
Step 1. Remove motherboard mounting panel (Please refer to P.70~73)



Step 2. locate the memory(SO-DIMM) socket. (see Figure)



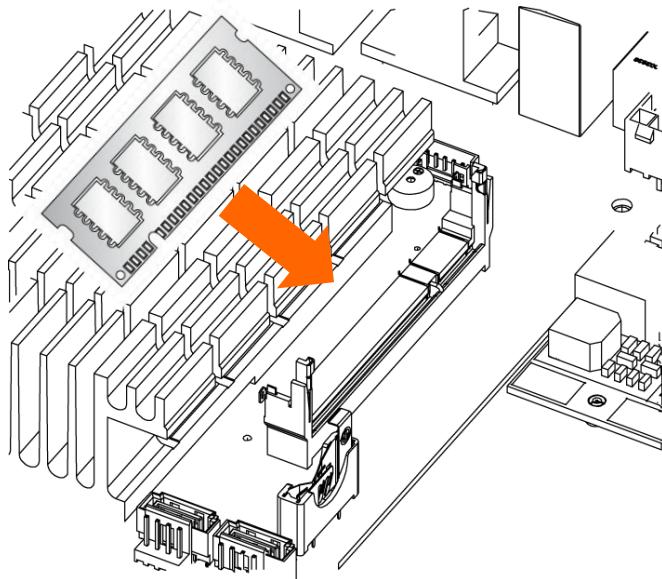
Step 3. Gently spread the retaining clips at each end of the memory socket. The memory(SO-DIMM) pops out of the socket.



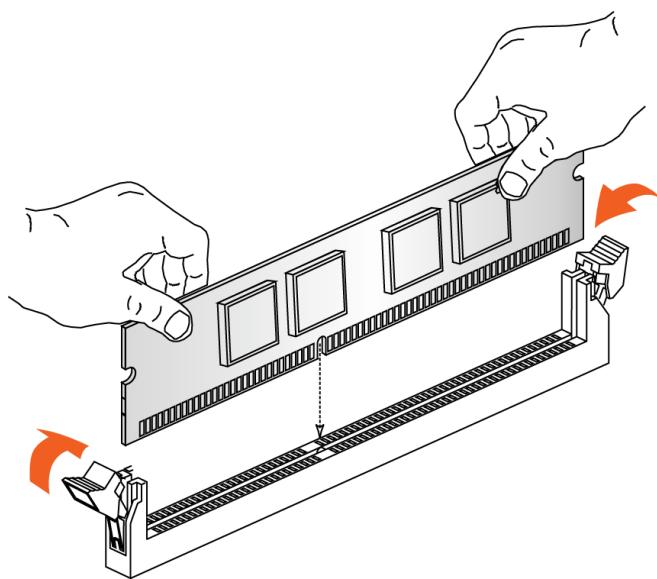
Step 4. Remove the memory(SO-DIMM) from the socket.

Memory Replacement

78



Step 5. To replace new memory;
Position the new memory above the
socket.



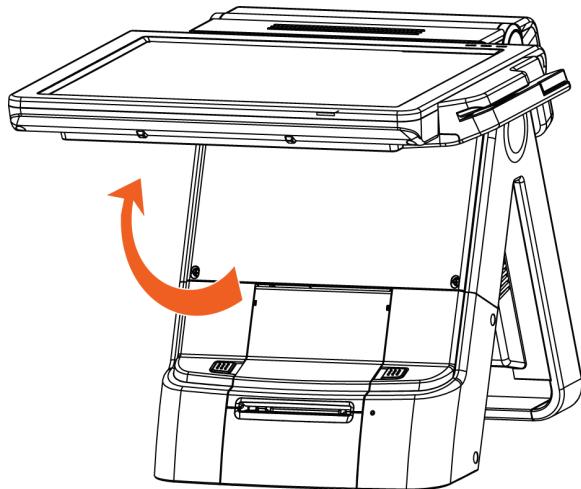
Step 6. Align the small notch at the
bottom edge of the memory with the keys
in the socket.

Step 7. When the memory is inserted, push
down on the top edge of the memory until
the retaining clips snap into place. Make
sure the clips are firmly in place.

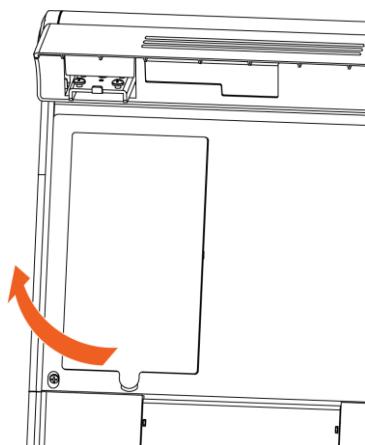
(4) HDD Replacement

HDD Replacement

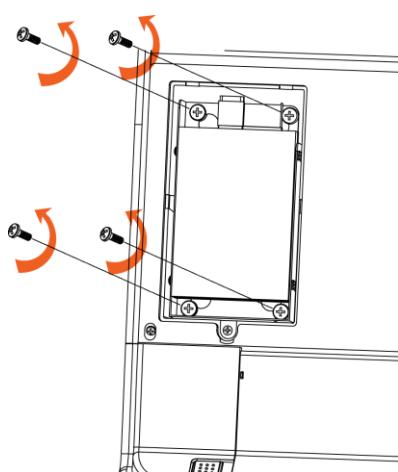
79



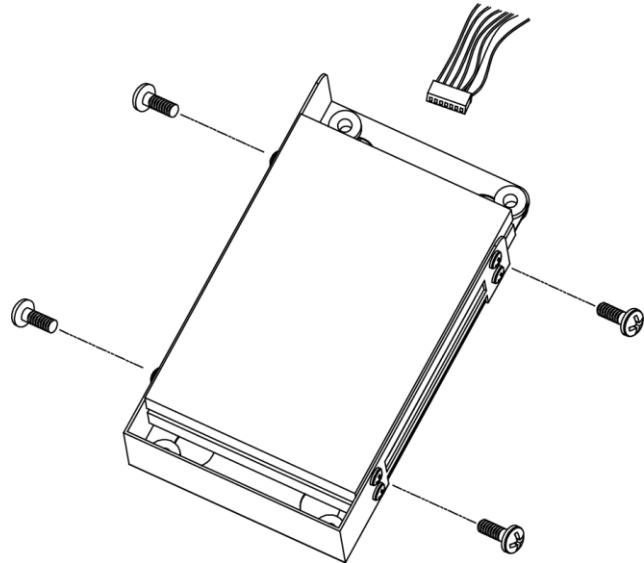
Step 1. Raise the main display unit.



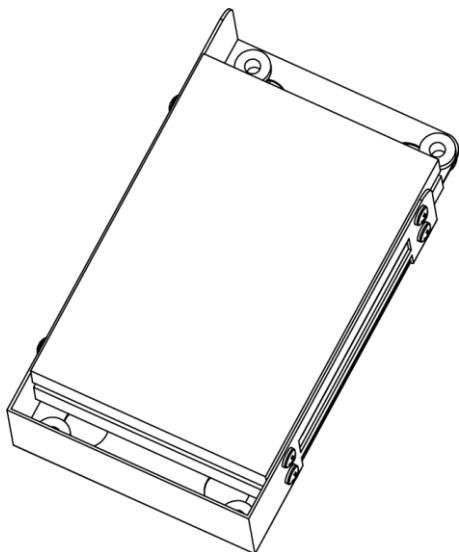
Step 2. Remove HDD cover.



Step 3. Remove the 4 screws beneath (as shown figure).



Step 4. Remove the 4 screws from side of HDD and disconnect cable.



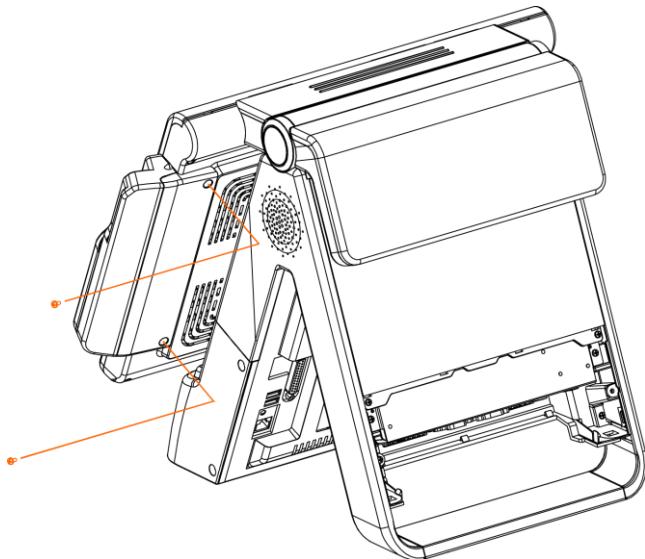
HDD is now removed.

Step 5. Replace HDD and reassemble unit using the reverse procedure of steps 1-4 above.

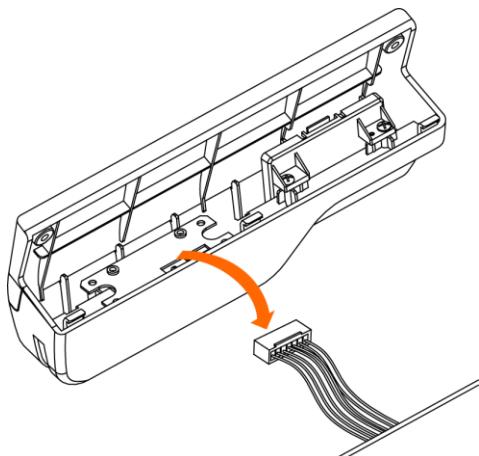
(5) MSR Replacement

MSR Replacement

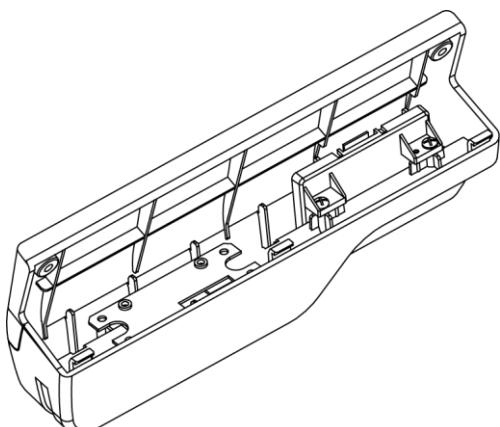
81



Step 1. Remove 2 screws from side of main unit (as shown figure).



Step 2. Detach cable from MSR unit.



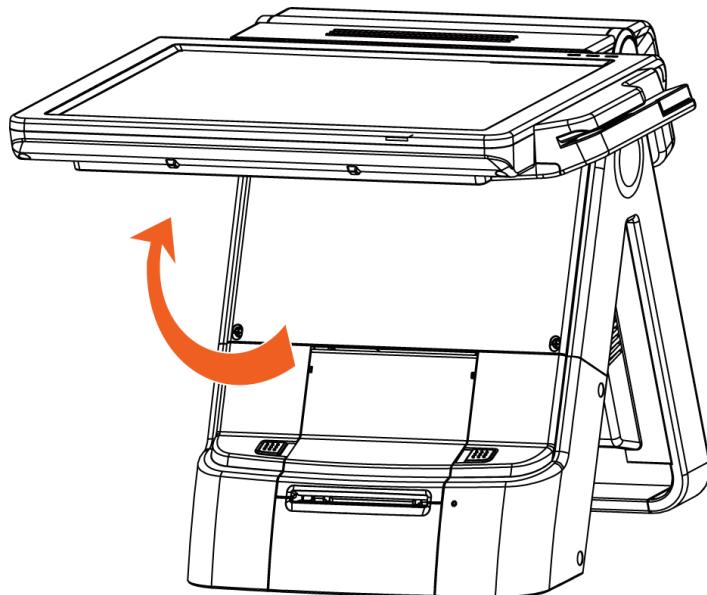
Step 3. Replace MSR and reassemble unit using the reverse procedure of steps 1-2 above.

MSR Replacement.

(6) Display Unit Replacement

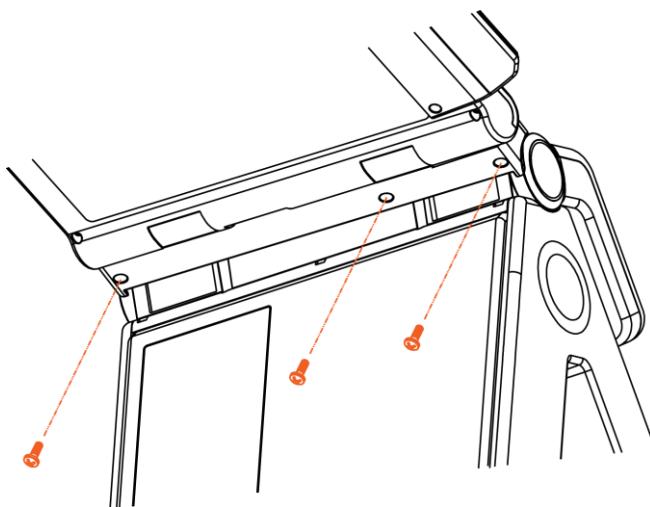
Display Unit Replacement

82

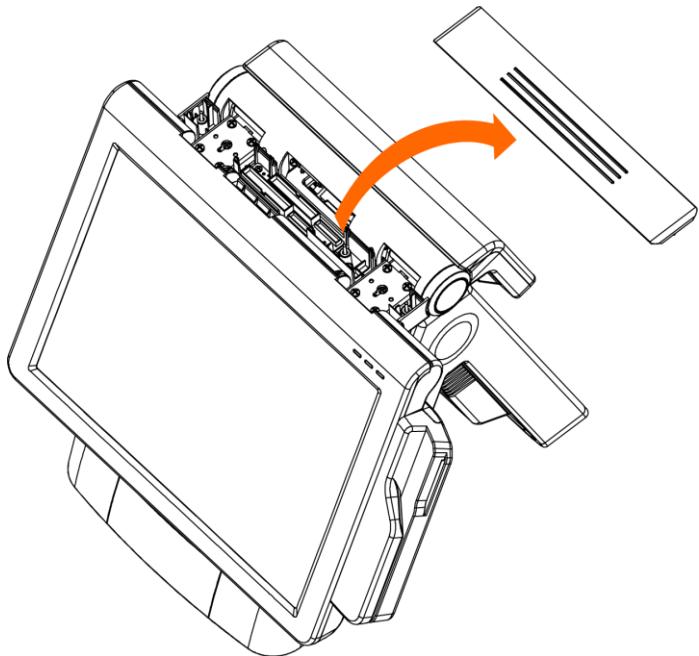


Remove motherboard before replacing monitor.

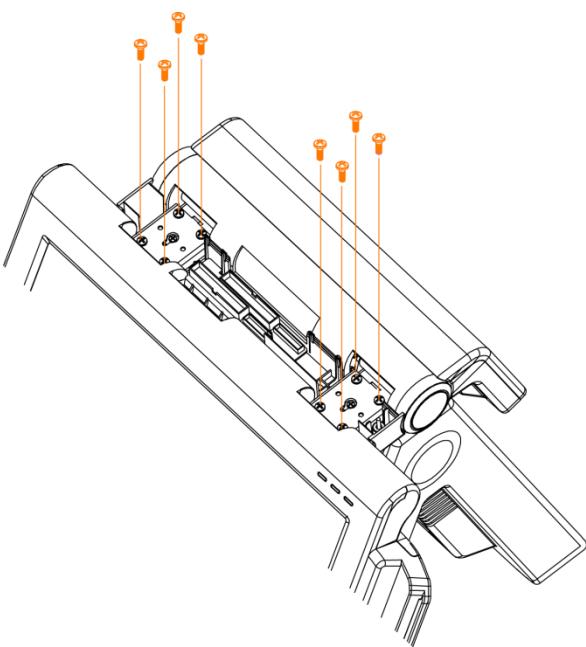
Step 1. Raise the main display unit as far up as possible.



Step 2. Remove the 3 screws from underneath (as shown figure)



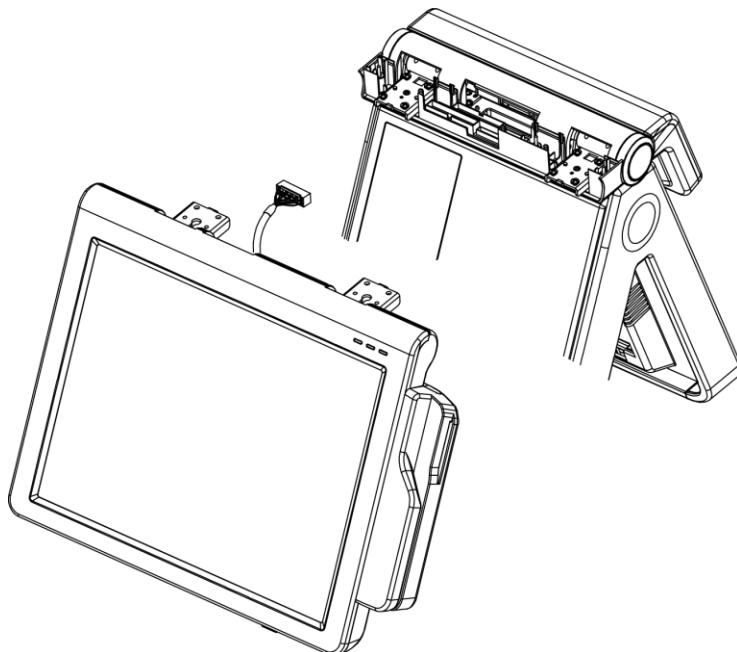
Step 3. Remove hinge cover.



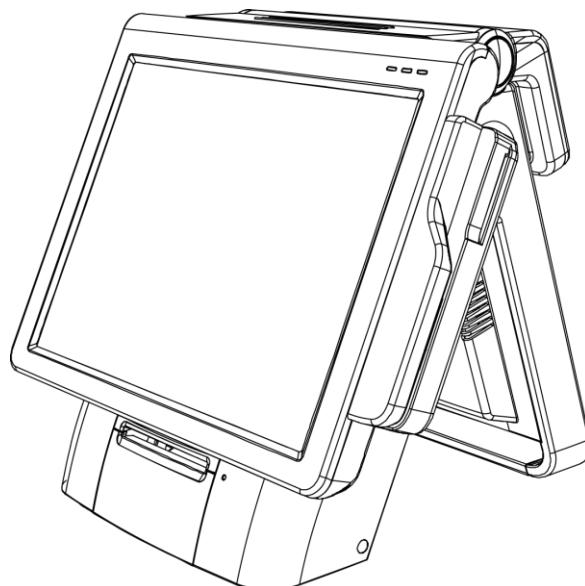
Step 4. Remove the 8 screws from beneath the cover (as shown figure).

Display Unit Replacement

84



Step 5. Disconnect cable connecting monitor to main unit.

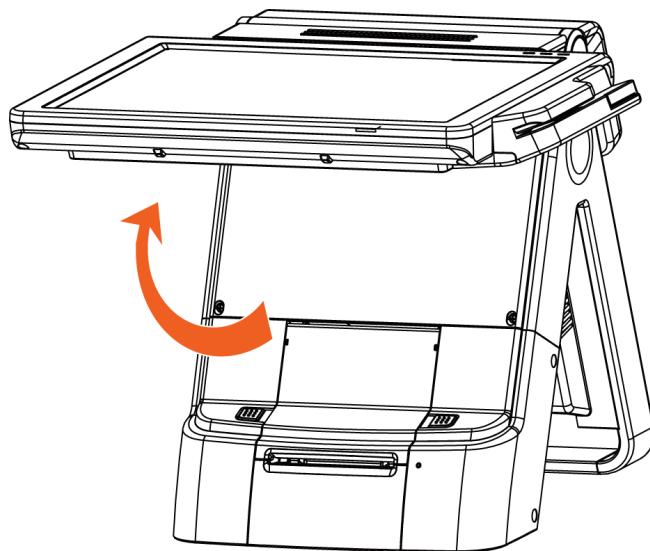


Step 6. Replace monitor and reassemble unit using the reverse procedure of steps 1-5 above.

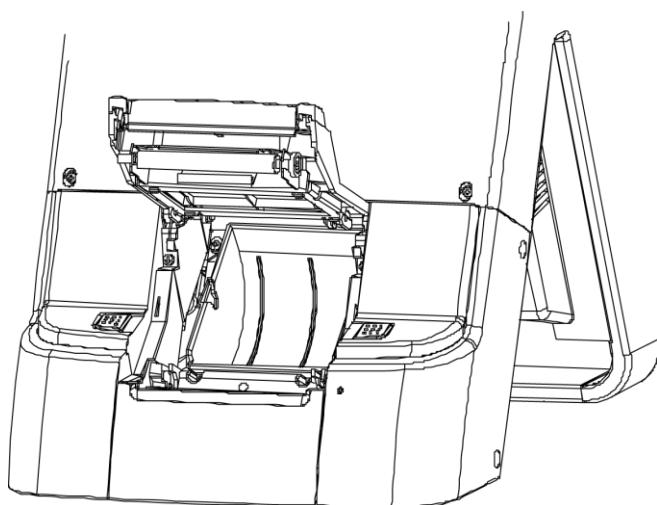
(7) Integrated Printer: Printer Roller & Bracket Replacement

Printer Roller & Bracket Replacement

85



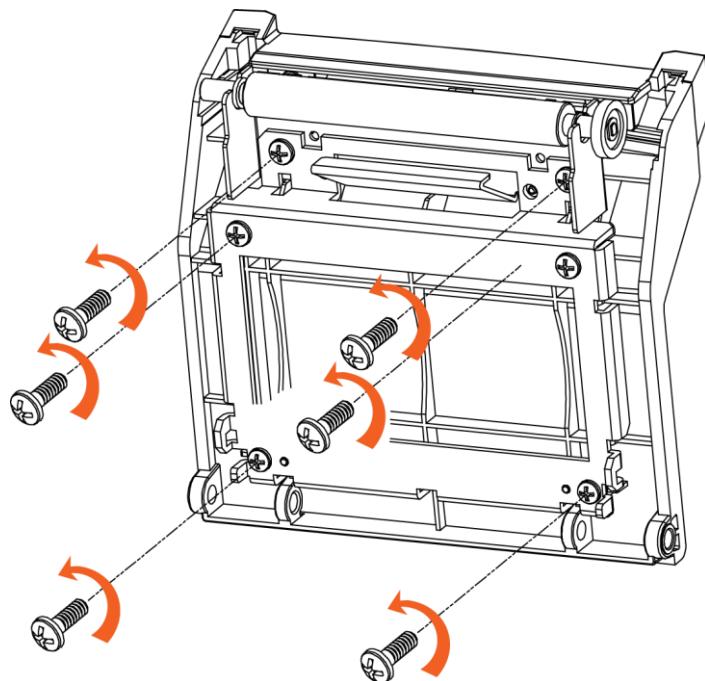
Step 1. Raise the main display unit.



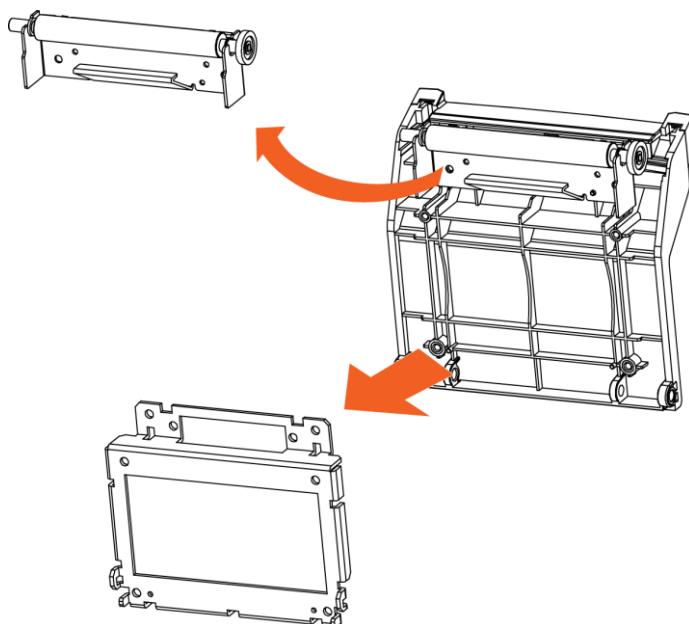
Step 2. Open printer cover.

Printer Roller & Bracket Replacement

86



Step 3. Remove the 6 screws (as shown figure) from the underside of the printer cover.



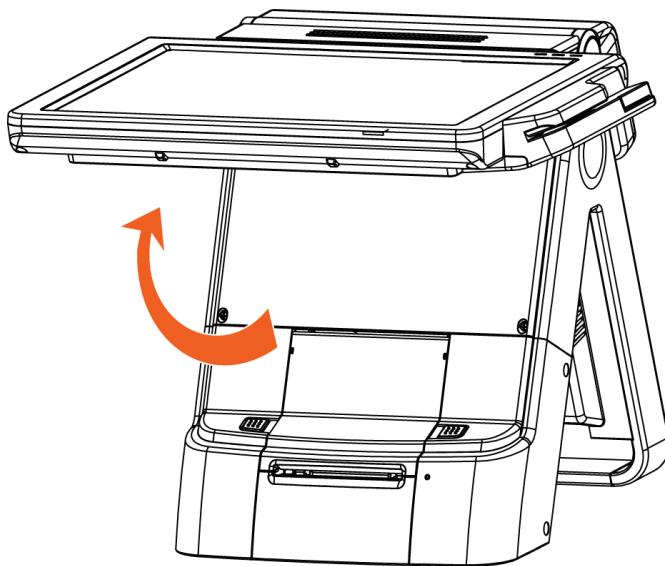
Roller and bracket are now removed.

Step 4. Replace roller and bracket and reassemble unit using the reverse procedure of steps 1-3 above.

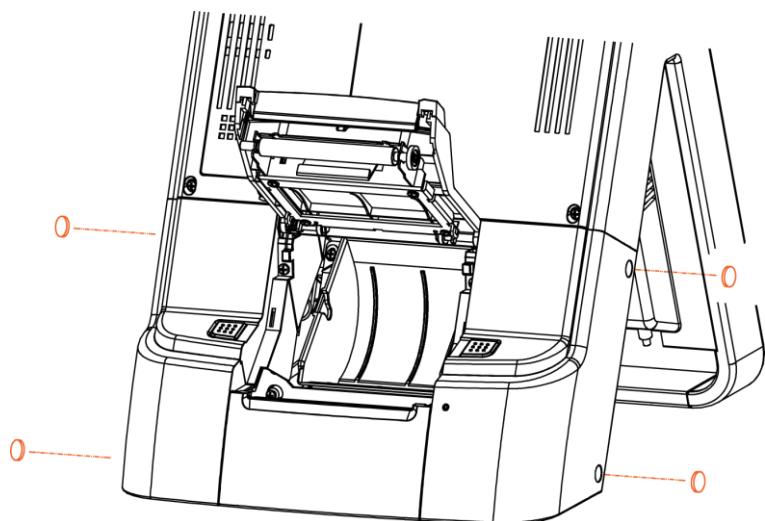
(8) Integrated Printer: Printer Mechanism & Circuit Board Replacement

Printer Mechanism & Circuit Board Replacement

87



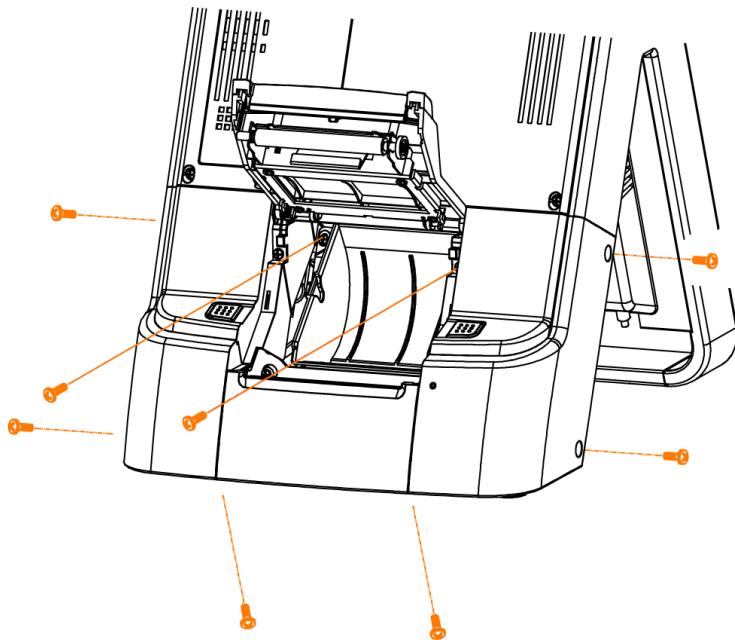
Step 1. Raise the main display unit.



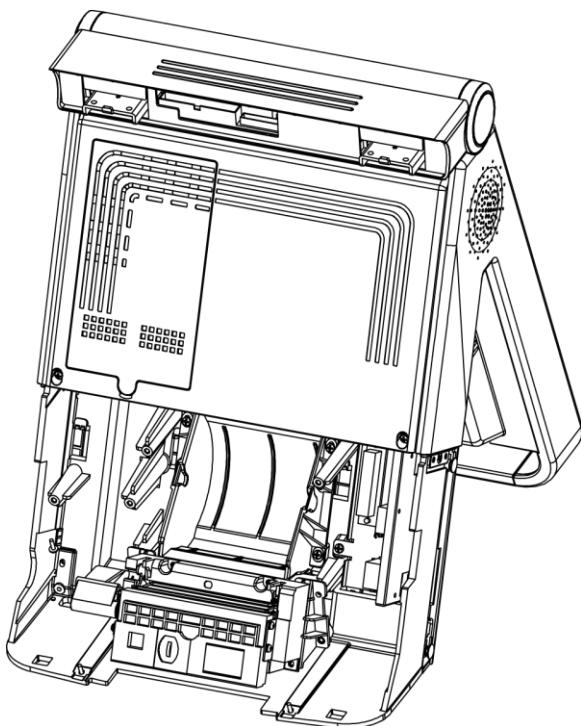
Step 2. Lift up the printer cover then remove the 4 screws from either side of the main unit.

Printer Mechanism & Circuit Board Replacement

88



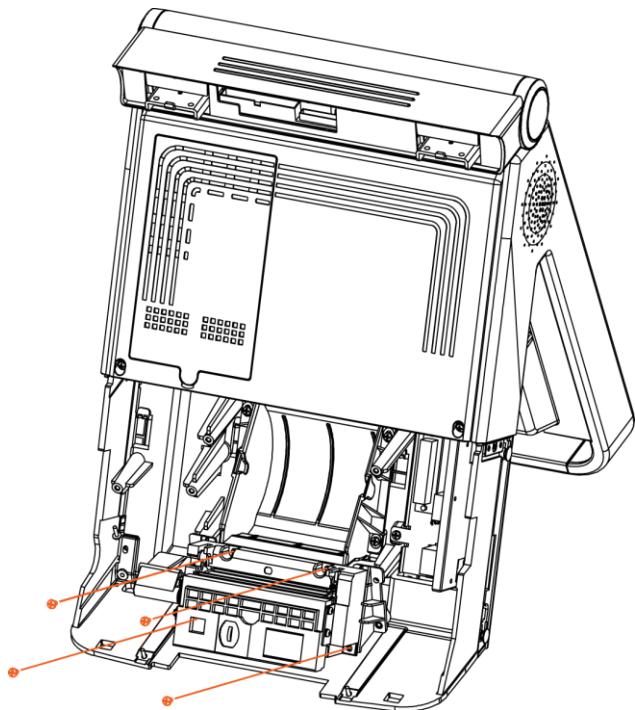
Step 3. Remove all 8 screws from the areas shown figure.



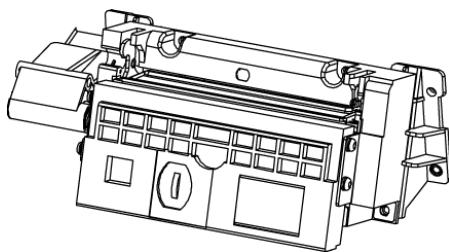
Step 4. Printer mechanism cover is now removed.

Printer Mechanism & Circuit Board Replacement

89



Step 5. Remove all 4 screws from the areas shown figure.



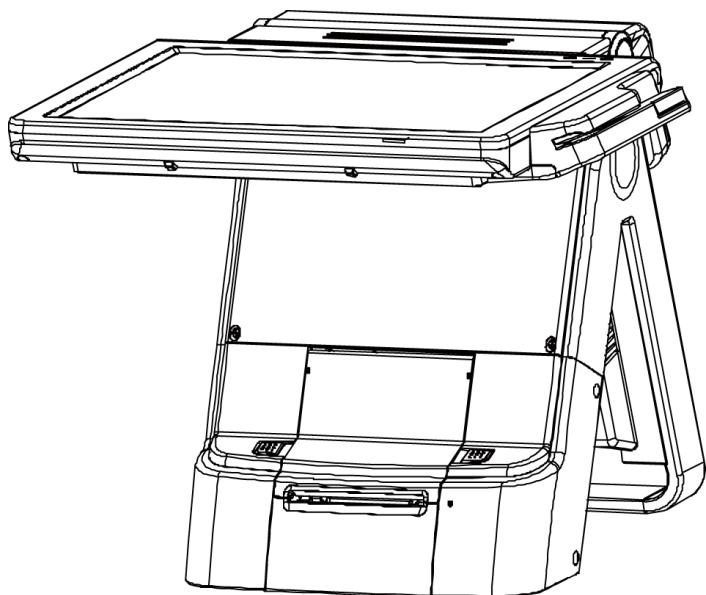
Printer mechanism is now removed.

Step 6. Replace printer mechanism and reassemble unit using the reverse procedure of steps 1-5 above.

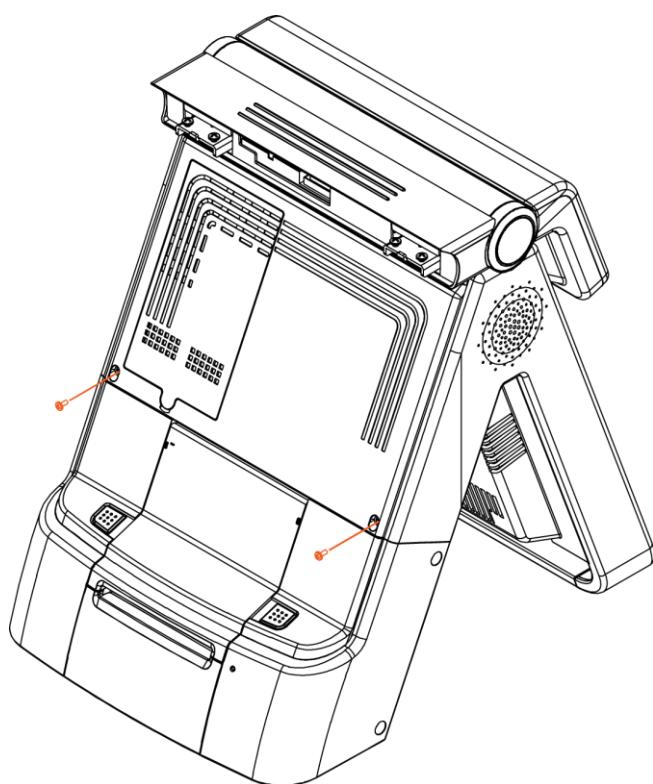
(9) Integrated Printer: Printer PCB Replacement

Printer PCB Replacement

90



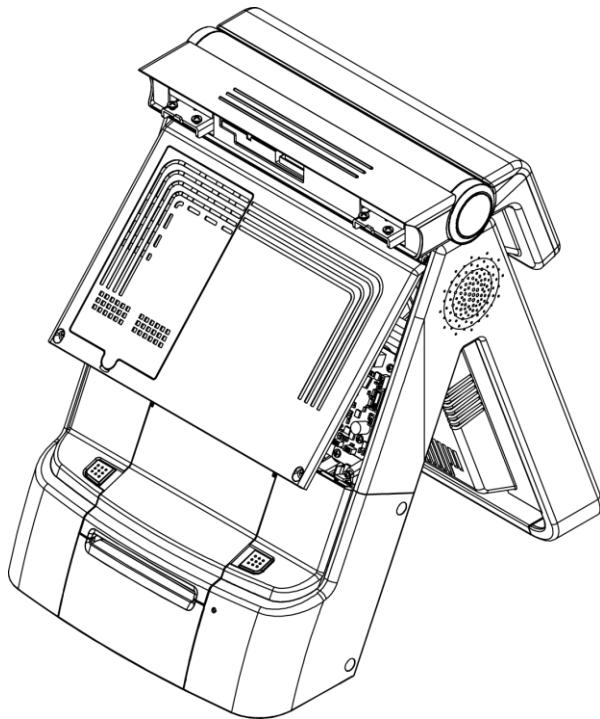
Step 1. Raise the main display unit.



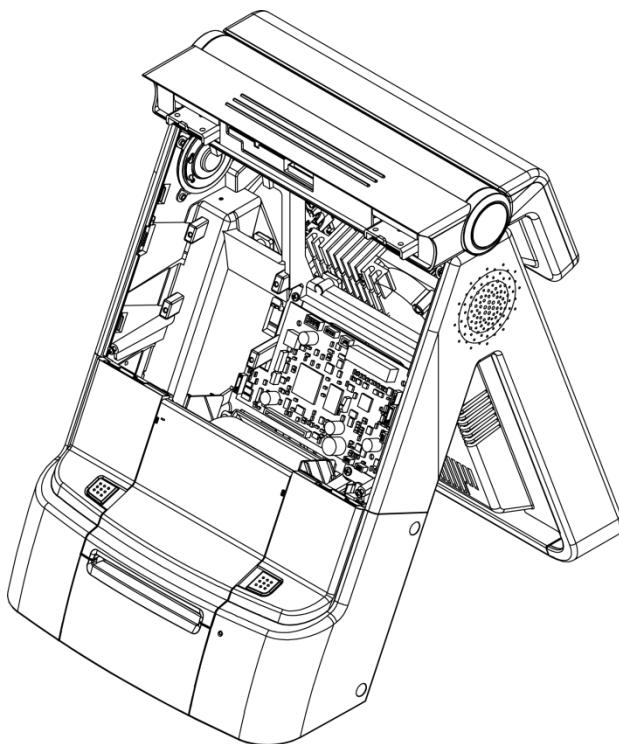
Step 2. Remove two screws.

Printer PCB Replacement

91



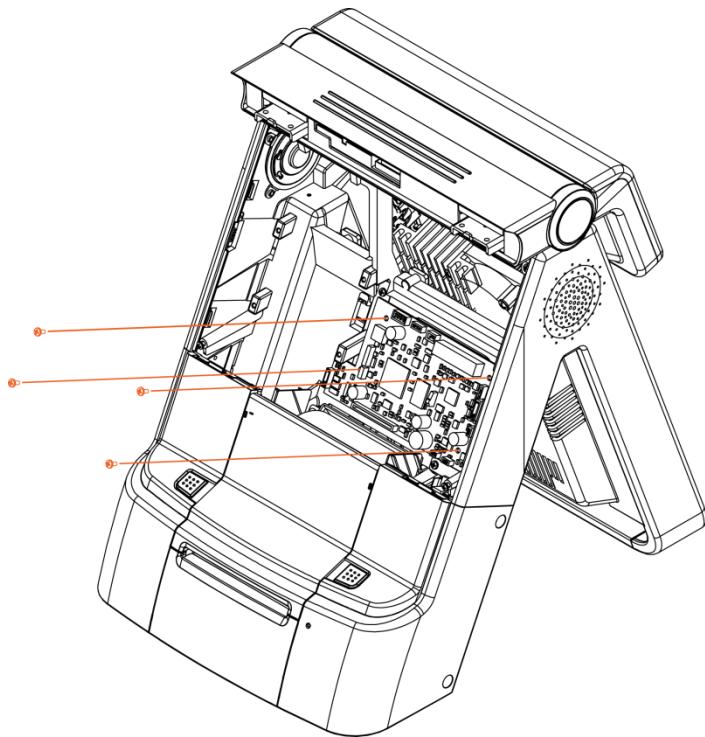
Step 3. Separate the front cover from bottom to top.



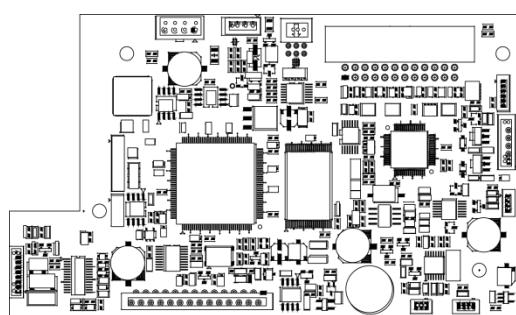
Step 4. After separating, check the printer PCB.

Printer PCB Replacement

92



Step 5. Remove four screws and the cable.



Printer PCB is now removed.

Step 6. Replace printer PCB and reassemble unit using the reverse procedure of steps 1-5 above.

Specification

CPU	Intel Atom processor D525 (1M Cache, 1.8 GHz, Dual Core for Pineview D)
Chipset	Intel ICH8M
Storage	SATA HDD 2.5inch (Default 320GB) (Max 2. Optional), SSD is available by option
Memory	DDR3-800MHz SODIMM 2GB (MAX. 4GB)
VGA	Integrated Intel Gen3.5+GFX Render Core 400MHz (Pineview-D)
Thermal printer	3" thermal printer (220mm/sec max, Auto cutter)
Display	resolution 15" TFT-LCD 300 cd/m ² (1024 x 768 resolution)
	Touch screen 5-wired Resistive Touch
	Viewing Angle Upper 60°
Internal I/O	USB 3 Ports (reserved for Touch controller, SCR EMV card, MSR controller)
	RS-232 COM 4 reserved for CDP
	COM 5 & 6 with 9pin header
	VGA 1 port (reserved for 2nd display)
	LVDS 24bit LVDS
	Extension Mini PCIe
External I/O	Parallel Internal 1port (Included in J2 Connector)
	USB Rear 2, Side 0~2 ; depends on
	PS/2 Mouse 1 / Keyboard 1
	RS-232 COM 1 ~ 3 with +5/12V power output on 9pin
	LAN Realtek RTL 8111E Ethernet Controller
	Audio ALC 892 GR Rear panel out(jack): Line-out, Mic-in, Line-in
Options	VGA Reserved for 2nd display (Shared with internal 15pin header)
	MSR Comply with ISO 7811, Support 1 & 2 & 3 track
	SCR EMV level 1
	Speaker Internal 50mm speaker (Amplified, mono)
	Camera Camera
	Dallas Dallas i-button reader
	2nd LCD 10.1" LCD or 12.1" LCD or 15" LCD (1024 x 768 resolution)
	2nd Storage 2nd HDD storage
	Customer Display VFD type (20 x 2)
Operating Temperature	0 °C ~ 40 °C at 10% ~ 80% humidity
	Storage Temperature -20 °C ~ 60 °C at 10% ~ 80% humidity
Qualification	CE, FCC, KC
Power	Adaptor 24V, 6A or 12V, 5A (none printer type)
OS Support	Windows XP/XPE/7, WEPOS, POS Ready 2009/7
Dimension (W x H x D)	405 x 351 x 345(mm)

* MSR is not supported the PS/2 interface.
* Product specifications may differ according to location and may be changed without prior notice.