SAM4S Rev.1.00.1204.K

e–Manual
SPT – 7000series

Leading the way with Reliability, Features and Value

SPT-7000

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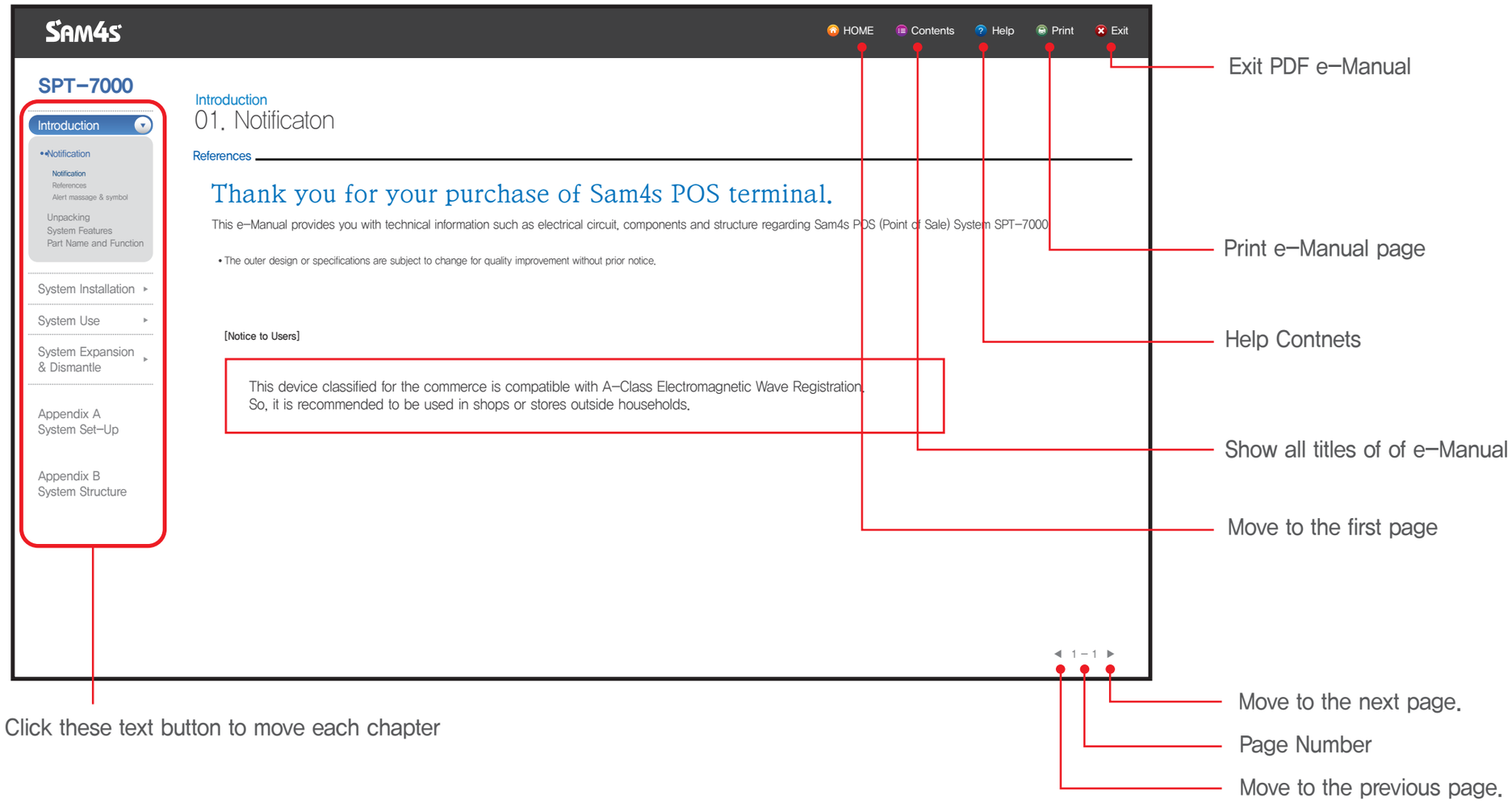

E-Manual
SPT-7000series

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

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01. Notificaton

References

Thank you for your purchase of Sam4s POS terminal.

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

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

[Notice to Users]

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

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01. Notificaton

References

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

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01. Notificaton

Alert massage & symbol

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

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

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

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

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

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System Introduction

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

System Features

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

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System Specifications

General Specifications

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

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System Specifications

▪ General Specifications

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

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▪ Specifications for Optional Devices

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

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Rear View

All-in-one Customer Display Cover
Remove this cover and you can install customer display (CDP 7" Dual LCD / 15" Dual LCD).

Rear Cover
For protecting Motherboard
(When the motherboard is taken out, remove this cover.)

Interface Cover
Cover for protecting I/O connector and AC Power Plug
(In case of connecting peripherals, dismantle the cover.)

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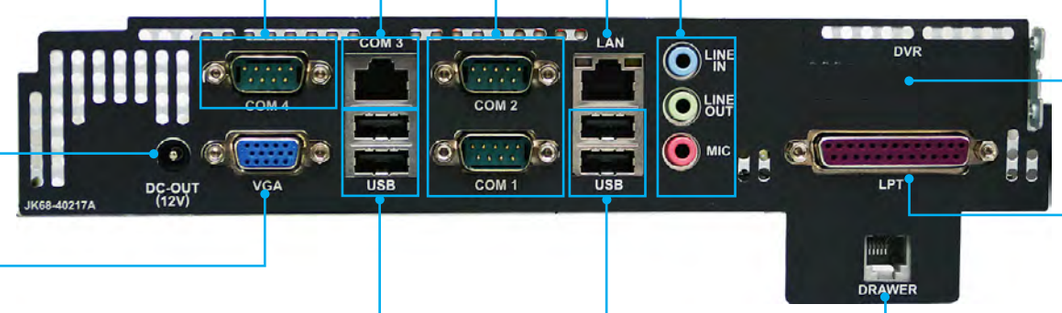
Rear View



DSUB 9 pin / RJ45 Serial Port
For connecting serial interface such as barcode scanner, printer, etc.

DC Power-Out Port (12V)
For connecting DC power cable to the system

Dual Monitor Port
For connecting external monitor

USB Port
For connecting USB interfaces such as USB signature device, keyboard, mouse, etc.

RJ45 LAN Port
For connecting RJ45 cable to use 10/100/1,000 Mbps Ethernet

Line In / Line Out / MIC Port
For connecting external speaker

DVR Card Port (Option)
For connecting DVR card integrating camera (Max. 4 channels)

Parallel Port
For connecting parallel interface such as printer

RJ11 Cash Drawer Port
For connecting cash drawer

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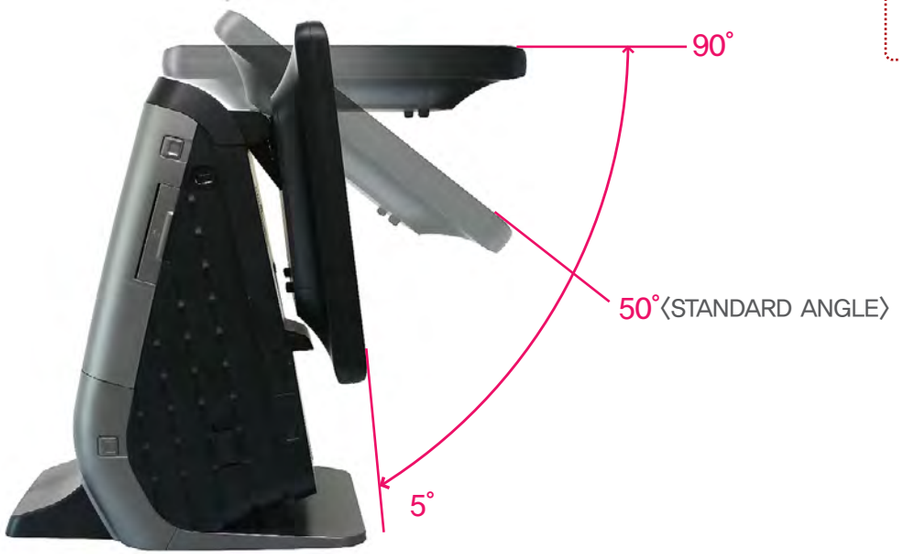
01. Make sure of installation area

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

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

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



Caution! | ▶ Risk of explosion if battery is replaced by an incorrect type. Use the same one with the battery in the mainboard.

▶ Dispose of used batteries according to the instructions.

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First remove Interface Cover at the rear of the system.

Connecting Peripherals

- Remove Interface Cover

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

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

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Connecting Serial Port Devices such as Barcode Scanner

Connect barcode scanner, serial interface devices, etc. to the serial port. Each serial device has different power specification.

After checking power spec., refer to the below table.

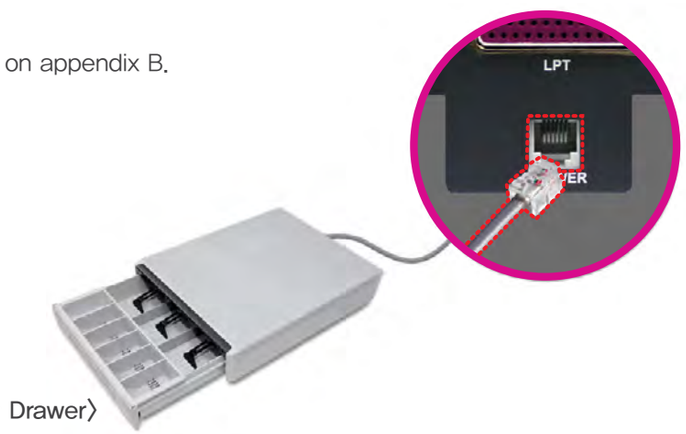
Port	5V	12V	RI
COM1	Yes	Yes	Yes
COM2	Yes	Yes	Yes
COM3	Yes	Yes	Yes
COM4	Yes	Yes	Yes

〈Barcode Scanner〉

Connecting RJ-11 Cash Drawer

Use RJ-11 port when cash drawer is used.

Please set up the power after checking power spec. of cash drawer and then referring to the system composition on appendix B.



〈Cash Drawer〉

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

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Connecting RJ-45 LAN Cable

RJ-45 LAN or Internet-enabled cable can be connected.

It supports 10/100/1000Mbps.

Connecting USB Device

USB connector is located at the side of and the back of the system so USB Devices can be connected at the both locations.

USB hub can be used to connect various USB devices.

USB devices are like keyboard, mouse, CCD camera, printer and signature pad.

(According to the type of USB devices, the drivers may be required.)

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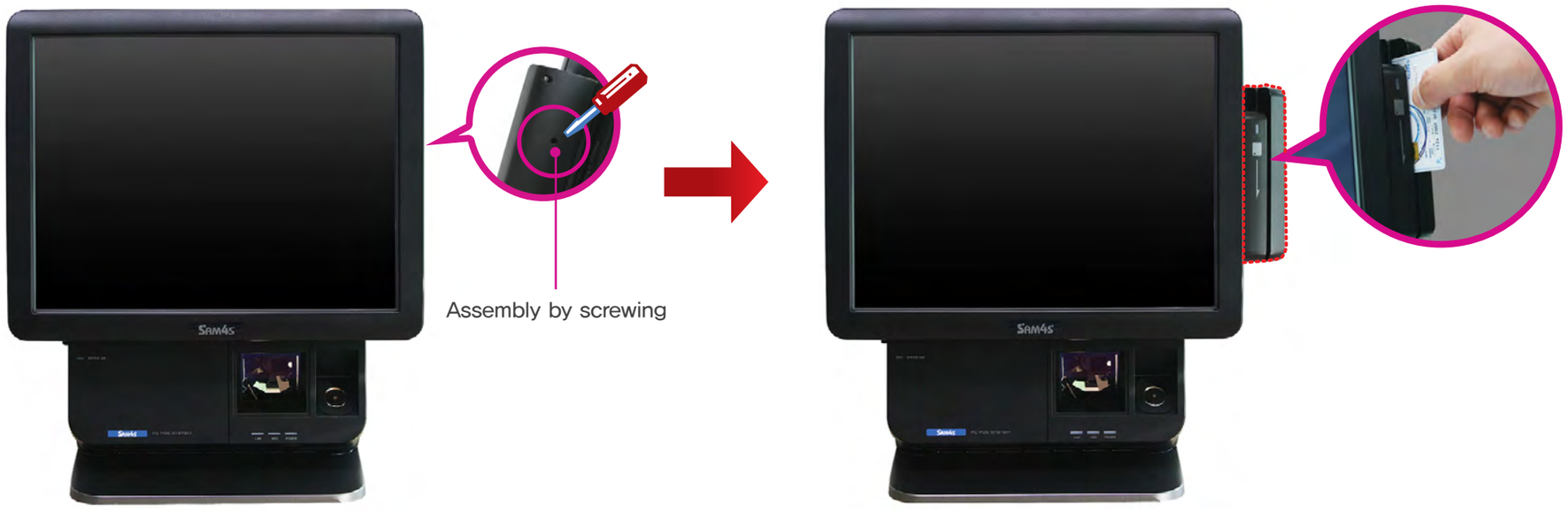
Connecting PS Module (Option)

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

The module is easily connected as USB connector type.



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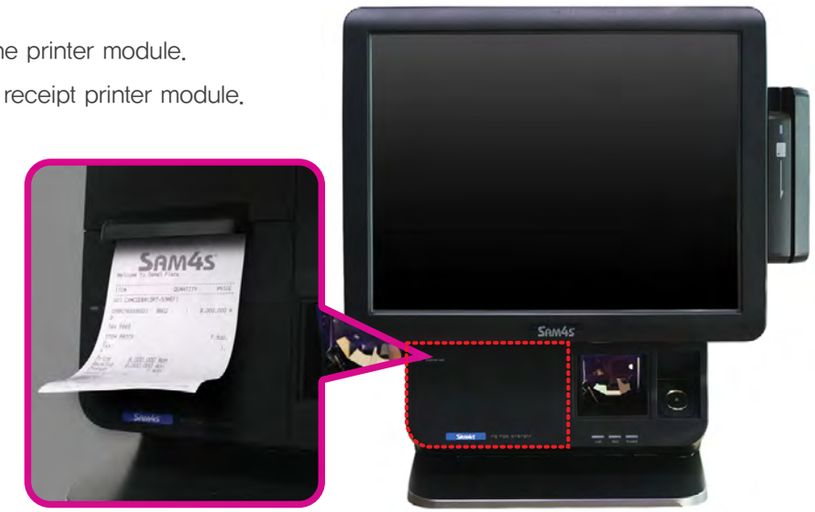
Connecting Security/Scanner Module (Option)

In case using Fingerprint / Dallas / Scanner / Smart Card Reader (SCR), after removing the cover which is located at the right bottom and then connect the module.
Please refer to system assembly / disassembly of the System Expansion on how to assemble or disassemble Security / Scanner Module.

Connecting Receipt Printer (Option)

In case using Receipt Printer, after removing the cover which is located at the left bottom and then connect the printer module.
Please refer to system assembly / disassembly of the System Expansion on how to assemble or disassemble receipt printer module.

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



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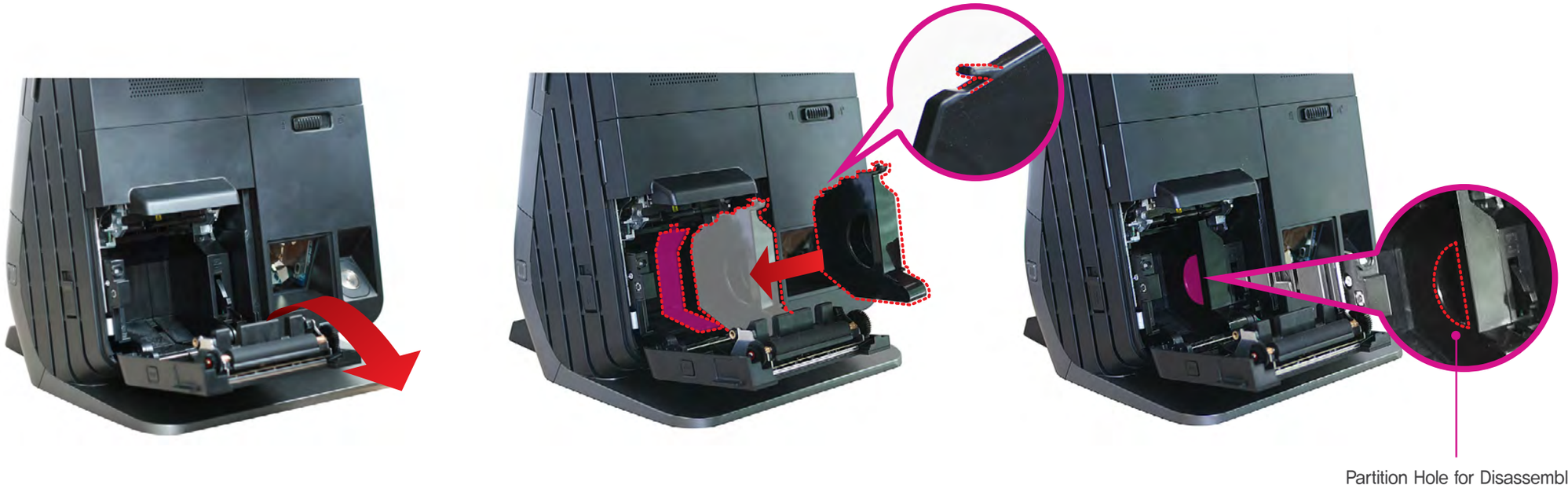
▪ Install & Test – Install Partition

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

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



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Receipt Printer

▪ Install & Test – Install and Replace Paper Roll

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

1. Pull and open the printer cover as shown.

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

2. Remove the used paper roll inside if there is.
3. Insert the paper roll as shown.
4. Pull out a small amount paper as shown and close the cover.
5. Tear off the paper as shown.

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

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Receipt Printer

▪ Install & Test – Self-Test

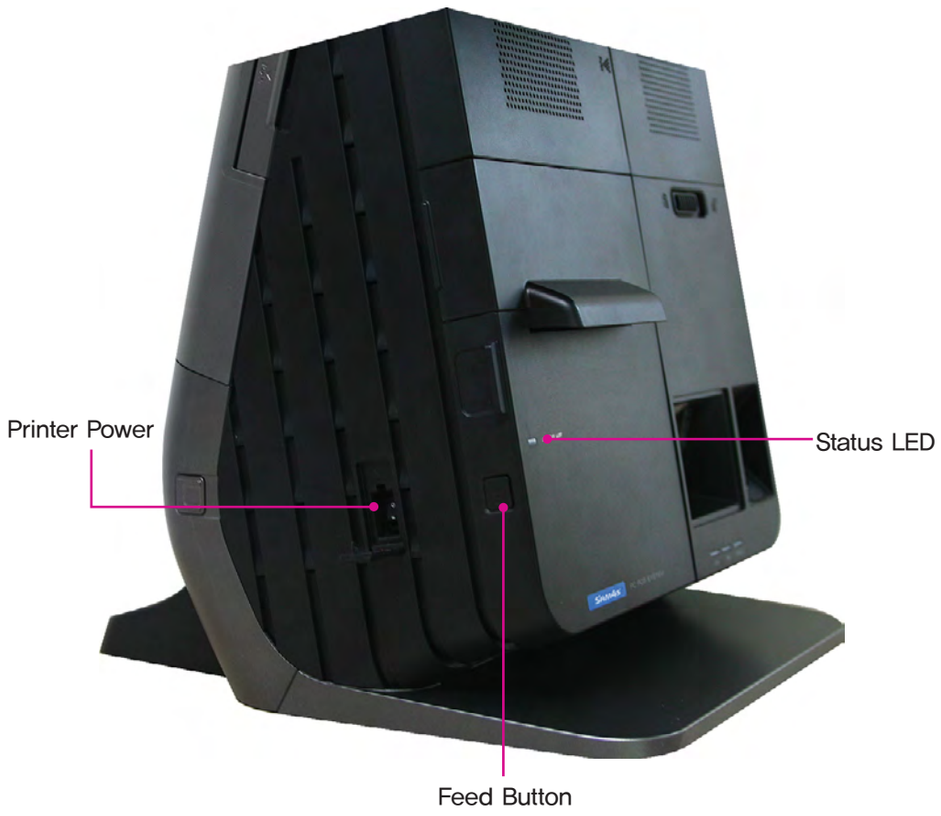
Self-Test Mode
Self-Test can check products for defects or disorder.
The procedure for Self-Test is as follows.

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

SELF TEST PRINTING.
PLEASE PRESS PAPER FEED BUTTON

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

** End Self-Test **



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Receipt Printer

▪ Use Function – Paper Feed Button & LED

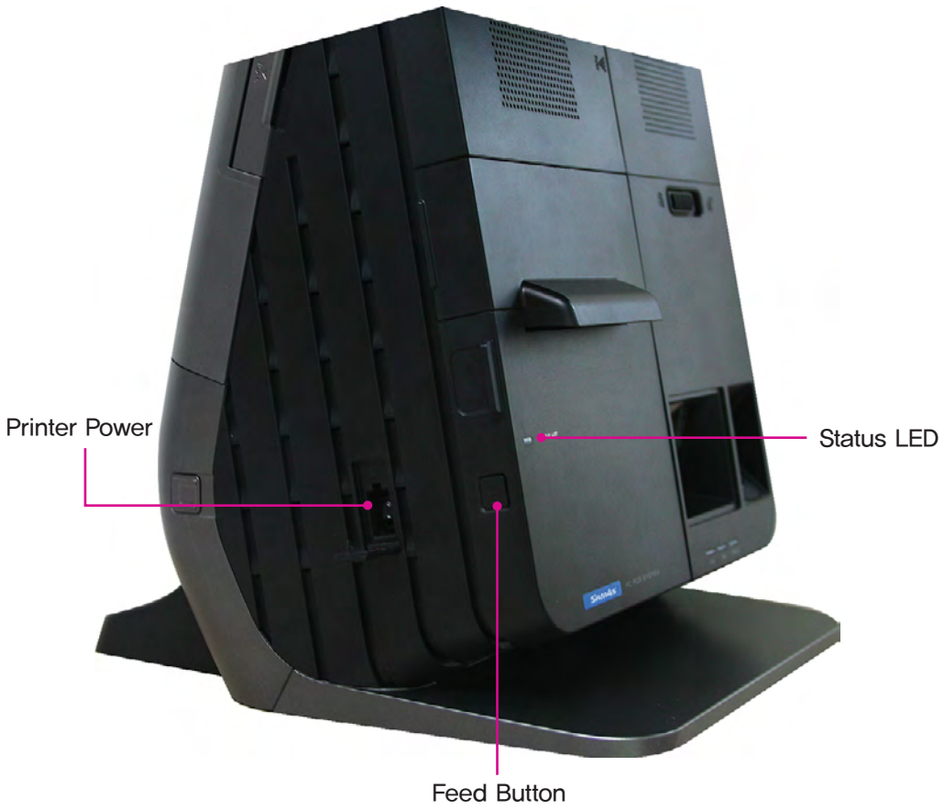
Paper Feed Button
This button can be disabled by the ESC c 5 command.
Press the Feed button once to advance paper one line.
You can also hold the FEED button to feed paper continuously.

LED

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

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

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



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Receipt Printer

▪ Maintenance

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

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

⚠ Caution!

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

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Receipt Printer

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

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

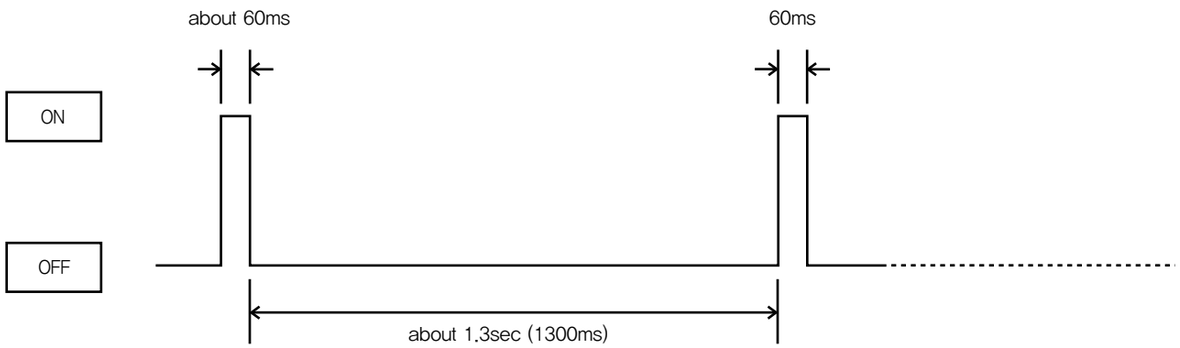
When the cover is not closed completely (Cover Open)

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

No Paper

The buzzer repeatedly sounds like "Beep --- Beep ---" and LED turns on Green / Red light alternately.

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



No paper – Buzzer Sound

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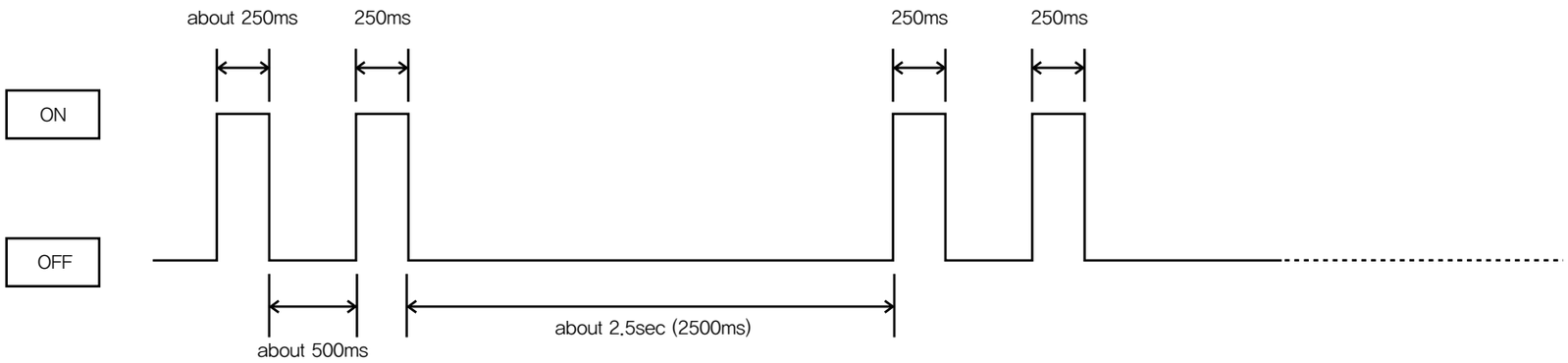
Receipt Printer

▪ Error Status & Error Resolution – Cutter Jam

Cutter Jam

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

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



Cutter Jam : LED & Buzzer Status

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Receipt Printer

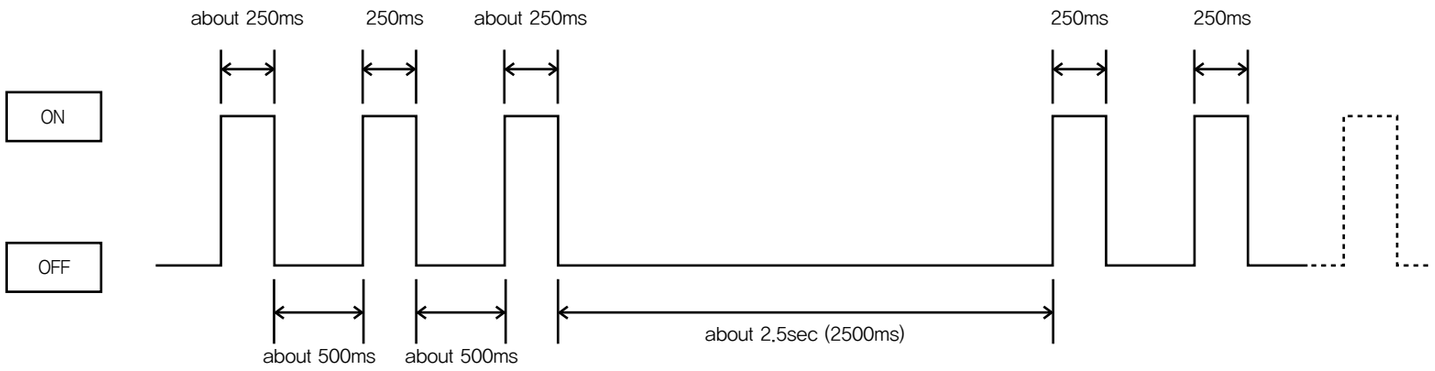
▪ Error Status & Error Resolution – Cutter Not Home

Cutter Not Home

This happens if the cutter blade steps forward while the printer is on (LED is light on).

In this case, the buzzer repeatedly sounds like "Beep Beep Beep ---, Beep Beep Beep ---" and LED turns on Green / Red light alternately.

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



Cutter Not Home : LED and Buzzer Status

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Receipt Printer

▪ Error Status & Error Resolution – Error Resolution

Cutter Jam / Cutter Not Home

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

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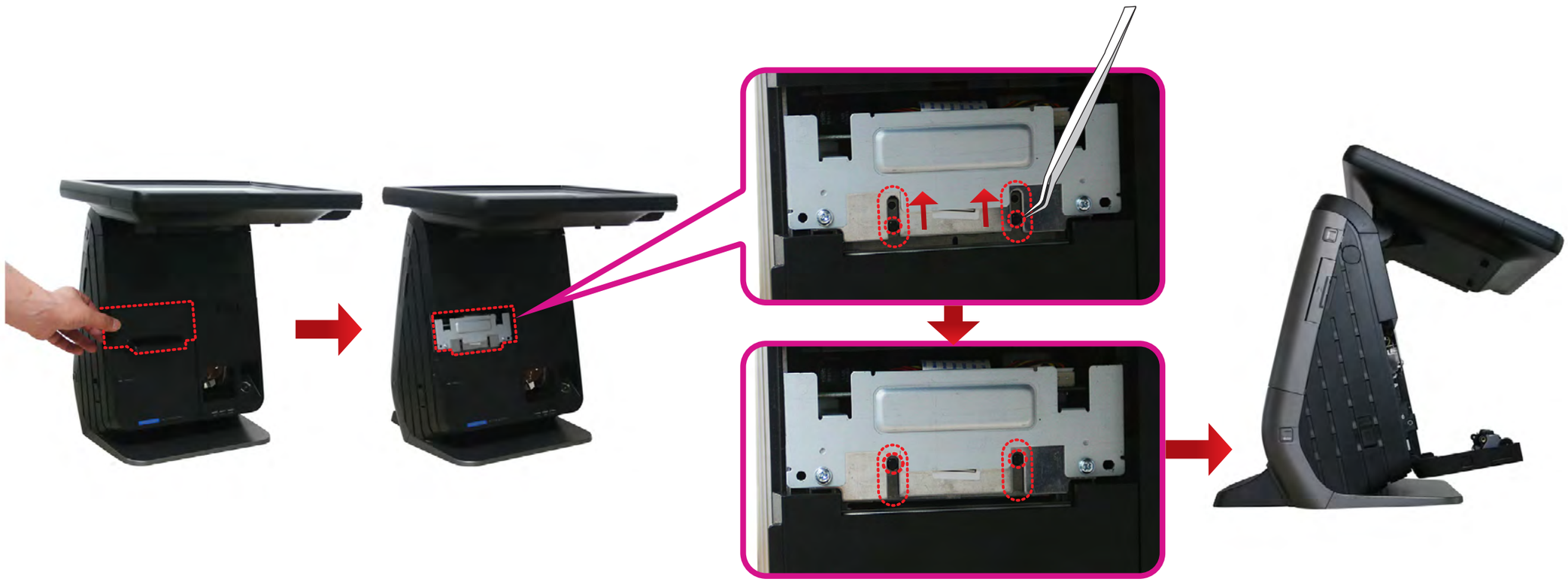
Receipt Printer

▪ Error Status & Error Resolution – Error Resolution

Note!

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



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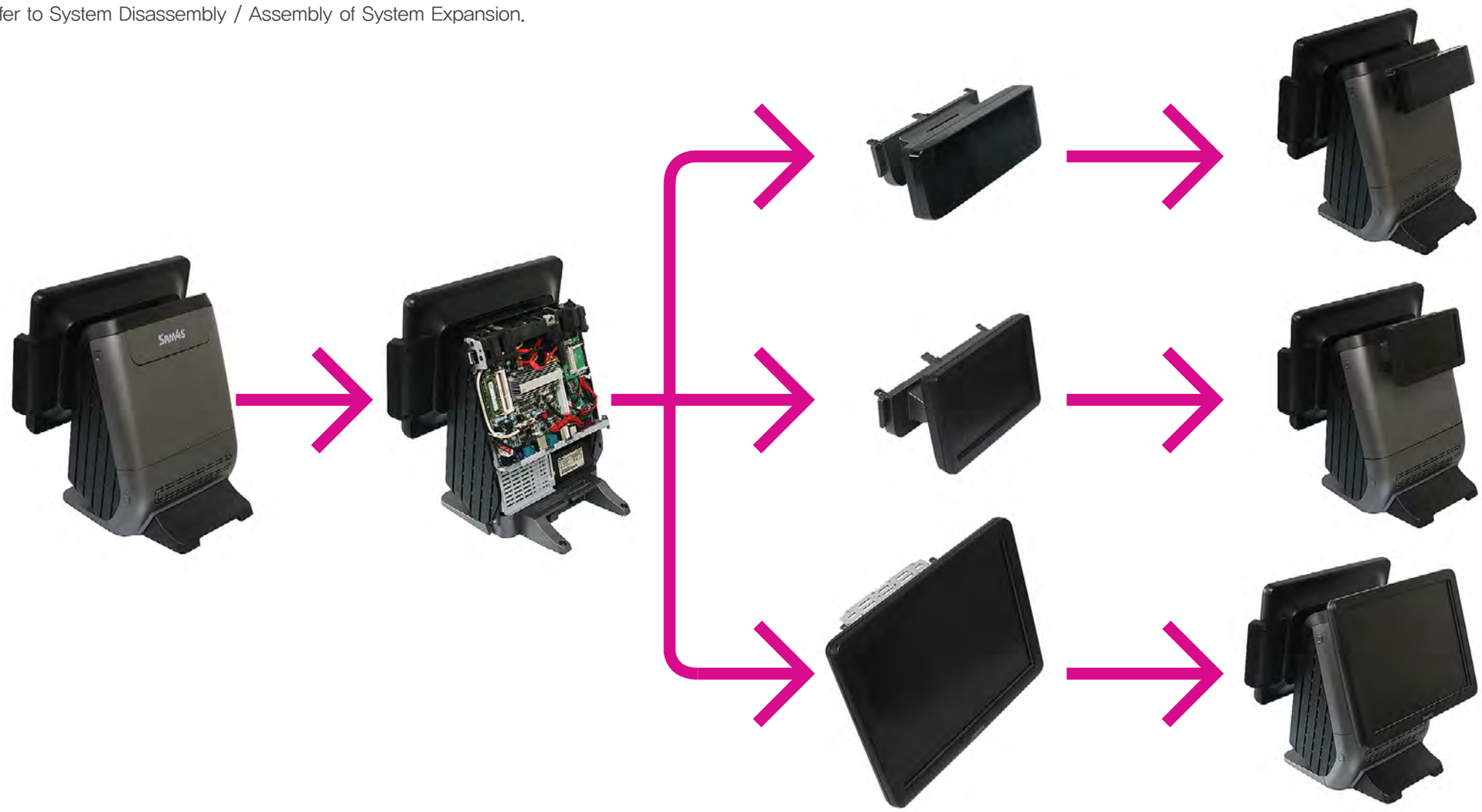
Dismantle the Cover for Customer Displays (Option)

After dismantling the cover, connect CDP / 7" Dual LCD / 15" Dual LCD into the system.
Refer to System Disassembly / Assembly of System Expansion.



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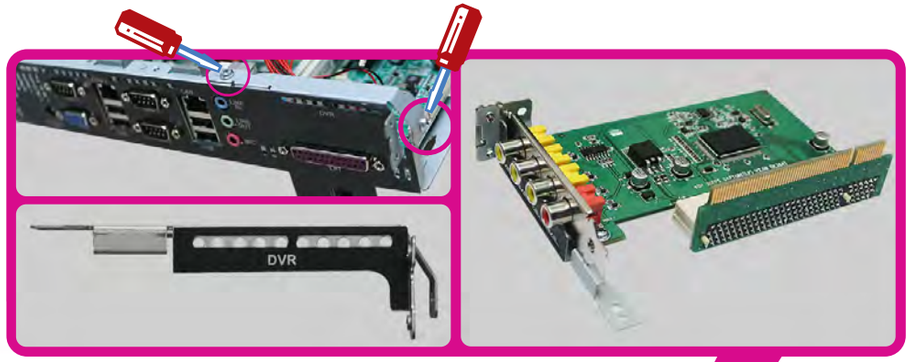
Connect DVR Card

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



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Connecting AC Power Cord to the Set Plug

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

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

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Cable Management

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

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

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04. System On / Off

System On

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

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

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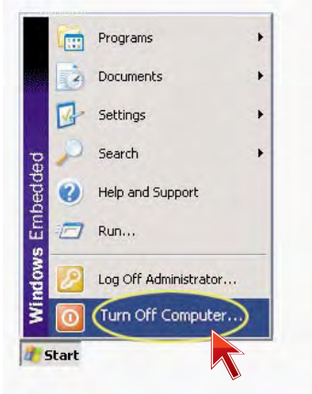
04. System On / Off

System Off

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



3. System will be shut down when 〈Turn Off〉 is clicked.

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01. Keyboard

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

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

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

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

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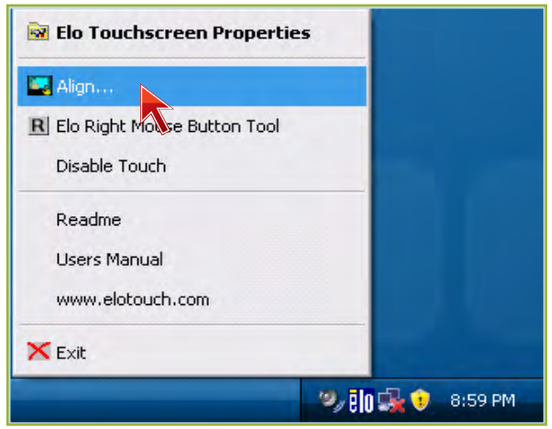
02. Touch Screen Use

Recalibrate if it is not accurate on touch points.

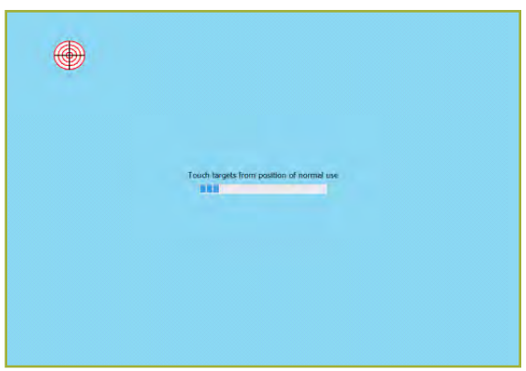
- To recalibrate the touch screen, please follow the procedure blow.

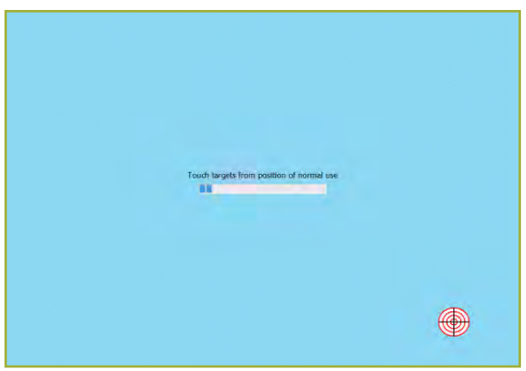
1. Click the right button of mouse on 'elo' icon of Windows tray icons. And select 'Align…' tab on the menu.

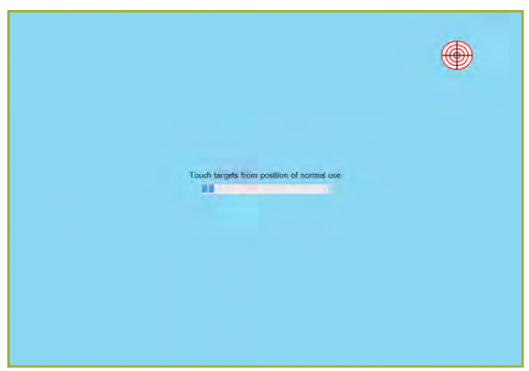


2. If the following screen appears, touch the center of red circle for 2 seconds and then unhand from the red point. Repeat the procedure if the red circle appears again.

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







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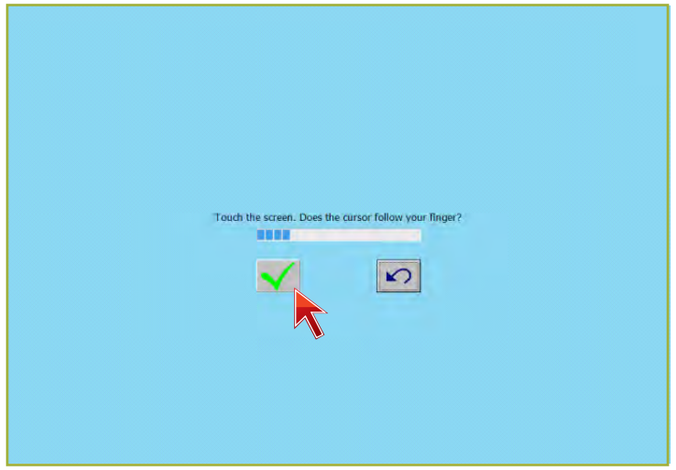
Recalibrate if it is not accurate on touch points.

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



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

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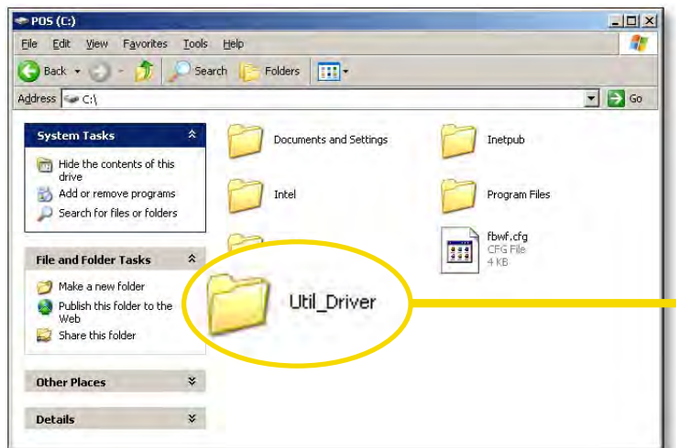
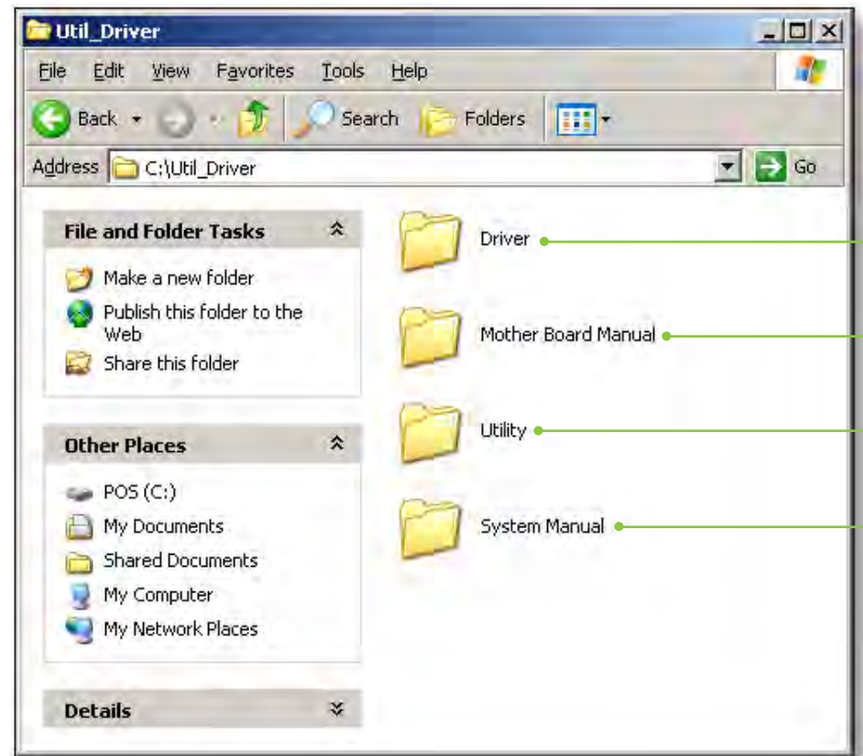
POS Driver and Utility

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





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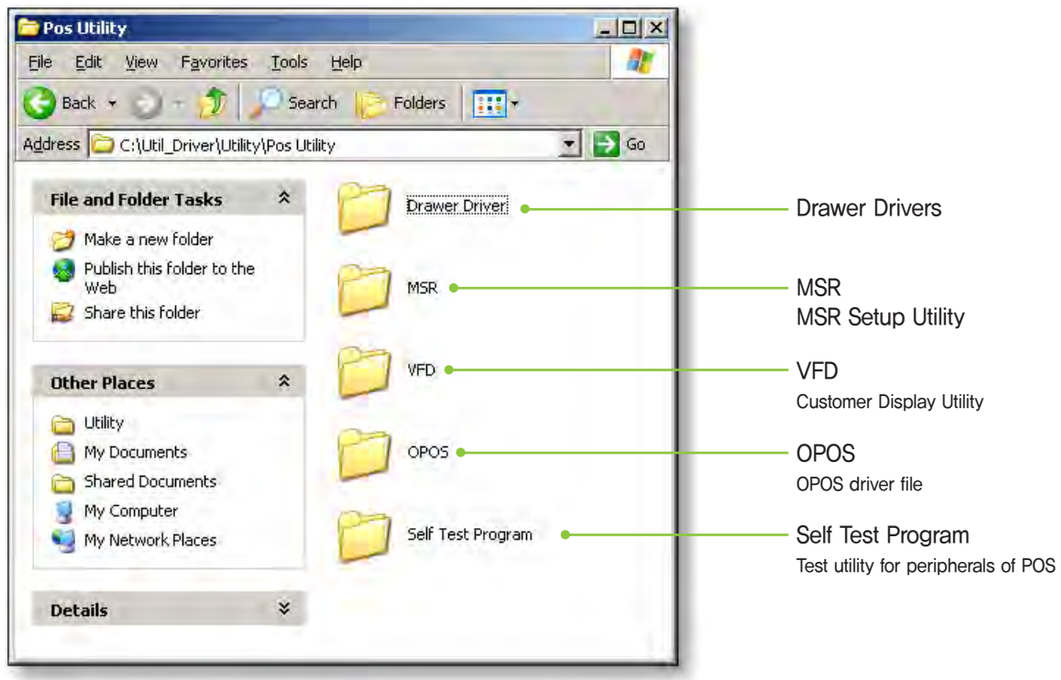

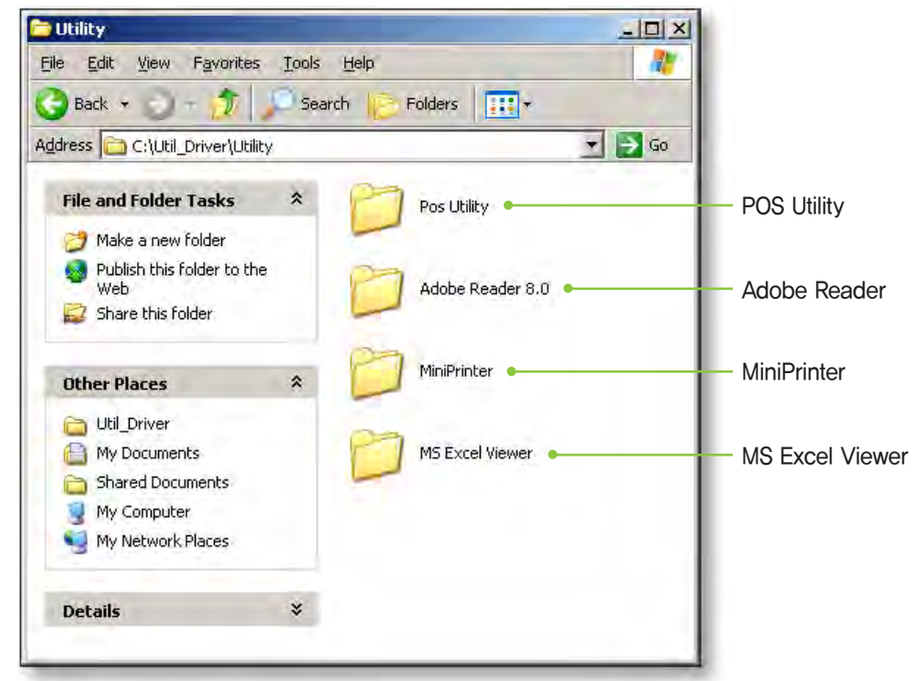

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03. About POS Driver & Utility

POS Driver and Utility

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

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

▪ Support Peripherals

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

▪ The location of installation file

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

▪ The way of Installation

① Execute 'SAM4SOPOSSelr_Vx.xx.exe' file in OPOS folder.
② All components will be automatically registered & set up according to the system configuration.

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04. Dual Monitor Use

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

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

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

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

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

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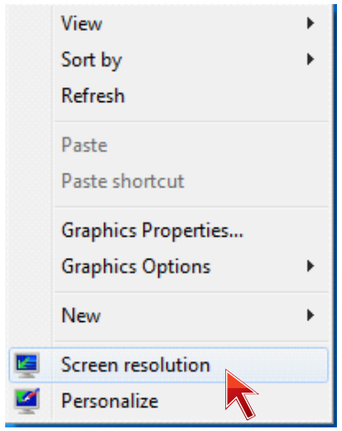
3. Click the right button of mouse on Windows desktop screen, and select 'Screen resolution' from a popup menu.



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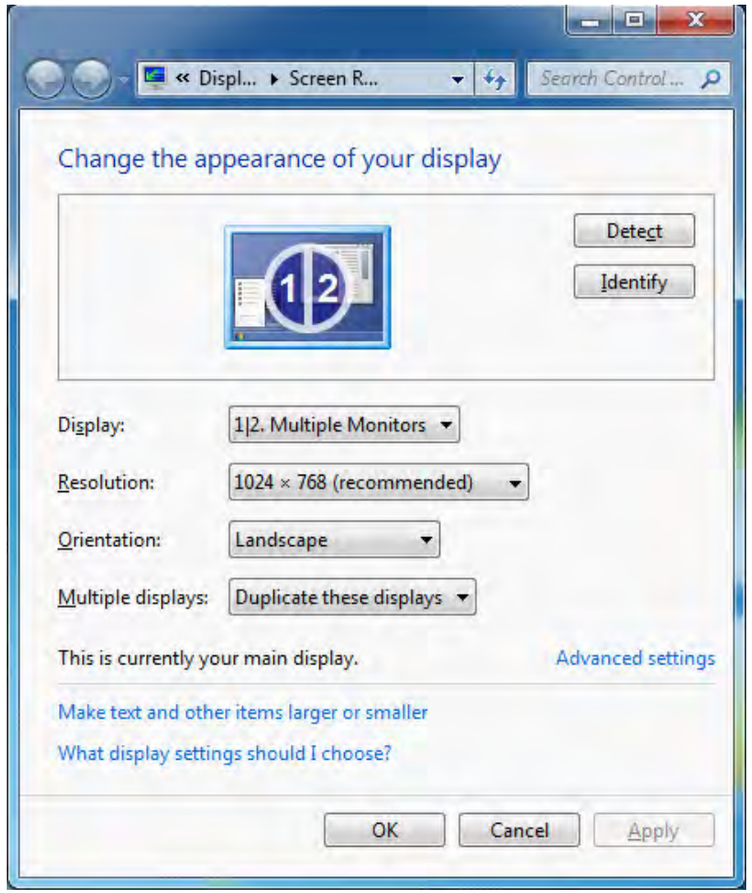
4. On 'Change the appearance of your display' dialog, the 'Display' option is set as '1|2 Multiple Monitors' and 'Multiple displays' option is set as 'Duplicate these displays'.
(In this case, the dual monitor shows a duplicated screen.)



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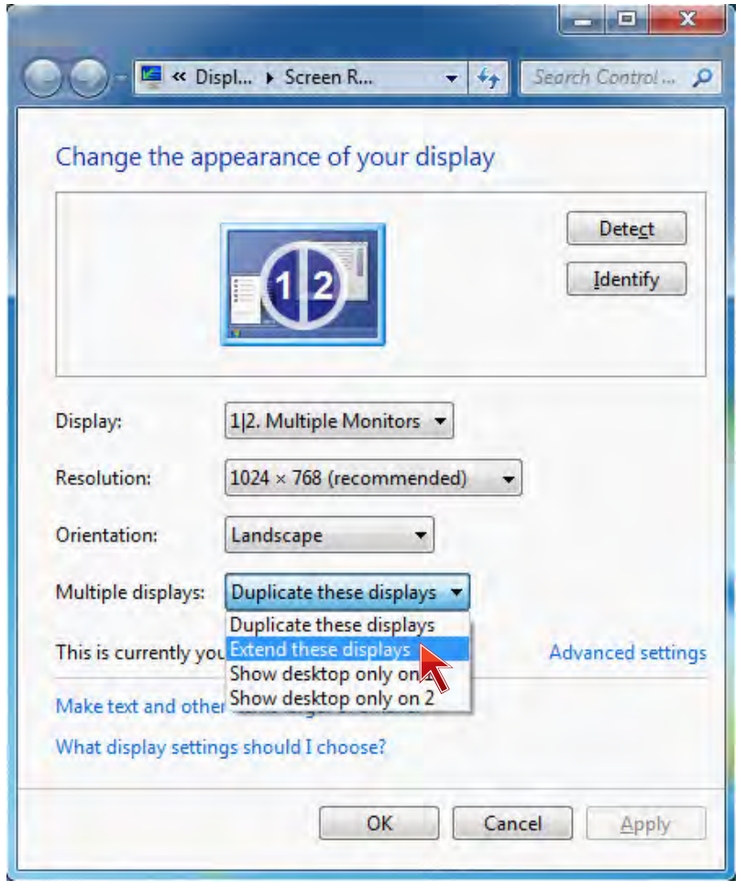
5. If you want to change to an extended screen, set 'Multiple displays' option as 'Extend these displays' on 'Change the appearance of your display' dialog.



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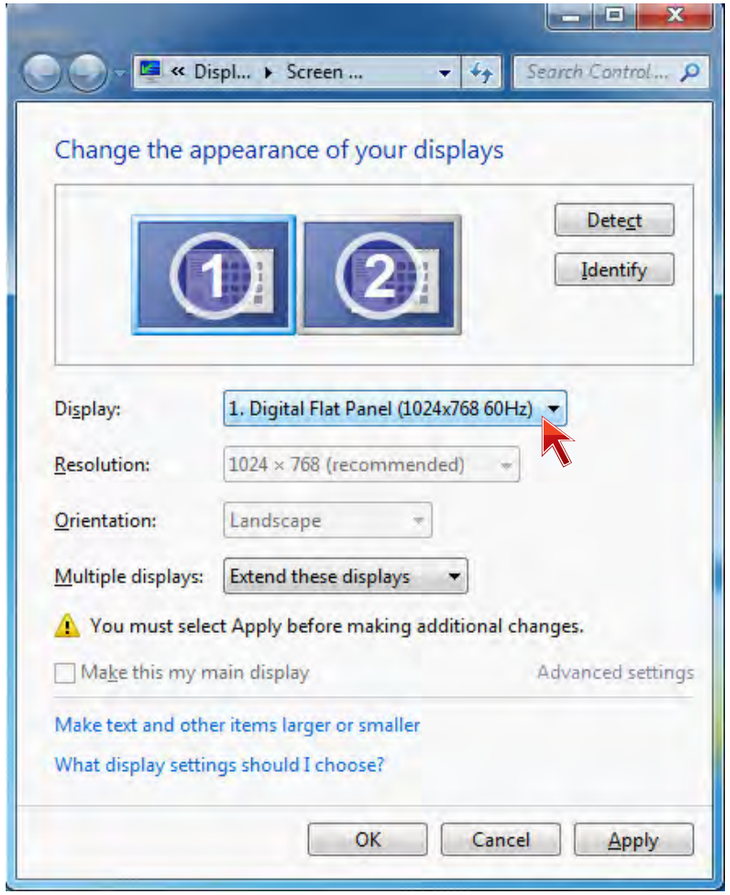
Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

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



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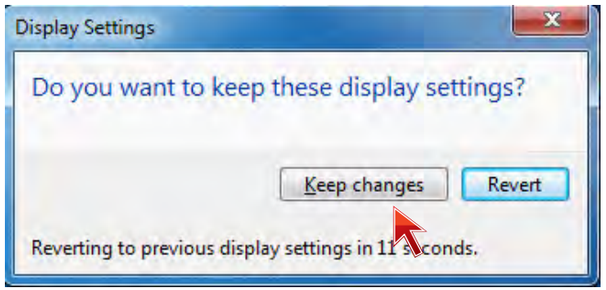
Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

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



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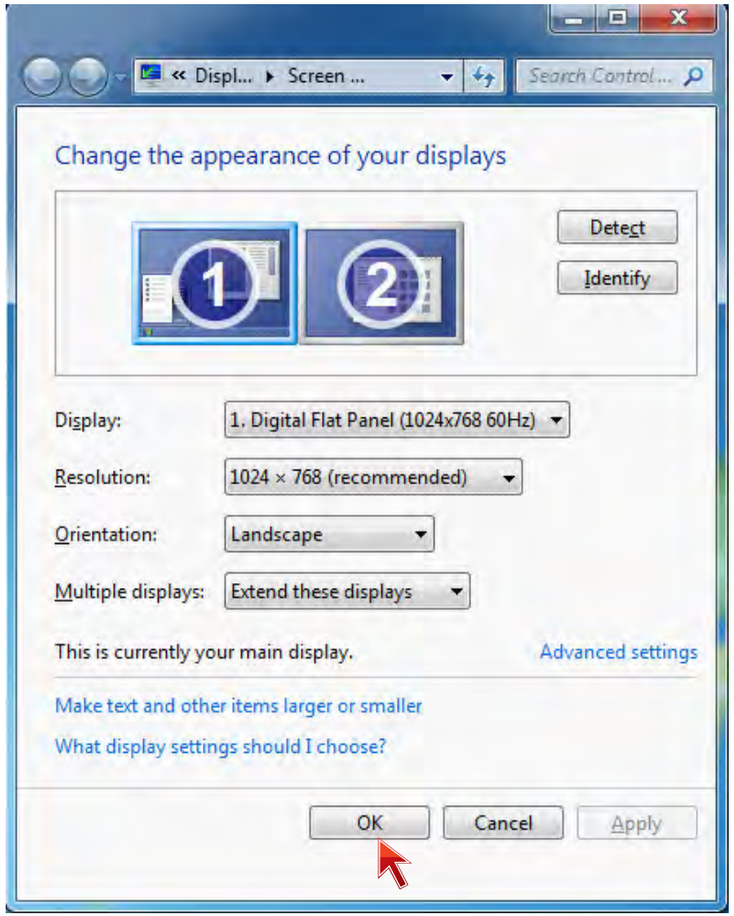
Additional monitor can be connected to the VGA connector. This contents is written based on Windows 7 OS.

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



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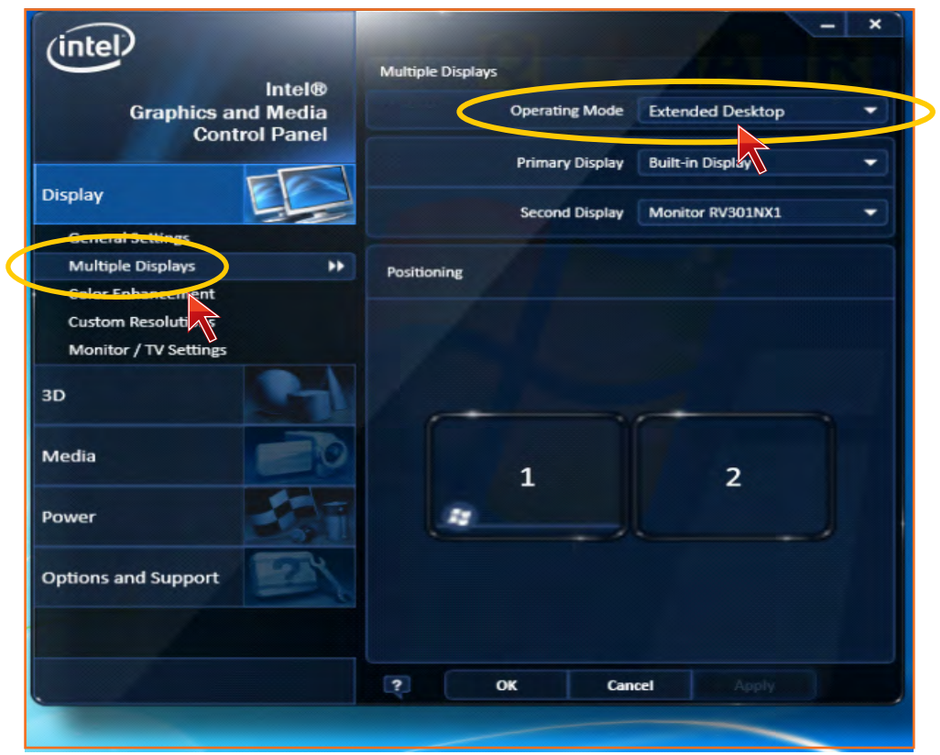
04. Dual Monitor Use

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

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

▪ **Method 1** Check the System Setup
Make sure that 'Chipset 〉 Host Bridge 〉 Intel IGD Configuration 〉 Boot Display Device' menu is selected as 'D-SUB + LVDS'

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



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System Dismantling

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

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01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (CDP)

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

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

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01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (CDP)

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

4. Assemble the covers in reverse order.

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01. System Dismantling & Assembling

Customer Display Assembling & Dismantling (DUAL 7")

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

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

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Customer Display Assembling & Dismantling (DUAL 7")

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

4. Assemble the covers in reverse order.

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Customer Display Assembling & Dismantling (DUAL 15")

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

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

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Customer Display Assembling & Dismantling (DUAL 15”)

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

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

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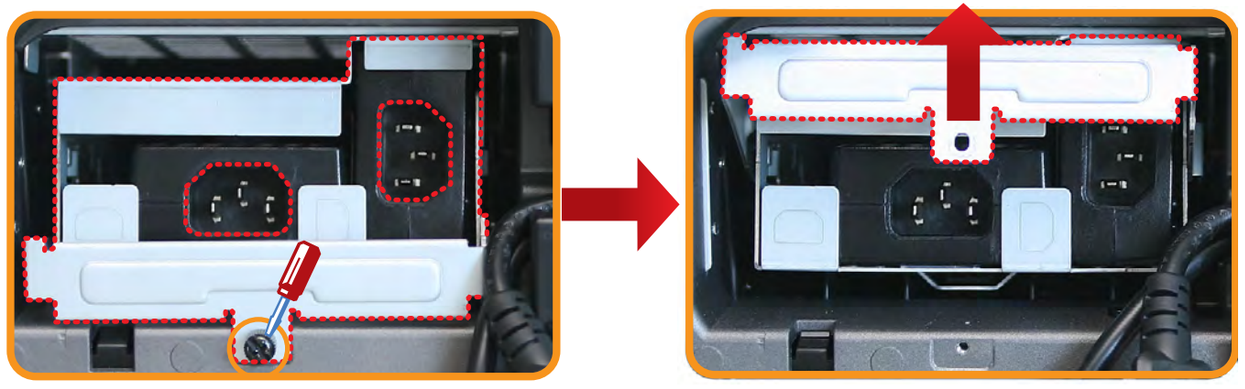
SMPS Replacement with DUAL Monitor (15")

1. Lay down the body with care.

2. Remove the power supply cord.
   Untighten the hand screw & remove the cover.
3. Disconnect SMPS ASSY from the body.



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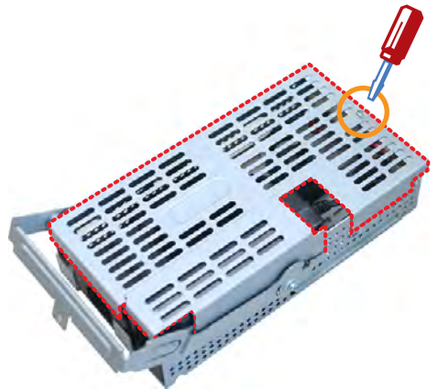
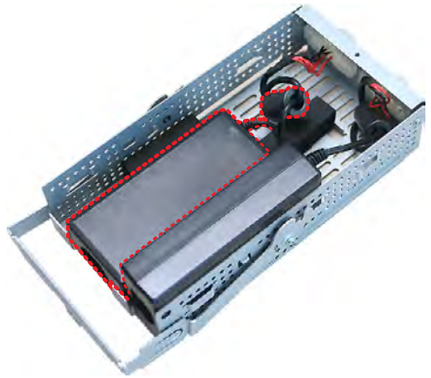
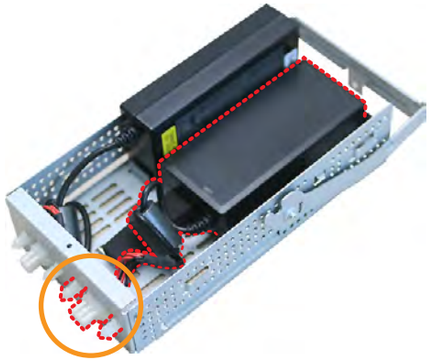
SMPS Replacement with DUAL Monitor (15")

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





5. Push the connecter hook in the front to remove 60W Power.
6. Remove the PAD for 60W & install the one for 80W.
7. Put 80W Power & assemble them in reverse order.



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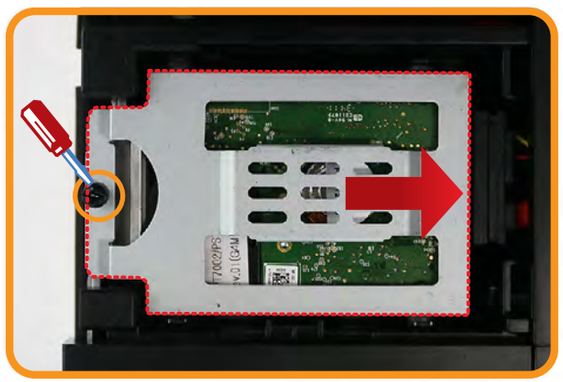
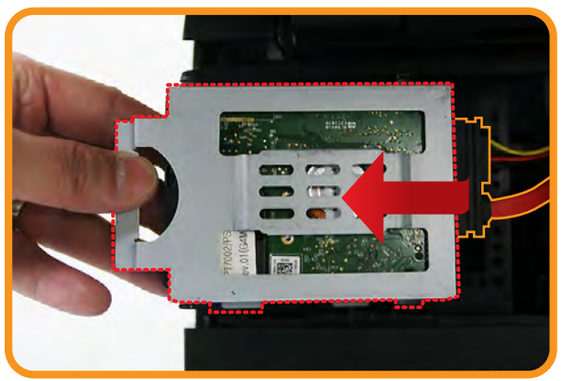
02. HDD Replacement

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

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

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





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02. HDD Replacement

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

4. Remove the bracket from the HDD.

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

6. Assemble a new HDD in reverse order & connect the cable.
7. Turn on the system & check the HDD are installed properly with System Set up chapter in appendix A.

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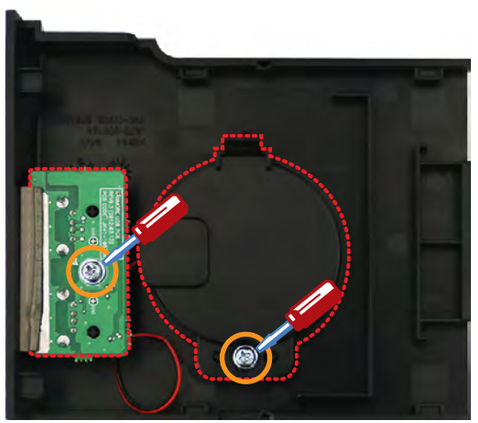
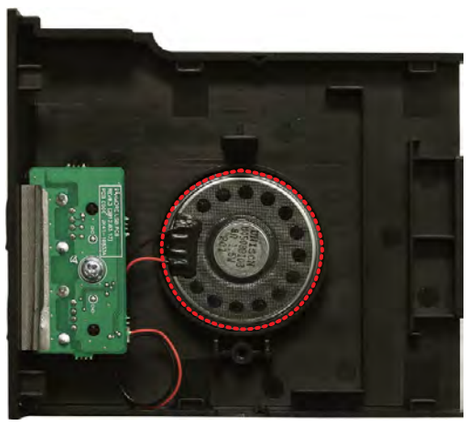
03. Internal Speaker & USB Removal

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

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





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04. Receipt Printer & Board Removal

Receipt Printer & Board Removal

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

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

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04. Receipt Printer & Board Removal

Receipt Printer & Board Removal

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

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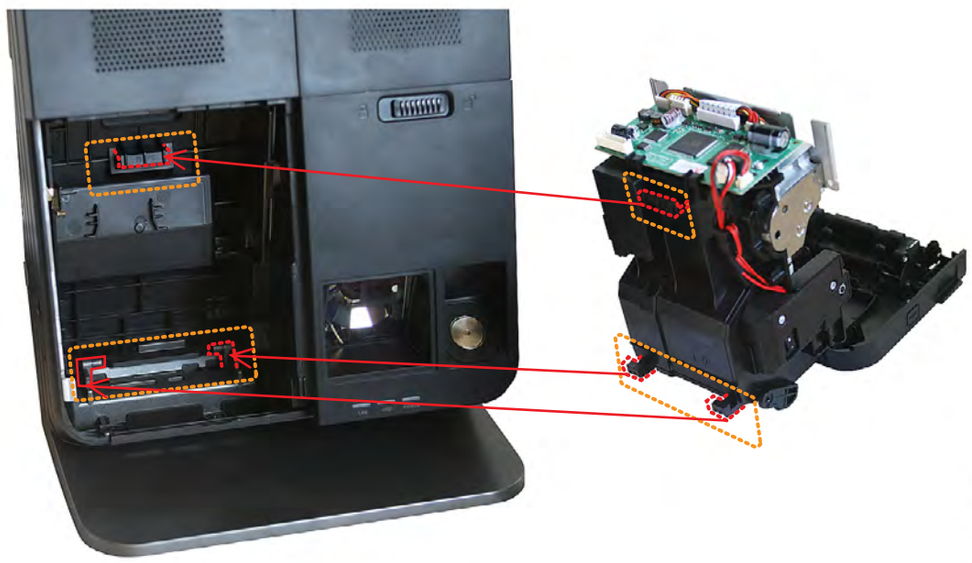
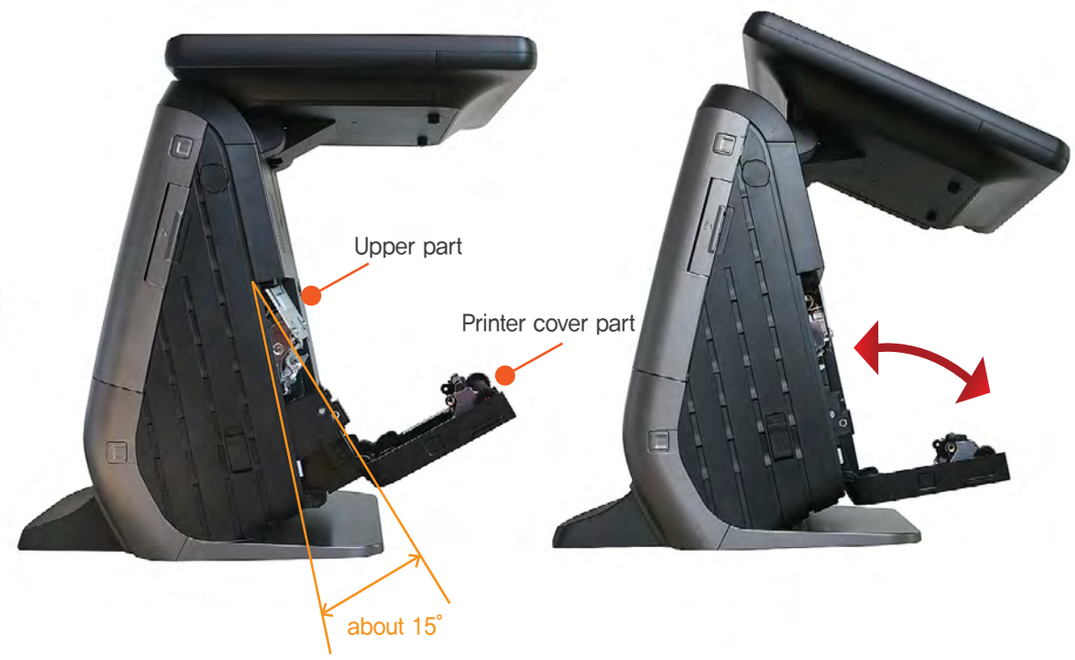
04. Receipt Printer & Board Removal

Receipt Printer Assembling

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





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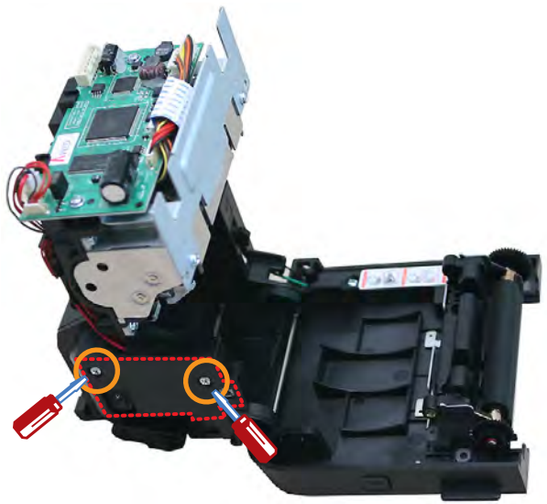
04. Receipt Printer & Board Removal

Printer Board Removal

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

Printer OSD Board Removal

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



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05. Scanner & Dallas Option Removal

Scanner & Dallas Removal

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

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05. Scanner & Dallas Option Removal

Scanner & Dallas Removal

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

Scanner & Dallas Assembling

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

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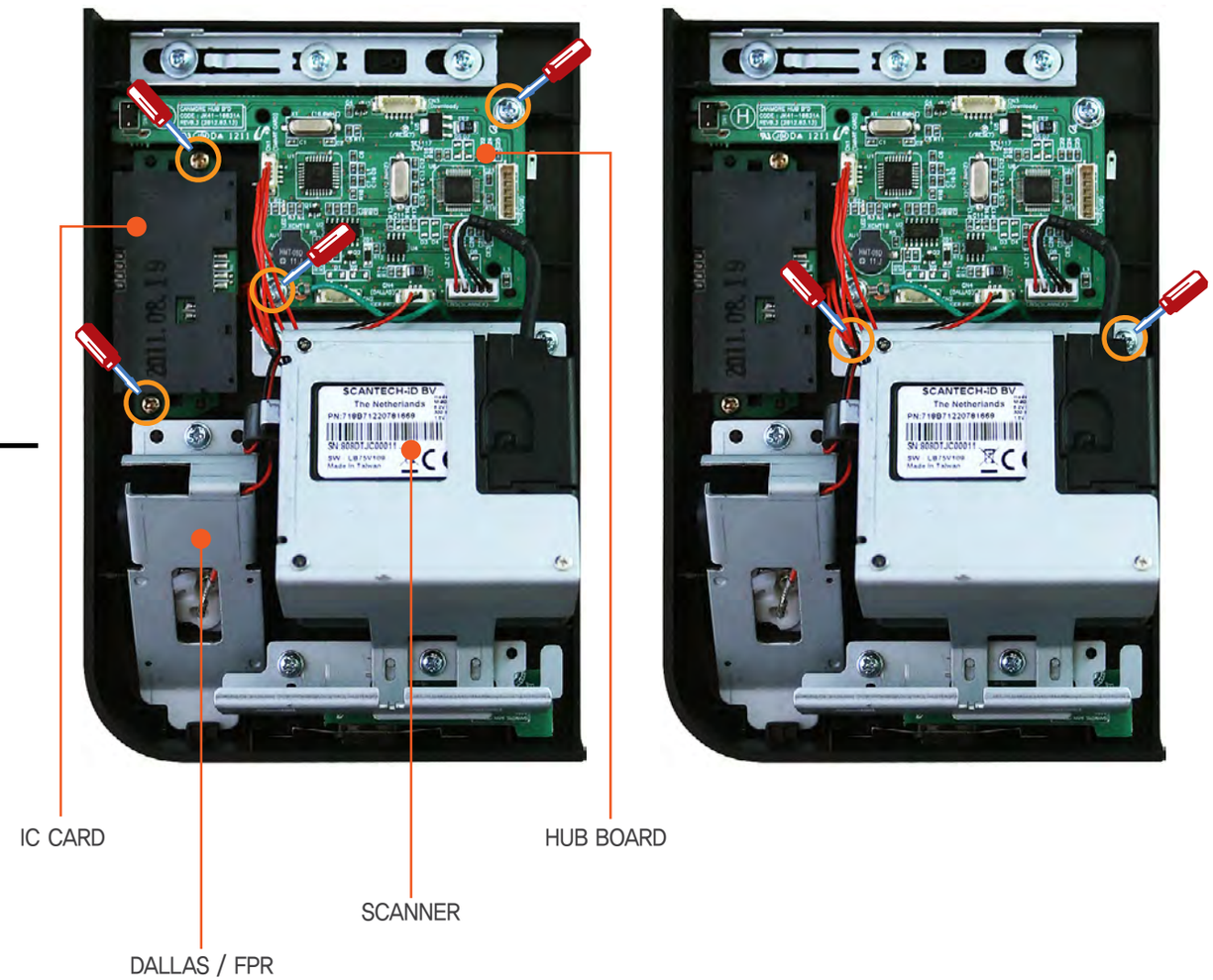
05. Scanner & Dallas Option Removal

HUB board & IC card Removal

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

Scanner & Dallas / FPR Removal

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



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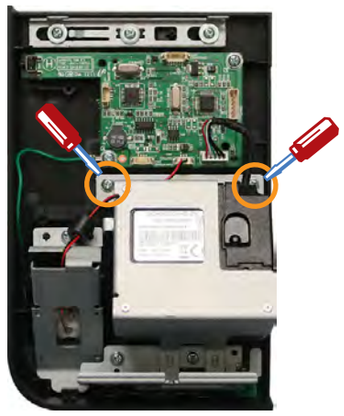
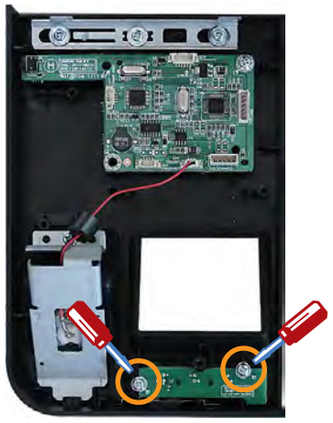
05. Scanner & Dallas Option Removal

OSD board Removal

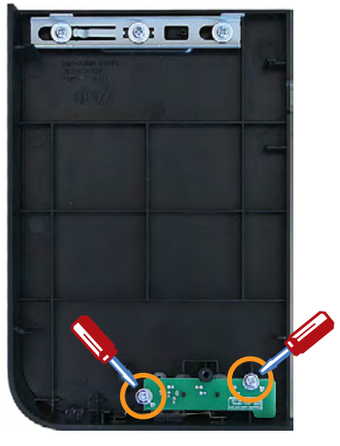
1. Unscrew screws(2) & remove the scanner bracket.
2. Unscrew screw(1) & remove the bracket.
3. Unscrew screws(2) & remove the OSD board.





OSD board on the dummy cover Removal

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



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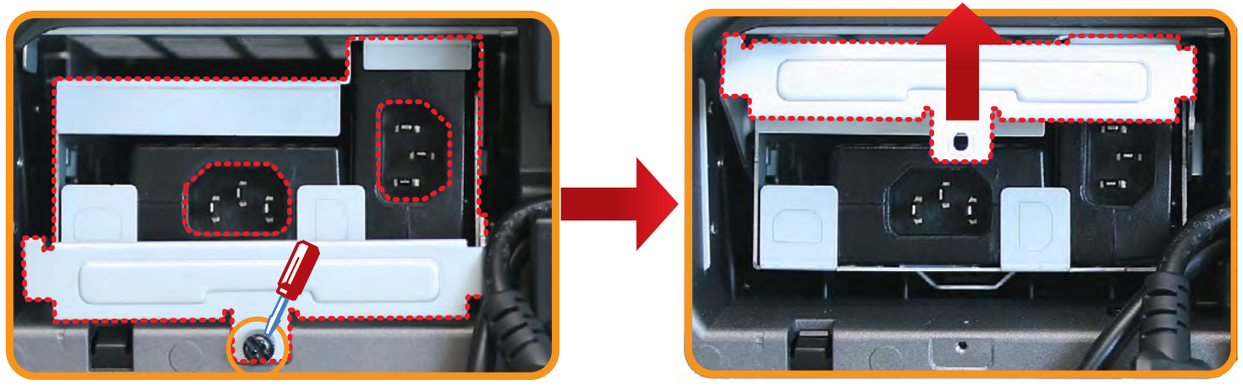
06. SMPS Removal

SMPS Removal

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

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



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06. SMPS Removal

SMPS Removal

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

SMPS Assembling

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

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07. Mainboard ASSY Removal

Mainboard ASSY Removal

1. Turn off the system.
   ※ Power & other cables must be removed before dismantling the system.

2. Refer to System Dismantle section to remove Interface & rear cover.

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

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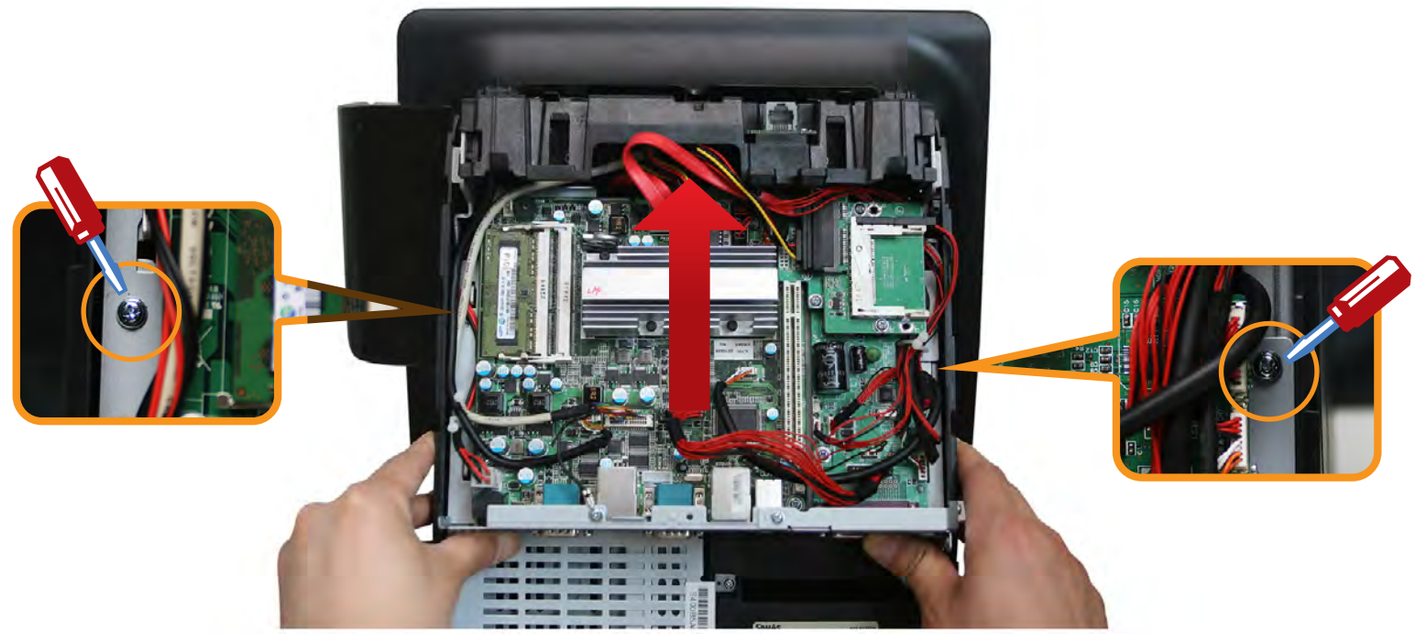
07. Mainboard ASSY Removal

Mainboard ASSY Removal

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



Mainboard ASSY Assembling

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

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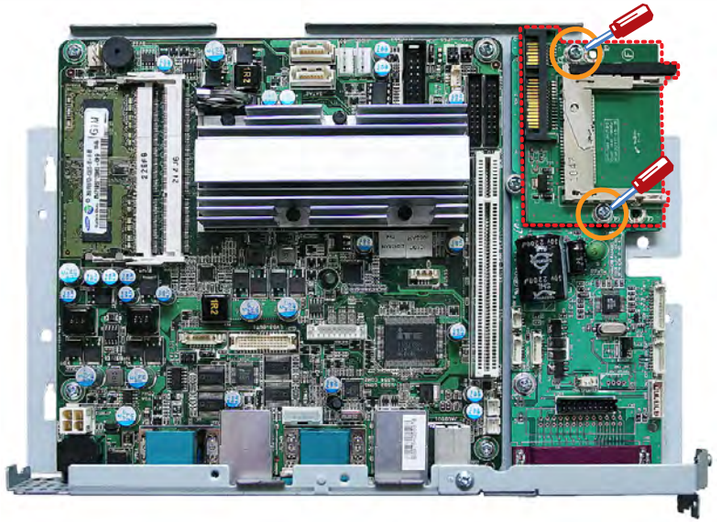
08. Various Boards Removal

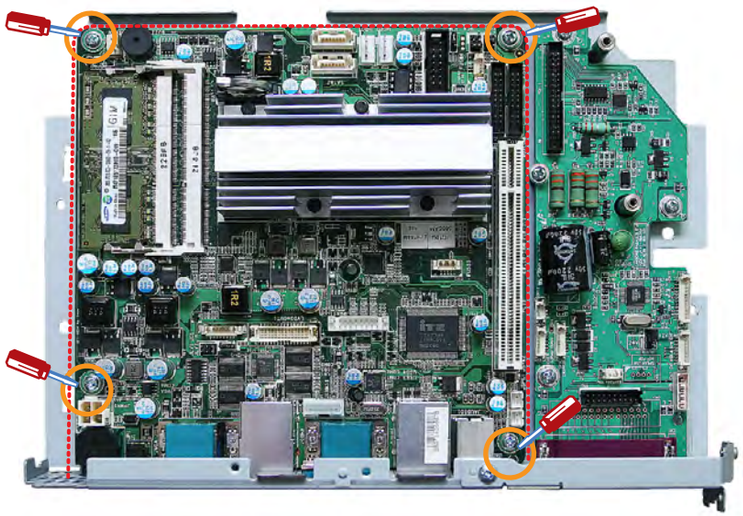
CFAST Board Removal

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



Main Board Removal

1. Remove 4 screws to remove Main board.



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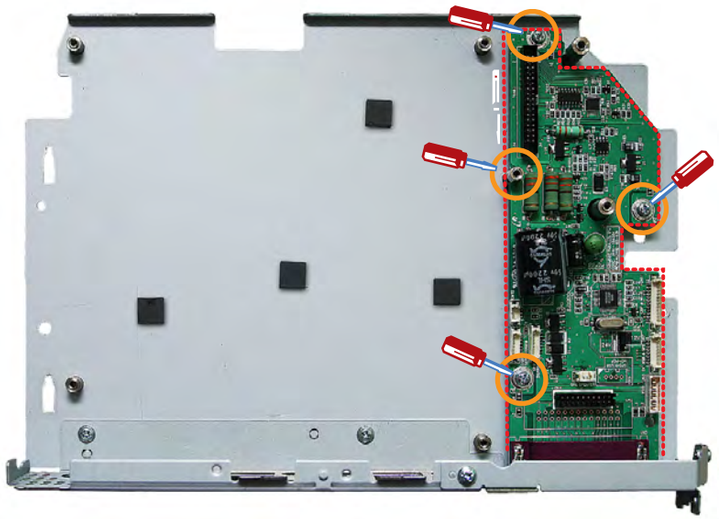
08. Various Boards Removal

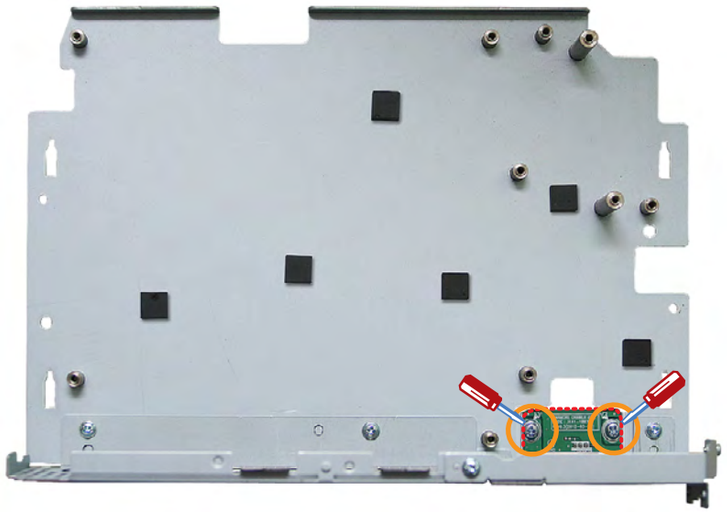
Parallel Board Removal

1. Remove 4 screws to remove Parallel board.



Drawer Board Removal

1. Remove 2 screws to remove the drawer board.



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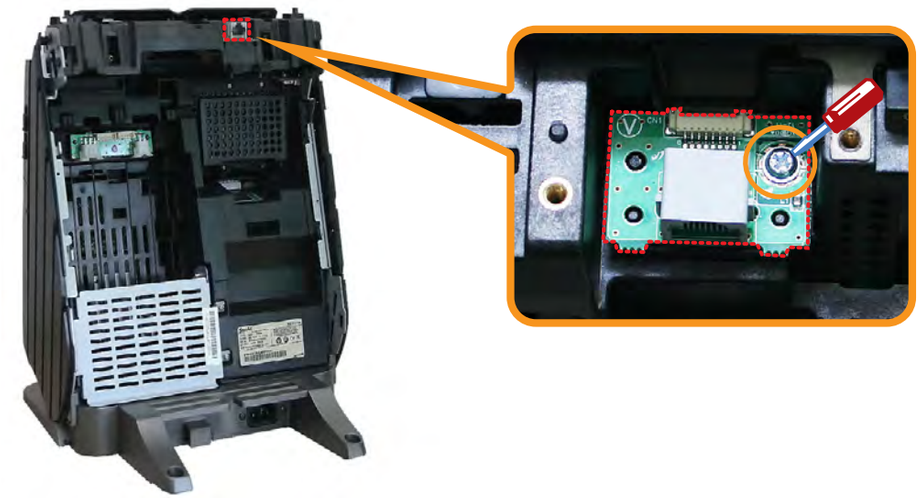
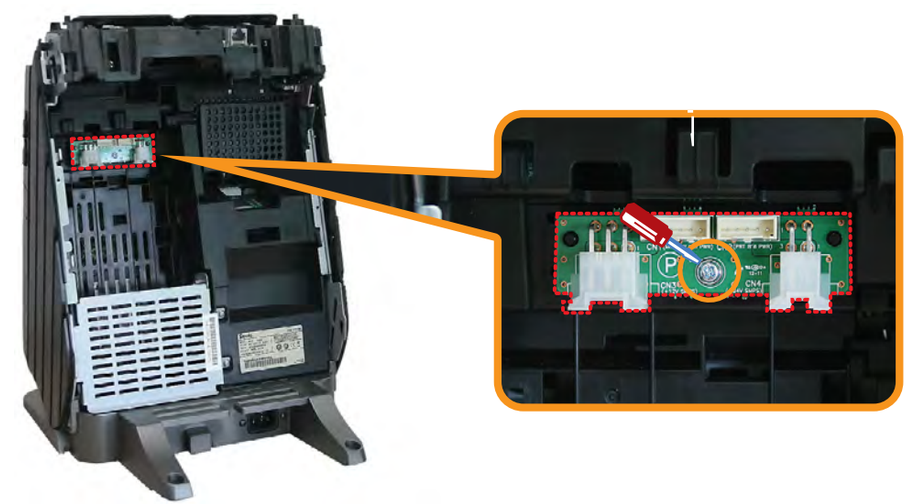
VFD Board Removal

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



Power Board Removal

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



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08. Various Boards Removal

WIFI Board Removal

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

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09. Main Memory Removal

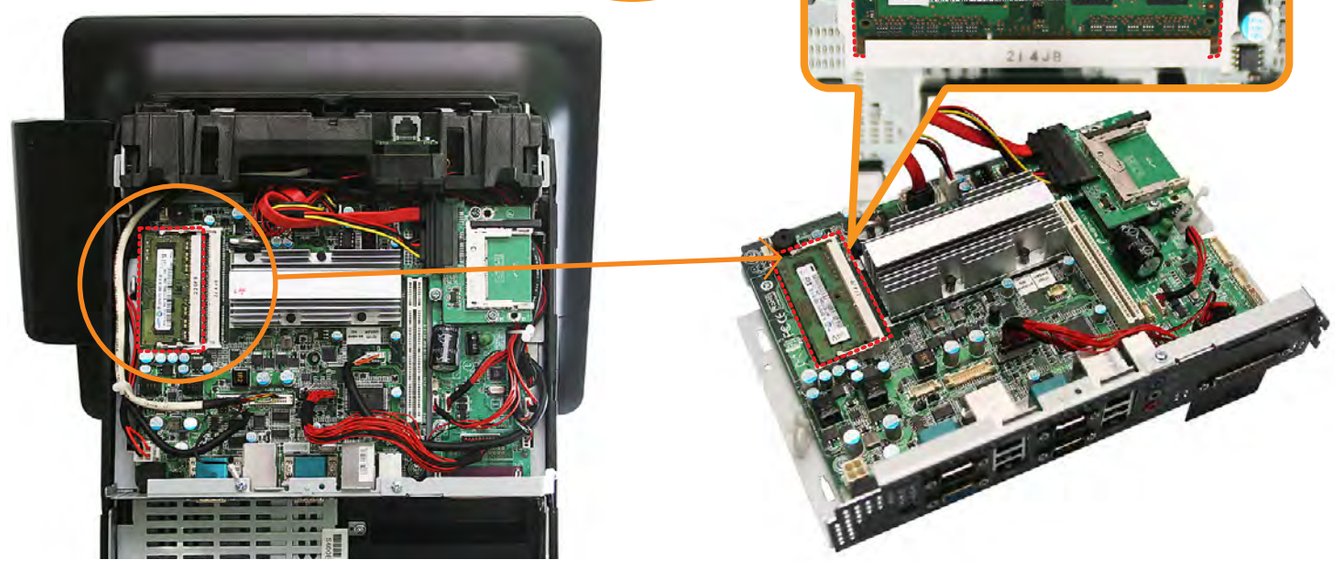
Main Memory Removal

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

Memory supports max. 4GB according to the board specificaton.
BIOS will automatically detects memory type, size & speed, when the new one is equipped.

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

2. Remove I/F & rear covers.
3. Push the top cover to remove.
   Then, remove a screw & push the dummy cover to the upper side.
4. Pull the levers in both sides to remove the memory.



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10. Remove Display Assembly

Remove Display Assembly

1. Turn off the system.
   ※ Remove cables for power before disassembly.

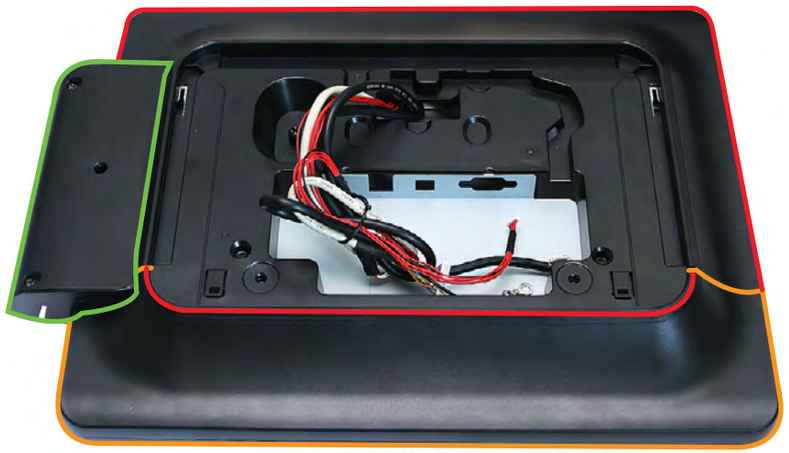
2. Dismantle Interface Cover and Rear Cover.
   If a Dual Monitor is installed, disconnect cables and remove the Dual Monitor.
   Unscrew cable harness and remove it.

3. Remove 4 harness for display.
   (TOUCH,MSR,LVDS,INVERTER)

4. Unscrew 2 screws at the back side after lifting display and disassemble.
   (Be careful not to cut off harness.)

Assembly of Display

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



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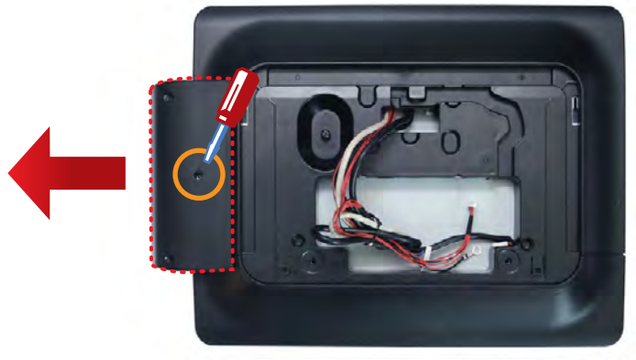
11. Remove MSR

Disassembly of MSR

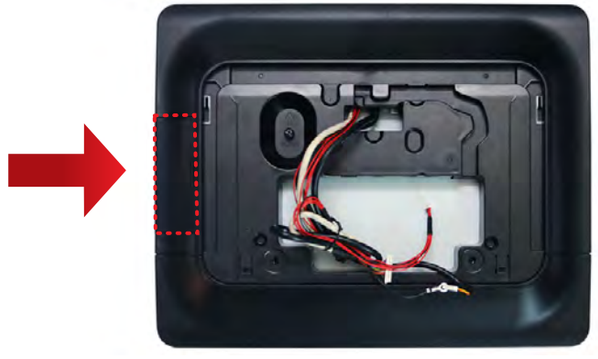
1. Unscrew a screw. Push to the left and disassemble it.



Assembly of MSR

1. Assemble in reverse order and tighten the screw.

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



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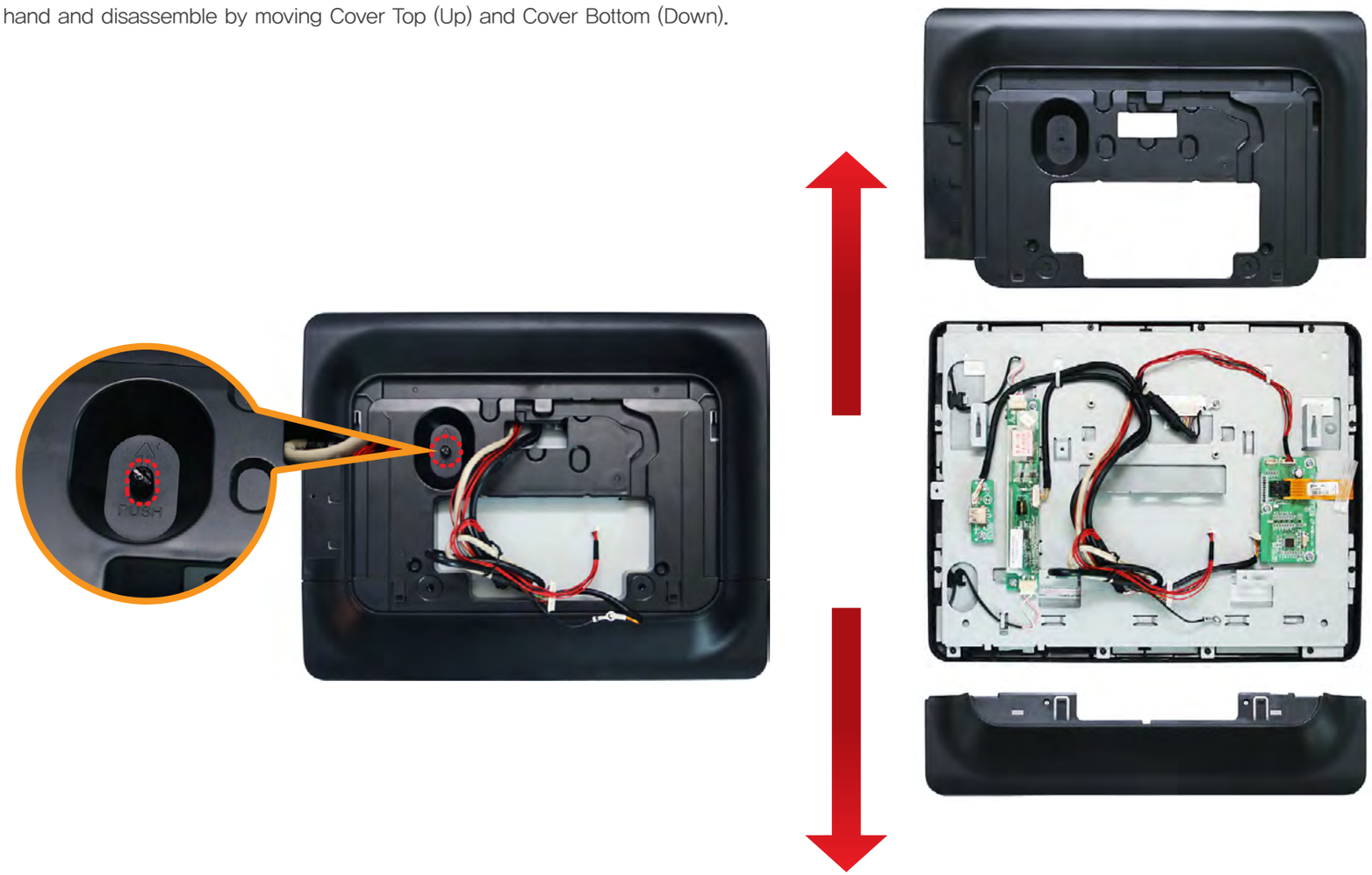
12. Remove Display Board

Remove Display Board (Inverter, MSR, Touch)

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



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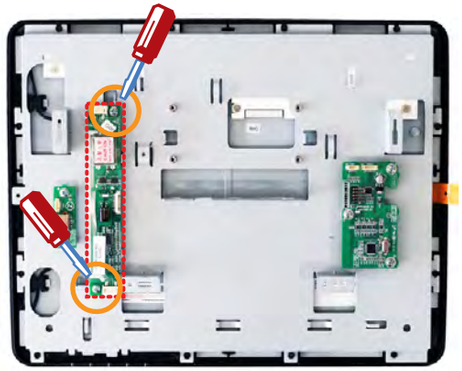
12. Remove Display Board

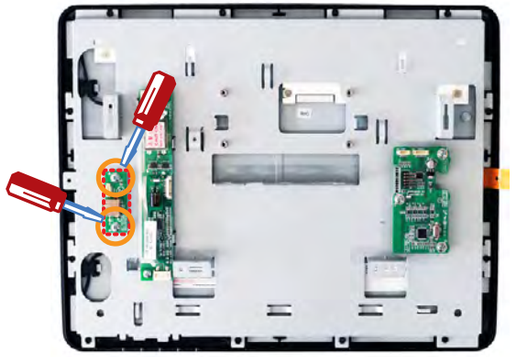
Remove Inverter

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



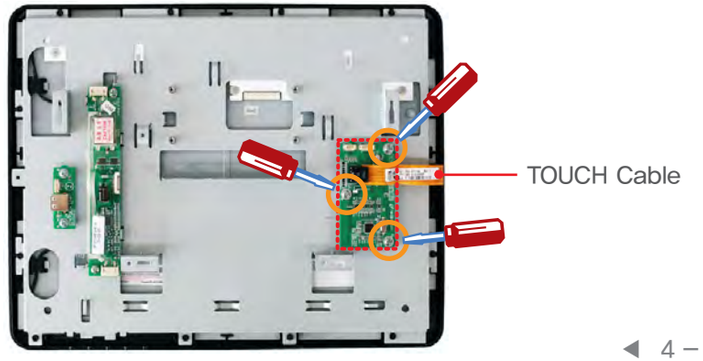
Remove MSR Board

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



Remove Touch Board

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



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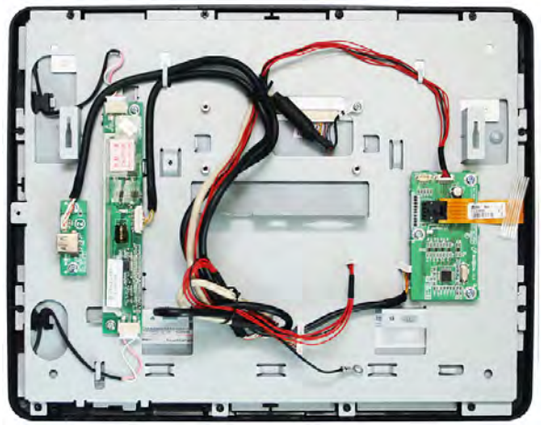
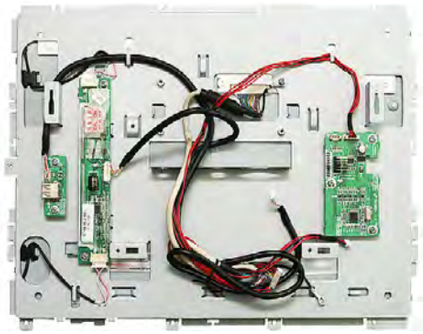
13. Remove Touch Panel & LCD

Remove Touch Panel & LCD

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

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

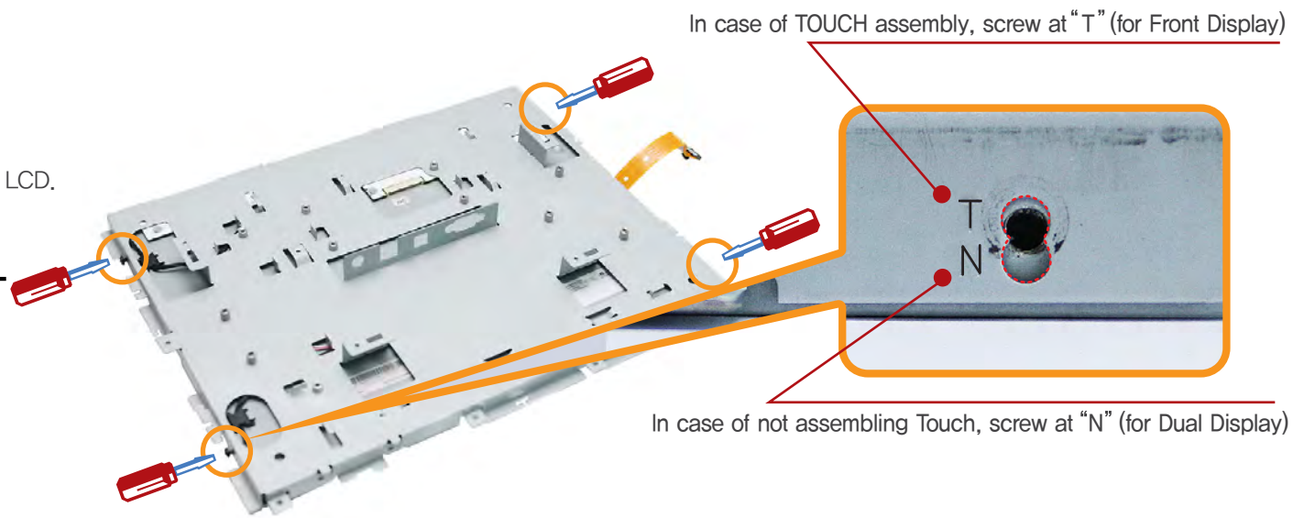




3. Unscrew 4 screws from disassembled Bracket Assembly and Remove LCD.

Assembly of Touch Panel and LCD

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



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BIOS Set-up

01. BIOS Set-up Preview

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

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

Entering the Setup

• Turn on the system and the system will show 'Press 〈DEL〉 to enter SETUP' message.
When this message show up, press 〈DEL〉 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

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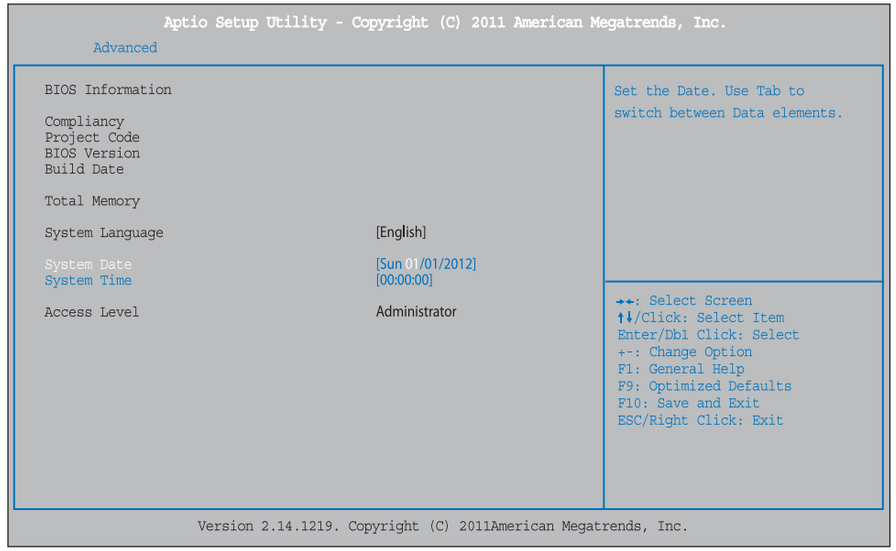
01. System Set-up Preview

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

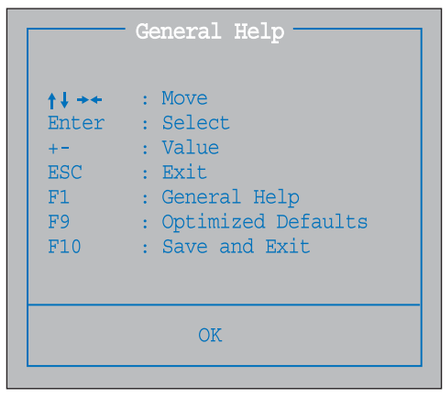
Initial Setup Screen

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



Using Keys on Setup Screen

- Press 'F1' key to see simple explanations on key functions.



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

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

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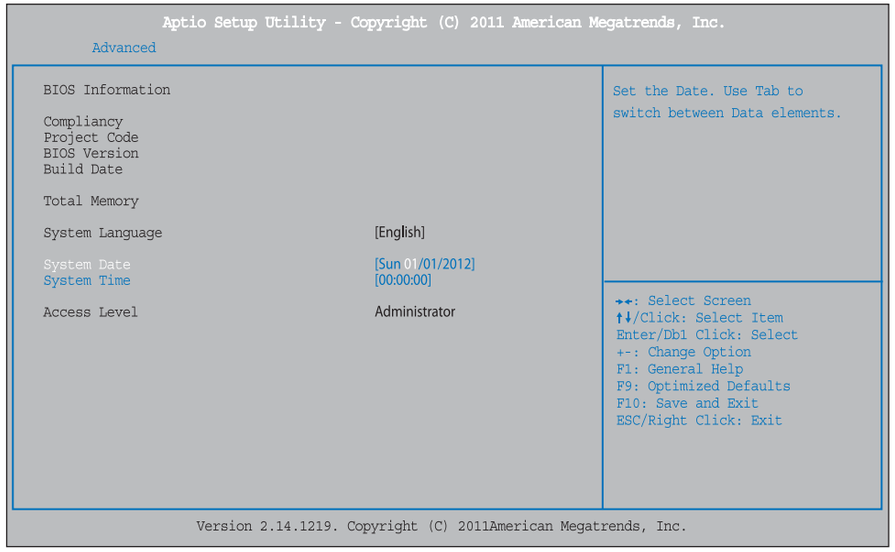
02. Main Menu

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



System Date

If needed, set up the date on 'System Date'.
The date format is 〈Month〉 〈Day〉 〈Year〉 in order. Move to the item with 〈Tab〉 or 〈Enter〉 key and change it with 〈+〉, 〈Space〉 or 〈–〉 key.

System Time

If needed, set up the time on 'System Time'.
The time format is 〈Hour〉 〈Minute〉 〈Second〉 in order. Move to the item with 〈Tab〉 or 〈Enter〉 key and change it with 〈+〉, 〈Space〉 or 〈–〉 key.

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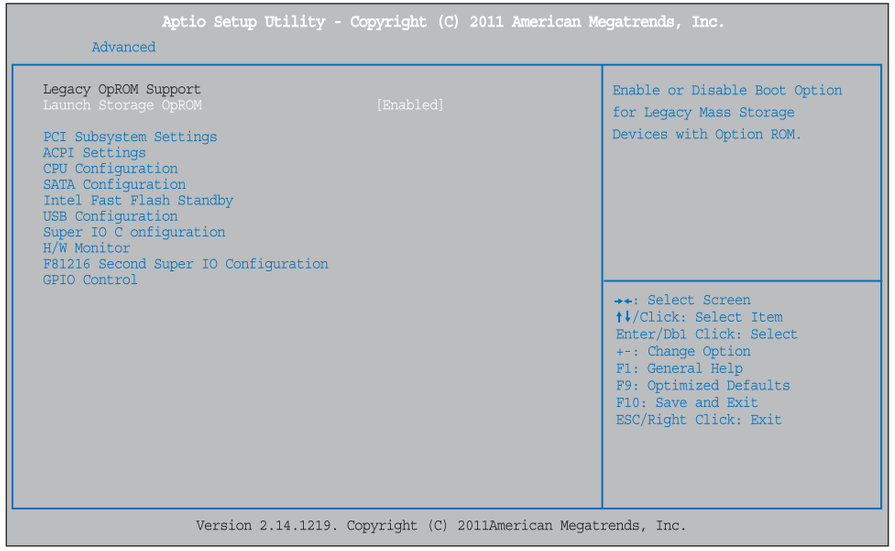
03. Advanced Menu

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



Launch Storage OpROM

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

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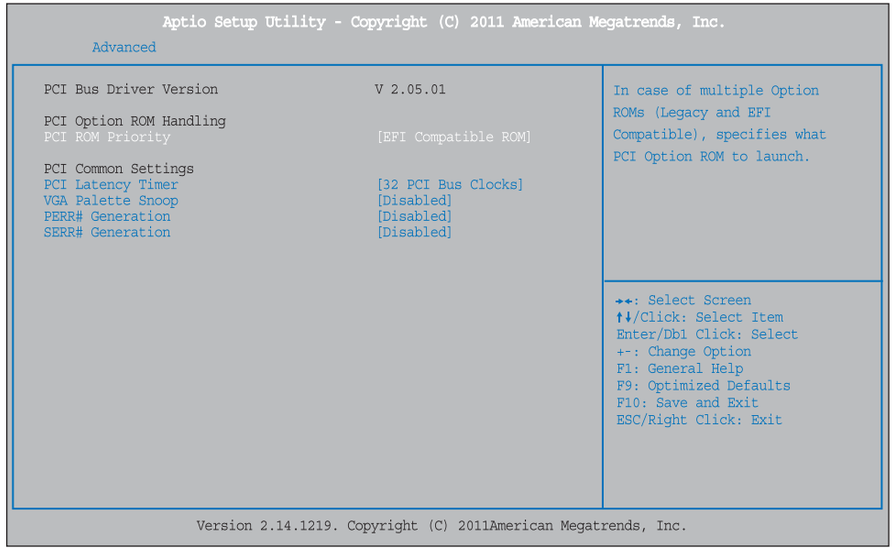
Use this menu for basic system setup such as time, date and etc. and system information.



Advanced 〉 PCI Subsystem Settings

- **PCI ROM Priority** — In case of multiple option ROMs (Legacy and EFI Compatible), this item specifies what PCI Option ROM to launch.
- **PCI Latency Timer** — This item sets the value to be programmed into PCI Latency Timer Register.
- **VGA Palette Snoop** — This item enables or disables VGA Palette Registers Snooping.
- **PERR# Generation** — This item enables or disables PCI Device to generate PERR#.
- **SERR# Generation** — This item enables or disables PCI Device to generate SERR#.

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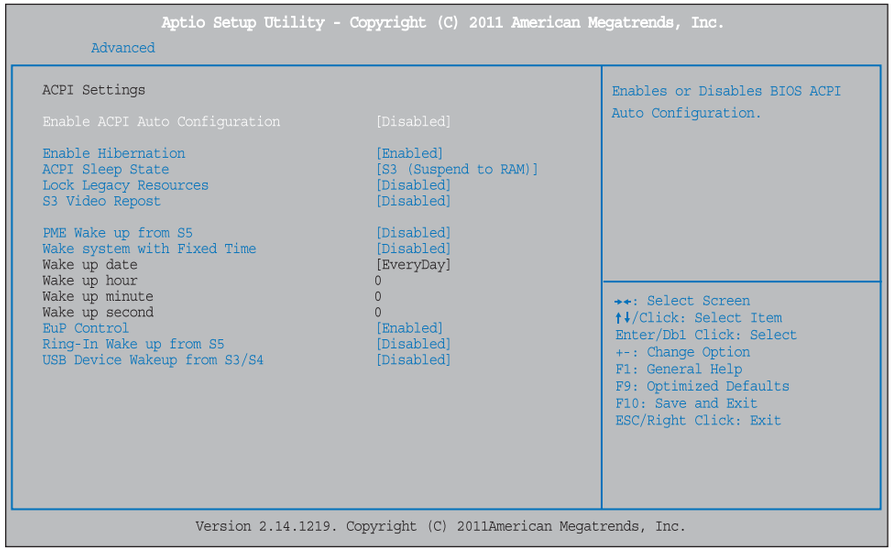
03. Advanced Menu

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



Advanced 〉 ACPI Settings

- **Enable ACPI Auto Configuration** — The item enables or disables BIOS ACPI Auto Configuration.
- **Enable Hibernation** — The item enables or disables System ability to hibernate (OS/S4 Sleep State). This option may be not effective with some OS.
- **ACPI Sleep State** — This item selects the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.
- **Lock Legacy Resources** — This item enables or disables Lock of Legacy.
- **S3 Video Repost** — The item enables or disables S3 Video repost.
- **PME Wake up from S5** — The item enables the system to wake from S5 using PME event.
- **Wake system with Fixed Time** — This item enables or disables the system to wake on by alarm event. When this item is enabled, the system will wake on the hr::min::sec specified.
- **Wake up date / Wake up hour / Wake up minute / Wake up second** — Sets up specific time and date that the system will wake up.
- **EuP Control** — When EuP is enabled, the system will meet EuP requirement.
- **Ring-In Wake up from S5** — This item enables the system to wake from S5 using Ring-In event.
- **USB Device Wake up from S3/S4** — This item enables the system to wake from S3/S4 using USB device.

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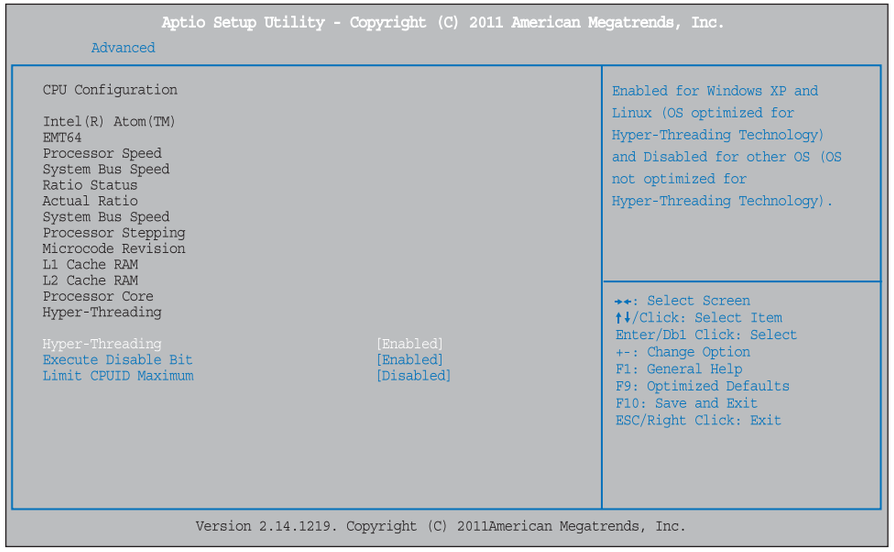

Advanced 〉 CPU Configuration

- **Hyper Threading Technology** — Enabled for Windows XP and Linux (OS optimized for Hyper Threading Technology) and disabled for other OS (OS not optimized for Hyper Threading Technology).
- **Execute Disable Bit** — This item allows you to configure the Execute Disabled Bit function, which protects your system from buffer overflow attacks.
- **Limit CPUID Maximum** — When the computer is booted up, the operating system executes the CPUID instruction to identify the processor and its capabilities. Before it can do so, it must first query the processor to find out the highest input value CPUID recognizes. This determines the kind of basic information CPUID can provide the operating system.

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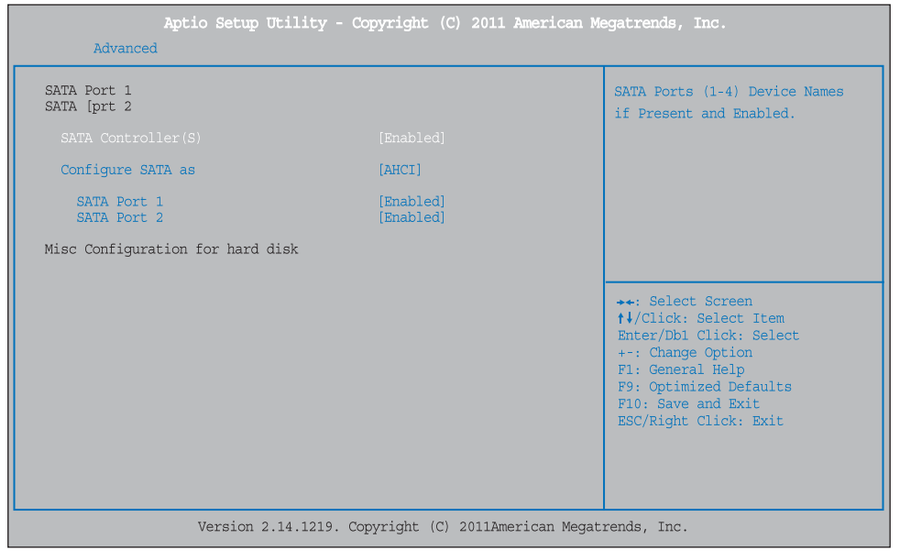

Advanced 〉 SATA Configuration

- **SATA Controller(s)** — This item enables/disables Serial ATA Controller (s).
- **Configure SATA as** — This item selects a configuration for SATA controller.

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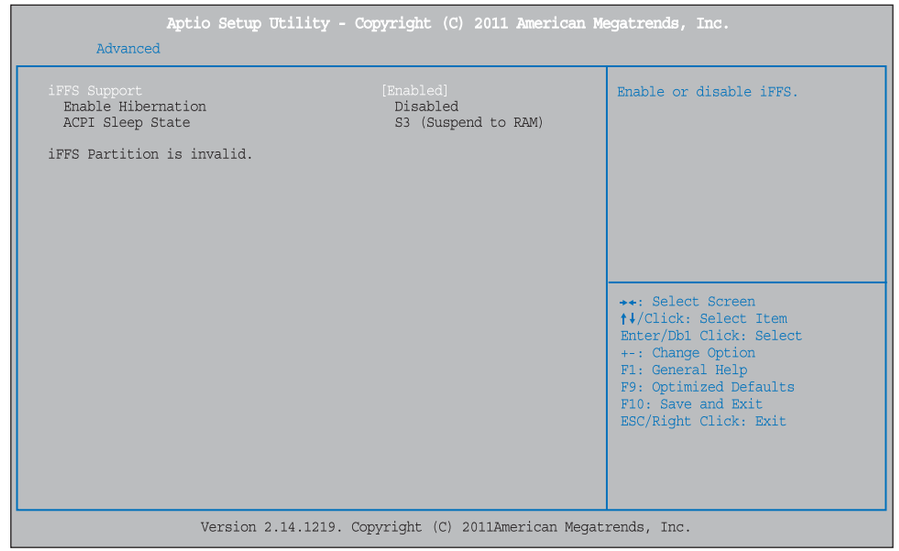

Advanced 〉 Intel Fast Flash Standby

- **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.

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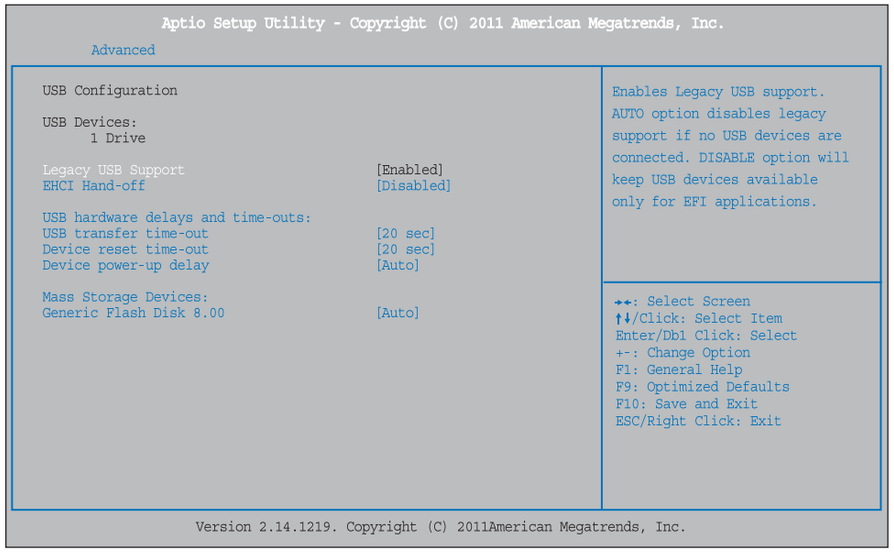

Advanced 〉 USB Configuration

- **Legacy USB Support** — This item determines if the BIOS should provide legacy support for USB devices like the keyboard, mouse, and USB drive. This is a useful feature when using such USB devices with operating systems that do not natively support USB (e.g. Microsoft DOS or Windows NT).
- **EHCI Hand-Off** — This is a workaround for OSes without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.
- **USB transfer time-out** — The time-out value is for Control, Bulk, and Interrupt transfers.
- **Device reset time-out** — This is the USB mass storage device Start Unit command time-out.
- **Device power-up delay** — This is maximum time for the device to take before it properly reports itself to the Host Controller.

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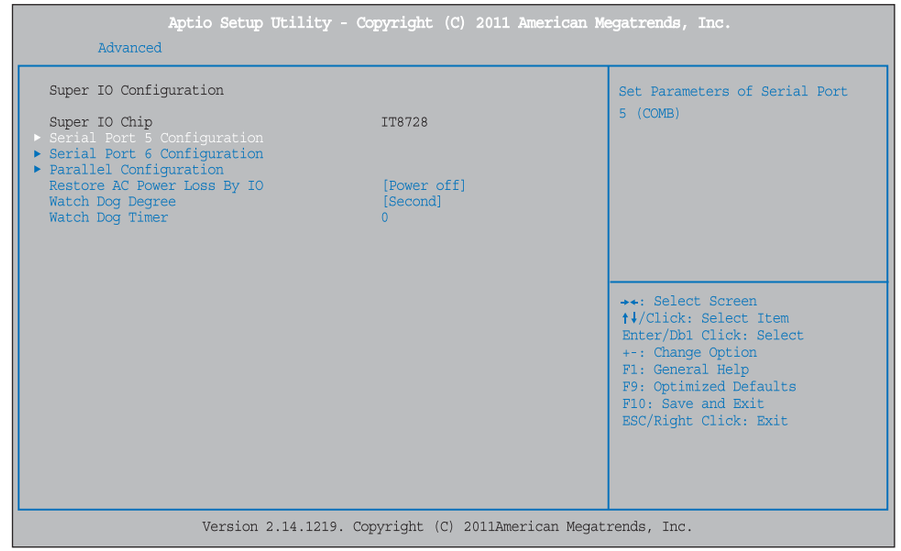

Advanced 〉 Super IO Configuration

- **Serial Port 5/6 Configuration** — Decides to use Serial Port 5/6 and sets up IRQ and IO Address.
- **Parallel Port Configuration** — Decides to use Parallel Port and sets up IRQ, IO Address, Device Mode, etc.
- **Restore AC Power Loss by IO** — This setting specifies how your system should behave after a power fail or interrupts occurs.
  - Power Off: Leaving the system in power-off status after power recovers.
  - Power ON: Powering on the system immediately when power returns.
  - Last State: 1. Leaving the system in power-off if the system shuts down at DC off status;
    2. Powering on the system immediately if the system shuts down at DC on status.
- **Watch Dog Degree** — This item allows you to determine the functional degree of Watch Dog.
- **Watch Dog Timer** — Sets up the time of Watch Dog Timer function.

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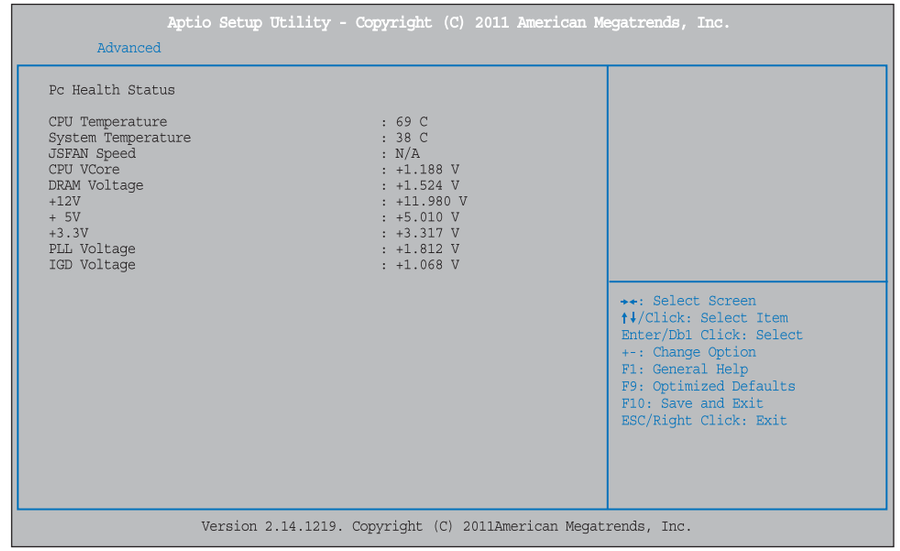

Advanced 〉 H/W Monitor

- **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.

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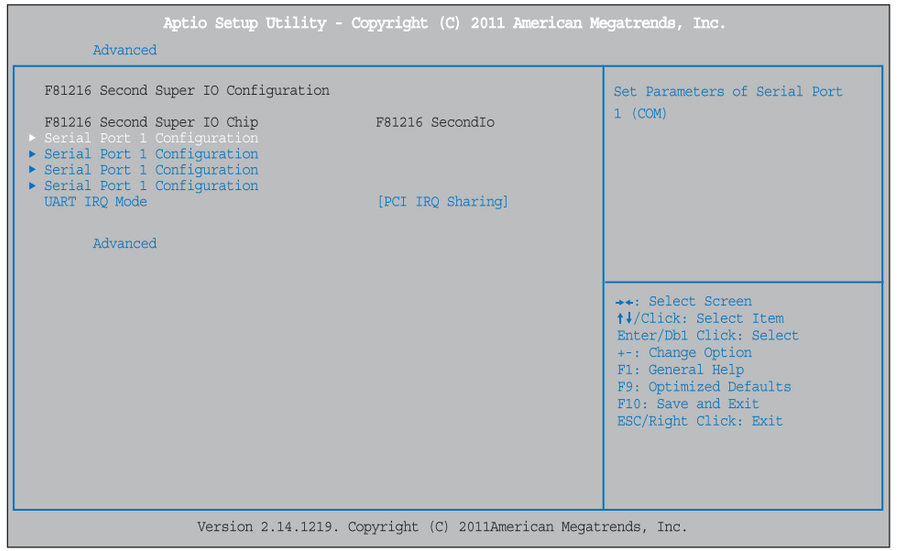

Advanced 〉 F81216 Second Super IO Configuration

- **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.

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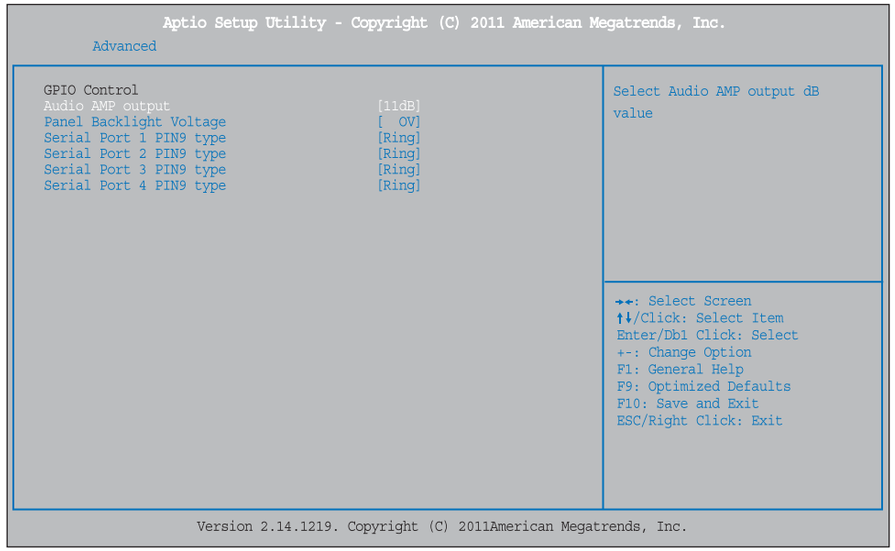

Advanced 〉 GPIO Control

- **Audio AMP output** — This item allows you to select Audio AMP output dB value.
- **Panel Backlight Voltage** — This item allows you to select Panel Backlight voltage.
- **Serial Port 1/2/4 PIN9 type** — This item allows you to select Serial port pin 9 type is Ring, Vcc 5V, Vcc 12V.
- **Serial Port 3 PIN2 type** — This item allows you to select Serial port pin 2 type is Ring, Vcc 5V, Vcc 12V.

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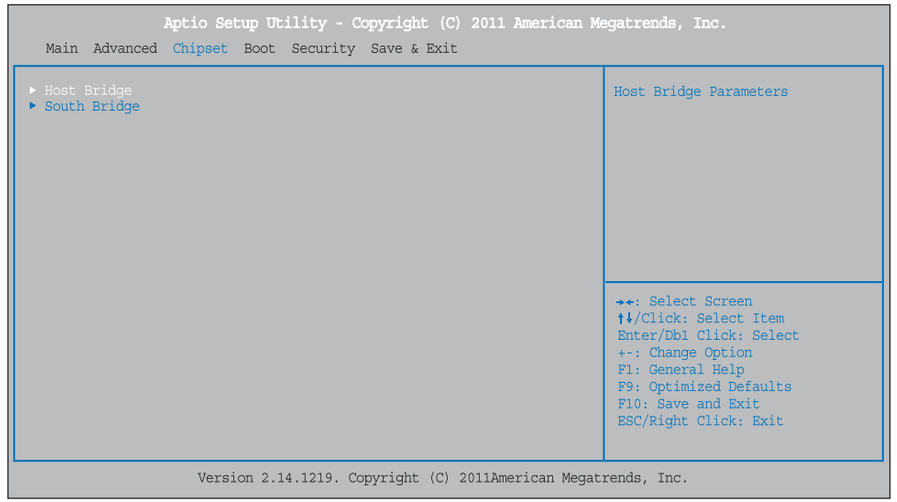
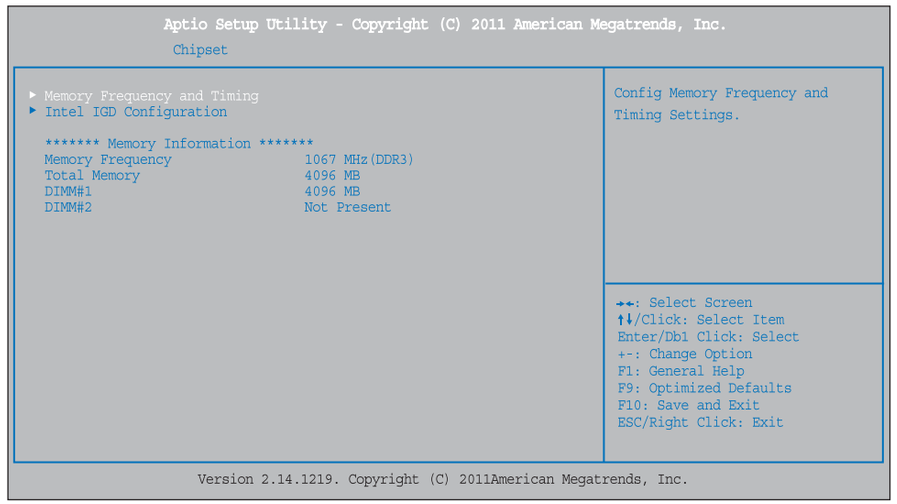


Chipset 〉 Host Bridge



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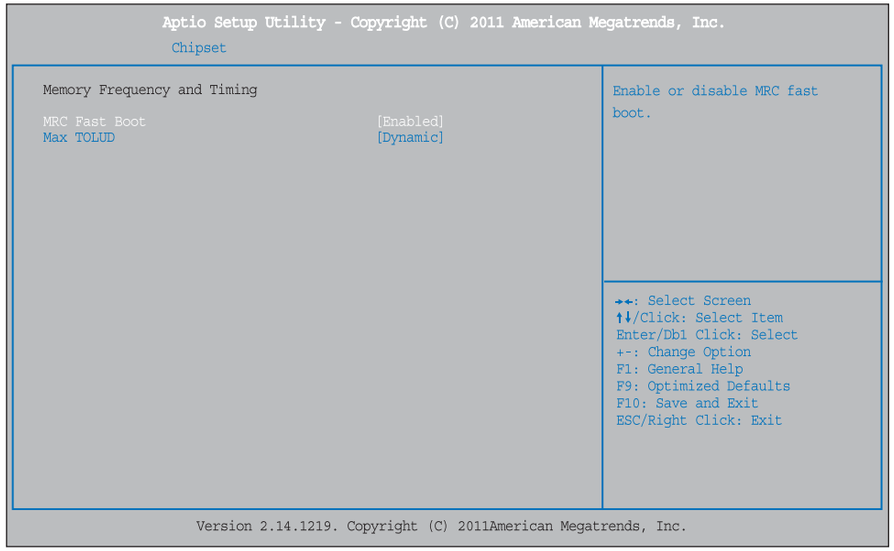

Chipset 〉 Host Bridge 〉 Memory Frequency and Timing

- **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.

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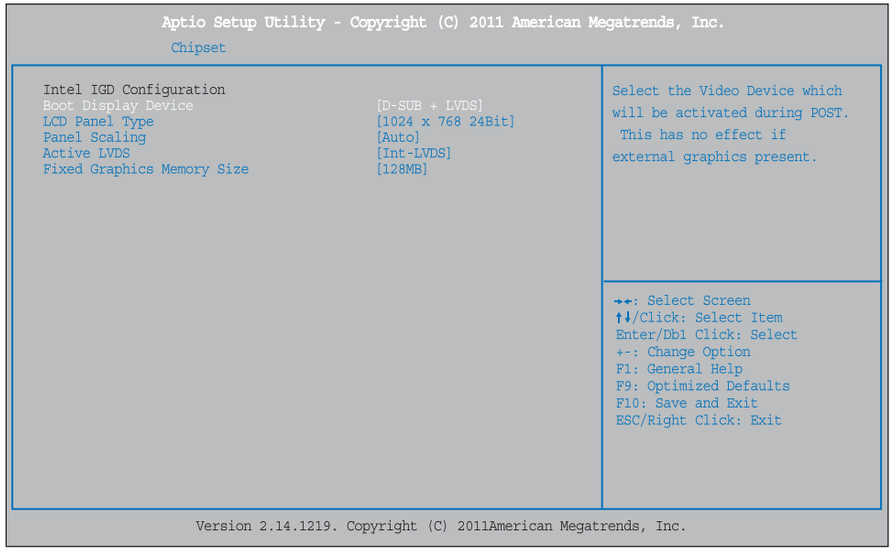

Chipset 〉 Host Bridge 〉 Intel IGD Configuration

- **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.

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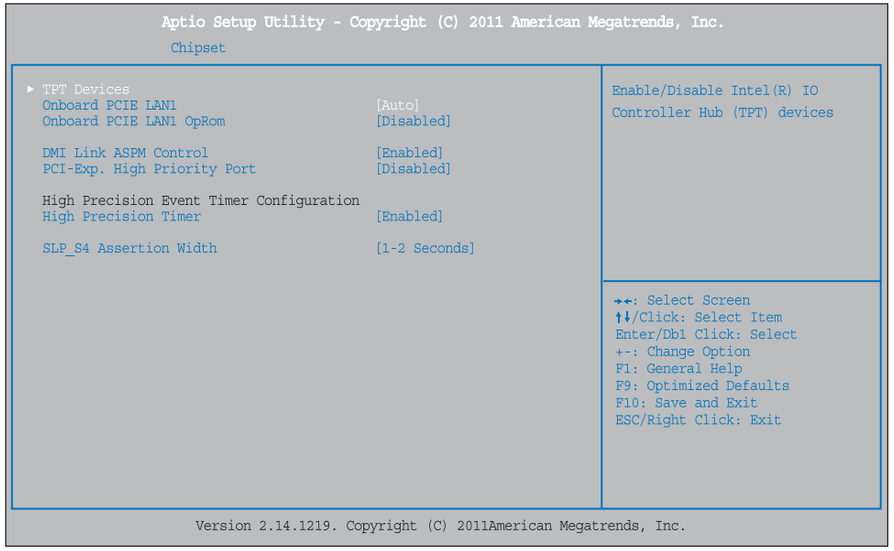

Chipset 〉 South Bridge

- **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.

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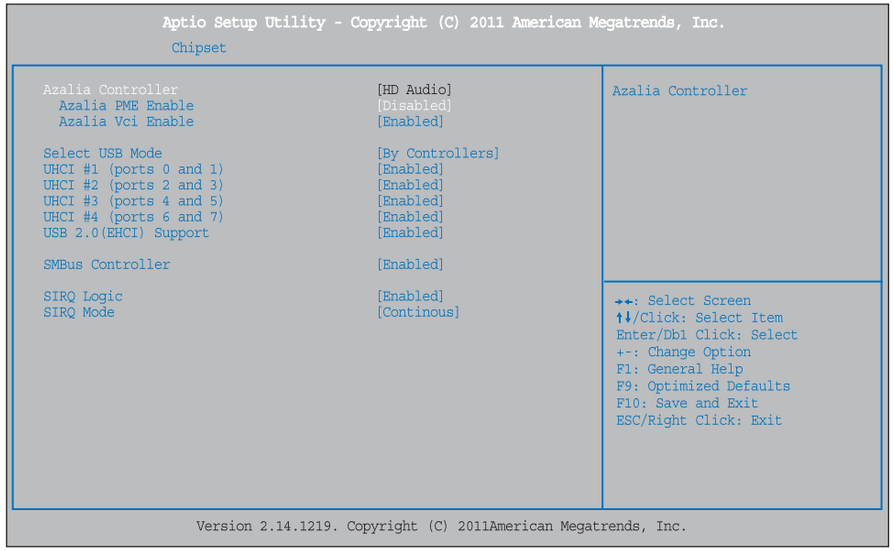

Chipset 〉South Bridge 〉 TPT Device

- **Azalia Controller** — You can use this item to select the Azalia Controller.
- **Azalia PME Enable** — You can use this item to enable or disable Power Management capability of Audio Controller.
- **Azalia Vci Enable** — Azalia supports 1 extended VC, which will override ICH VCp settings when enabled.
- **Select USB Mode** — This item selects USB mode to control USB ports.
- **UHCI#1 (ports 0 and 1) / UHCI #2 (ports 2 and 3) / UHCI #3 (ports 4 and 5) / UHCI #4 (ports 6 and 7)**

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

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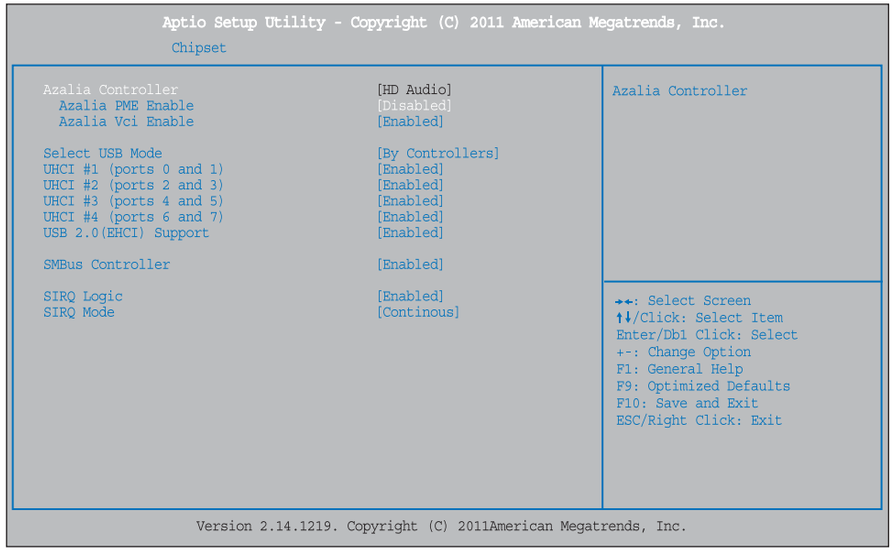

Chipset 〉South Bridge 〉 TPT Device

- **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.

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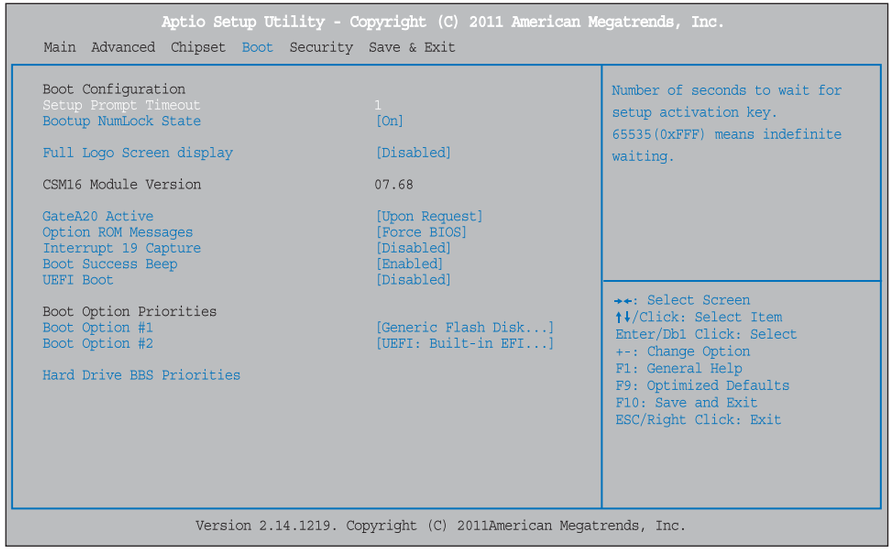
05. Boot Menu

Use this menus to specify the system boot option.



- **Setup Prompt Timeout** — You can use this item to set the number of seconds waiting for setup activation key.
- **Bootup Num-Lock State** — You can use this item to select the keyboard NumLock State after the system has been switched on.
- **Full Screen LOGO Display** — This item allows you to enable or disable Full Screen LOGO Show function.
- **GateA20 Active** — UPON REQUEST - GA20 can be disabled using BIOS services.
  ALWAYS - it doesn't allow disabling the GA20; this option is useful when any RT code is executed above 1MB.
- **Option ROM Messages** — This item can set the display mode for Option ROM.
- **Interrupt 19 Capture** — Interrupt 19 is the software interrupt that handles the boot disk function. When this item is set to Enabled, it allows the Option ROMs to trap Interrupt 19.
- **Boot Success Beep** — When this item is set to Enabled, BIOS will let user know boot success with beep.
- **UEFI Boot** — This item enables or disables boot from the UEFI Devices.
- **Boot Option Priorities** — Items in this sub-menu specify the boot device priority sequence from the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system.
- **Hard Disk Drive BBS Priorities** — The BIOS will attempt to arrange the hard disk boot sequence automatically. You can also change the booting sequence. The number of device items that appears on the screen depends on the number of devices installed in the system.

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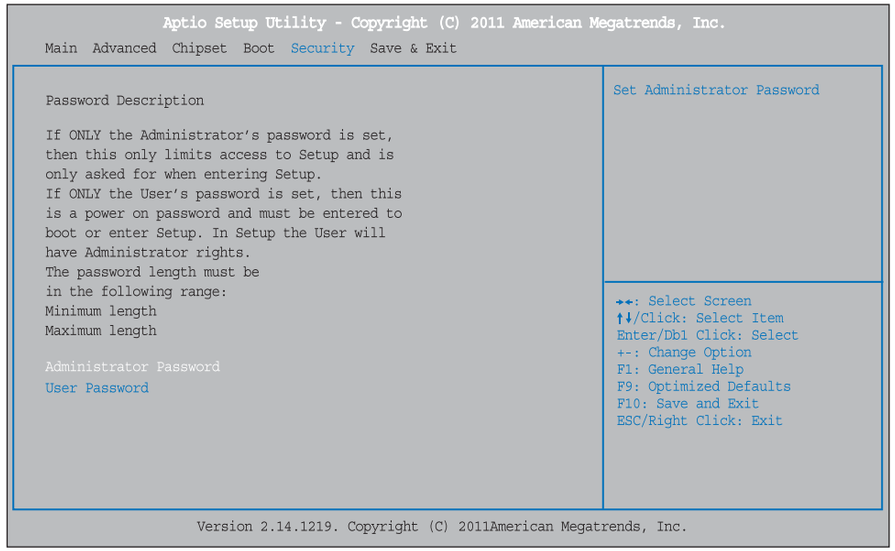
06. Security Menu

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.

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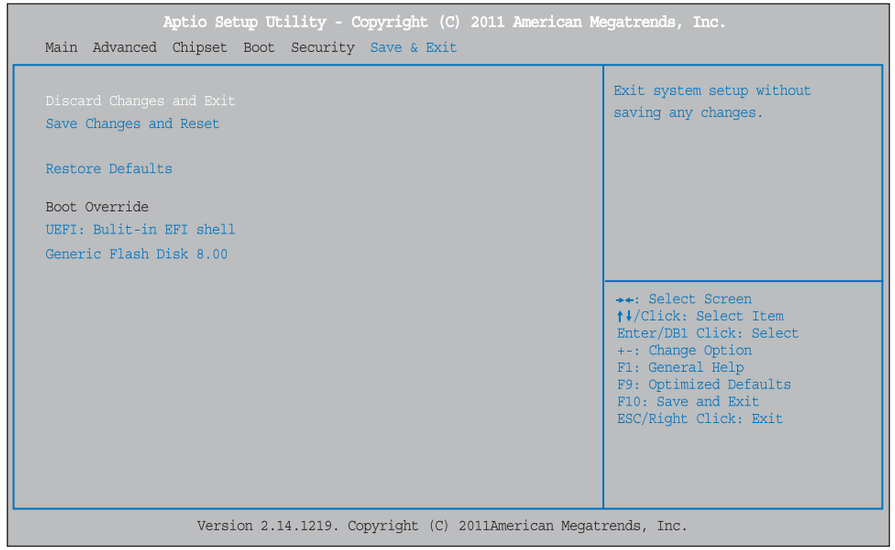
07. Save & Exit Menu

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



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

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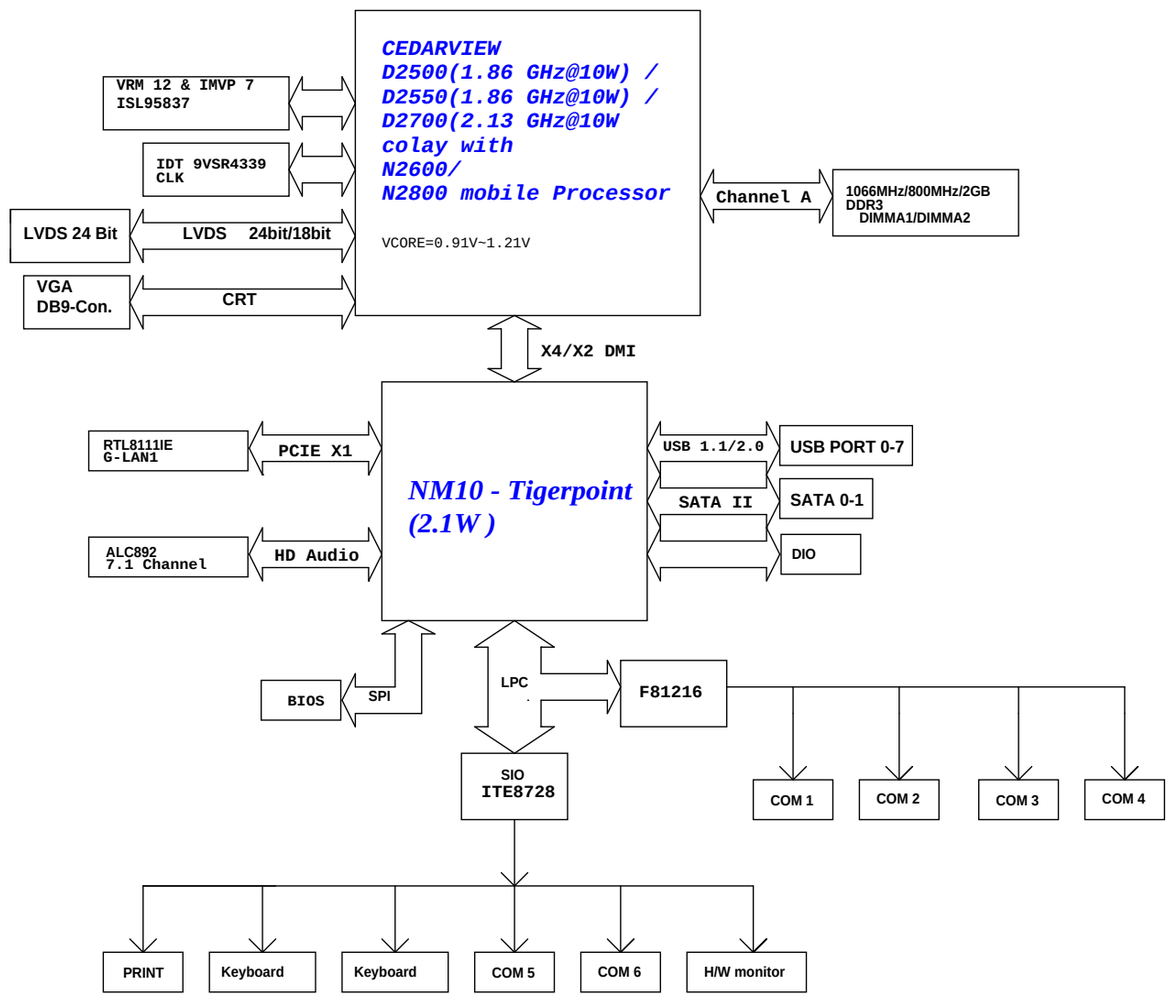
01. System Block

System Block Diagram

- EIC10-SAM(D2550)



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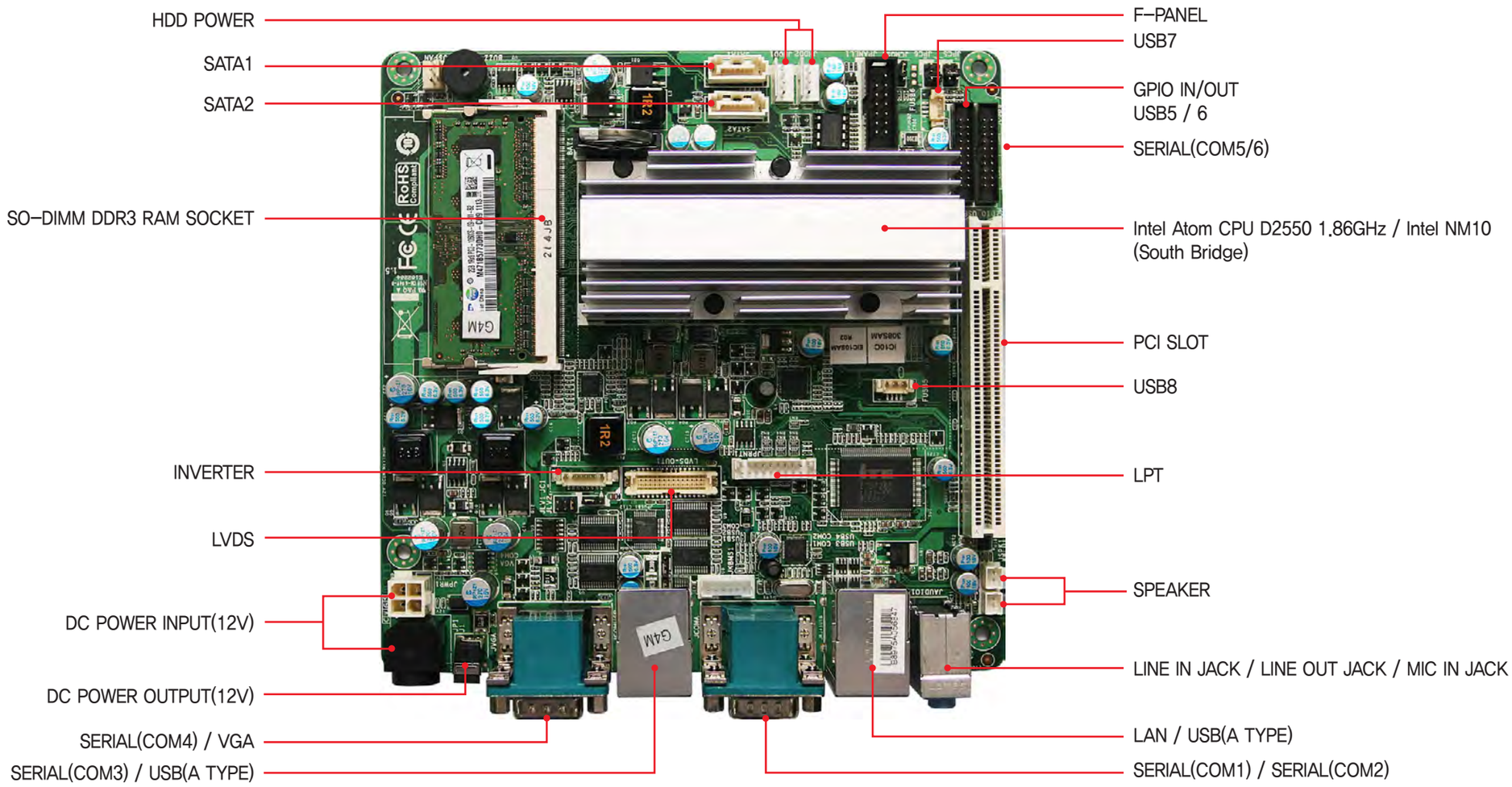
02. Mainboard Overview

Main Chipset & Connector



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02. Mainboard Overview

Main Jumper Setting

BIOS Clear Jumper(JCOMS1)

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

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

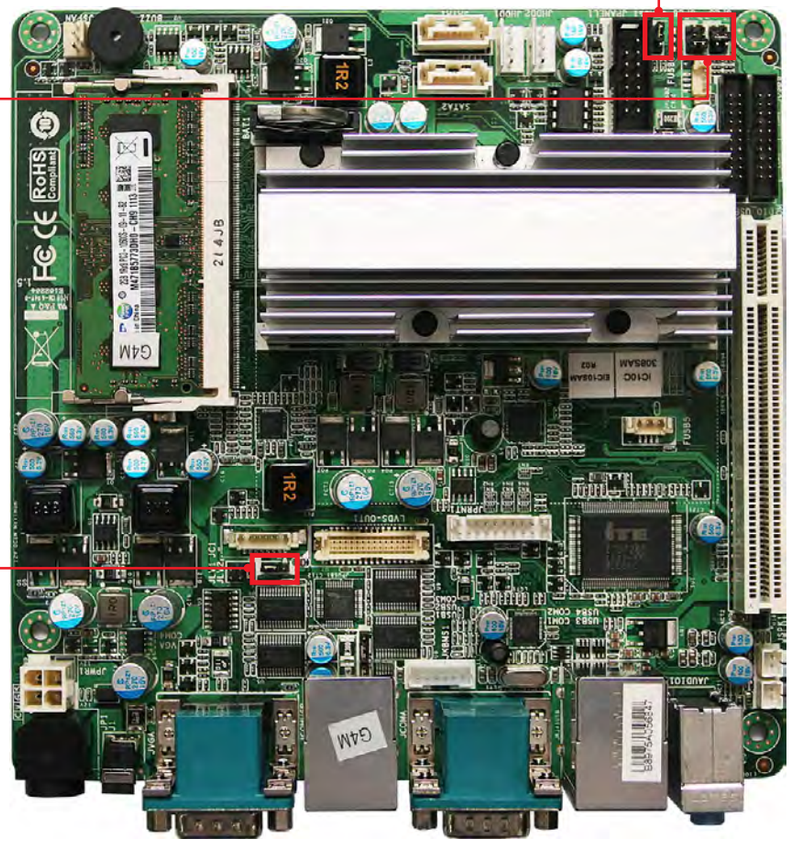
Jumper Setting	Voltage
1 – 2 Short	RI
3 – 4 Short	5V (Default)
5 – 6 Short	12V

– Serial6(JPC6)

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

Inverter Voltage Jumper(JLV2)

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



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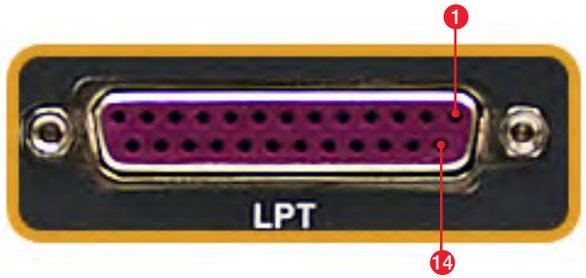
Parallel Communication Port (D-SUB25 Female)



▪Parallel Port (D-SUB25 Female)

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

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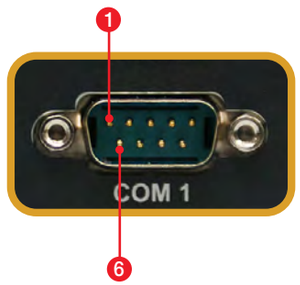
Serial Communication Port (D-SUB9 Male/RJ45)



▪ COM1/2/4(DSUB9 MALE)

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

▪ COM3(RJ45)

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

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USB & LAN Ports

▪ USB Port(TYPE A)

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

▪ LAN Port(RJ45)

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

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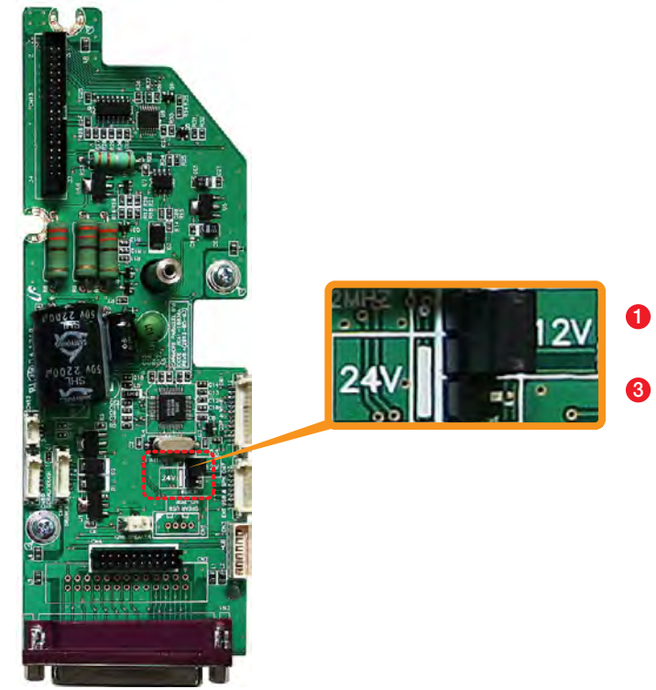
02. Mainboard Overview

Cash Drawer Port / Cash Drawer Power Selection Switch



▪ Cash Drawer Port (RJ11)

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

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

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

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Dc Power Jack

▪ Adapter Output +12v

Pin Num	Description
1	NC
2	+12V
3	GND

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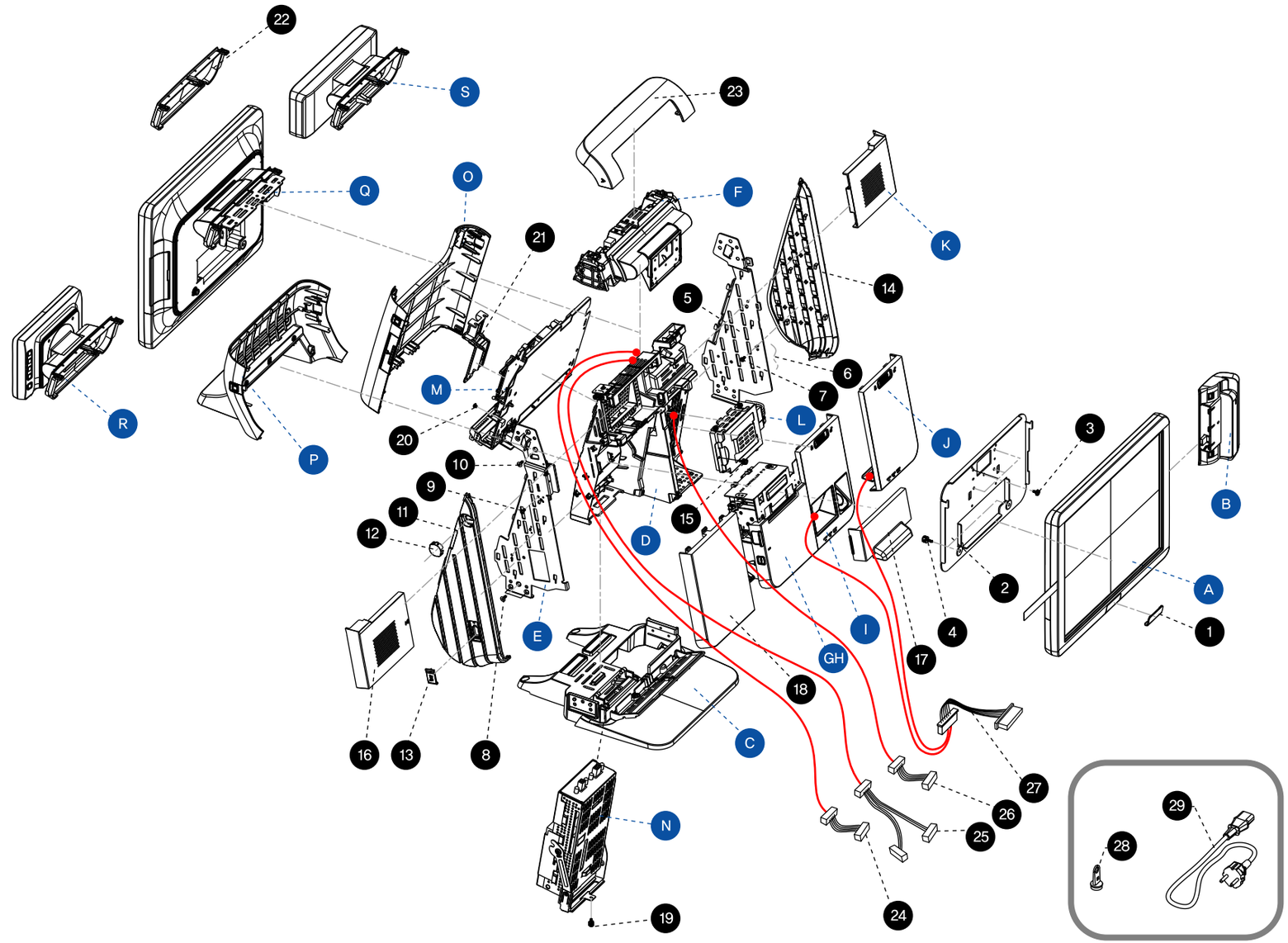
MAIN



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
1	JK72-20551A	PMO-BRAND FRONT	1	Y	OPTION
A	-	ASSY FRONT DISPLAY	1	N	
B	QMR-S730(STD)	ASSY MSR	1	Y	OPTION
2	JK70-20215A	IPR-PLATE REAR	1	Y	
3	S600600005A	SCREW-ASS'Y TAPTITE BH,+,M4,L8	5	Y	
4	S600100056A	SCREW-MACHINE HAND M3,L10	2	Y	
C	-	ASSY FRAME STAND	1	N	
D	-	ASSY FRAME MAIN	1	N	
E	-	ASSY SUPPORT LEFT	1	N	
5	JK70-20200A	IPR-SUPPORT RIGHT	1	Y	
6	JK39-40893A	HW-HARNESS GROUND	1	Y	
7	S600100016A	SCREW-MACHINE:PWH,M3,L4	1	Y	
8	S600100010A	SCREW-MACHINE:FH,+,M4,L10	6	Y	
9	S600200005A	SCREW-TAPPING:PWH,M3,L10	5	Y	
10	S600200036A	SCREW-TAPPING:FH,M4,L10	6	Y	
11	JK72-20519A	PMO-COVER LEFT	1	Y	
12	JK72-20540A	PMO-DUMMY ANT	1	Y	OPTION
13	JK72-20522A	PMO-COVER POWER	1	Y	
14	JK72-20520A	PMO-COVER RIGHT	1	Y	
F	-	ASSY SUPPORT CROSS	1	N	
L	-	ASSY HDD	1	N	
15	S600100037A	SCREW-MACHINE COIN M3,L6	1	Y	
16	JK72-20513A	PMO-COVER HDD	1	Y	
K	-	ASSY COVER SPEAKER	1	N	
GH	QPT-S733(STD)	ASSY PRINTER 3"	1	Y	OPTION
	QPT-S732(STD)	ASSY PRINTER 2"			
17	JK72-20529A	PMO-COVER CUTTER	1	Y	OPTION
18	JK72-20531A	PMO-DUMMY PRINTER	1	Y	OPTION
I	QDK-T705	ASSY DALLAS,5KEY,ONLY	1	Y	OPTION
	QDK-T710	ASSY DALLAS,10KEY,ONLY			
	QSC-700(STD)	ASSY SCANNER,ONLY			
	QSC-SM700(STD)	ASSY SCANNER&SMART CARD			
	QSM-700(STD)	ASSY SMART CARD,ONLY			
	QDK-SC705(STD)	ASSY DALLAS&SCANNER,5KEY			
	QDK-SC710(STD)	ASSY DALLAS&SCANNER,10KEY			
	QDK-SM705(STD)	ASSY DALLAS&SMART CARD,5KEY			
	QDK-SM710(STD)	ASSY DALLAS&SMART CARD,10KEY			
	QDK-SS705(STD)	ASSY DALLAS&SCANNER&SMART CARD,5KEY			
	QDK-SS710(STD)	ASSY DALLAS&SCANNER&SMART CARD,10KEY			
J	JK96-10380A	ASSY-DUMMY FRONT	1	Y	OPTION
N	-	ASSY POWER SMPS	1	N	
19	S600100037A	SCREW-MACHINE COIN M3,L6	1	Y	
M	-	ASSY MAIN BOARD	1	N	
20	S600100016A	SCREW-MACHINE:PWH,M3,L4	2	Y	
21	JK72-20528A	PMO-HOLDER CABLE	1	Y	OPTION
O	JK95-70385A	ASSY COVER REAR	1	Y	
P	JK95-70384A	ASSY COVER BOTTOM	1	Y	
Q	QCD-S7L15NB(STD)	ASSY DUAL DISPLAY(15")	1	Y	OPTION
R	QCD-S7L7NB(STD)	ASSY DUAL DISPLAY(7")	1	Y	OPTION
S	QCD-S7V202(STD)	ASSY CDP,CHARACTER,20×2	1	Y	OPTION
	QCD-S7G256(STD)	ASSY CDP,GRAPHIC,256×32			
22	JK72-20524A	PMO-DUMMY VFD	1	Y	OPTION
23	JK72-20510A	PMO-COVER TOP	1	Y	
24	JK39-40881A	HW-HARNESS MAIN POWER	1	Y	
25	JK39-40882A	HW-HARNESS PRT POWER	1	Y	
26	JK39-40875A	HW-HARNESS HUB	1	Y	
27	JK39-40877A	HW-HARNESS MAIN OSD	1	Y	

NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
28	JK95-70196A	ELA UNIT-HOLDER DALLAS	1	Y	STRAIGHT TYPE
29	JK39-20004A	CBF POWER CORD	1	Y	EUROPE
	JK39-20004B				USA
	JK39-20004C				UK
	JK39-20004D				AUSTRALIA
	JK39-20004E				KOREA
	JK39-20004F				SOUTH AFRICA
	JK39-20004G				ISRAEL
	JK39-20004H				INDIA
	JK39-20004J				ARGENTINA

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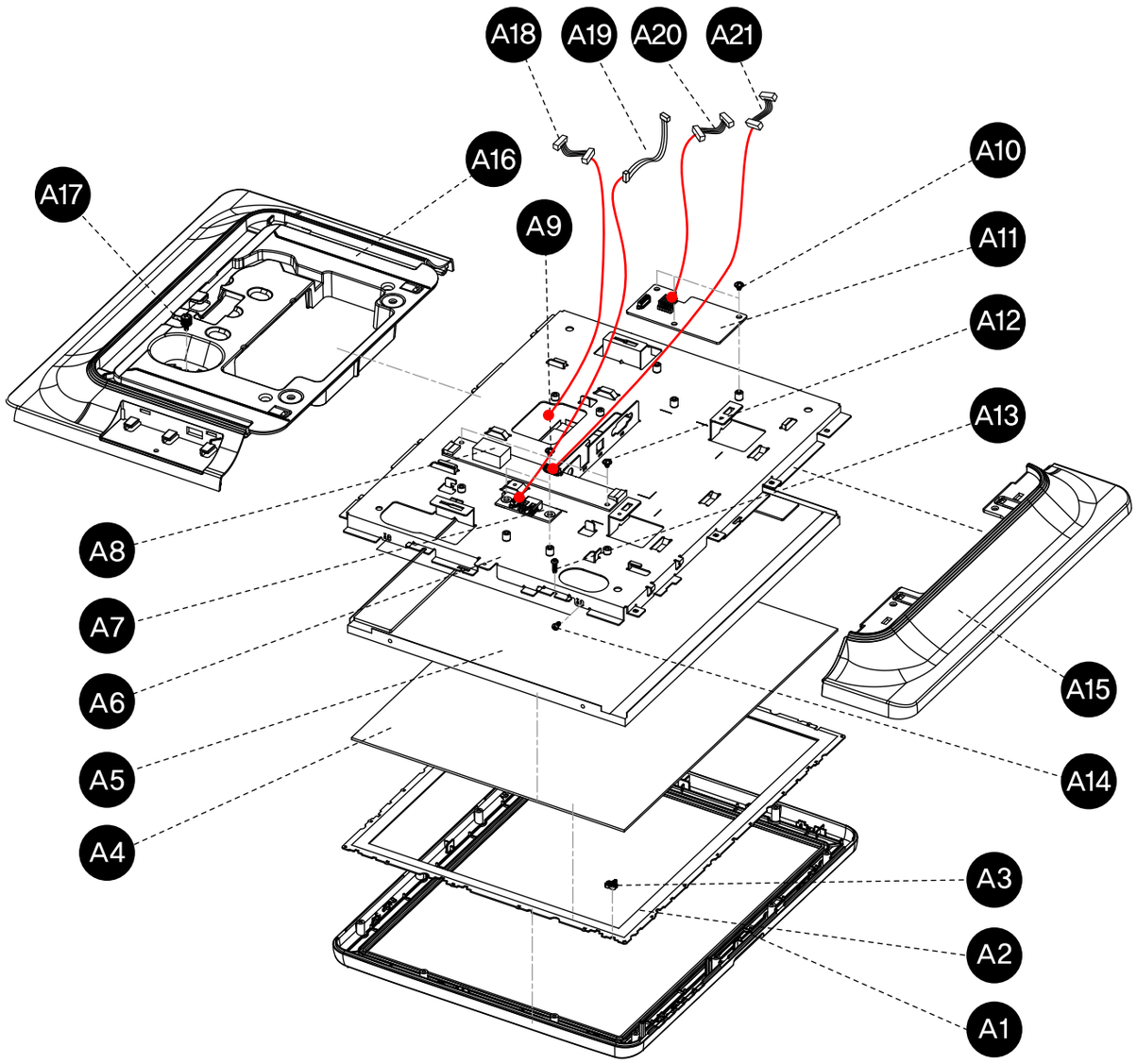
FRONT DISPLAY



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

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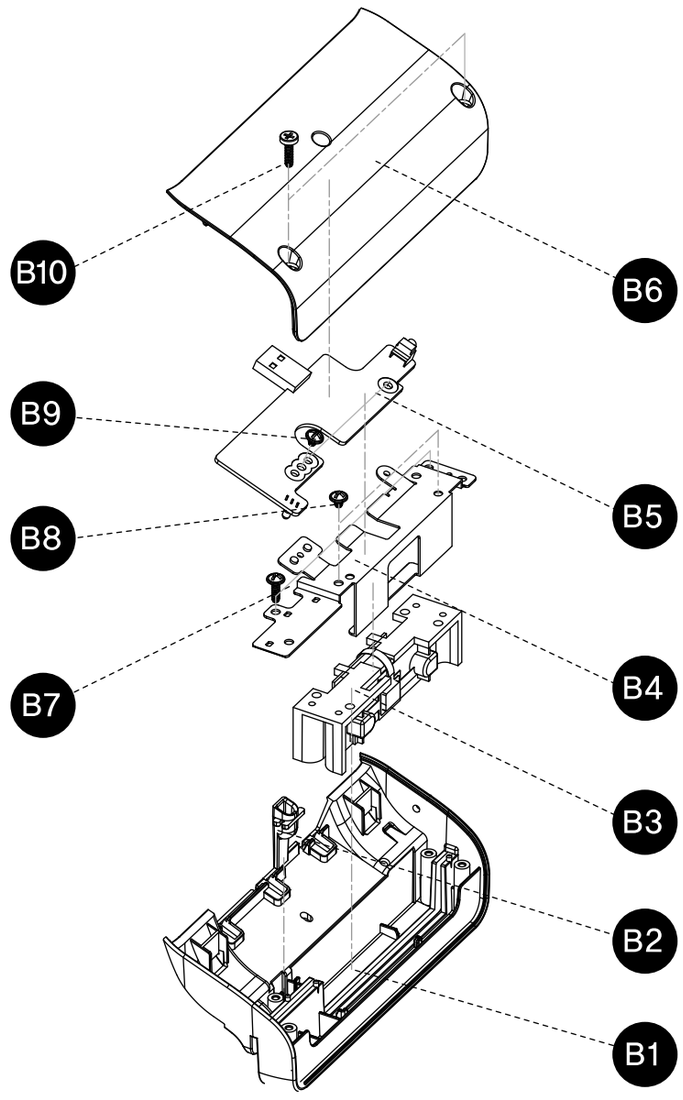
MSR



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

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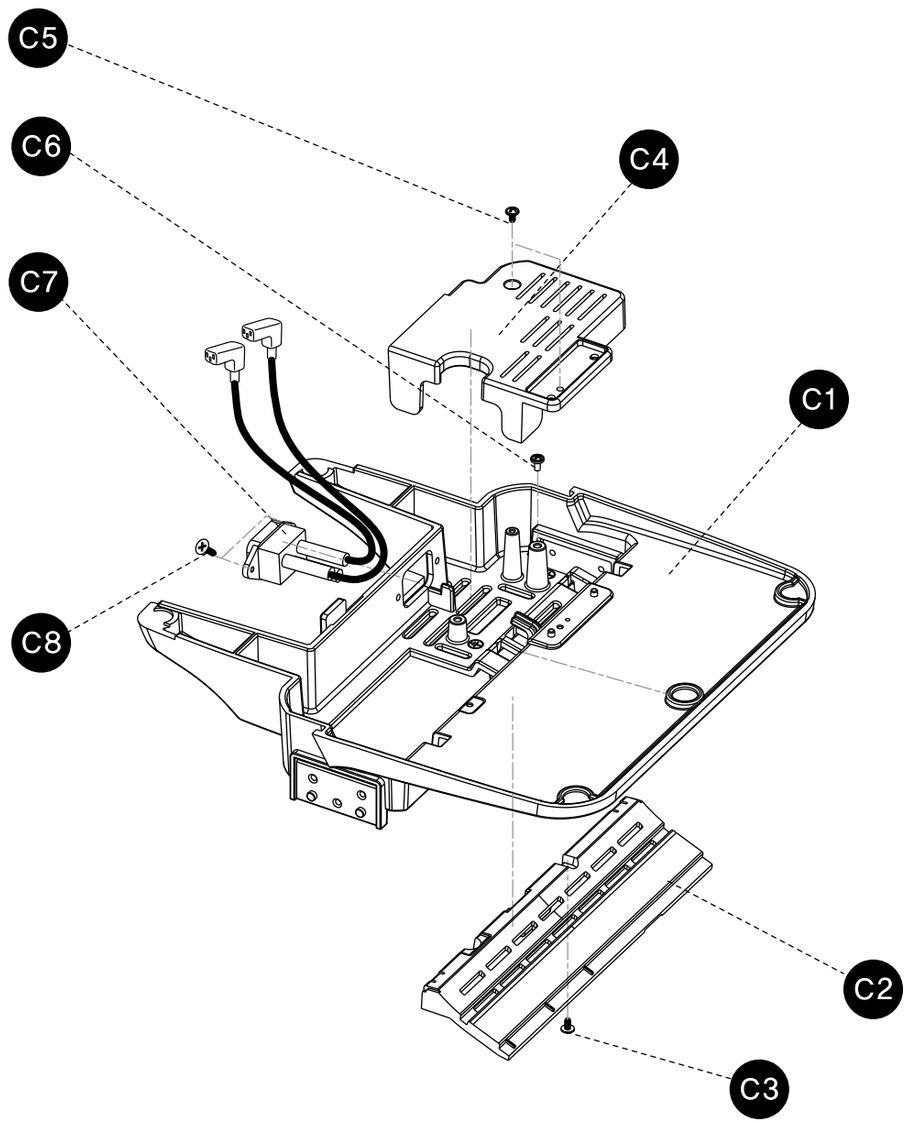
STAND



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

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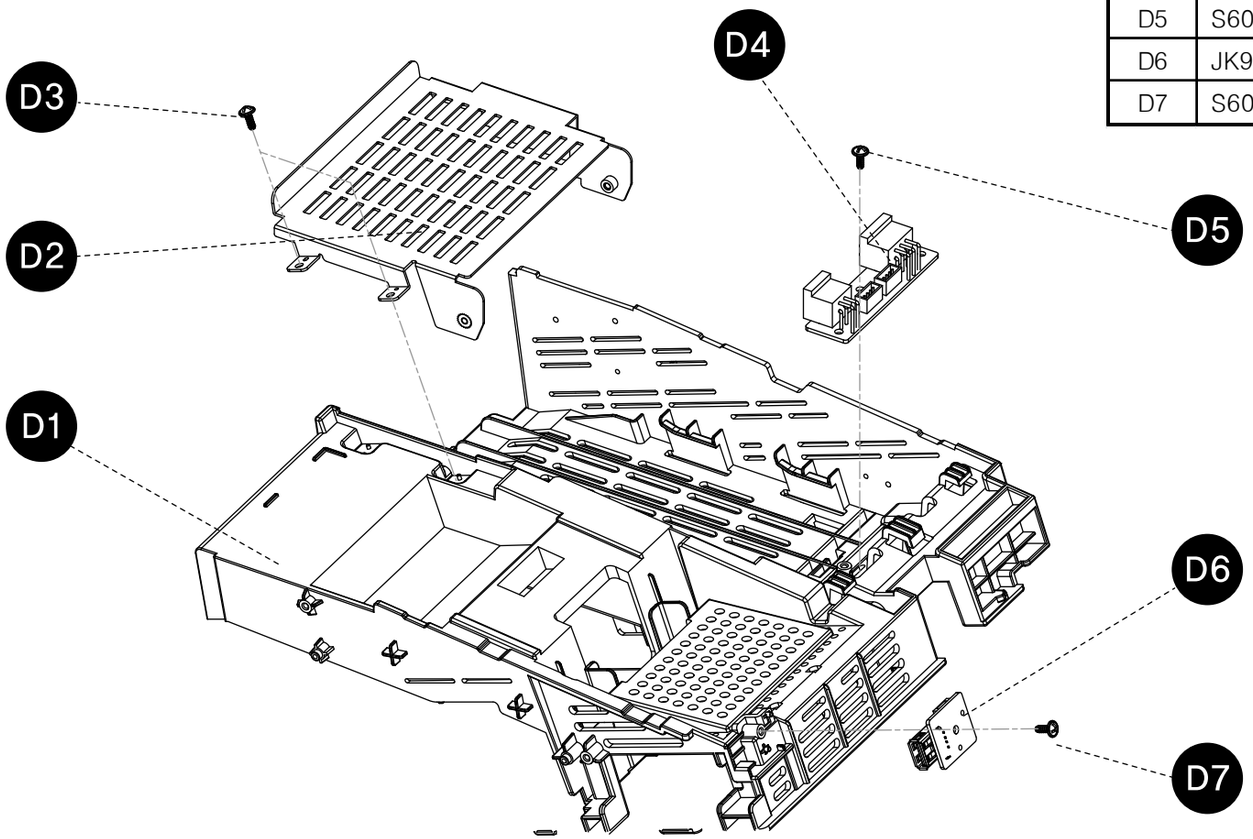
FRAME MAIN

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



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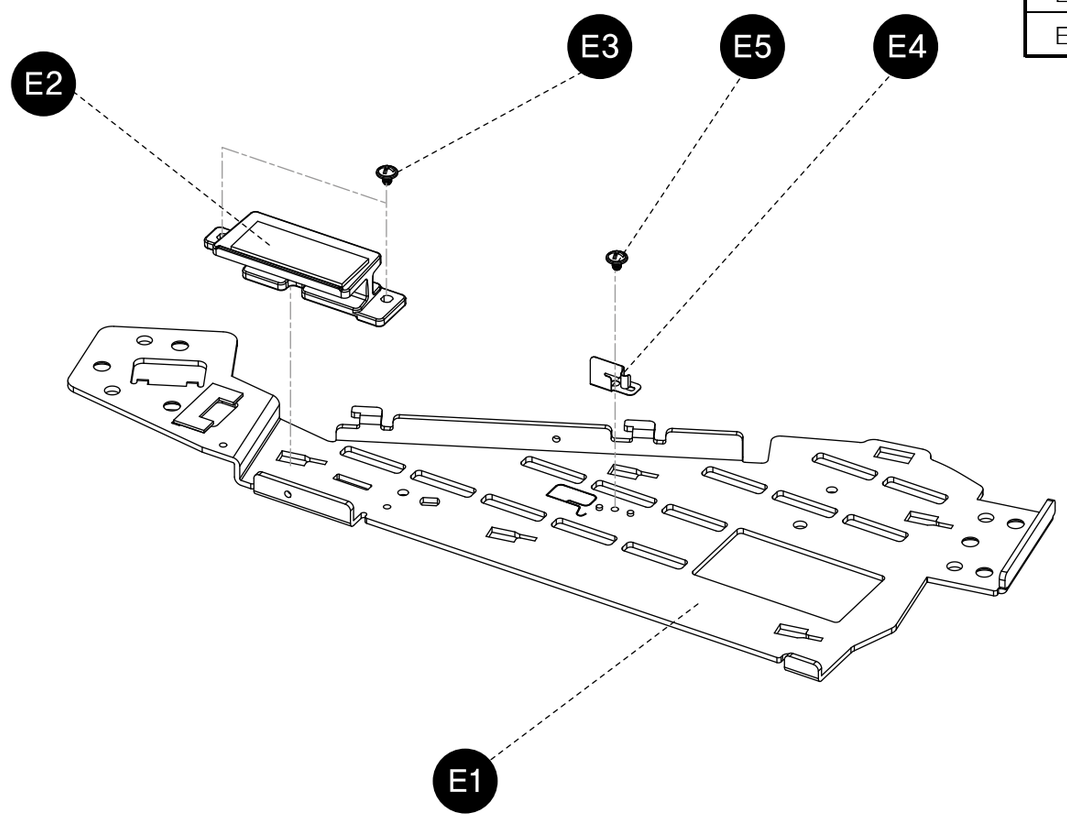
SUPPORT LEFT



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

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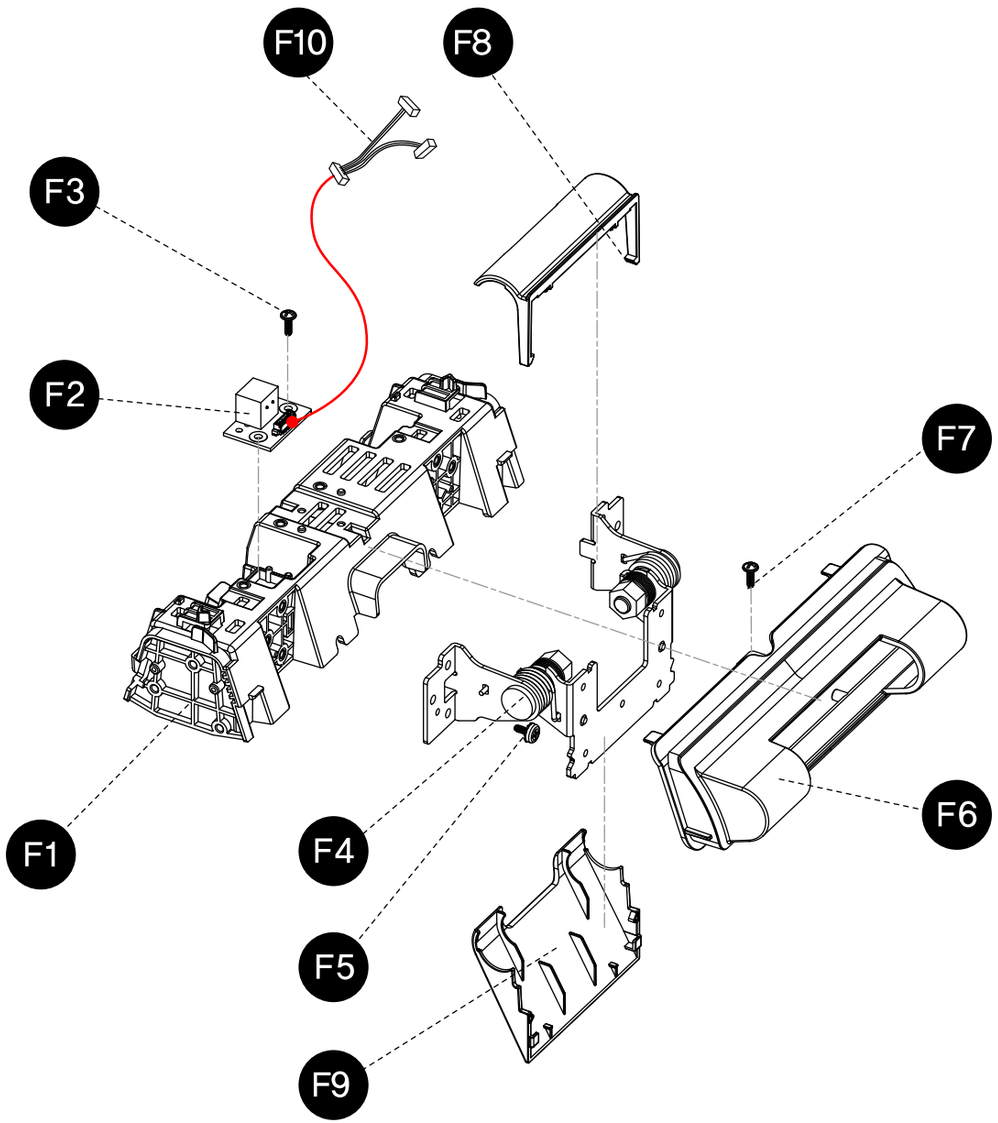
SUPPORT CROSS



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

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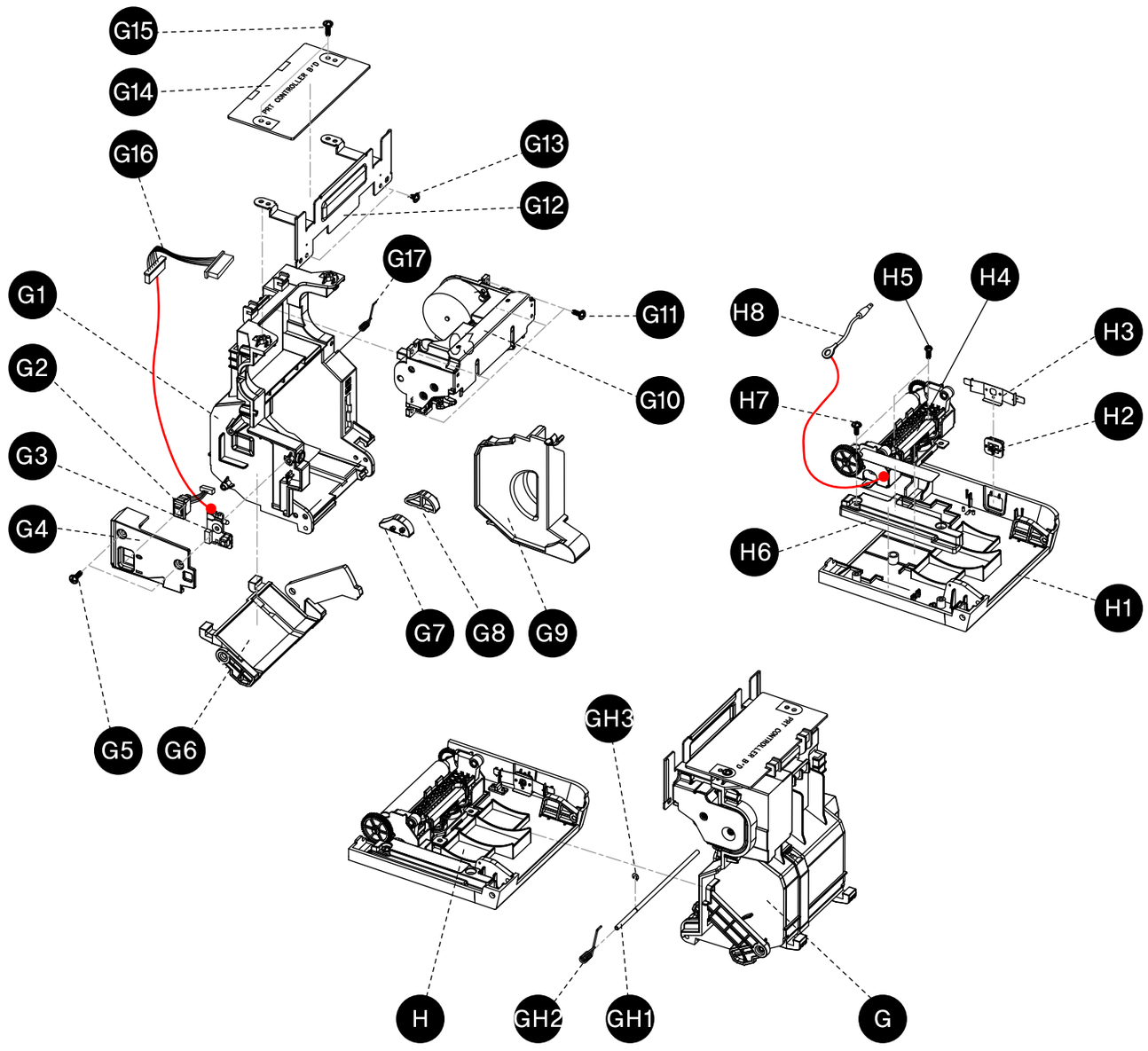
PRINTER



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

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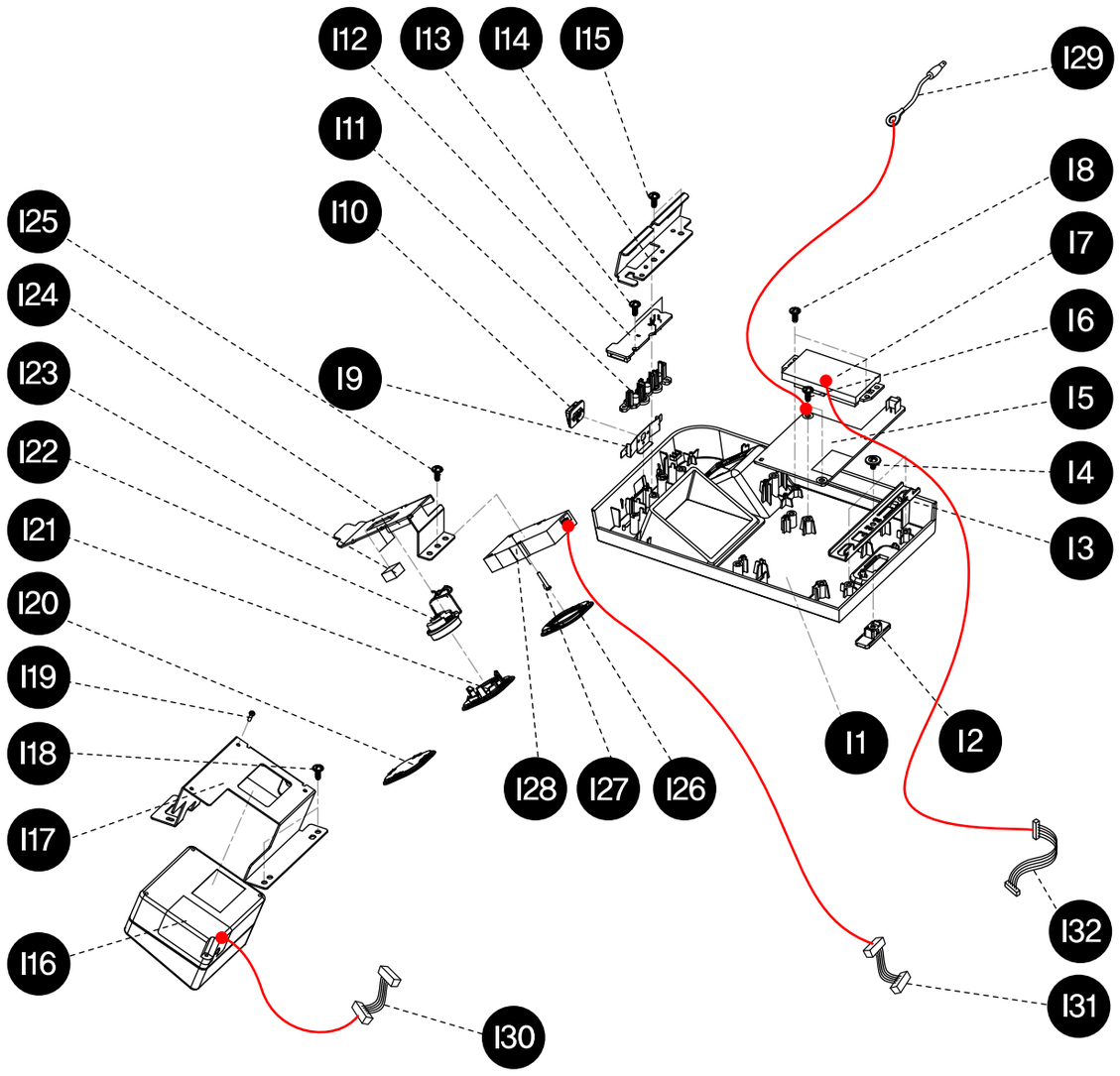
COVER SCANNER



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

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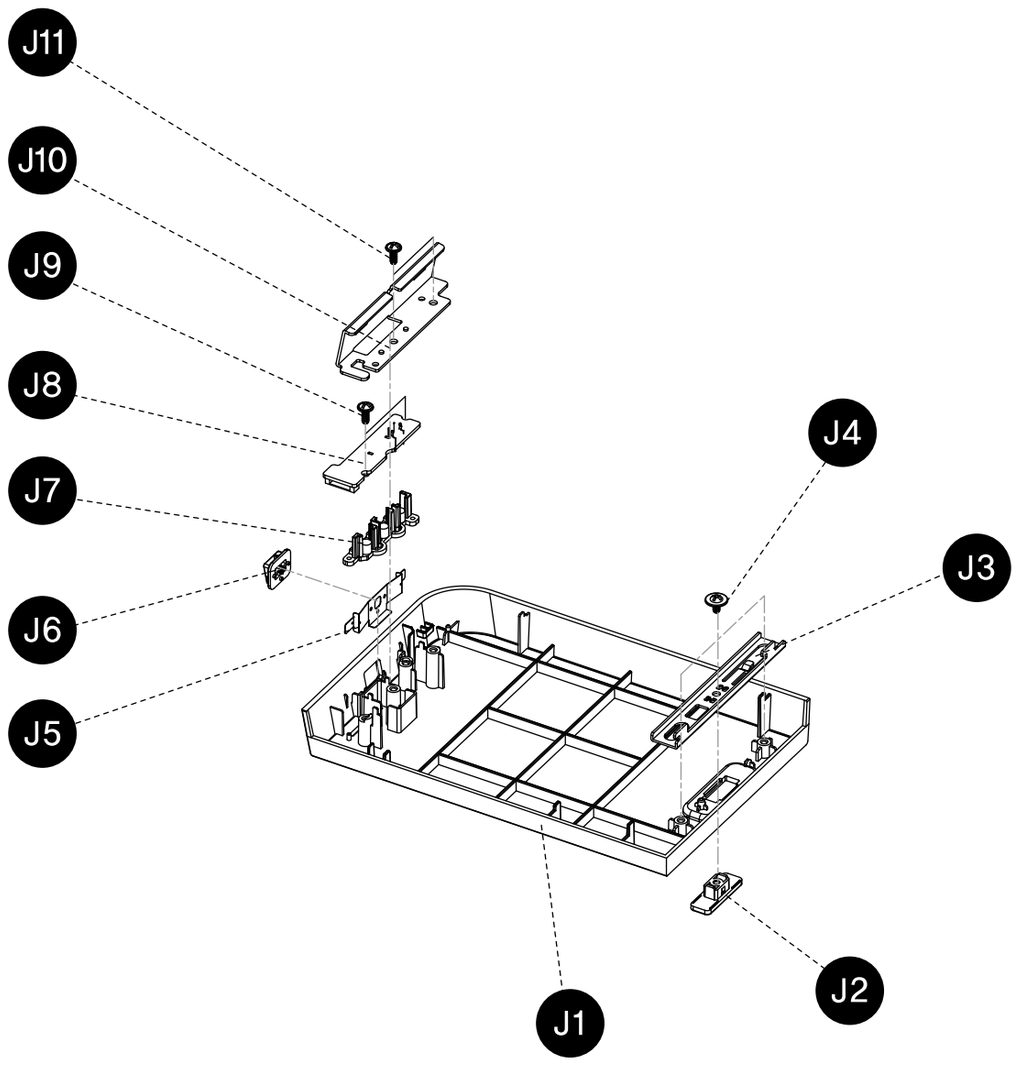
DUMMY FRONT



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

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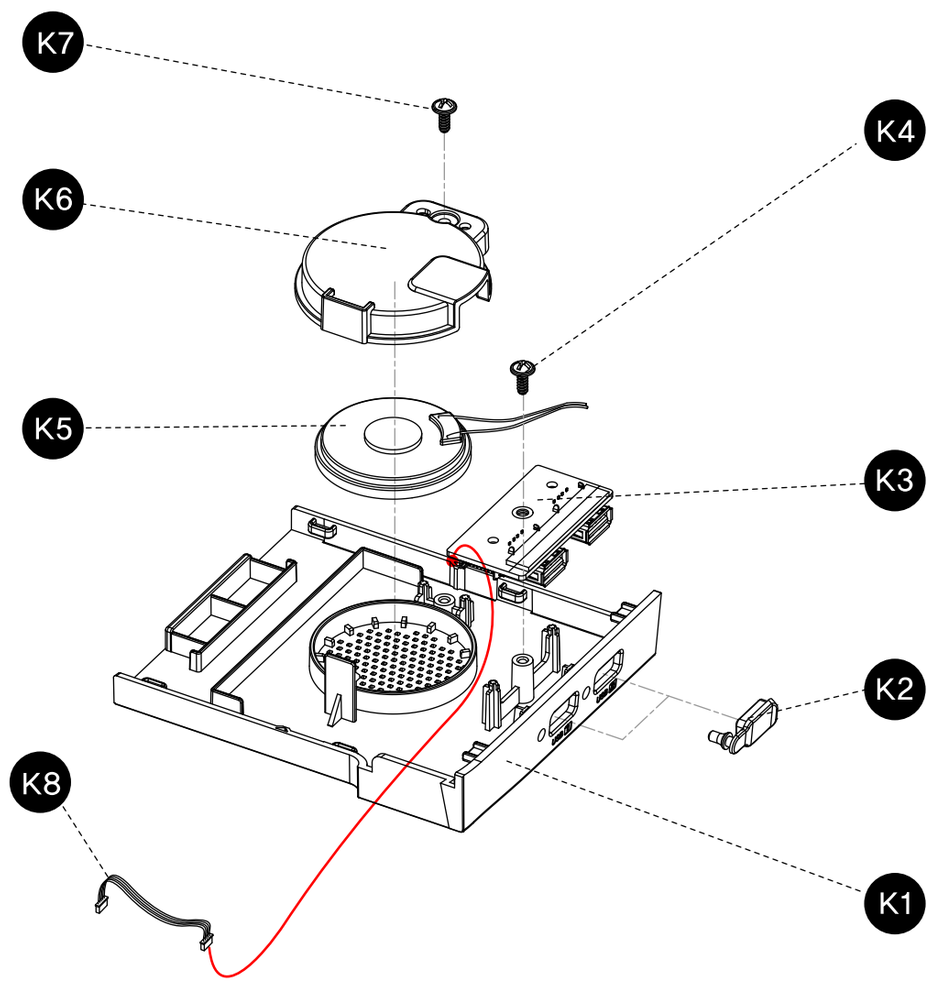
COVER SPEAKER



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

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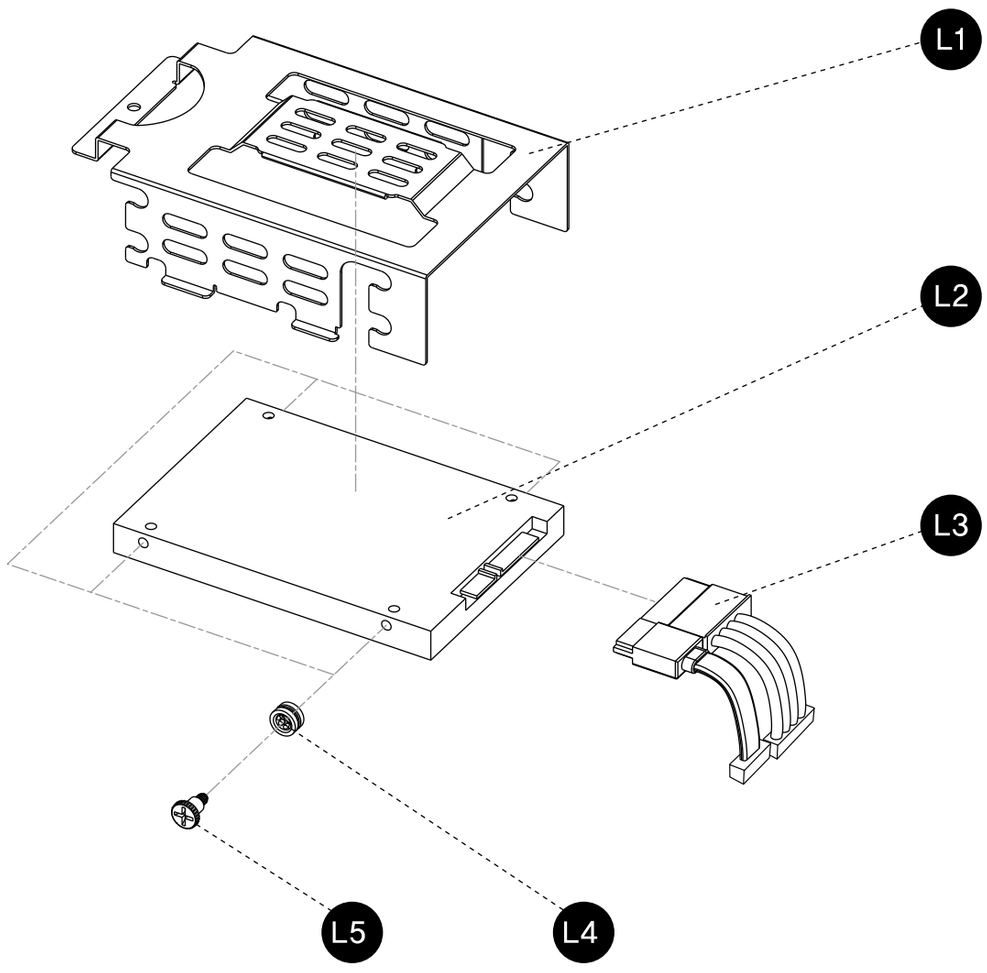
HDD ASSY



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

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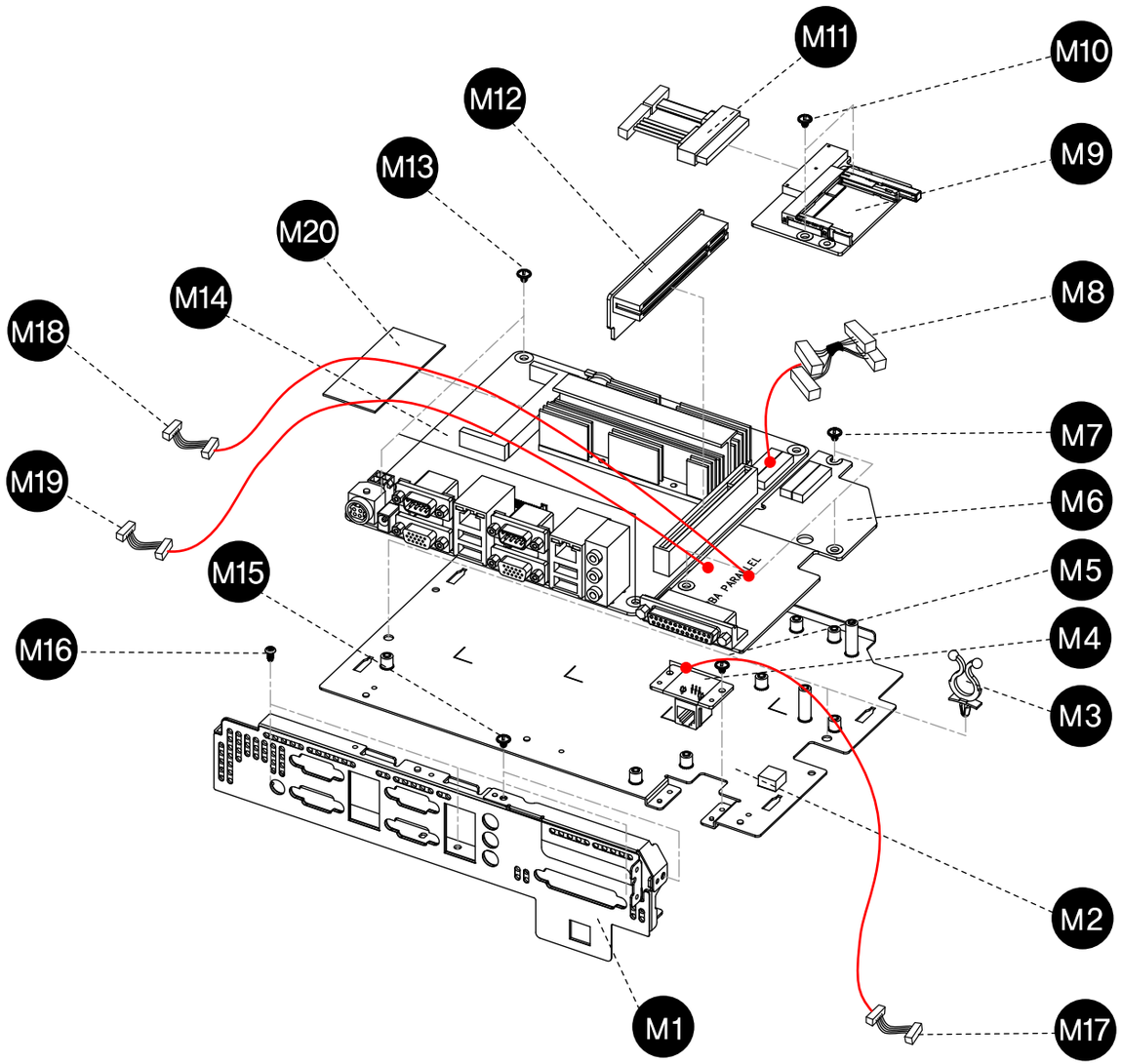
BRKT MAIN



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

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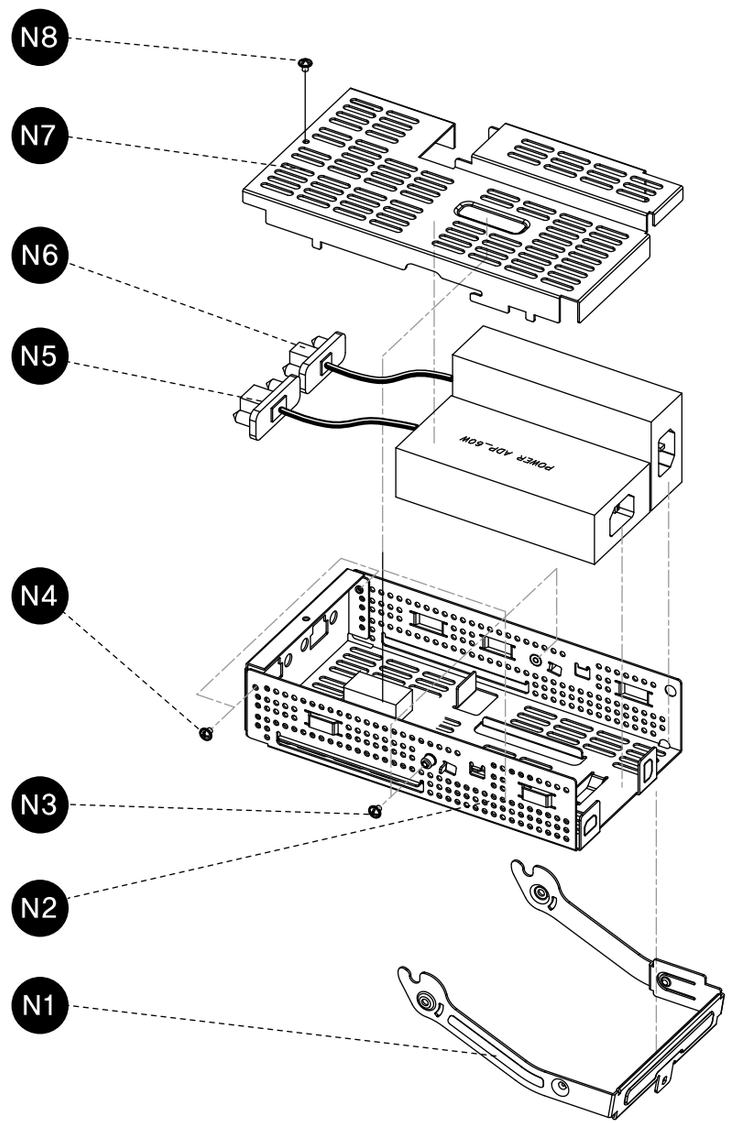
POWER



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

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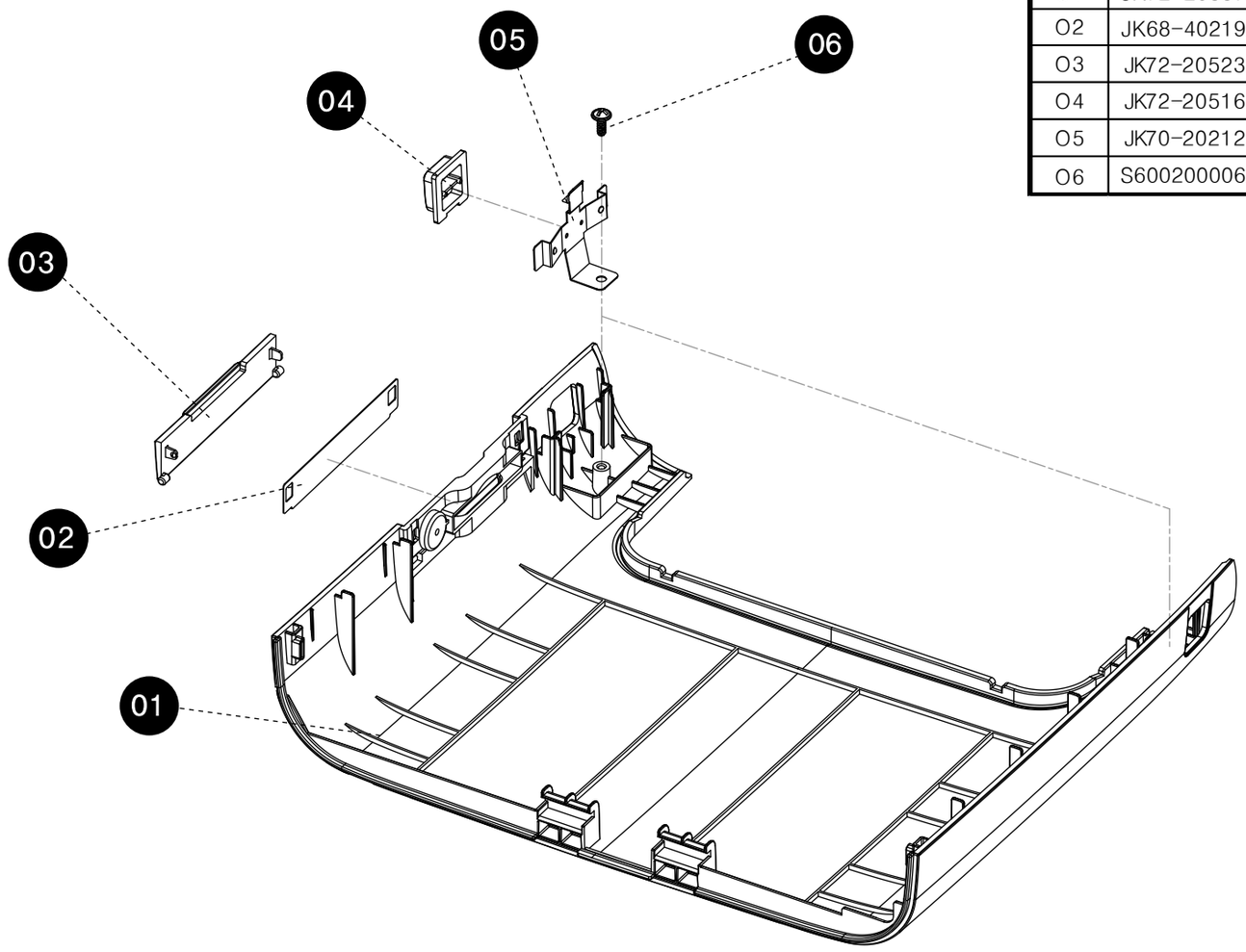
COVER REAR



NO	PART CODE	PARTS NAME	Q'TY	Serviceable	REMARK
01	JK72-20557A	PMO-COVER REAR	1	Y	
02	JK68-40219A	LABEL(R)-CFAST	1	Y	
03	JK72-20523A	PMO-COVER CF	1	Y	
04	JK72-20516A	PMO-LOCK BUTTON	2	Y	
05	JK70-20212A	IPR-BRKT BUTTON	2	Y	
06	S600200006A	SCREW-TAPPING:PWH,2,M3,L8	2	Y	

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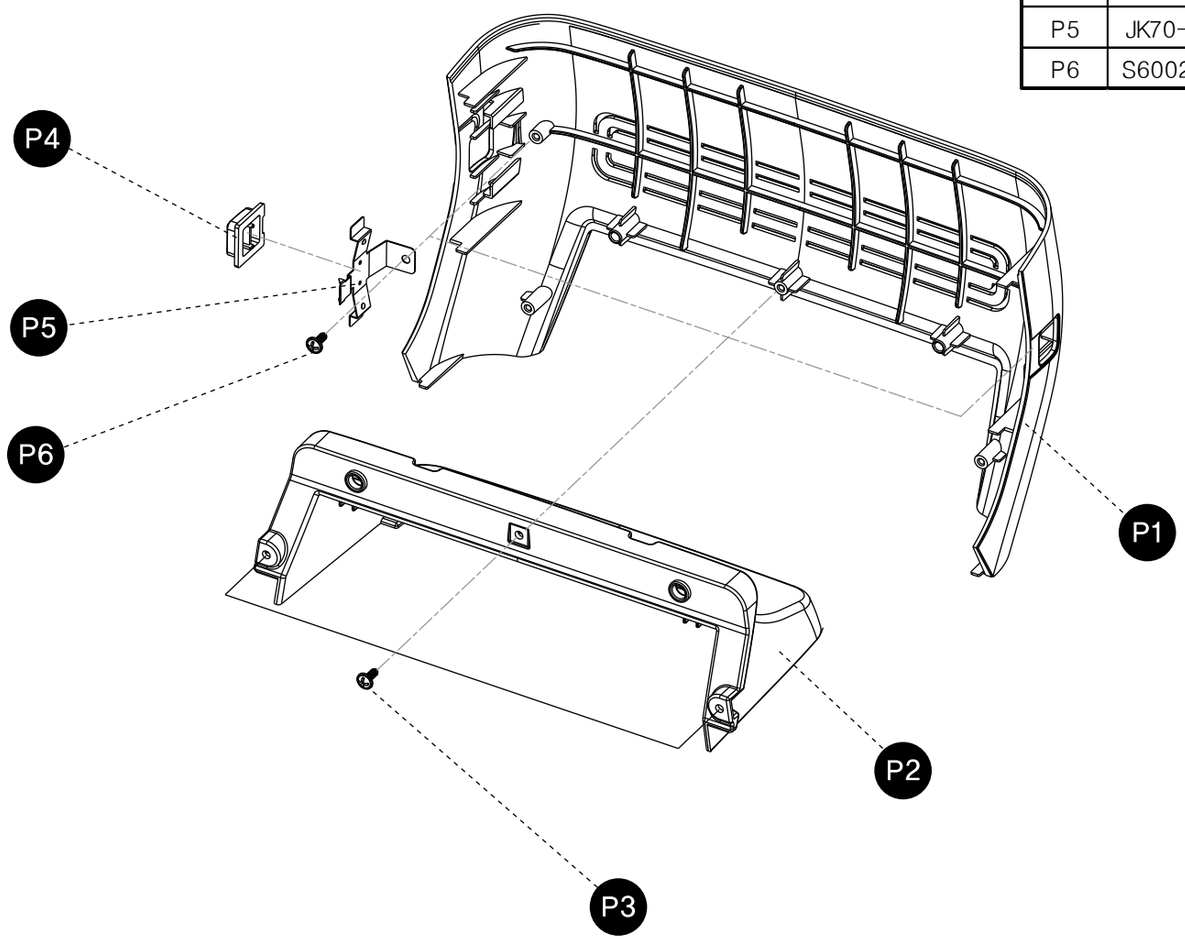
COVER BOTTOM

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



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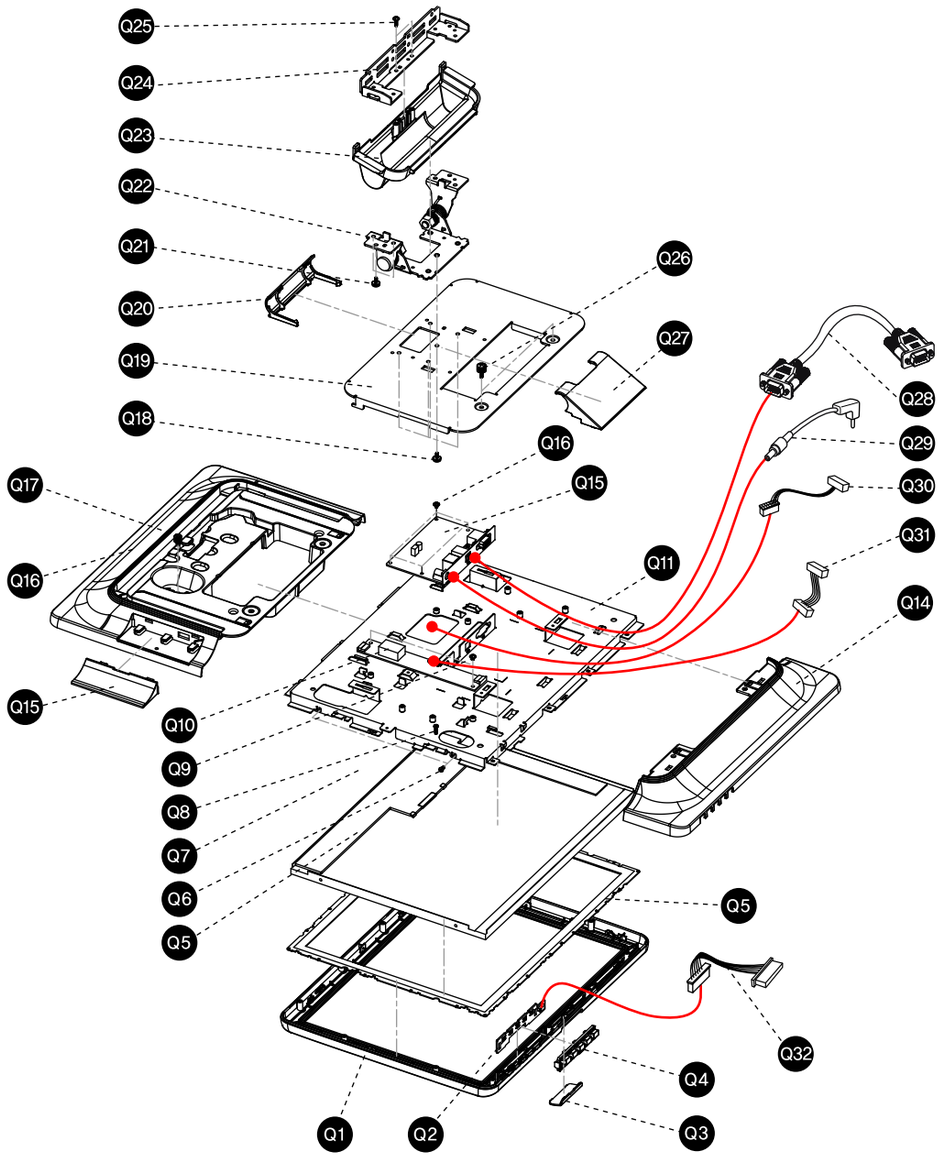
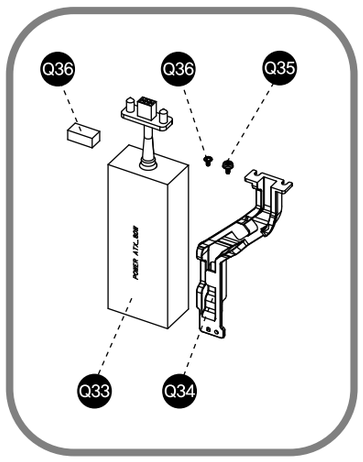
OPTION DUAL





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

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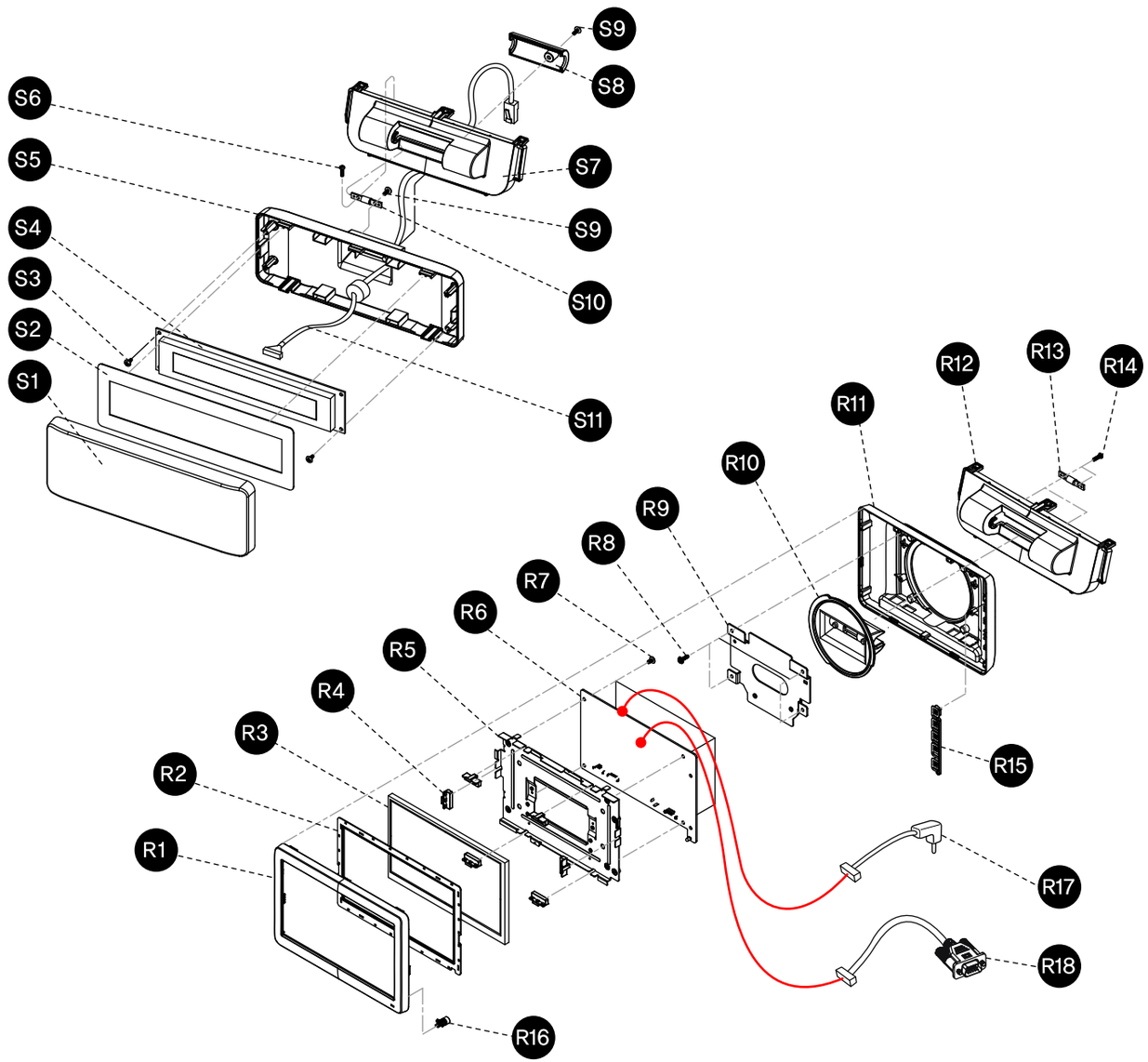
OPTION CDP 7INCH



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

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