



# **Service Manual**

## *Solid POS 70 Series*

\*POS-7012EG-370

\*POS-7015EG-370

*March 2007*

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# 1 Chapter 1 : Troubleshooting

## 1.1 Symptoms and Solutions

| Error Code | Symptom               | Check Points   | Detail Steps   |
|------------|-----------------------|--|--|
| 1001       | NO BOOT with Power On | 1.RAM<br>2.CPU<br>3.MB(2.3.1)  | 1. Check LED Light (Upper Left) should be on<br>2. If yes to item 1, open upper case, check if RAM well plugged on the memory slot<br>3. Check golden finger cleanness, if not clean, use pencil eraser to clean golden finger<br>4. If still fail, replace with another RAM for testing<br>5. If fail, replace with another CPU for testing<br>6. If fail, replace with another mother board for testing<br>7. If fail, RMA system to manufacturer  |
| 1002       | NO POWER              | 1. Power cord<br>2. Power button board (2.3.5)<br>3. Power button cable(2.3.7.8)<br>4. MB (2.3.1)<br>5.Power Supply(2.2.3) | 1. Check Power Cord is well plugged or not<br>2. If yes to item 1, open upper case, check if power button damaged, if yes, replace with another power button board (POS 75) or replace with another MB(POS 72)<br>3. If power button not damaged, check if power button cable to MB well plugged.<br>4. If fail, replace with another power button cable<br>5. If fail, replace with another MB(POS 75) for testing<br>6. If fail, replace with another power supply for testing<br>7. If fail, System RMA to manufacturer |
| 1003       | System HANG Up        | 1.RAM<br>2.CPU<br>3.MB(2.3.1)  | 1. Check golden finger cleanness, if not clean, use pencil eraser to clean golden finger<br>2. If still fail, replace with another RAM for testing<br>3. If fail, replace with another CPU for testing<br>4. If fail, replace with another mother board for testing<br>5. If fail, System RMA to manufacturer  |
| 1004       | LCD Blank             | 1.Bridge Board to LCD Cable(2.3.7.9)<br>2.Bridge Board (2.3.2)<br>3.MB(2.3.1)  | 1. Shut Down Power<br>2. Open upper case, check cable between bridge board and LCD well connected or not. Replace with another LCD cable for testing<br>3. If fail, replace with another bridge board<br>4. If fail, replace with another mother board<br>5. If fail, System RMA to manufacturer   |

| Error Code | Symptom                            | Check Points   | Detail Steps  |
|------------|------------------------------------|--|---|
| 1005       | LCD Turn Black                     | 1. Inverter to LCD cable,<br>2. Inverter to MB cable, (2.3.7.1)<br>3. Inverter board<br>4. MB(2.3.1)<br>5. LCD(2.1.3)              | 1. Shut down power<br>2. Open upper case, check cable between inverter and LCD well connected or not.<br>4. If fail, check cable between inverter and mother board well connected or not. Replace with another inverter and MB cable for testing<br>5. If fail, replace with another inverter board for testing<br>6. If fail, replace with another mother board for testing<br>7. If fail, System RMA to manufacturer  |
| 1006       | HDD Unstable                       | 1. HDD (2.5.2)<br>2. HDD Cable (2.3.7.5)<br>3. MB(2.3.1)   | 1. Shut down power<br>2. Open HDD Cover, check HDD 80pin cable and HDD power cable well connected or not<br>3. If fail, replace with another HDD for testing<br>4. If fail, open upper case, check cable between HDD and Mother board well connected or not<br>5. If fail, replace with another mother board for testing<br>6. If fail, system RMA to manufacturer  |
| 1007       | Error Message: CMOS checksum error | 1. On Board Battery(2.3.6)<br>2. MB(2.3.1)   | 1. Shut down power<br>2. Open upper case, check on board battery well connected / damage or not<br>3. If fail, replace with another battery<br>4. If fail, replace with another mother board<br>5. If fail, system RMA to manufacturer  |
| 1008       | Touch Fail                         | 1. Driver (NA)<br>2. Control board to MB cable (2.3.7.2)<br>3. Touch control board(2.3.4)<br>4. MB(2.3.1)<br>5. Touch panel(2.1.2) | 1. Reinstall touch driver, working mode select "PnP"<br>2. If fail, shut down power<br>3. Open upper case, check if cable between touch panel and touch control board well connected.(Replace the cable with touch panel at item 10)<br>4. If fail, check if cable between touch control board and MB well connected. Replace with another touch control board to MB cable<br>5. Check if switch (# 3) on touch control board at "On" position<br>6. If fail, check M/B JP10 jumper setting to 2-3<br>7. If fail, replace with another touch control board<br>8. If fail, replace with another M/B for testing<br>9. Replace with another touch panel for testing<br>10. RMA system to manufacturer |

| Error Code | Symptom                 | Check Points   | Detail Steps  |
|------------|-------------------------|--|---|
| 1009       | Boot Up K/B Malfunction | 1. 100PIN Cable<br>2. MB(2.3.1)                      | <ol style="list-style-type: none"> <li>1. Shut down power</li> <li>2. Check keyboard cable connection</li> <li>3. If fail, replace with another keyboard for testing</li> <li>4. If fail, open upper case, check 100 pin cable between IO board and MB well connected or not</li> <li>5. If fail, replace with another MB for testing</li> <li>6. If fail, system RMA to manufacturer</li> </ol>  |
| 1010       | PS/2 Mouse Fail         | 1. 100PIN Cable<br>2. MB(2.3.1)                      | <ol style="list-style-type: none"> <li>1. Shut down power</li> <li>2. Check mouse cable connection</li> <li>3. If fail, replace with another mouse</li> <li>4. If fail, open upper case, check 100 pin cable between IO board and MB well connected or not</li> <li>5. Replace with another MB for testing</li> <li>6. If fail, system RMA to manufacturer</li> </ol>   |
| 1011       | MSR Fail                | 1. MSR to MB Cable(2.5.4)<br>2. MB(2.3.1)            | <ol style="list-style-type: none"> <li>1. Shut down power</li> <li>2. Open upper case, check if MSR cable goes underneath inverter and well connected to MB location (CN12). Note: the cable must go through EMI chassis breach</li> <li>3. If fail, replace with another MSR</li> <li>4. If fail, RMA MSR to manufacturer</li> </ol>   |
| 1012       | COM Port Fail           | 1. Jumper setting<br>2. 100PIN cable<br>3. MB(2.3.1) | <ol style="list-style-type: none"> <li>1. Shut down power</li> <li>2. Move to Bottom side, open jumper setting cover, check if jumper setting same with default setting chart. Note: If device connector is with voltage, jumper setting needs to change to 5V or 12V based on different device definition</li> <li>3. If fail, open upper case, check 100pin cable to MB well connected or not</li> <li>4. If fail, replace with another MB for testing</li> <li>5. If fail, RMA system to manufacturer</li> </ol> |
| 1013       | USB Fail                | 1. Device Check<br>2. USB cable<br>3. MB(2.3.1)      | <ol style="list-style-type: none"> <li>1. Shut down power</li> <li>2. Check device cable to USB port well connected or not</li> <li>3. If fail, replace with another device</li> <li>4. If fail, open upper case, check USB Cable to MB location (CN11) well connected or not</li> <li>5. If fail, replace with another MB for testing</li> <li>6. If fail, RMA system to manufacturer</li> </ol>   |

## 1.2 BIOS Upgrade

### 1. Boot the system with a bootable floppy disk

a. A Windows 98/ME startup disk can be used

b. Or you can create an MS-DOS startup disk under Windows XP, to create an MS-DOS startup disk under

Windows XP, right click on the 3 ½ floppy drive icon under my computer and select format. On the format

dialog box, check the box next to “Create MS-DOS startup disk” and then click the start button to make a

MS-DOS startup disk..

2. Once you boot off of the bootable floppy disk, replace the bootable floppy disk with the floppy disk containing

the bios files.

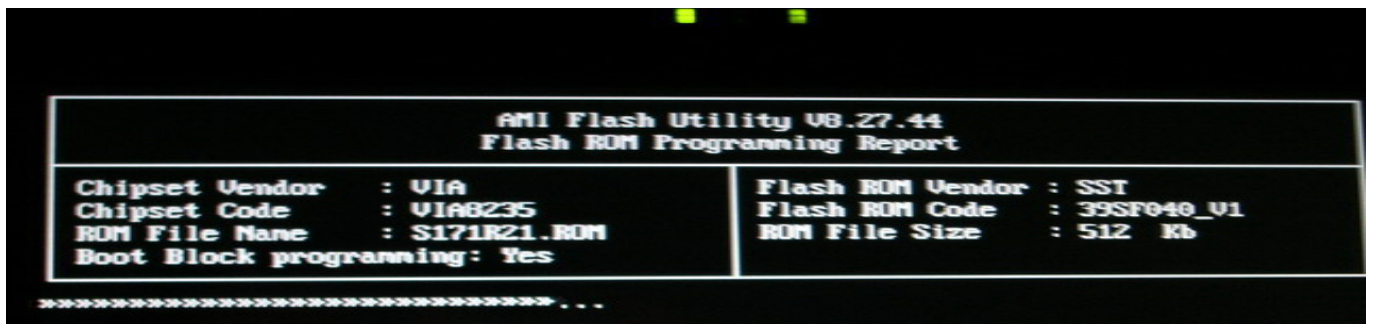
3. To update the BIOS using the example above you would type the following command.

a. A:\F82744 s171r21.rom, then push the enter key.

F82744.exe = BIOS FLASH UTILITY

A:\>f82744 s171r21.rom

b. Follow the onscreen prompts to update the BIOS.



4. DO NOT TURN OFF THE POWER or RESET/REBOOT the SYSTEM before the BIOS update is completed, stopping the BIOS UPATE before it is completed will cause the system to become non-functional.



5. Reboot the system once the bios update has been completed.

Note:



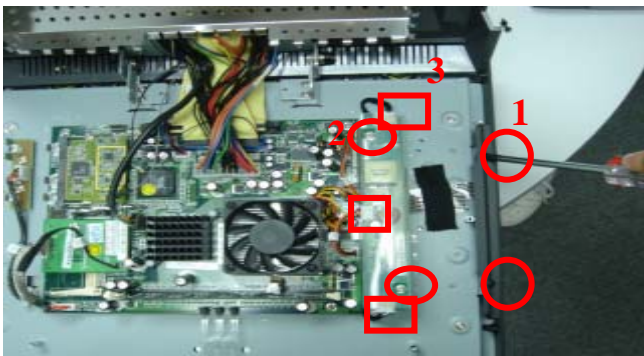
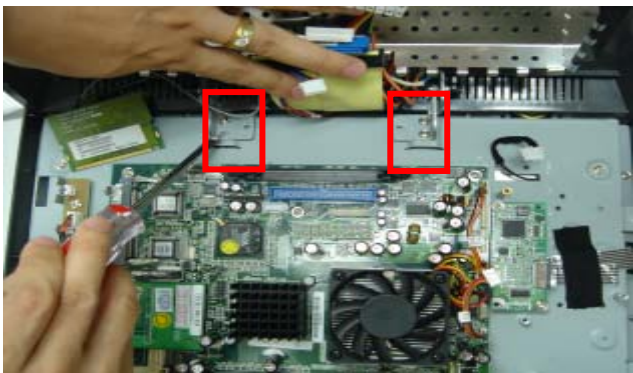
The BIOS contained here are exclusively for POS72/75 only. manufacturer assumes no responsibility for any damages resulting from improper use or lack of technical expertise.


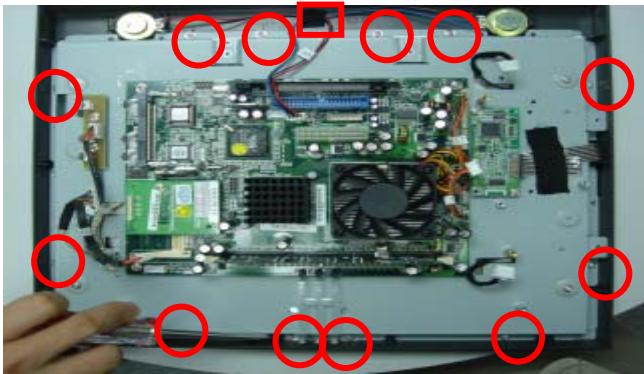
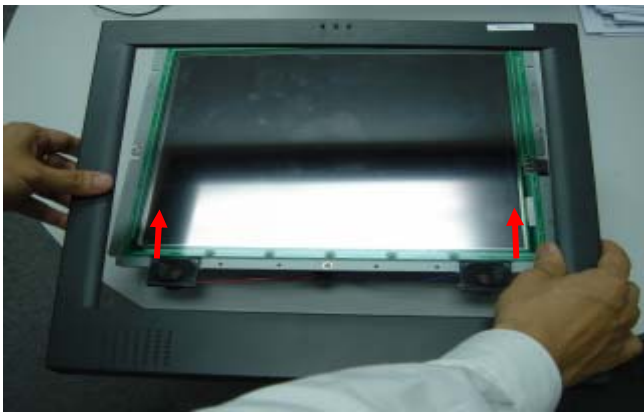


## 2 Chapter 2 : Disassembly , Assembly


### 2.1 Main Unit



#### 2.1.1 Front Bezel + Sponge Bezel

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | <ol style="list-style-type: none"><li>1. Use screw driver to open upper case.</li><li>2. 2 screws needs to be removed</li></ol>                                     |
| 2    |   | <ol style="list-style-type: none"><li>1. Remove 2 screws</li><li>2. Remove cover bracket</li></ol>  |
| 3    |  | <ol style="list-style-type: none"><li>1. Remove 2 screws from MSR cover</li><li>2. Remove 2 screws from inverter</li><li>3. Remove 3 cables from inverter</li></ol> |
| 4    |  | <ol style="list-style-type: none"><li>1. Remove 4 screws</li></ol>  |


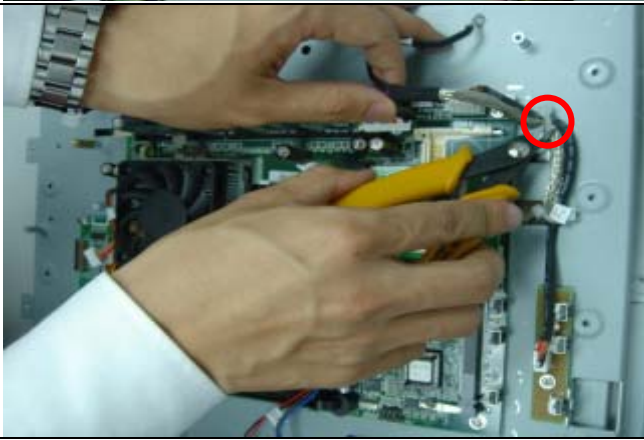
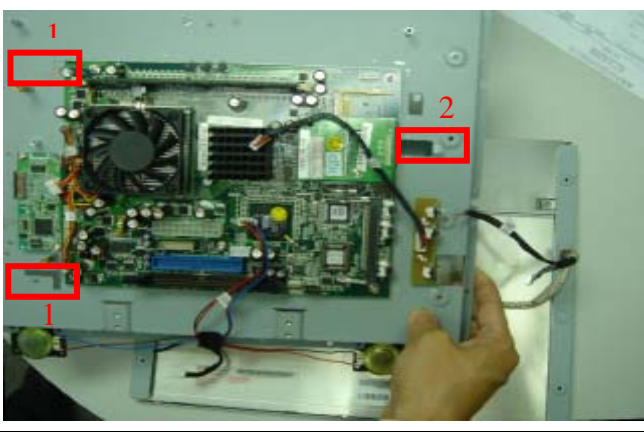
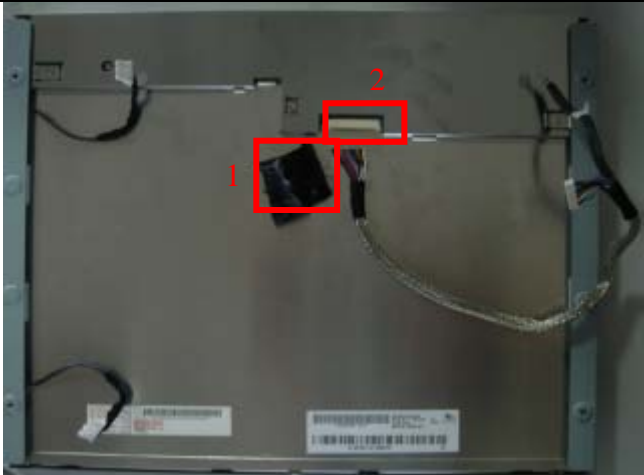
| Item | Photo   | Description   |
|------|---|---|
| 5    |    | 1. Separate front and back cover  |
| 6    |   | 1. Remove 12 screws<br>2. Remove speaker tape                           |
| 7    |  | 1. Turn to front side<br>2. Remove and replace with another front bezel |

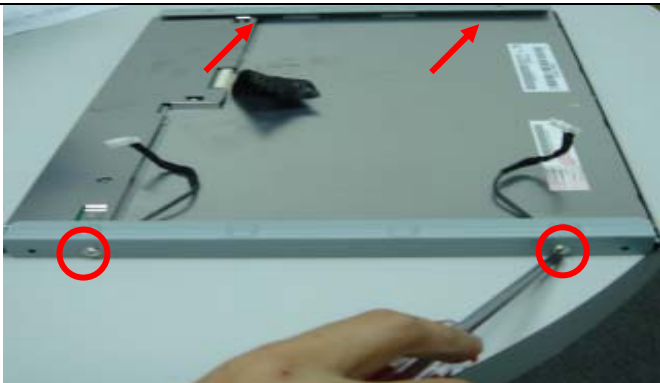
#### 2.1.2 Touch Panel + Touch Screen Holder

| Item | Photo   | Description   |
|------|---|---|
| 1    |  | 1. Follow 2.1.1 item 1 to 7 turn to Front side and remove front bezel<br>2. Remove 3 screws |

| Item | Photo  | Description   |
|------|--|---|
| 2    |   | 1. Turn to back side and remove tape  |
| 3    |  | 1. Turn to front side and remove touch panel module<br>2. Replace with another touch panel module |

### 2.1.3 LCD, AUO 15" 1024 x 768

| Item | Photo   | Description  |
|------|---|--|
| 1    |    | <ol style="list-style-type: none"> <li>1. Follow 2.1.2 item 1 to item 3 (action 1)</li> <li>2. Turn to back side</li> <li>3. Remove 4 screws</li> </ol>    |
| 2    |   | <ol style="list-style-type: none"> <li>1. Cut plastic string</li> </ol>  |
| 3    |  | <ol style="list-style-type: none"> <li>1. Remove 2 inverter cables</li> <li>2. Remove LCD cable from LCD chassis</li> <li>3. Remove LCD chassis</li> </ol> |
| 4    |  | <ol style="list-style-type: none"> <li>1. Remove tape</li> <li>2. Remove LCD cable</li> </ol>  |


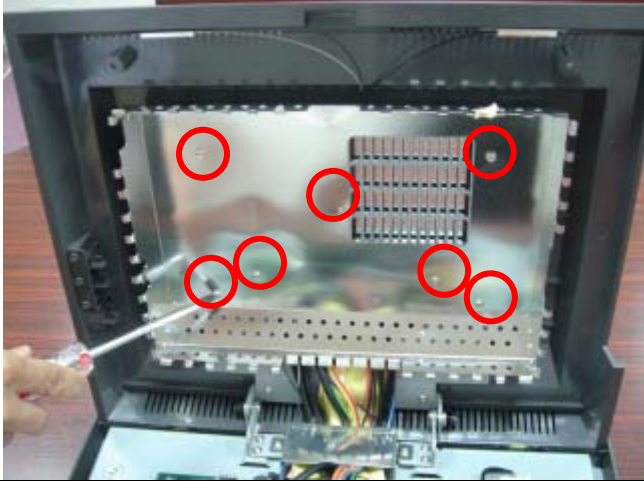
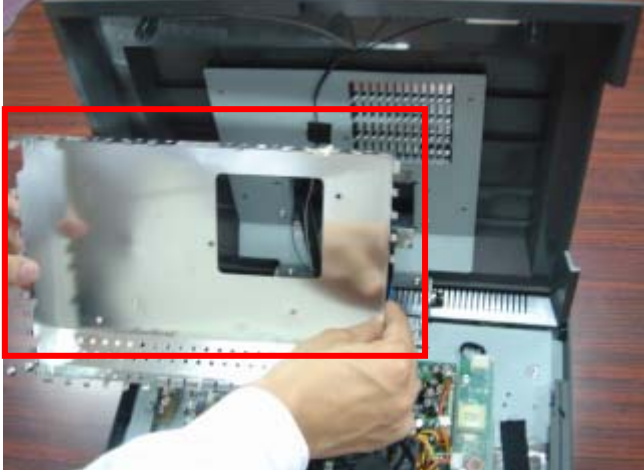
| Item | Photo   | Description   |
|------|---|---|
| 5    |  | <ol style="list-style-type: none"> <li>1. Remove 2 screws from left LCD holder</li> <li>2. Remove 2 screws from right LCD holder</li> <li>3. Remove and replace with another LCD</li> </ol> |

2.1.4 MSR (Refer to 2.5.4)



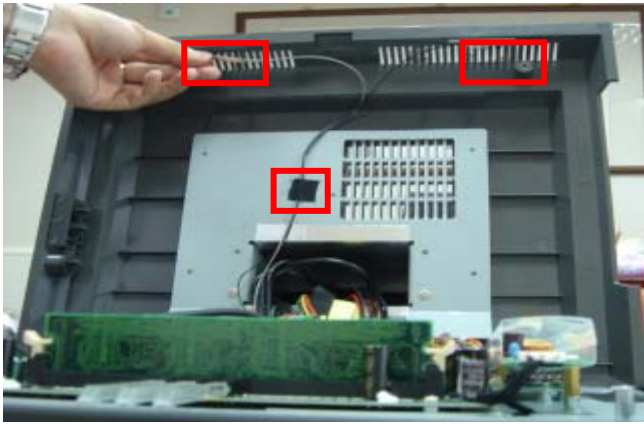

2.1.5 Mother Board (Refer to 2.3)




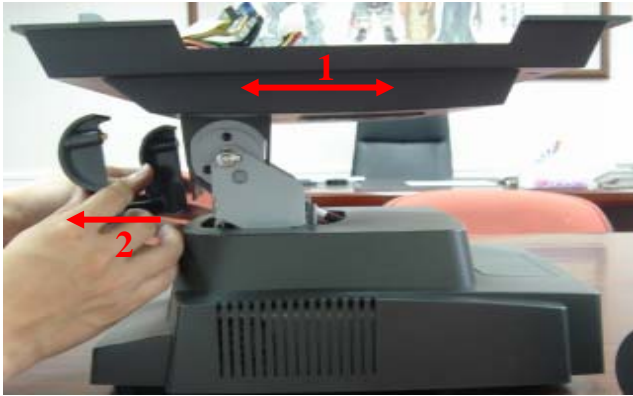


### 2.1.6 EMI Chassis




| Item | Photo   | Description                               |
|------|---|---|
| 1    |    | 1. Remove 2 screws                        |
| 2    |   | 1. Open upper case<br>2. Remove 7 screws  |
| 3    |  | 1. Remove and replace another EMI chassis |

### 2.1.7 Key Lock Set

| Item | Photo   | Description                                    |
|------|---|--|
| 1    |    | 1. Follow 2.1.6 item 1 to 3 remove EMI chassis |
| 2    |   | 1. Remove 2 screws<br>2. Remove cover bracket  |
| 3    |  | 1. Remove 2 antennas<br>2. Remove tape         |
| 4    |  | 1. Remove 4 screws                             |

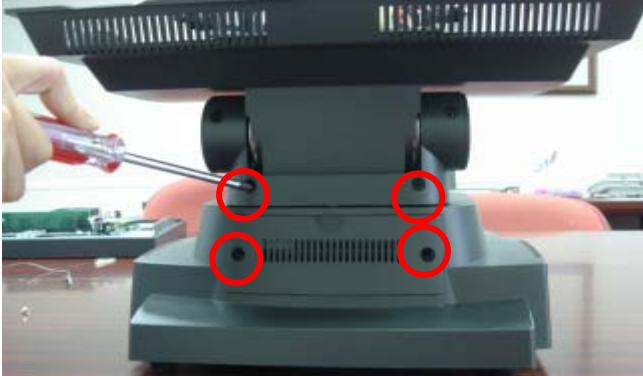



| Item | Photo   | Description   |
|------|---|---|
| 5    |    | <p>1. Separate front cover from back cover</p>                        |
| 6    |   | <p>1. Remove 4 screws from hinge</p>                                  |
| 7    |  | <p>1. Set upper case vertically<br/>2. Remove back hinge cover</p>    |
| 8    |  | <p>1. Set upper case horizontally<br/>2. Remove front hinge cover</p> |







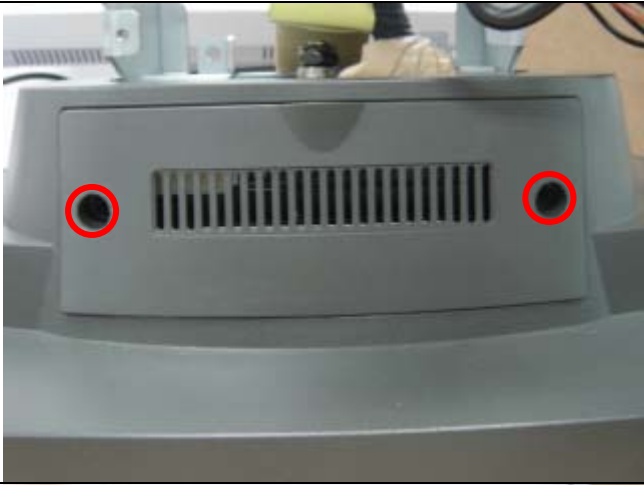

| Item | Photo   | Description   |
|------|---|---|
| 9    |    | <ol style="list-style-type: none"> <li>1. Remove 3 screws at left hinge</li> <li>2. Remove 3 screws at right hinge</li> </ol>         |
| 10   |   | <ol style="list-style-type: none"> <li>1. Separate upper case from bottom case</li> <li>2. Pull out cables from upper case</li> </ol> |
| 11   |  | <ol style="list-style-type: none"> <li>1. Remove and replace with another key lock set (W/ LCD Hinge Assembly / LCD Base)</li> </ol>  |

## 2.2 Base Unit




### 2.2.1 Base Housing

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | 1. Remove 4 screws from hinge front side                              |
| 2    |   | 1. Set upper case vertically<br>2. Remove back hinge cover            |
| 3    |  | 1. Set top upper case horizontally<br>2. Remove front hinge cover     |
| 4    |  | 1. Remove 3 screws at left hinge<br>2. Remove 3 screws at right hinge |

| Item | Photo   | Description  |
|------|---|--|
| 5    |    | <ol style="list-style-type: none"> <li>1. Separate upper case from bottom case</li> <li>2. Pull out cables from upper case</li> </ol>                      |
| 6    |   | <ol style="list-style-type: none"> <li>1. Turn the bottom case to the bottom side</li> <li>2. Remove 2 screws to take off the kit cover</li> </ol>         |
| 7    |  | <ol style="list-style-type: none"> <li>1. Turn the bottom case top side</li> <li>2. Take off kit cover</li> </ol>  |
| 8    |  | <ol style="list-style-type: none"> <li>1. Turn the bottom case to the bottom side</li> <li>2. Remove 4 screws</li> <li>3. Remove 4 Plastic foot</li> </ol> |

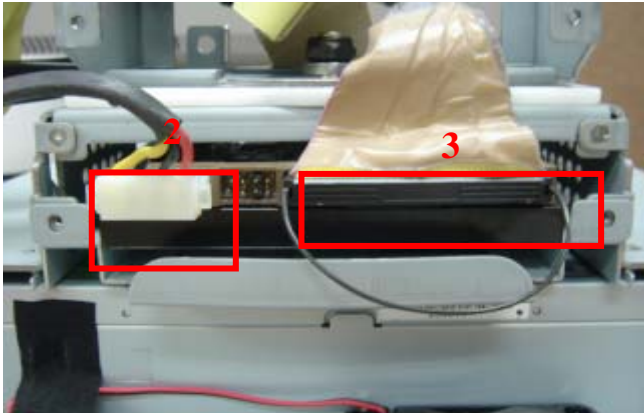


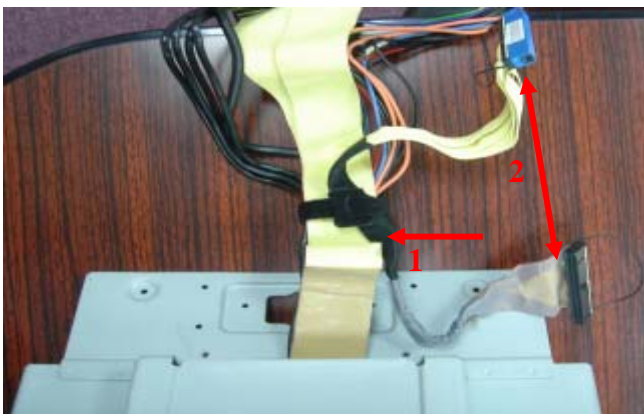
| Item | Photo  | Description   |
|------|--|---|
| 9    |   | <ol style="list-style-type: none"> <li>1. Turn to the rear side of the bottom case</li> <li>2. Remove 2 screws to open the HDD cover</li> </ol> |
| 10   |  | <ol style="list-style-type: none"> <li>1. Remove and replace with another base housing from base chassis</li> </ol>                             |




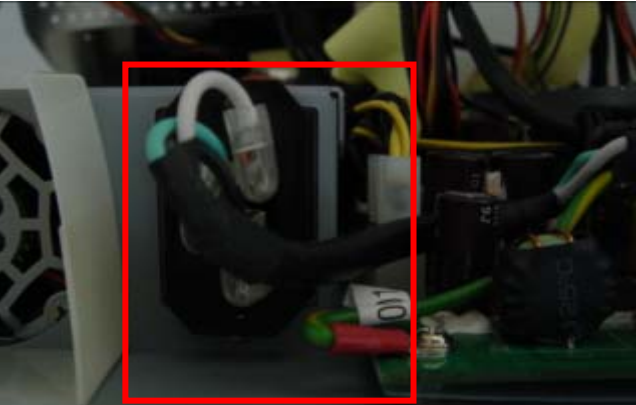
### 2.2.2 Swivel Housing Rear / Front


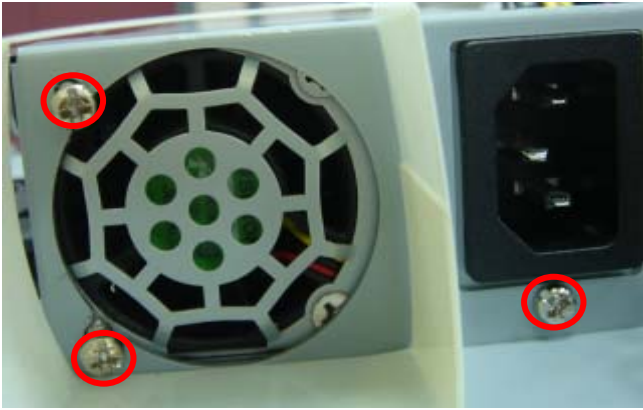
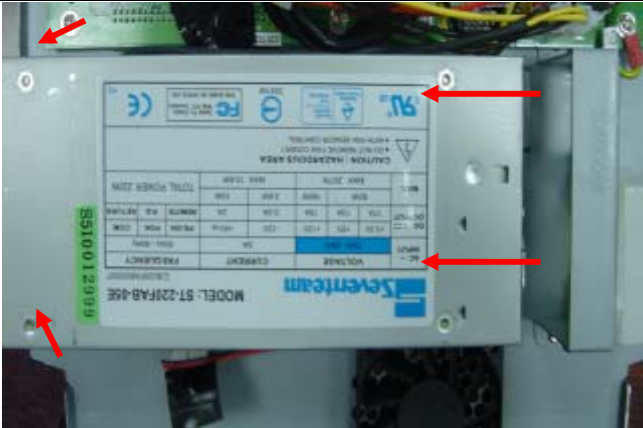
| Item | Photo   | Description   |
|------|---|---|
| 1    |    | 1. Remove 4 screws from hinge                                 |
| 2    |   | 1. Set upper case vertically<br>2. Remove back hinge cover    |
| 3    |  | 1. Set upper case horizontally<br>2. Remove front hinge cover |



### 2.2.3 P/S 220W W/PFC

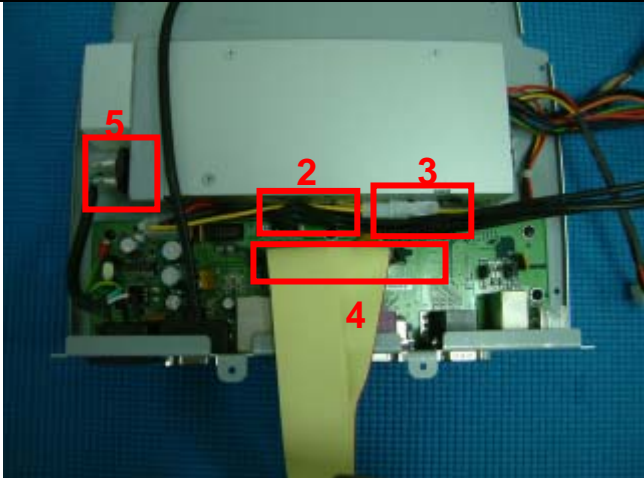



| Item | Photo   | Description   |
|------|---|---|
| 1    |    | <ol style="list-style-type: none"> <li>1. Follow 2.2.1 item 1 to 10 (Remove base housing)</li> <li>2. Remove power cable</li> <li>3. Remove HDD to M/B cable</li> <li>4. Pull out HDD tray</li> </ol> |
| 2    |   | <ol style="list-style-type: none"> <li>1. Turn to bottom side and remove 6 screws</li> </ol>  |
| 3    |  | <ol style="list-style-type: none"> <li>1. Turn to top side</li> <li>2. HDD cable is tied with another black magic sticker separately</li> </ol>   |
| 4    |  | <ol style="list-style-type: none"> <li>1. Remove black magic sticker used for HDD cable</li> <li>2. Remove HDD cable</li> </ol>   |


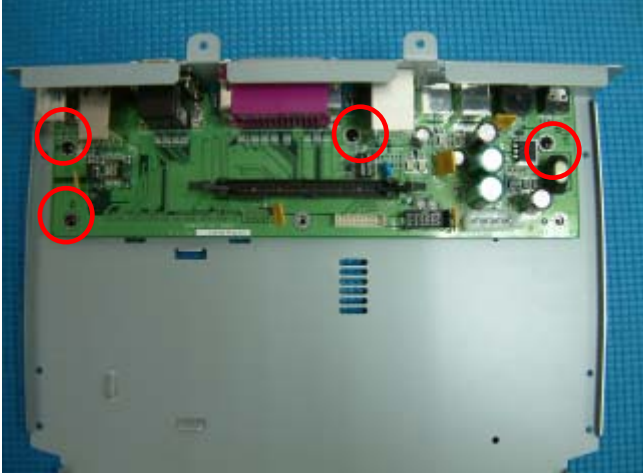
| Item | Photo   | Description   |
|------|---|---|
| 5    |    | 1. Separate swivel hinge from base chassis  |
| 6    |   | 1. Remove black magic sticker used for tightening cables<br>2. Pull out cables from swivel hinge one by one |
| 7    |  | 1. Remove power cable which connects PSU and I/O Board<br>2. Remove 2 tapes                                 |
| 8    |  | 1. Remove black connector together with cables from power supply  |

| Item | Photo   | Description   |
|------|---|---|
| 9    |    | 1. Pay attention to the position for cable  |
| 10   |   | 1. Remove 3 screws  |
| 11   |  | <p>1. Pull up from the hooker and pull to left direction to remove power supply</p> <p>2. Replace with another power supply</p> |




## 2.2.4 I/O Board

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | <ol style="list-style-type: none"> <li>1. Follow 2.2.3 item 1 to 6</li> <li>2. Remove USB Cable</li> <li>3. Remove Power supply to I/O board cable</li> <li>4. Remove 100pin cable</li> <li>5. Remove power supply to AC input cable</li> </ol> |
| 2    |   | <ol style="list-style-type: none"> <li>1. For USB cable, need to remove 1 screw from I/O board</li> </ol>   |
| 3    |  | <ol style="list-style-type: none"> <li>1. Turn to bottom side</li> <li>2. Remove 2 screws</li> </ol>  |
| 4    |  | <ol style="list-style-type: none"> <li>1. Remove power supply module from base chassis</li> </ol>   |

| Item | Photo  | Description  |
|------|--|--|
| 5    |   | 1. Remove 12 screws  |
| 6    |  | <ol style="list-style-type: none"> <li>1. Remove 4 screws on I/O board</li> <li>2. Remove and replace with another I/O board</li> <li>3. Follow steps back to item 1 for assembly</li> </ol> |


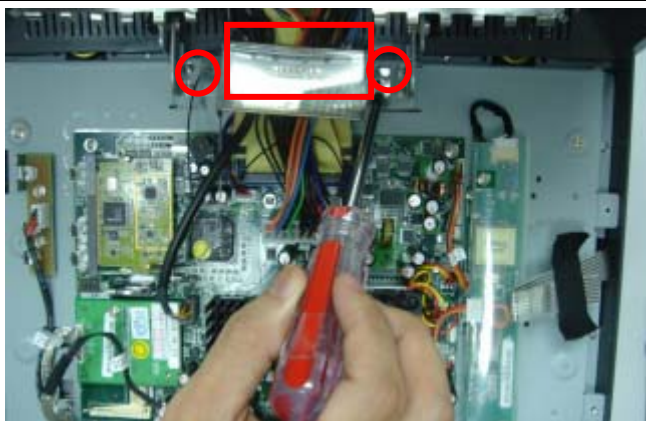
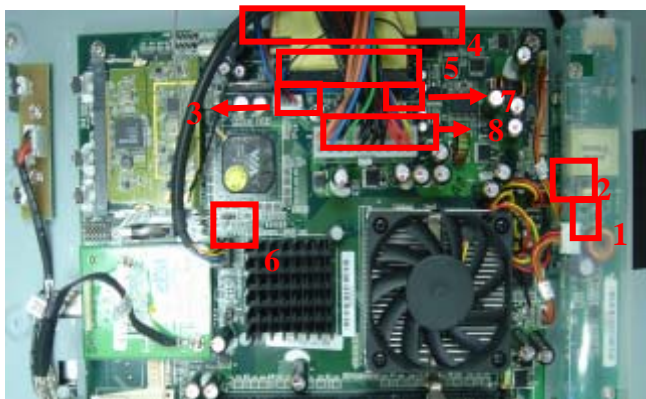
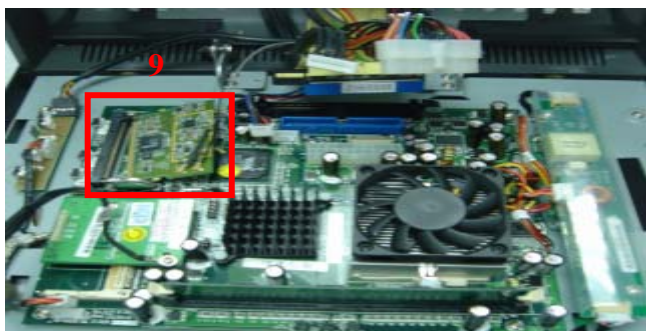
### 2.2.5 HDD / HDD Tray (Refer to 2.5.2)

### 2.2.6 Jumper Cover

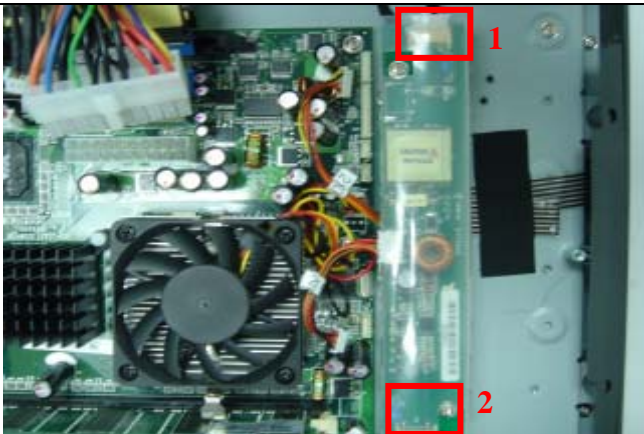
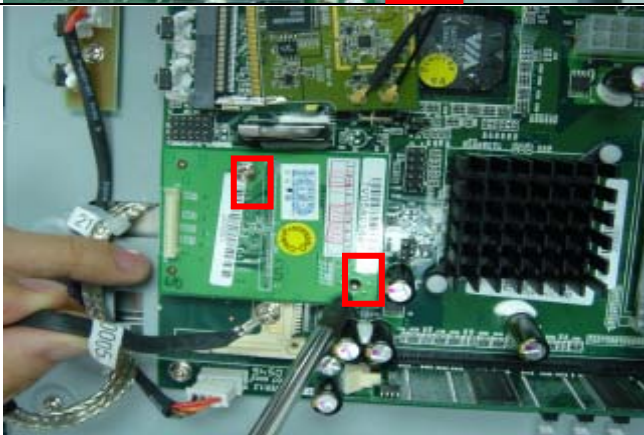
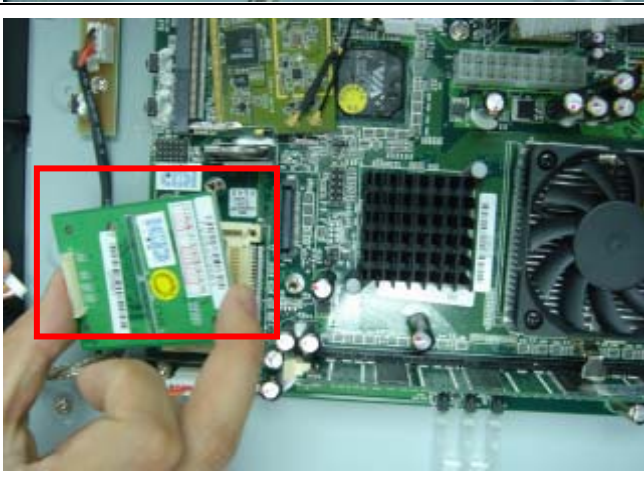
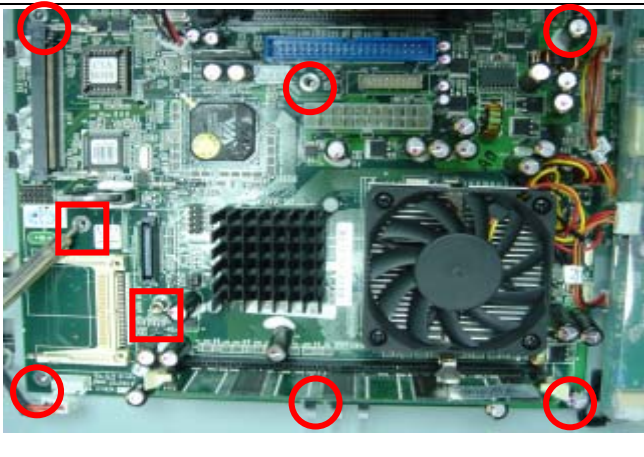
| Item | Photo   | Description  |
|------|---|--|
| 1    |  | <ol style="list-style-type: none"><li>1. Turn the bottom case to the bottom side</li><li>2. Remove 1 screw</li><li>3. Remove and replace with another jumper cover</li></ol> |

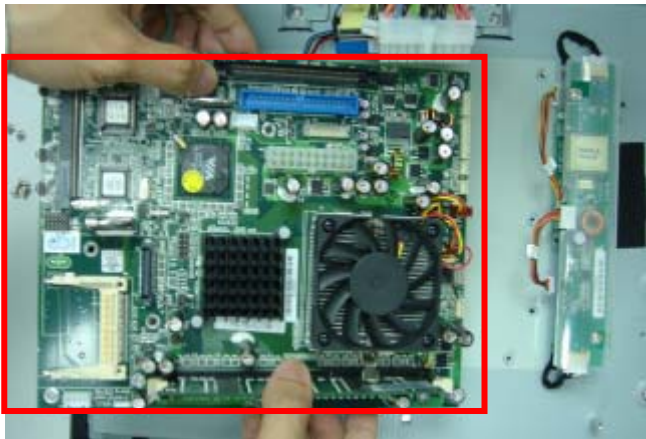
## 2.3 Boards

### 2.3.1 Main Board

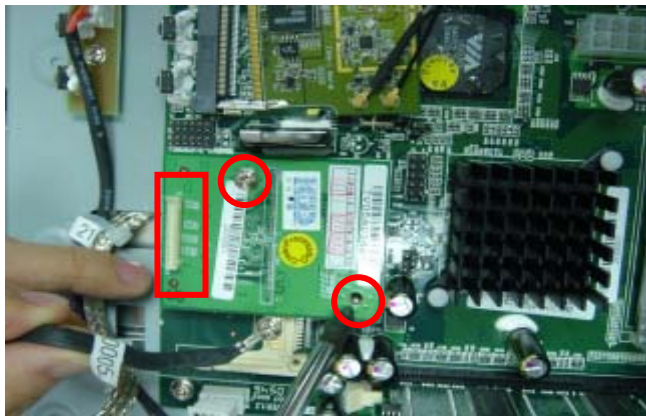
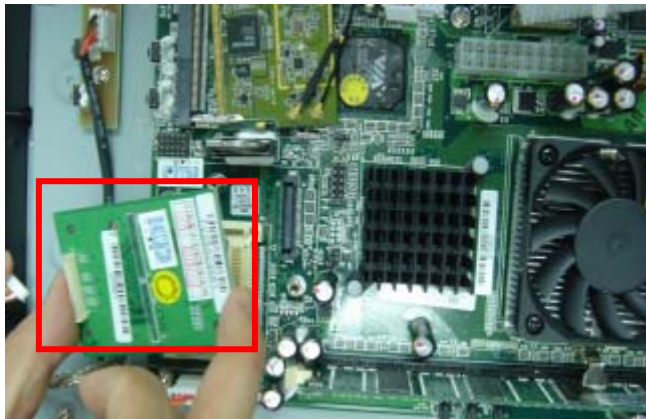
| Item | Photo   | Description  |
|------|---|--|
| 1    |    | <ol style="list-style-type: none"> <li>1. Use screw driver to open upper case.</li> <li>2. Remove 2 screws</li> </ol>  |
| 2    |   | <ol style="list-style-type: none"> <li>1. Remove 2 screws</li> <li>2. Remove cover bracket</li> </ol>  |
| 3    |   | <ol style="list-style-type: none"> <li>1. Remove Cables, M/B To Inverter</li> <li>2. Remove Cables, M/B To Touch Control Board</li> <li>3. Remove Cables, M/B To Speaker</li> <li>4. Remove Cables, M/B To I/O BD 100P</li> <li>5. Remove Cables, M/B To HDD 80P</li> <li>6. Remove Cables, 2<sup>nd</sup> VGA 10P</li> <li>7. Remove Cables, M/B To I/O BD 20P USB</li> <li>8. Remove Cable, M/B To Power Supply</li> <li>9. Remove Mini PCI</li> </ol> |



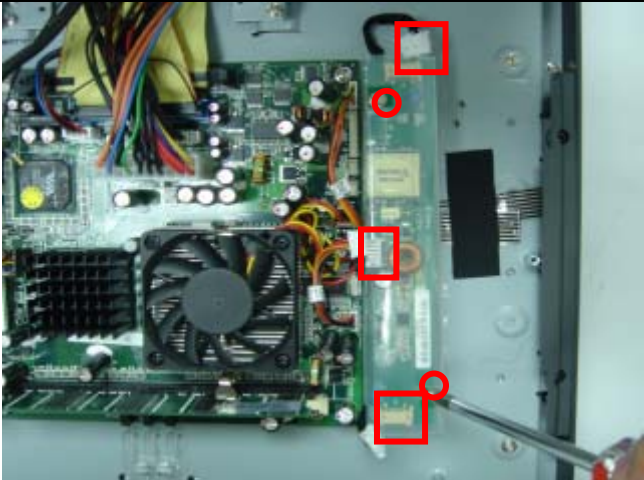

| Item | Photo   | Description  |
|------|---|--|
| 4    |    | <ol style="list-style-type: none"> <li>1. Remove Inverter Cable on top</li> <li>2. Remove Inverter Cable bottom</li> </ol> |
| 5    |   | <ol style="list-style-type: none"> <li>1. Remove 2 screws on bridge board</li> </ol>                                       |
| 6    |  | <ol style="list-style-type: none"> <li>1. Remove bridge board</li> </ol>   |
| 7    |  | <ol style="list-style-type: none"> <li>1. Remove 6 screws on M/B</li> <li>2. Remove 2 銅柱</li> </ol>                        |

| Item | Photo   | Description                            |
|------|---|--|
| 8    |  | 1. Remove and replace with another M/B |

### 2.3.2 Bridge Board

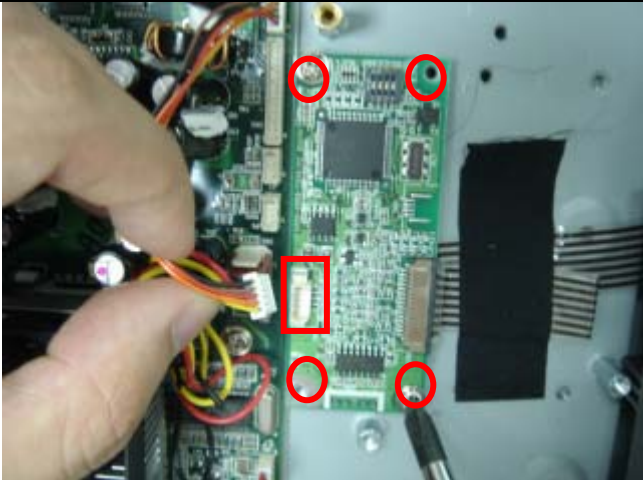
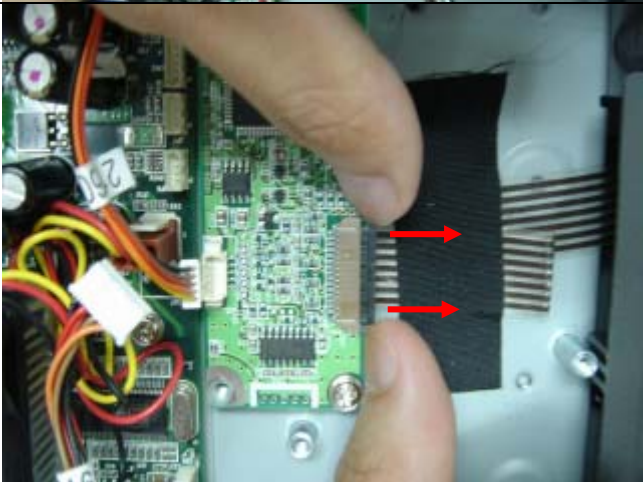
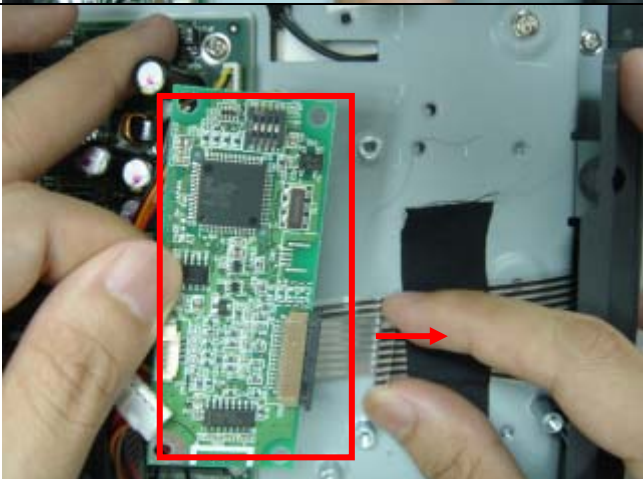
| Item | Photo   | Description   |
|------|---|---|
| 1    |   | <ol style="list-style-type: none"> <li>1. Follow 2.3.1 item 1</li> <li>2. Open upper case</li> <li>3. Remove VGA cable from bridge board</li> <li>4. Remove 2 screws on bridge board</li> </ol> |
| 2    |  | 1. Remove and replace another bridge board  |

### 2.3.3 Inverter

| Item | Photo  | Description  |
|------|--|--|
| 1    |   | <ol style="list-style-type: none"><li>1. Follow 2.3.1 item 1</li><li>2. Remove 3 cables</li><li>3. Remove 2 screws</li></ol> |
| 2    |  | <ol style="list-style-type: none"><li>1. Remove and replace with another inverter board</li></ol>                            |






### 2.3.4 Touch Control Board

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | <ol style="list-style-type: none"> <li>1. Follow 2.3.3 item 1 to 2 remove inverter board</li> <li>2. Remove cable from touch control board</li> <li>3. Remove 4 screws</li> </ol> |
| 2    |   | <ol style="list-style-type: none"> <li>1. Push out black clicker from connector CN2</li> </ol>  |
| 3    |  | <ol style="list-style-type: none"> <li>1. Remove touch control board</li> <li>2. Pull out touch panel cable</li> <li>3. Replace with another touch control board</li> </ol>       |



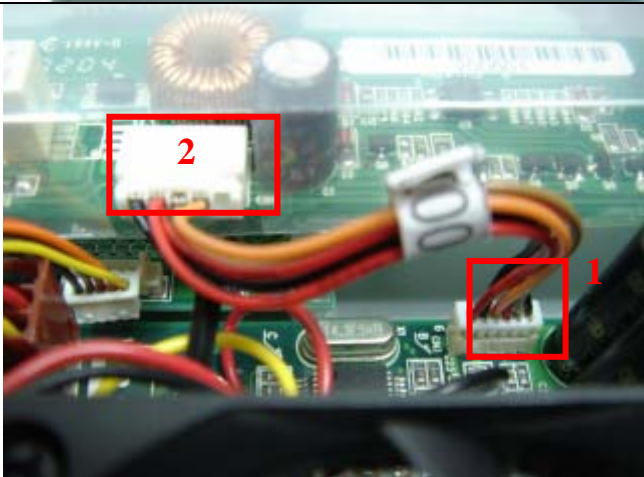


### 2.3.5 Button Board (For POS 75)



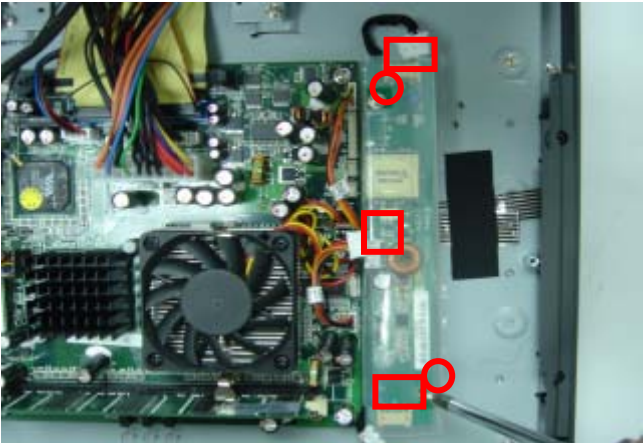

| Item | Photo   | Description  |
|------|---|--|
| 1    |    | <ol style="list-style-type: none"><li>1. Follow 2.3.1 item 1</li><li>2. Open upper case</li></ol>            |
| 2    |   | <ol style="list-style-type: none"><li>1. Remove cable from button board</li><li>2. Remove 2 screws</li></ol> |
| 3    |  | <ol style="list-style-type: none"><li>1. Remove and replace with another button board</li></ol>              |

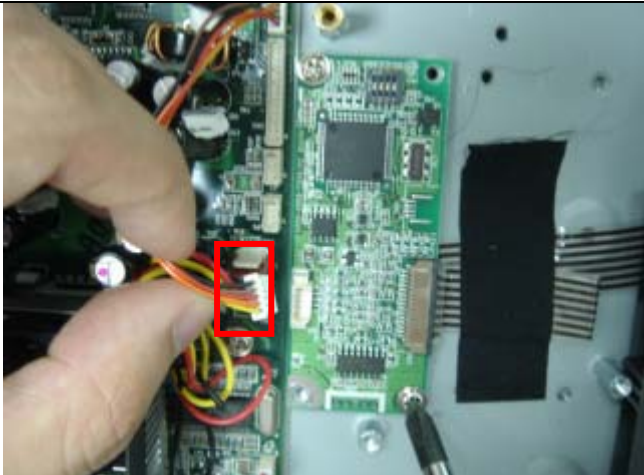
## 2.4 Cables

### 2.4.1 Cable, M/B To Inverter

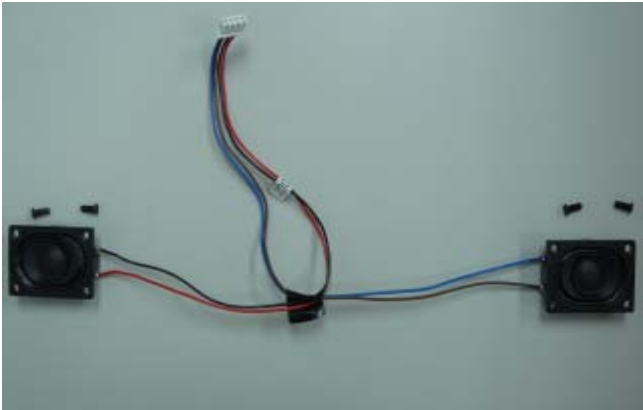

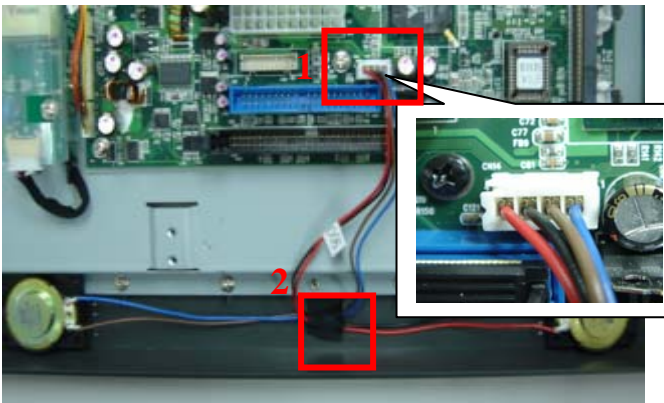
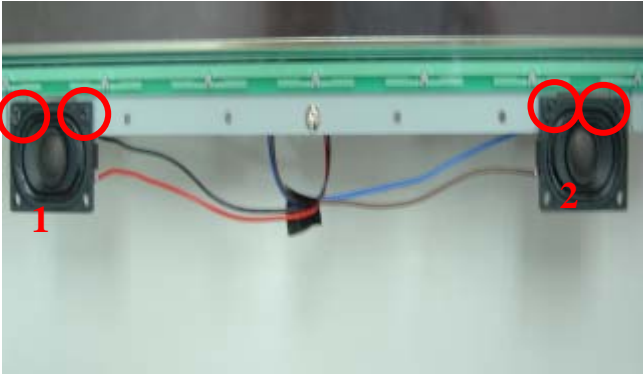
| Item | Photo   | Description  |
|------|---|--|
| 1    |    | Part Number: 21600003RH  |
| 2    |   | <ol style="list-style-type: none"><li>1. Use screw driver to open upper case.</li><li>2. Remove 2 screws</li></ol>   |
| 3    |  | <ol style="list-style-type: none"><li>1. Remove cable on MB location CN17</li><li>2. Remove cable on inverter board</li><li>3. Replace with another inverter cable</li></ol> |

#### 2.4.2 Cable, M/B To Touch Control BD

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | <ol style="list-style-type: none"> <li>1. Part Number: 21600004RH</li> </ol>  |
| 2    |   | <ol style="list-style-type: none"> <li>1. Use screw driver to open upper case.</li> <li>2. Remove 2 screws</li> </ol> |
| 3    |  | <ol style="list-style-type: none"> <li>1. Remove 3 cables</li> <li>2. Remove 2 screws</li> </ol>                      |
| 4    |  | <ol style="list-style-type: none"> <li>1. Remove inverter board</li> </ol>  |




| Item | Photo   | Description   |
|------|---|---|
| 5    |  | <ol style="list-style-type: none"> <li>1. Remove and replace with another Touch Control board cable (Main Board Location CN 17)</li> <li>2. Follow steps back to item 1 for assembly</li> </ol> |

### 2.4.3 Cable, M/B To Speaker



| Item | Photo   | Description  |
|------|---|--|
| 1    |    | Part Number: 21600006RH  |
| 2    |   | <ol style="list-style-type: none"> <li>Follow 2.1.1 item 1 to 7 turn to Front side and remove front bezel</li> </ol>   |
| 3    |  | <ol style="list-style-type: none"> <li>Turn to back side and remove cable on MB location CN 14</li> <li>Remove black tape</li> </ol>   |
| 4    |  | <ol style="list-style-type: none"> <li>Remove 2 screws on left speaker</li> <li>Remove 2 screws on right speaker</li> <li>Replace with another speaker cable</li> <li>Follow steps back to item 1</li> </ol> |



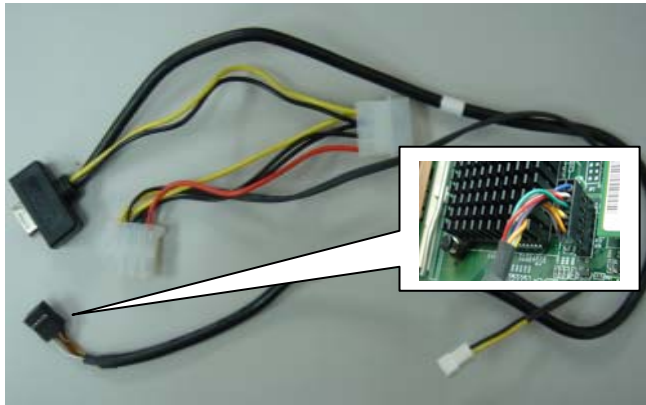

#### 2.4.4 Cable, M/B To I/O BD 100P



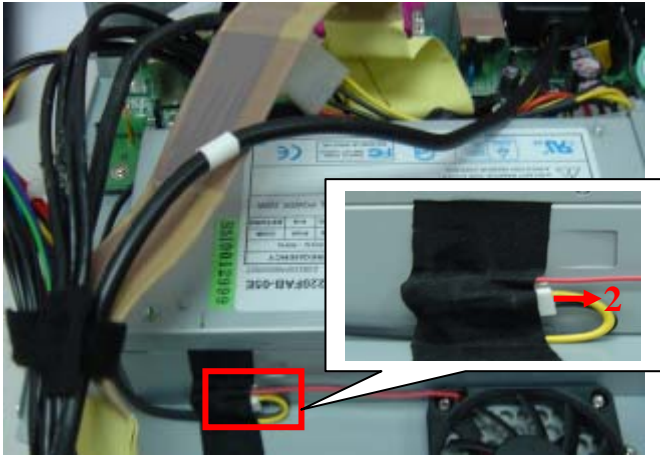
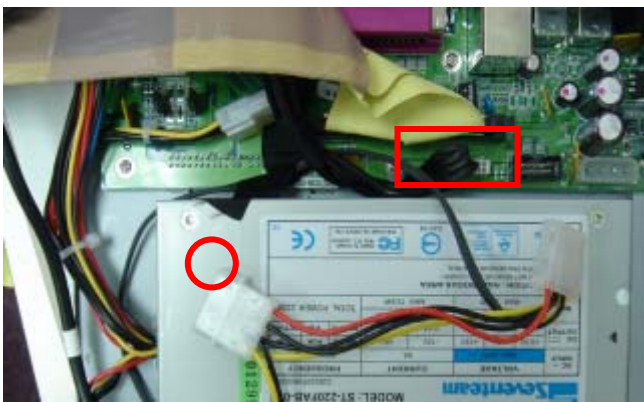
| Item | Photo   | Description  |
|------|---|--|
| 1    |    | <ol style="list-style-type: none"> <li>1. Part Number: 21600007RH</li> </ol>   |
| 2    |   | <ol style="list-style-type: none"> <li>1. Follow 2.1.7 item 1 to 9 to disassemble upper case</li> <li>2. Follow 2.2.1 item 1 to 10 to disassemble base unit</li> <li>3. Follow 2.2.3 item 1 to 7 to remove tapes and power supply cable</li> <li>4. Remove black magic sticker</li> <li>5. Pull out cables from swivel hinge one by one</li> </ol> |
| 3    |  | <ol style="list-style-type: none"> <li>1. Remove and replace cable on IO Board Location CN2</li> <li>2. Follow steps back to item 1 for assembly</li> </ol>  |

#### 2.4.5 Cable, M/B To HDD 80P

| Item | Photo  | Description  |
|------|--|--|
| 1    |   | Part Number: 21600008RH  |
| 2    |  | <ol style="list-style-type: none"> <li>1. Follow 2.2.1 item 1 to 10 to disassemble base unit</li> <li>2. Remove and replace with another HDD cable</li> <li>3. Follow steps back to item 1 for assembly</li> </ol> |

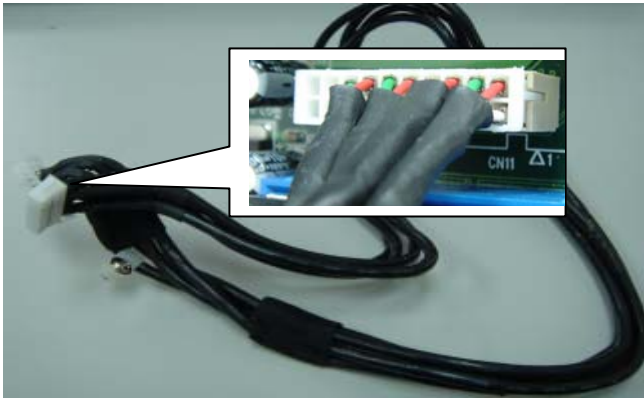

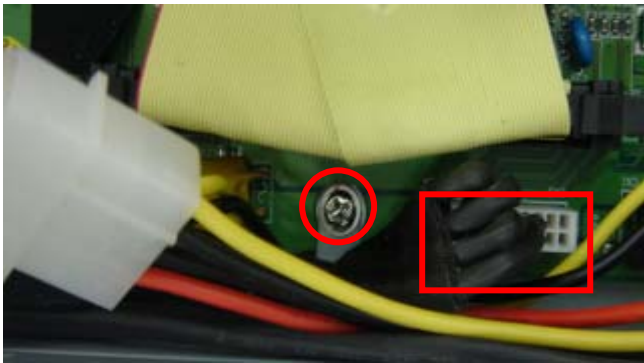
#### 2.4.6 Cable, 2nd VGA to I/O Board

| Item | Photo   | Description   |
|------|---|---|
| 1    |  | Part Number: 21600009RH<br>Location on M/B CN5  |
| 2    |  | <ol style="list-style-type: none"> <li>1. Follow 2.1.7 item 1 to 9 to disassemble upper case</li> <li>2. Follow 2.2.1 item 1 to 10 to disassemble base unit</li> <li>3. Follow 2.2.3 item 1 to 7</li> <li>4. Remove black magic sticker</li> <li>5. Pull out cables from swivel hinge one by one</li> </ol> |


| Item | Photo   | Description  |
|------|---|--|
| 3    |    | <ol style="list-style-type: none"> <li>1. Remove 2 screws from front side to disassemble VGA connector</li> <li>2. Remove power cable from IO board</li> <li>3. Remove power cable</li> </ol>  |
| 4    |   | <ol style="list-style-type: none"> <li>1. Remove black tape</li> </ol>   |
| 5    |  | <ol style="list-style-type: none"> <li>1. Remove black tape</li> <li>2. Remove fan cable</li> </ol>  |
| 6    |  | <ol style="list-style-type: none"> <li>1. Remove screw from USB cable</li> <li>2. Remove USB cable connector in order to take off AC Inlet To P/S cable</li> <li>3. Replace with another AC Inlet To P/S cable</li> <li>4. Follow steps back to item 1 for assembly</li> </ol> |







#### 2.4.7 Cable, M/B To I/O BD 20P USB


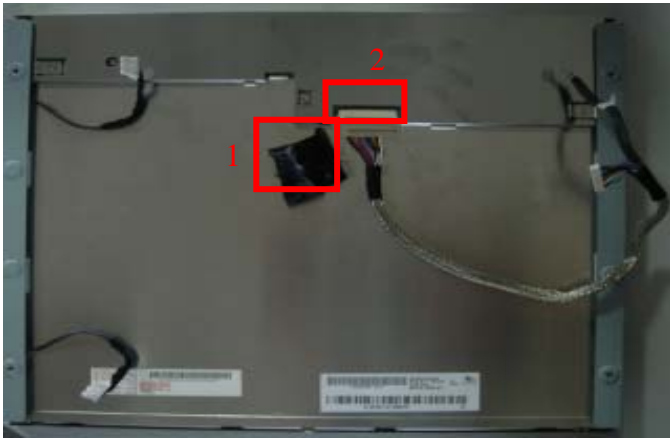
| Item | Photo   | Description   |
|------|---|---|
| 1    |    | Part Number: 21600016<br>MB Location CN11   |
| 2    |   | <ol style="list-style-type: none"> <li>1. Follow 2.1.7 item 1 to 9 to disassemble upper case</li> <li>2. Follow 2.2.1 item 1 to 10 to disassemble base unit</li> <li>3. Follow 2.2.3 item 1 to 7</li> <li>4. Remove black magic sticker</li> <li>5. Pull out cables from swivel hinge one by one</li> </ol> |
| 3    |  | <ol style="list-style-type: none"> <li>1. Remove screw from IO Board</li> <li>2. Remove and replace another USB cable</li> <li>3. Follow steps back to item 1 for assembly</li> </ol>   |

#### 2.4.8 Cable, M/B To Button Board


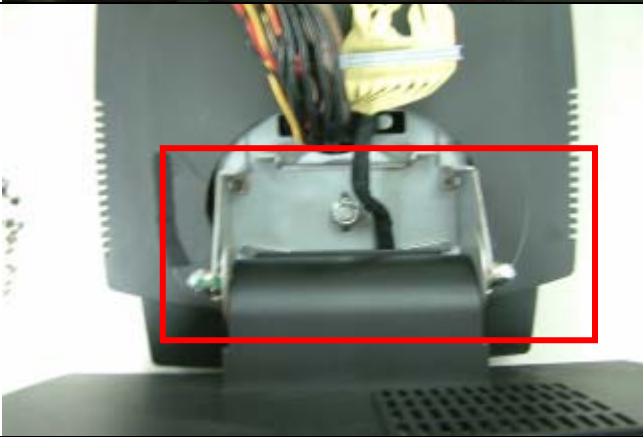
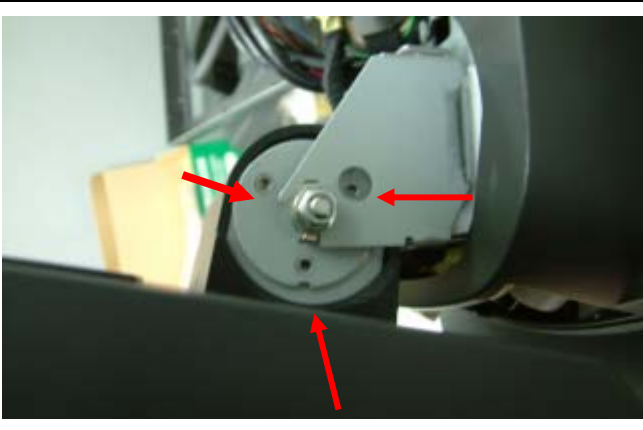
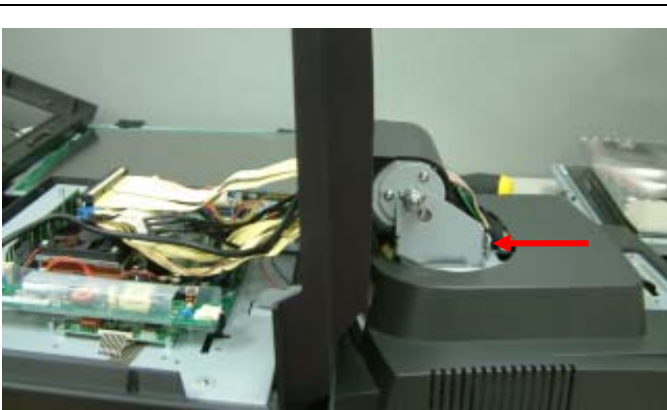
| Item | Photo   | Description  |
|------|---|--|
| 1    |  | <ol style="list-style-type: none"> <li>1. Follow 2.3.1 item 1</li> <li>2. Open upper case</li> <li>3. Remove and Replace with another M/B to Button board cable</li> </ol> |

#### 2.4.9 Cable, LCD to Bridge Board

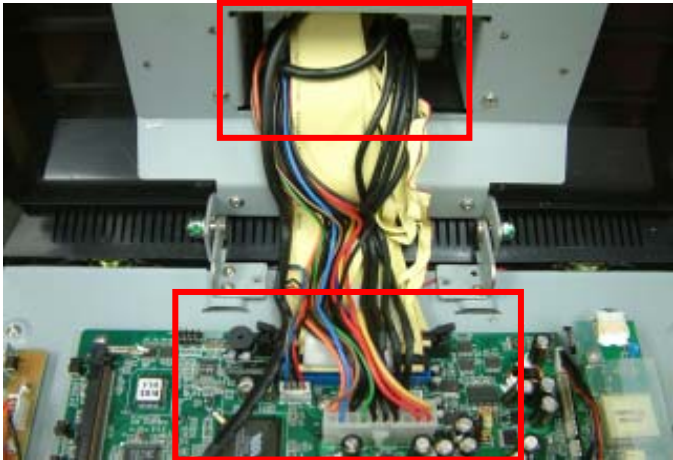

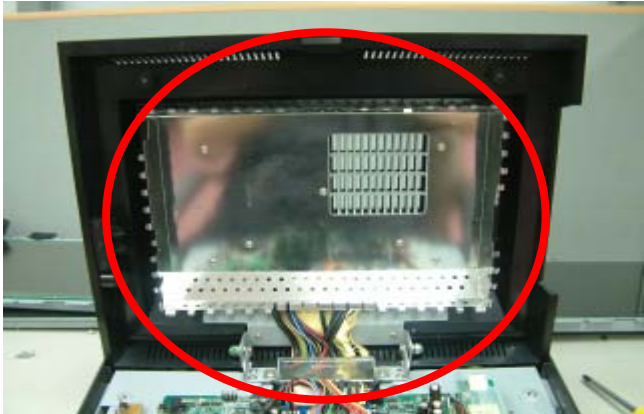

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | 1 Part No.:21600005RH   |
| 2    |   | <ol style="list-style-type: none"> <li>1. Follow 2.1.2 item 1 to item 3<br/>remove touch panel</li> <li>2. Turn to back side</li> <li>3. Remove 4 screws</li> </ol> |
| 3    |  | 1. Cut plastic string   |
| 4    |  | <ol style="list-style-type: none"> <li>1. Remove 2 inverter cables</li> <li>2. Remove LCD cable from bridge board</li> </ol>  |

| Item | Photo  | Description   |
|------|--|---|
| 5    |   | <ol style="list-style-type: none"> <li>1. Remove LCD chassis</li> </ol>   |
| 6    |  | <ol style="list-style-type: none"> <li>1. Remove tape</li> <li>2. Remove and replace with another LCD cable</li> <li>3. Follow steps back to item 1 for assembly</li> </ol> |

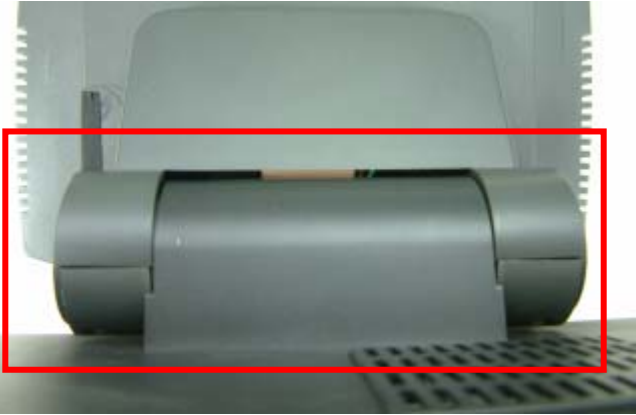

## 2.5 Main & Base Unit assembly

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | 1. Prepare upper and base unit  |
| 2    |   | 1. Put upper unit on the swivel hinge   |
| 3    |  | <ol style="list-style-type: none"> <li>1. Fasten 3 screws on the left side of neck</li> <li>2. Fasten 3 screws on the right side of neck</li> </ol> |
| 4    |  | 1. Put cables through upper case hole   |



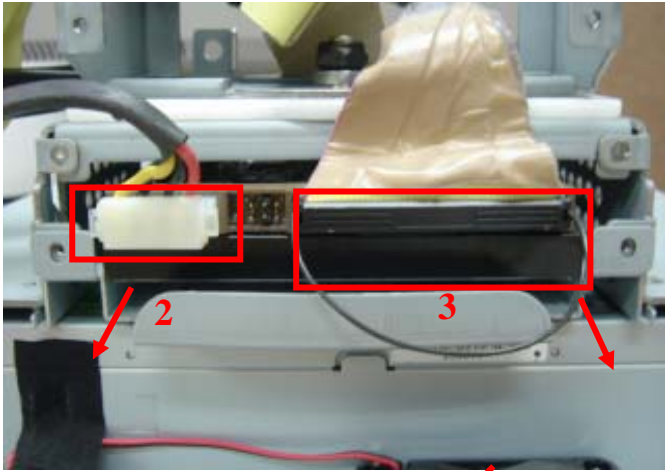
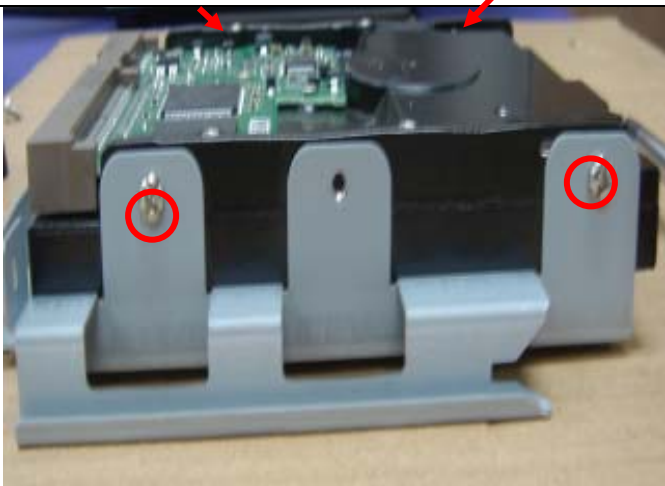
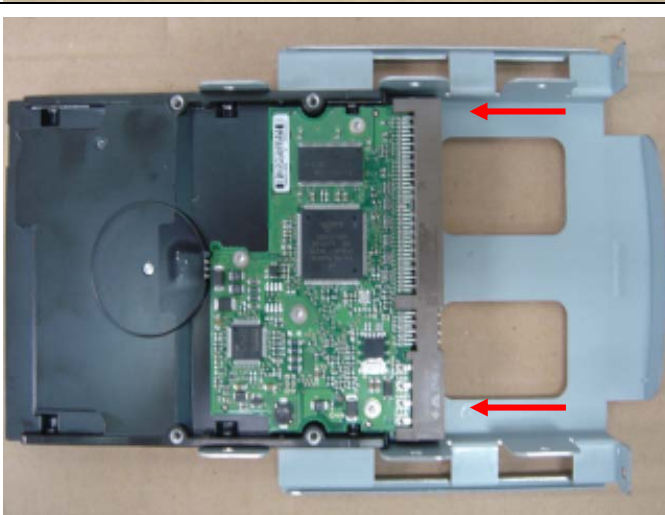
| Item | Photo   | Description   |
|------|---|---|
| 5    |    | <ol style="list-style-type: none"> <li>1. Cables must go through the hole at center of upper case</li> <li>2. Connect cables to the MB</li> </ol> |
| 6    |   | <ol style="list-style-type: none"> <li>1. Tied cables with magic tape</li> <li>2. Fasten cover bracket with 2 screws</li> </ol>                   |
| 7    |  | <ol style="list-style-type: none"> <li>1. Fasten EMI cover on the upper case with 7 screws</li> </ol>   |
| 8    |  | <ol style="list-style-type: none"> <li>1. Put on the front cover W/O fastening screws.</li> </ol>   |







| Item | Photo  | Description                                   |
|------|--|---|
| 9    |   | <p>1. Put swivel hinge back cover on case</p> |
| 10   |  | <p>1. Fasten 4 screws</p>                     |


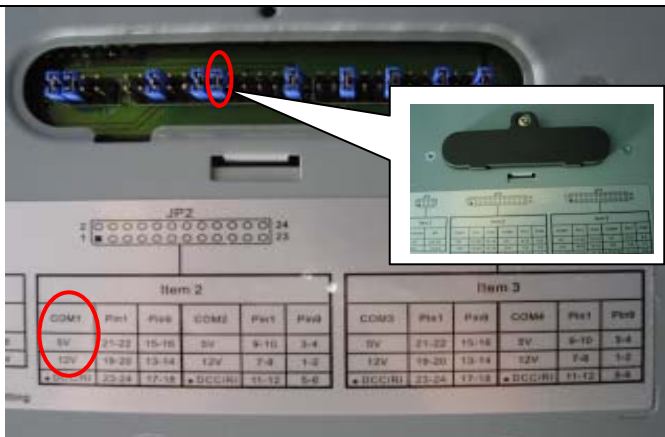
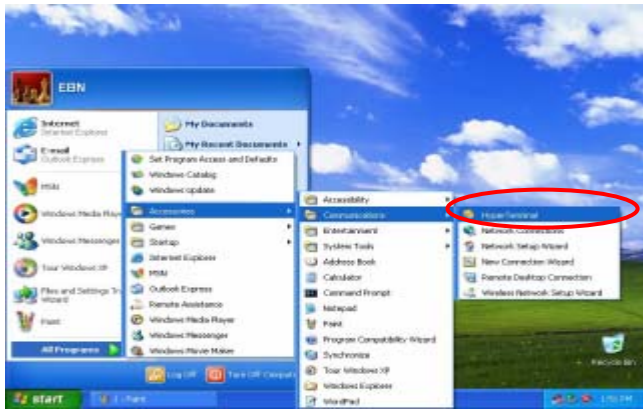
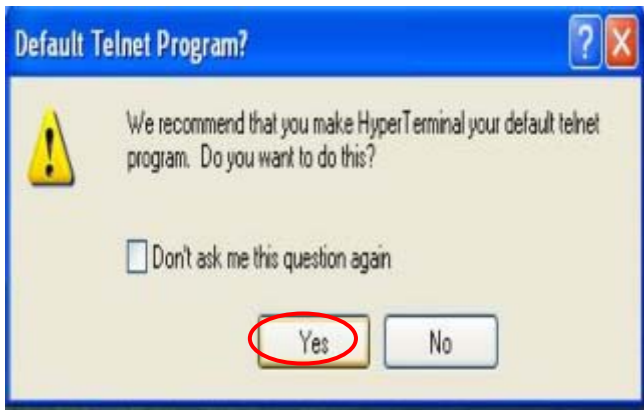
## 2.6 Accessories

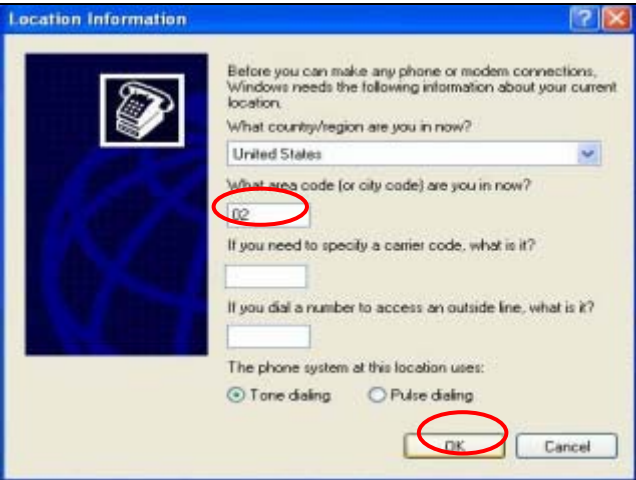
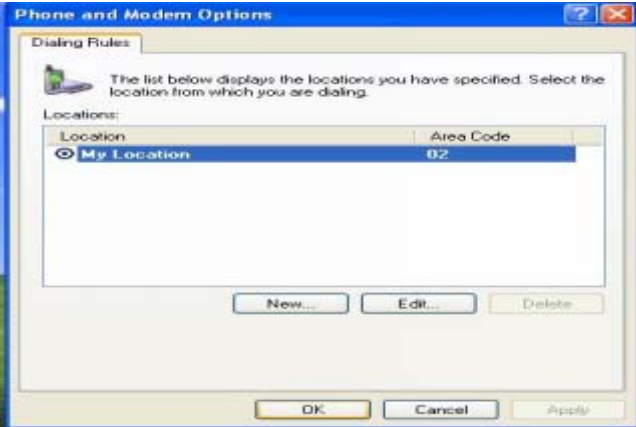
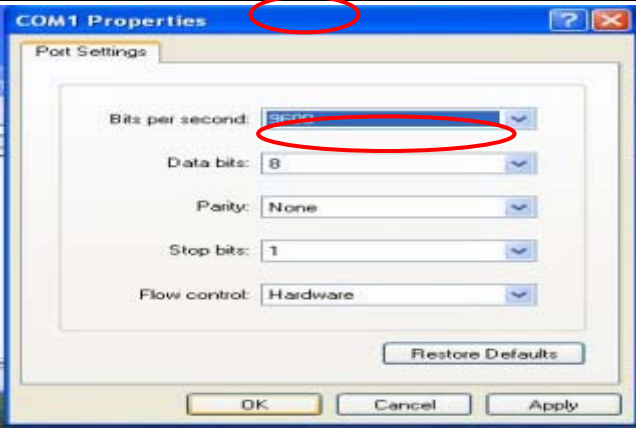

### 2.6.1 HDD

| Item | Photo   | Description  |
|------|---|--|
| 1    |    | <ol style="list-style-type: none"><li>1. Follow 2.2.1 item 1 to 10 (Remove base housing)</li><li>2. Remove power cable</li><li>3. Remove HDD to M/B cable</li><li>4. Pull out HDD tray</li></ol> |
| 2    |   | <ol style="list-style-type: none"><li>1. Remove 2 screws from HDD left hand side</li><li>2. Remove 2 screws from HDD right hand side</li></ol>   |
| 3    |  | <ol style="list-style-type: none"><li>1. Remove and replace with another HDD</li></ol>   |

### 2.6.2 Pole Display


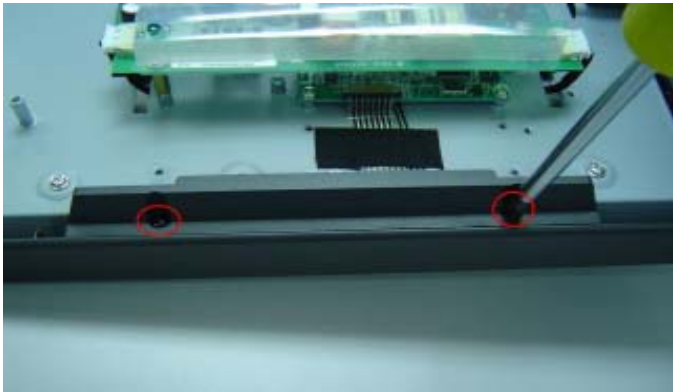

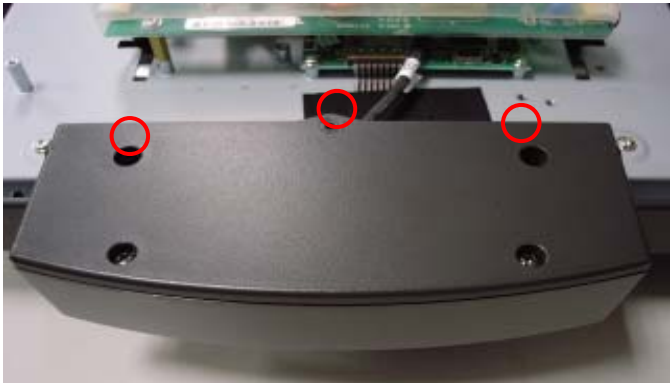
| Item                    | Photo   | Description   |
|-------------------------|---|---|
| 1                       |    | 1. Packing List:<br>a. Assembly ( 1 )Tube and ( 2 )VFD Unit |
| <b>H/W Installation</b> |   |   |
| 1                       |   | 1. Remove the customer display cover from rear base         |
| 2                       |  | 1. Remove two screws marked in red                          |
| 3                       |  | 1. Install the VFD kit on rear base                         |



| Item                | Photo  | Description  |        |       |      |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
|---------------------|--|--|--------|-------|------|--|--|------|------|------|------|------|------|----|-------|-------|----|------|-----|-----|-------|-------|-----|-----|-----|----|-------|-------|--------|-------|-----|--------|--|--|--|--|--|------|------|------|------|------|------|----|-------|-------|----|------|-----|-----|-------|-------|-----|-----|-----|--------|-------|-------|--------|-------|-----|--|
| 4                   |   | 1. Connect VFD cable to COM1 and screw up  |        |       |      |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 5                   |  <table data-bbox="293 972 596 1084"><tr><th colspan="6">Item 2</th></tr><tr><th>COM1</th><th>Pin1</th><th>Pin2</th><th>COM2</th><th>Pin1</th><th>Pin2</th></tr><tr><td>5V</td><td>21-23</td><td>15-16</td><td>5V</td><td>9-10</td><td>3-4</td></tr><tr><td>12V</td><td>19-20</td><td>13-14</td><td>12V</td><td>7-8</td><td>1-2</td></tr><tr><td>5V</td><td>23-24</td><td>17-18</td><td>BCCIR1</td><td>11-12</td><td>5-6</td></tr></table> <table data-bbox="612 972 916 1084"><tr><th colspan="6">Item 3</th></tr><tr><th>COM3</th><th>Pin1</th><th>Pin2</th><th>COM4</th><th>Pin1</th><th>Pin2</th></tr><tr><td>5V</td><td>21-23</td><td>15-16</td><td>5V</td><td>9-10</td><td>3-4</td></tr><tr><td>12V</td><td>19-20</td><td>13-14</td><td>12V</td><td>7-8</td><td>1-2</td></tr><tr><td>BCCIR1</td><td>23-24</td><td>17-18</td><td>BCCIR1</td><td>11-12</td><td>5-6</td></tr></table> | Item 2   |        |       |      |  |  | COM1 | Pin1 | Pin2 | COM2 | Pin1 | Pin2 | 5V | 21-23 | 15-16 | 5V | 9-10 | 3-4 | 12V | 19-20 | 13-14 | 12V | 7-8 | 1-2 | 5V | 23-24 | 17-18 | BCCIR1 | 11-12 | 5-6 | Item 3 |  |  |  |  |  | COM3 | Pin1 | Pin2 | COM4 | Pin1 | Pin2 | 5V | 21-23 | 15-16 | 5V | 9-10 | 3-4 | 12V | 19-20 | 13-14 | 12V | 7-8 | 1-2 | BCCIR1 | 23-24 | 17-18 | BCCIR1 | 11-12 | 5-6 | 1. Remove jumper cover, adjust Pin9 13-14 close for COM1 to be 12V |
| Item 2              |  |  |        |       |      |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| COM1                | Pin1   | Pin2   | COM2   | Pin1  | Pin2 |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 5V                  | 21-23  | 15-16  | 5V     | 9-10  | 3-4  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 12V                 | 19-20  | 13-14  | 12V    | 7-8   | 1-2  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 5V                  | 23-24  | 17-18  | BCCIR1 | 11-12 | 5-6  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| Item 3              |  |  |        |       |      |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| COM3                | Pin1   | Pin2   | COM4   | Pin1  | Pin2 |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 5V                  | 21-23  | 15-16  | 5V     | 9-10  | 3-4  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 12V                 | 19-20  | 13-14  | 12V    | 7-8   | 1-2  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| BCCIR1              | 23-24  | 17-18  | BCCIR1 | 11-12 | 5-6  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| <b>Verification</b> |  |  |        |       |      |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 6                   |   | Verify the VFD through by Hyper Terminal as following procedure.<br>Enter to “All Programs” → “Communication” → “Hyper Terminal” |        |       |      |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |
| 7                   |   | 1. Click “Yes” to continue   |        |       |      |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |    |       |       |        |       |     |        |  |  |  |  |  |      |      |      |      |      |      |    |       |       |    |      |     |     |       |       |     |     |     |        |       |       |        |       |     |  |

| Item | Photo   | Description  |
|------|---|--|
| 8    |    | 1. Set “area code” and click OK                                    |
| 9    |   | 1. Select on using COM1 port.                                      |
| 10   |  | 1. Set on Baud Rate to be 9600 bps.                                |
| 11   |  | 1. Press random character from keyboard which will be shown on VFD |


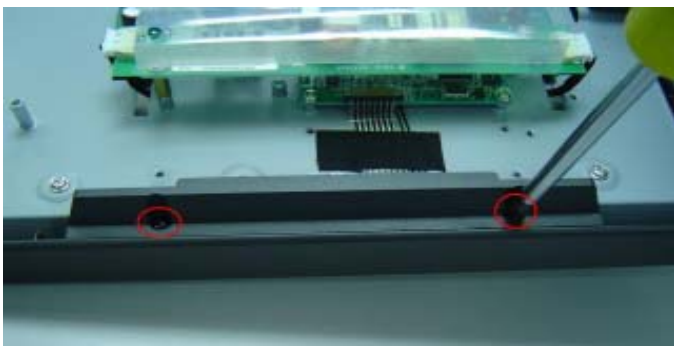





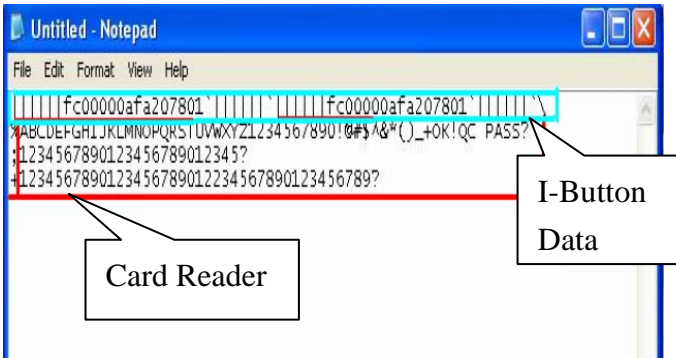
### 2.6.3 MSR

| Item                    | Photo   | Description   |
|-------------------------|---|---|
| 1                       |    | 1. 3 tracks MSR module (PS2)  |
| <b>H/W Installation</b> |   |   |
| 1                       |   | 1. Screw off the cover.   |
| 2                       |  | 1. Pass through the MSR cable under the Inverter BD, connect to CN12 of M/B |
| 3                       |  | 1. Screw up the module to the slot.   |




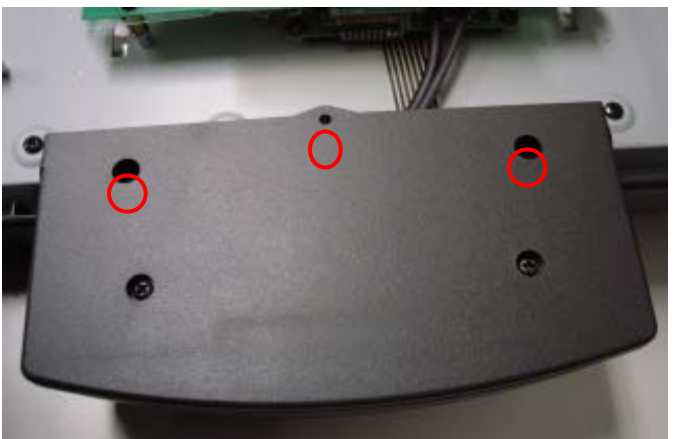
|   | Verification   |  |
|---|--|--|
| 1 |   | 1. Enter to “Accessories” → “Notepad”                  |
| 2 |  | 1. Stripe the MSR card to Reader and complete test OK. |

#### 2.6.4 MSR+ I Button

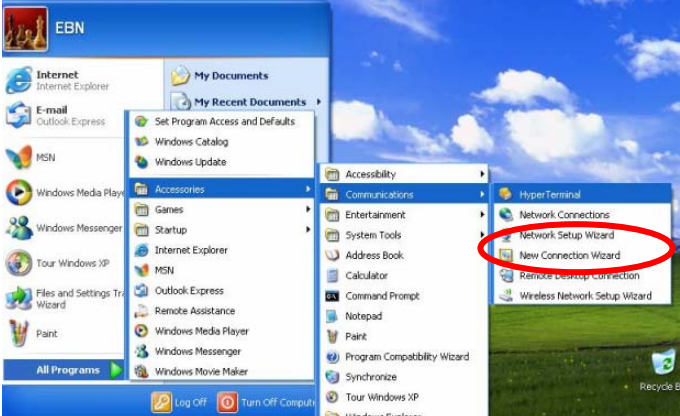

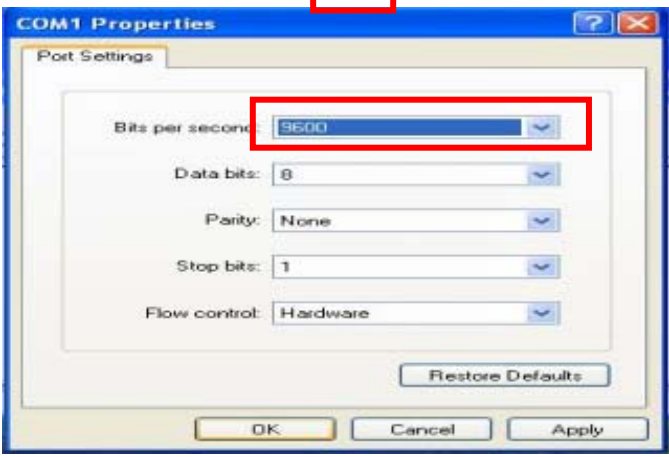
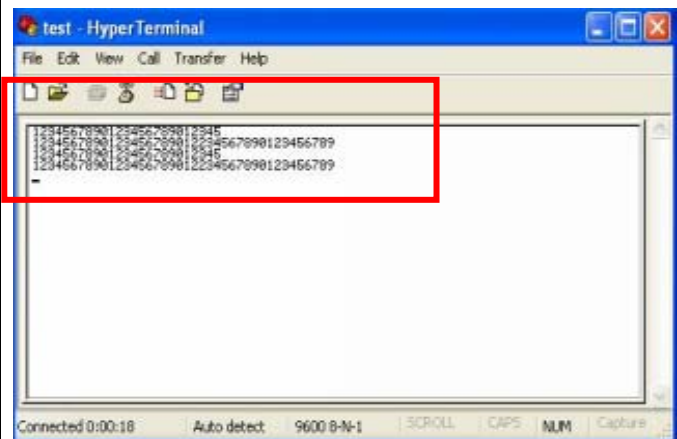
| Item                    | Photo   | Description   |
|-------------------------|---|---|
| 1                       |    | 1. 3 tracks MSR module (PS2)  |
| <b>H/W Installation</b> |   |   |
| 1                       |   | 1. Screw off the cover.   |
| 2                       |  | 1. Pass through the MSR cable under the Inverter BD, connect to CN12 of M/B |
| 3                       |  | 1. Screw up the MSR to slot.  |

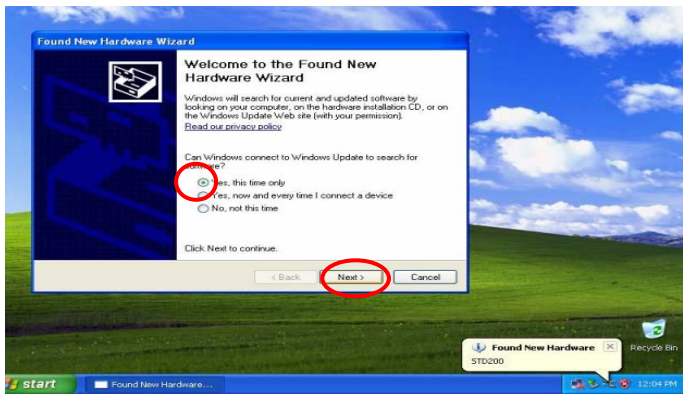
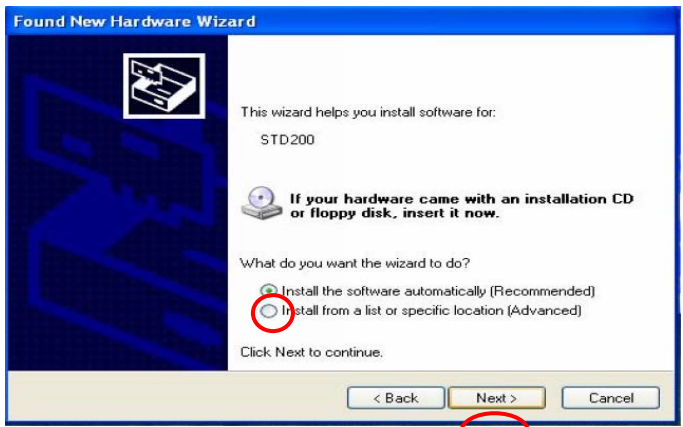

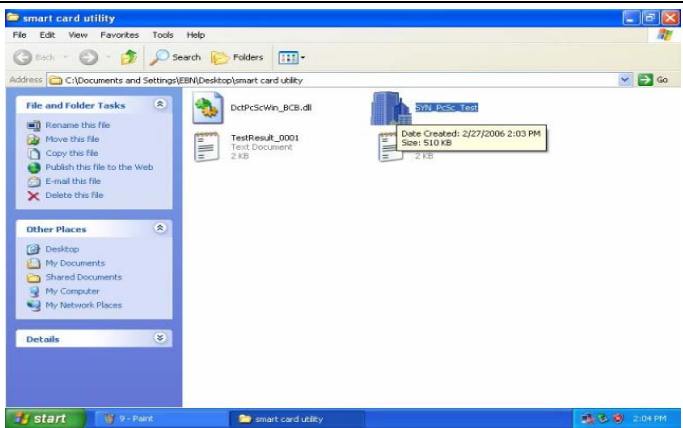
|   | Verification   |                                       |
|---|--|---------------------------------------|
| 1 |   | 1. Enter to “Accessories” → “Notepad” |
| 2 |  | Complete test OK.                     |



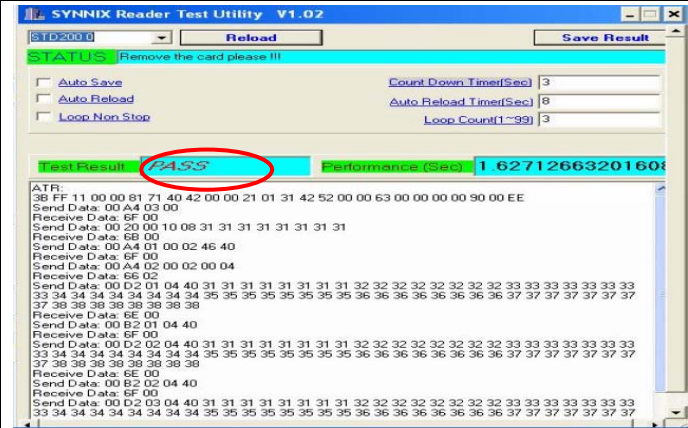
### 2.6.5 MSR+ Smart Card

| Item                    | Photo   | Description  |
|-------------------------|---|--|
| 1                       |    | 1. MSR 3 tracks (Serial Port) + Smart Card Reader module (USB)   |
| <b>H/W Installation</b> |   |  |
| 1                       |   | 1. Screw off the cover.  |
| 2                       |  | 1. Pass through the cables under the Inverter BD, connect to COM cable to CN12 as red mark 1. Connect Smart cable to JP6 as red mark2. |
| 3                       |  | 1. Screw up the module to the slot   |








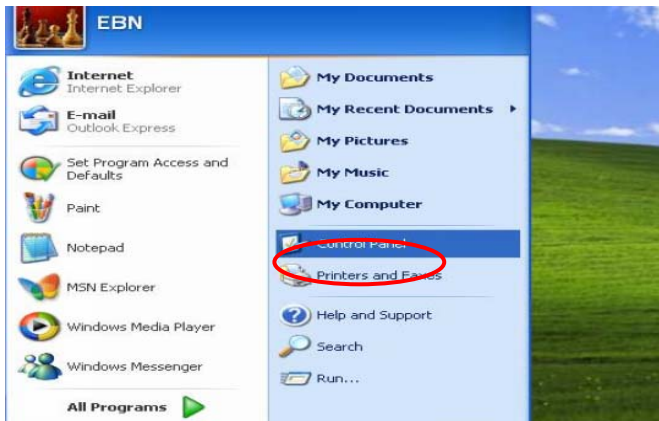
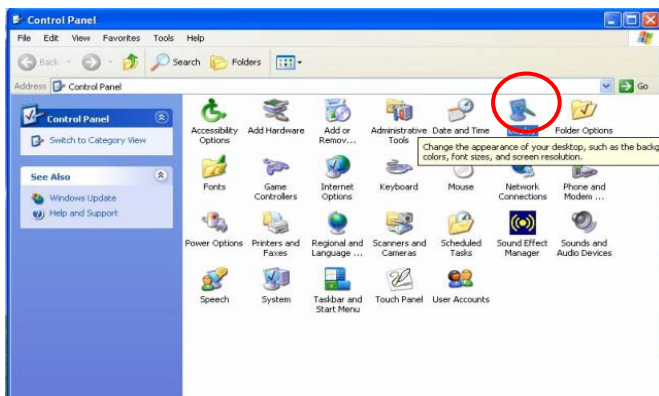
|   |   |  |
|---|---|--|
|   | <b>Verification MSR</b>   |  |
| 1 |    | <ol style="list-style-type: none"> <li>1. Enter to "All Programs" → "Communication" → "Hyper Terminal"</li> <li>2. b. Set the configuration as same to VFD as above</li> </ol> |
| 2 |   | <ol style="list-style-type: none"> <li>1. Set on using COM5 port.</li> </ol>   |
| 3 |  | <ol style="list-style-type: none"> <li>1. Set on Baud Rate to be 9600 bps.</li> </ol>  |
| 4 |  | <ol style="list-style-type: none"> <li>1. Stripe the MSR card to Reader and complete test OK</li> </ol>  |

|   |   |  |
|---|---|--|
|   | <h2>Smart Card Driver Installation and Verification</h2>                            |  |
| 1 |    | <ol style="list-style-type: none"> <li>1. Select “Yes, this time only” and Click Next</li> </ol>                     |
| 2 |   | <ol style="list-style-type: none"> <li>1. Install the software automatically [Recommended] and Click Next</li> </ol> |
| 3 |  | <ol style="list-style-type: none"> <li>1. Click Finish for complete installation</li> </ol>                          |
| 4 |  | <ol style="list-style-type: none"> <li>1. Enter to Smart Card Utility → Select “SYN_PcSc_Test”</li> </ol>            |

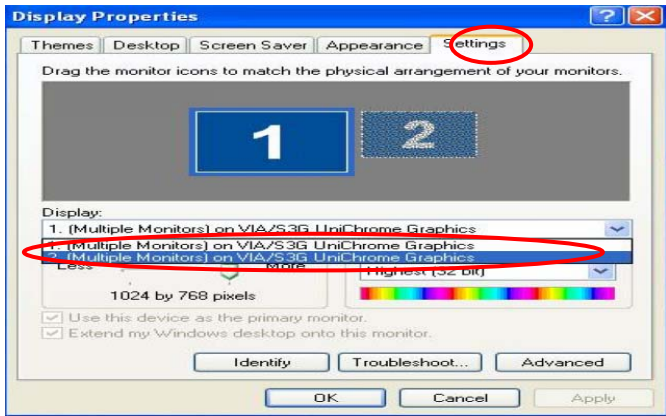
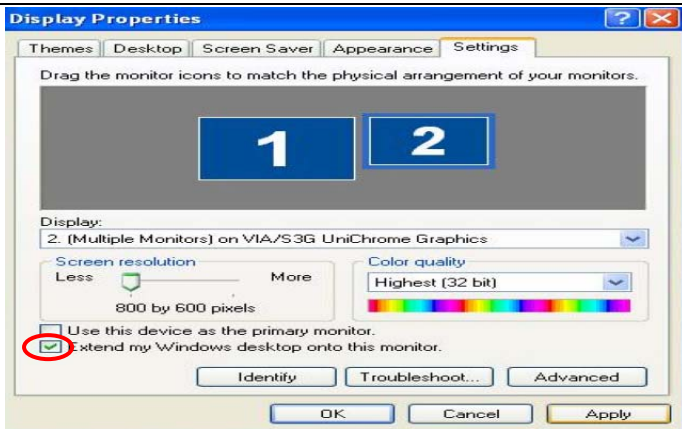
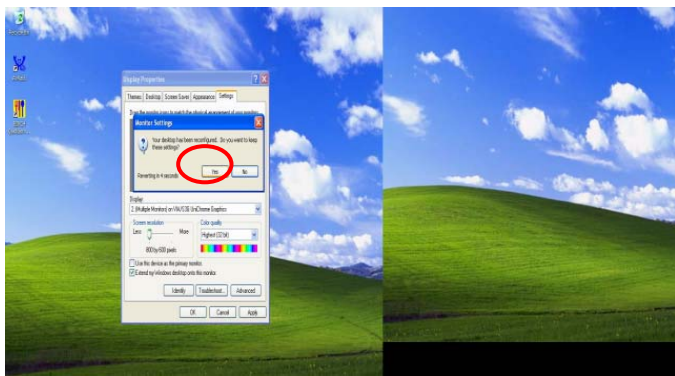

| Item | Photo   | Description                     |
|------|---|---------------------------------|
| 5    |    | 1. Select STD 200 0             |
| 6    |   | 1. Insert IC Card to slot       |
| 7    |  | 1. Show “PASS” complete test OK |

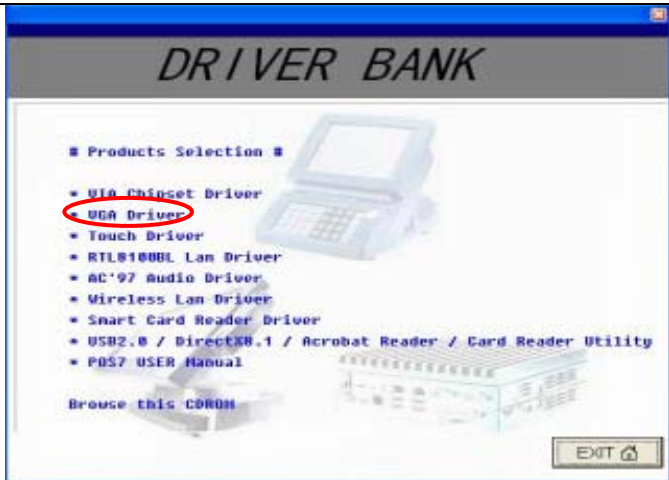



### 2.6.6 2nd Display W/ Touch

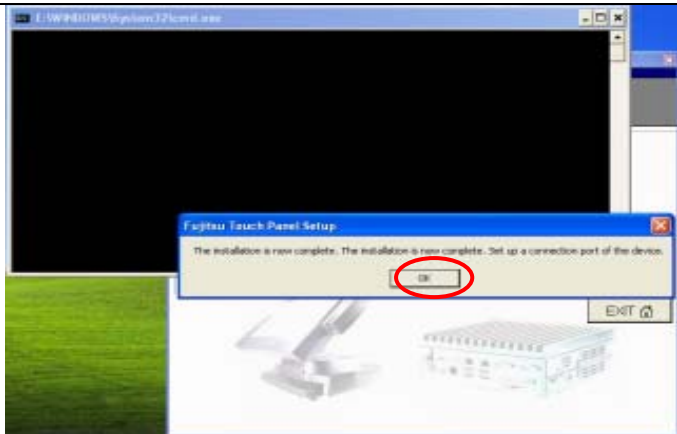
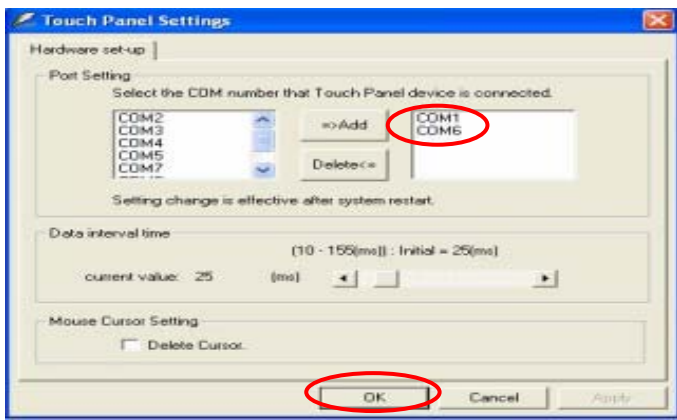
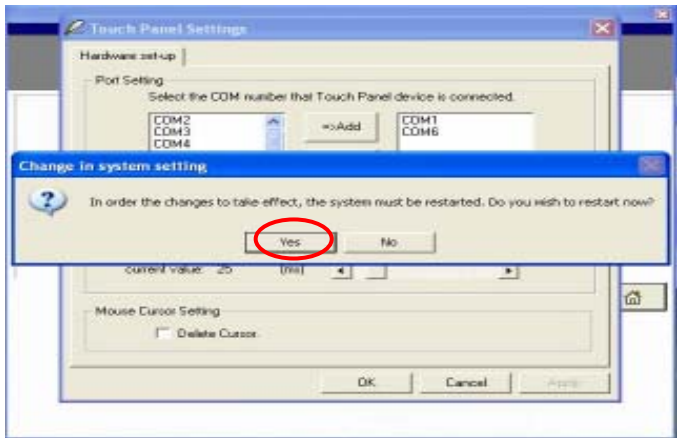
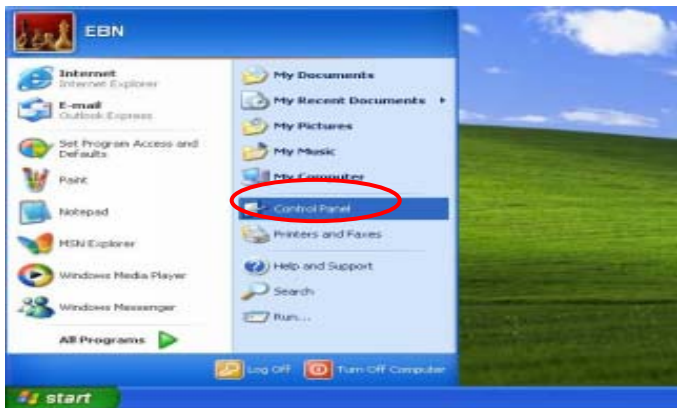
| Item | Photo   | Description   |
|------|---|---|
| 1    |    | <ol style="list-style-type: none"> <li>1. 12.1 / 15" display with Fujitsu Touch Panel</li> <li>2. Cable 1: VGA with power pin I/P.<br/>Cable 2: Serial touch with power pin I/P.</li> </ol> |
|      | <b>H/W Installation</b>   |   |
| 1    |   | <ol style="list-style-type: none"> <li>1. Screw off the two screws as red mark.</li> </ol>  |
| 2    |  | <ol style="list-style-type: none"> <li>1. Install the second display unit with POS70</li> </ol>   |

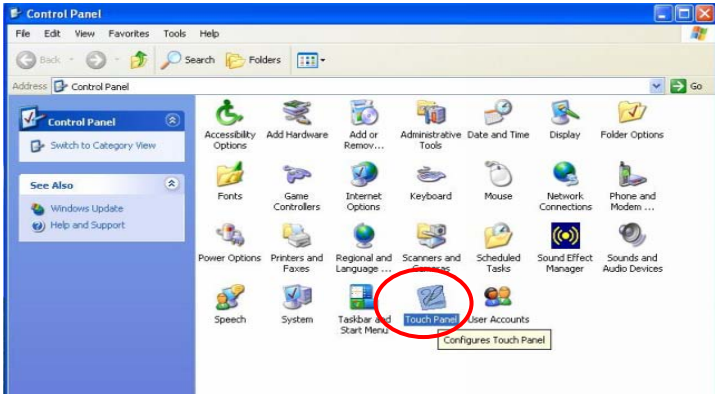
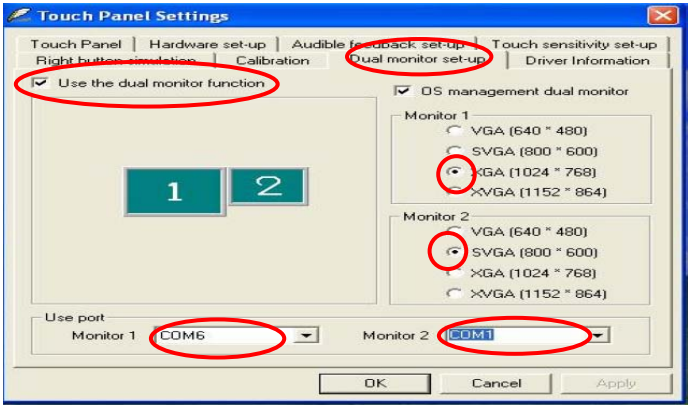
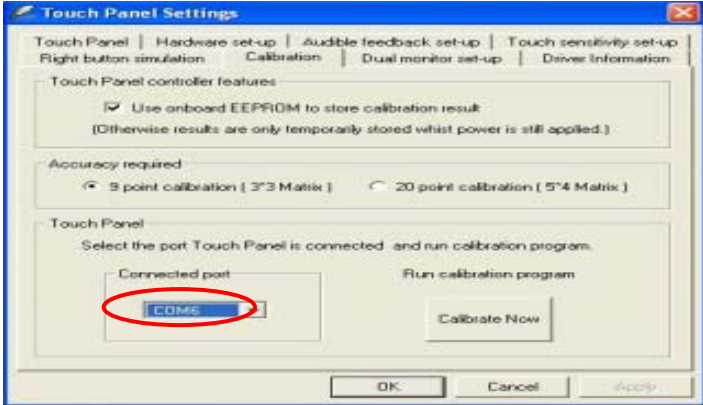
| Item                                 | Photo  | Description  |      |       |      |        |       |        |      |       |      |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
|--------------------------------------|--|--|------|-------|------|--------|-------|--------|------|-------|------|--|--|------|------|------|------|------|------|------|------|------|------|------|------|----|-------|-------|----|------|-----|----|-------|-------|----|------|-----|-----|-------|-------|-----|-----|-----|-----|-------|-------|-----|-----|-----|----|-------|-------|----|-------|-----|----|-------|-------|----|-------|-----|---|
| 3                                    |   | 1. Fasten the 2nd display with 6 screws as red mark. Connect cable 1 to VGA port and cable 2 to COM1 |      |       |      |        |       |        |      |       |      |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| 4                                    |  <table data-bbox="256 904 940 1124"><thead><tr><th colspan="6">Item 2</th><th colspan="6">Item 3</th></tr><tr><th>COM1</th><th>Pin1</th><th>Pin8</th><th>COM2</th><th>Pin1</th><th>Pin8</th><th>COM3</th><th>Pin1</th><th>Pin8</th><th>COM4</th><th>Pin1</th><th>Pin8</th></tr></thead><tbody><tr><td>5V</td><td>21-22</td><td>15-16</td><td>5V</td><td>9-10</td><td>3-4</td><td>5V</td><td>21-22</td><td>15-16</td><td>5V</td><td>9-10</td><td>3-4</td></tr><tr><td>12V</td><td>18-20</td><td>13-14</td><td>12V</td><td>7-8</td><td>1-2</td><td>12V</td><td>18-20</td><td>13-14</td><td>12V</td><td>7-8</td><td>1-2</td></tr><tr><td>5V</td><td>23-24</td><td>17-18</td><td>5V</td><td>11-12</td><td>5-6</td><td>5V</td><td>23-24</td><td>17-18</td><td>5V</td><td>11-12</td><td>5-6</td></tr></tbody></table> | Item 2   |      |       |      |        |       | Item 3 |      |       |      |  |  | COM1 | Pin1 | Pin8 | COM2 | Pin1 | Pin8 | COM3 | Pin1 | Pin8 | COM4 | Pin1 | Pin8 | 5V | 21-22 | 15-16 | 5V | 9-10 | 3-4 | 5V | 21-22 | 15-16 | 5V | 9-10 | 3-4 | 12V | 18-20 | 13-14 | 12V | 7-8 | 1-2 | 12V | 18-20 | 13-14 | 12V | 7-8 | 1-2 | 5V | 23-24 | 17-18 | 5V | 11-12 | 5-6 | 5V | 23-24 | 17-18 | 5V | 11-12 | 5-6 | 1. Remove the jumper cover, adjust Pin1 21-22 close for COM1 to be 5V |
| Item 2                               |  |  |      |       |      | Item 3 |       |        |      |       |      |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| COM1                                 | Pin1   | Pin8   | COM2 | Pin1  | Pin8 | COM3   | Pin1  | Pin8   | COM4 | Pin1  | Pin8 |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| 5V                                   | 21-22  | 15-16  | 5V   | 9-10  | 3-4  | 5V     | 21-22 | 15-16  | 5V   | 9-10  | 3-4  |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| 12V                                  | 18-20  | 13-14  | 12V  | 7-8   | 1-2  | 12V    | 18-20 | 13-14  | 12V  | 7-8   | 1-2  |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| 5V                                   | 23-24  | 17-18  | 5V   | 11-12 | 5-6  | 5V     | 23-24 | 17-18  | 5V   | 11-12 | 5-6  |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| Driver Installation and Verification |  |  |      |       |      |        |       |        |      |       |      |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| 1                                    |   | Driver Installation and Verification<br>1. Display Setup<br>2. Enter to “Control Panel”              |      |       |      |        |       |        |      |       |      |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |
| 2                                    |   | 1. Click “Display” icon  |      |       |      |        |       |        |      |       |      |  |  |      |      |      |      |      |      |      |      |      |      |      |      |    |       |       |    |      |     |    |       |       |    |      |     |     |       |       |     |     |     |     |       |       |     |     |     |    |       |       |    |       |     |    |       |       |    |       |     |   |




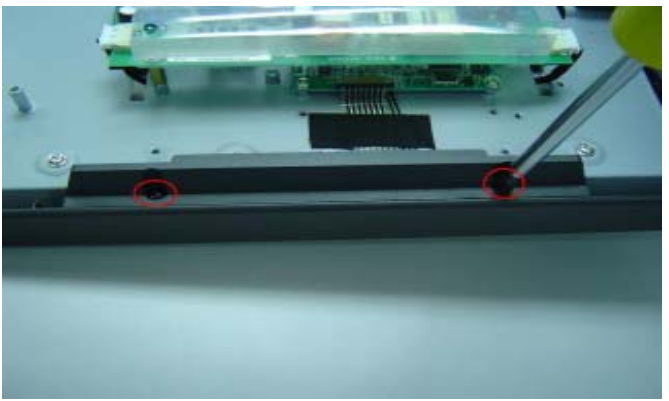


| Item                        | Photo   | Description   |
|-----------------------------|---|---|
| 3                           |    | <ol style="list-style-type: none"> <li>1. Set main display by “Settings” to</li> <li>2.[Multiple Monitors ]...</li> </ol>                       |
| 4                           |   | <ol style="list-style-type: none"> <li>1. Select “Extend my Windows Desktop onto this monitor on VIA/S3G.</li> </ol>                            |
| 5                           |  | <ol style="list-style-type: none"> <li>1. Click “Yes” for save the settings.<br/>The 2nd display was shown out the extend the screen</li> </ol> |
| <b>Install Touch Driver</b> |   |   |
| 1                           |  | <ol style="list-style-type: none"> <li>1. Insert the Driver Bank disc to CD ROM→Select “POS7 Series”</li> </ol>                                 |

| Item | Photo   | Description   |
|------|---|---|
| 2    |    | 1. Select “Touch Driver”                                  |
| 3    |   | 1. Select “FUJITSU TOUCH PANEL”                           |
| 4    |  | 1. Select “Fujitsu Touch Panel Driver (SERIAL Interface)” |
| 5    |  | 1. Select “Non Plug and Play Device” and click OK         |

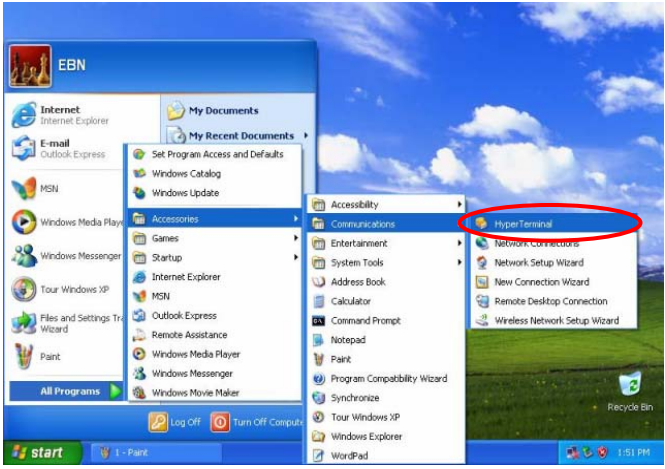

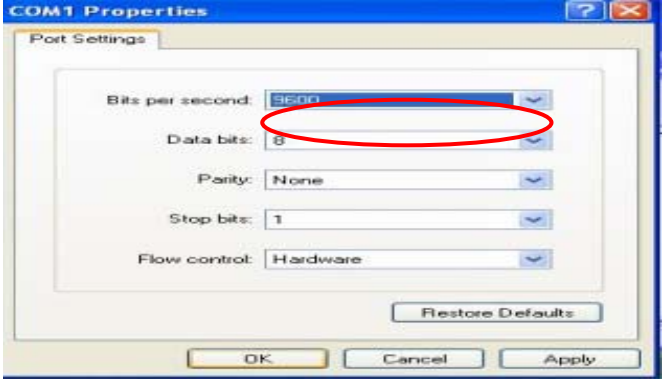
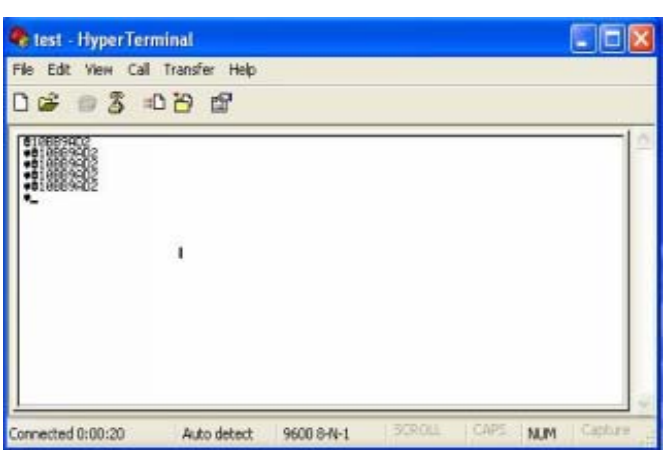
| Item | Photo   | Description  |
|------|---|--|
| 6    |  A screenshot of a Windows XP desktop with a green grass background. A small dialog box titled 'Fujitsu Touch Panel Setup' is open. It contains the text: 'The installation is now complete. The installation is now complete. Set up a connection port of the device.' At the bottom right of the dialog box, the 'OK' button is circled in red.                              | 1. Click OK for completed installation                     |
| 7    |  A screenshot of the 'Touch Panel Settings' dialog box. The 'Port Setting' tab is active. It shows a list of COM ports on the left (COM2, COM3, COM4, COM5, COM7) and a list on the right (COM1, COM6). The 'COM1' and 'COM6' entries are circled in red. Below the lists are 'Add' and 'Delete' buttons. At the bottom of the dialog box, the 'OK' button is circled in red. | 1. Select dual port for touch by COM1 and COM6             |
| 8    |  A screenshot showing two overlapping dialog boxes. The top dialog box is titled 'Change in system setting' and contains the text: 'In order the changes to take effect, the system must be restarted. Do you wish to restart now?'. The 'Yes' button is circled in red. The bottom dialog box is the 'Touch Panel Settings' dialog box, partially obscured.                 | 1. Completed installation → Click “Yes” for restart system |
| 9    |  A screenshot of the Windows XP Start menu. The 'Control Panel' link is highlighted with a red circle. The Start menu is open, showing various applications and system links.  | 1. Enter to “Control Panel”                                |

| Item | Photo   | Description   |
|------|---|---|
| 10   |    | 1. Click “Touch Panel” icon                             |
| 11   |   | 1. Select Dual monitor set-up                           |
| 12   |  | 1. Select “Calibration” →<br>Connected port COM1 & COM6 |




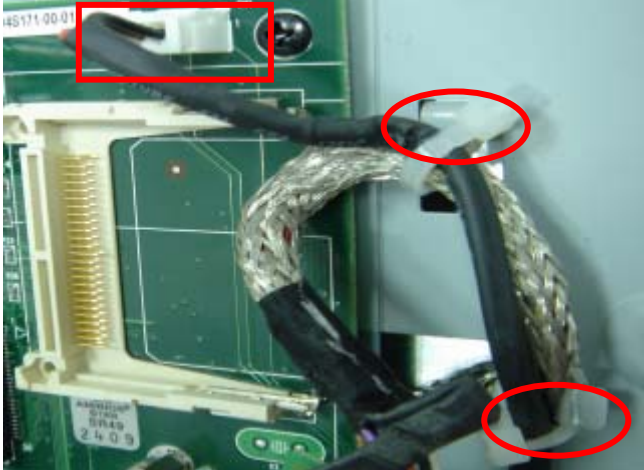
### 2.6.7 RFID


| Item                    | Photo   | Description   |
|-------------------------|---|---|
| 1                       |    | <p>1. RFID module (Serial I/F)</p>  |
| <b>H/W Installation</b> |   |   |
| 1                       |   | <p>1. Screw off the cover.</p>  |
| 2                       |  | <p>1. Pass through the RFID cable under the Inverter BD, connect to CN12 of M/B</p> |
| 3                       |  | <p>1. Screw up the RFID on the slot.</p>  |




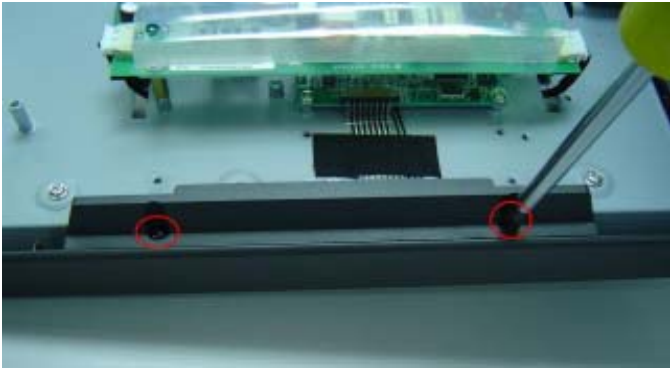
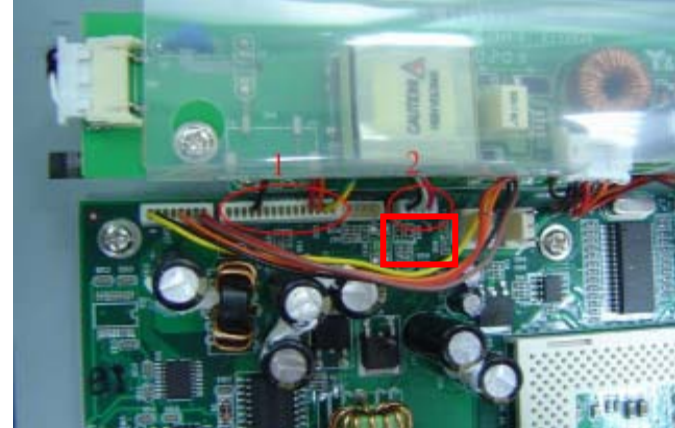
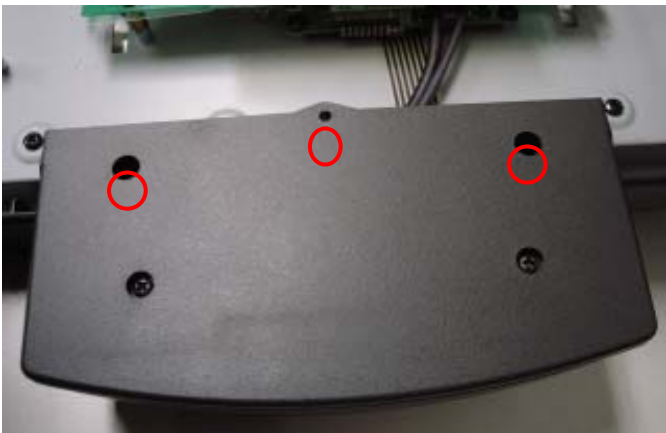
|   |   |  |
|---|---|--|
|   | <b>Verification</b>   |  |
| 1 |    | <ol style="list-style-type: none"> <li>1. Enter to "All Programs" → "Communication" → "Hyper Terminal"</li> <li>2. Set the configuration as same VFD as above</li> </ol> |
| 2 |   | <ol style="list-style-type: none"> <li>1. Set on using COM5 port.</li> </ol>   |
| 3 |  | <ol style="list-style-type: none"> <li>1. Set on Baud Rate to be 9600 bps.</li> </ol>  |
| 4 |  | <ol style="list-style-type: none"> <li>1. Attach the RFID card to Reader, completed test OK</li> </ol>   |

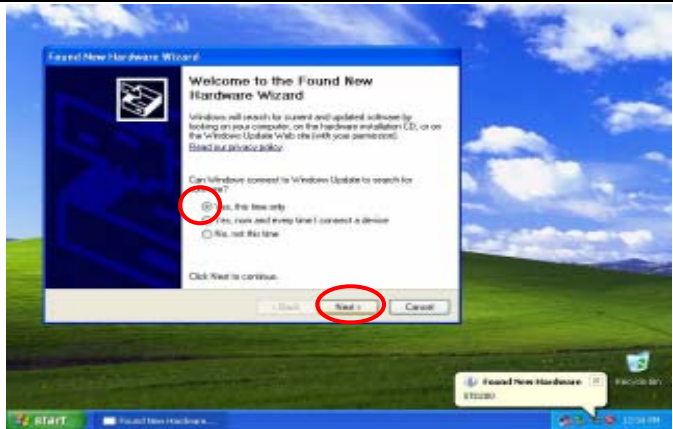
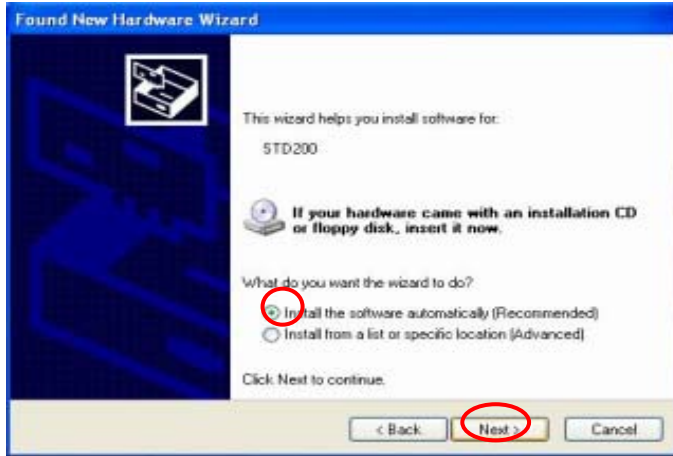

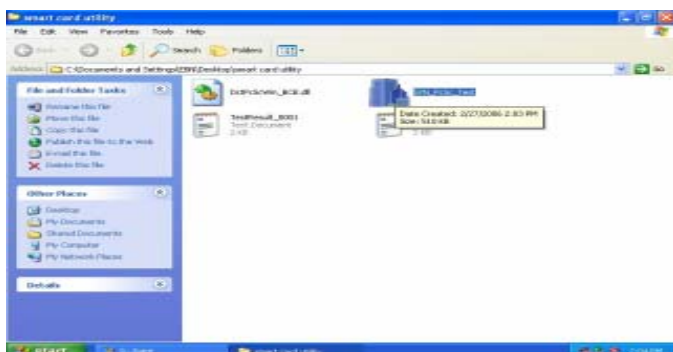
### 2.6.8 Compact Flash

| Item | Photo   | Description   |
|------|---|---|
| 1    |    | <ol style="list-style-type: none"> <li>1. Compact Flash</li> </ol>  |
| 2    |   | <ol style="list-style-type: none"> <li>1. Use screw driver to open upper case</li> <li>2. Remove 2 screws</li> </ol>        |
| 3    |  | <ol style="list-style-type: none"> <li>1. Remove 2 screws on bridge board</li> </ol>  |
| 4    |  | <ol style="list-style-type: none"> <li>1. Take off plastic strings from the hook</li> <li>2. Remove bottom cable</li> </ol> |

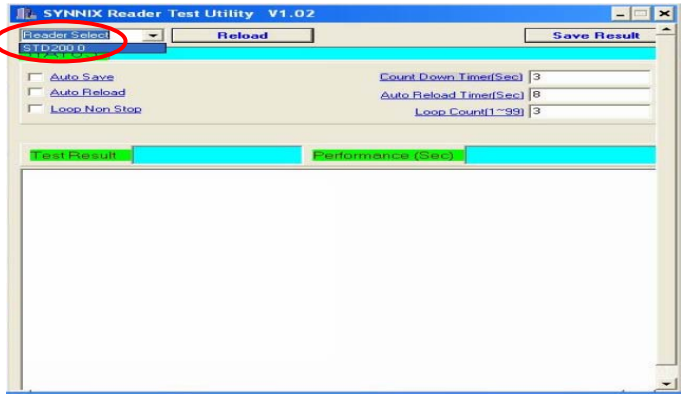
| Item | Photo   | Description                    |
|------|---|--------------------------------|
| 5    |  | 1. Put compact flash on socket |

### 2.6.9 Smart Card


| Item                    | Photo   | Description  |
|-------------------------|---|--|
| 1                       |    | 1. MSR 3 tracks (Serial Port) + Smart Card Reader module (USB)                           |
| <b>H/W Installation</b> |   |  |
| 1                       |   | 1. Screw off the cover.  |
| 2                       |  | 1. Pass through the cables under the Inverter BD. Connect Smart cable to JP6 as red mark |
| 3                       |  | 1. Screw up the module to the slot   |

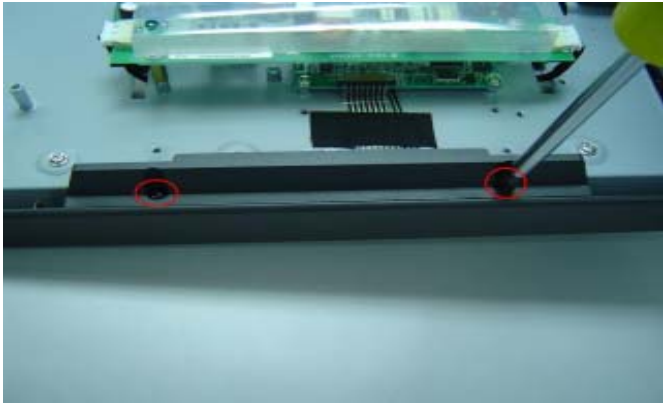


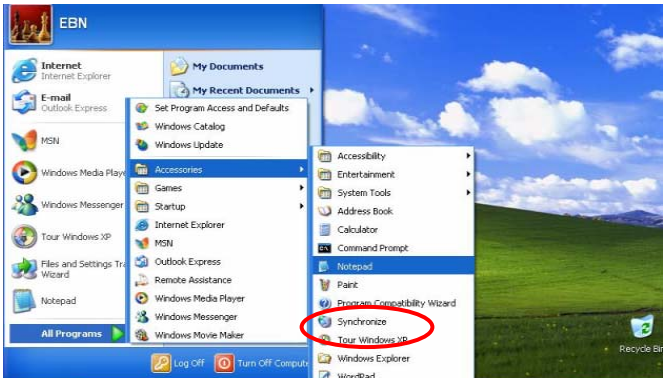
|   |   |  |
|---|---|--|
|   | <b>Smart Card Driver Installation and Verification</b>                              |  |
| 1 |    | 3. Select “Yes, this time only” and Click Next                     |
| 2 |   | 4. Install the software automatically [Recommended] and Click Next |
| 3 |  | 5. Click Finish for complete installation                          |
| 4 |  | 6. Enter to Smart Card Utility → Select “SYN_PcSc_Test”            |



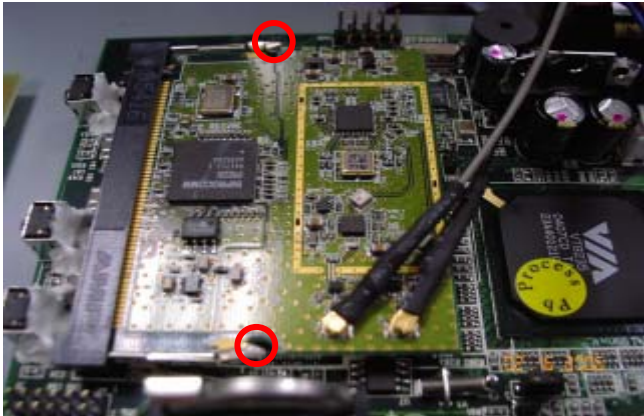

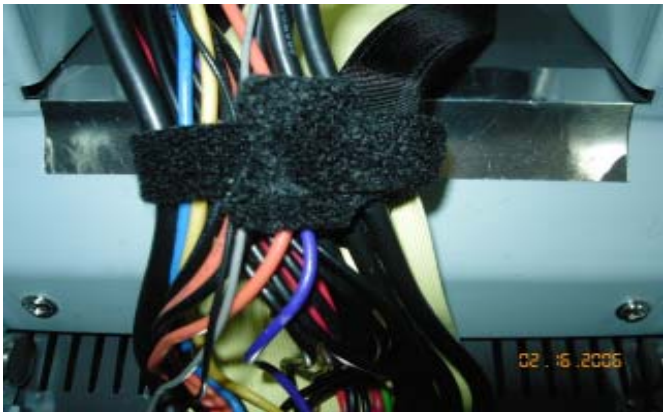

| Item | Photo   | Description                     |
|------|---|---------------------------------|
| 5    |    | 7. Select STD 200 0             |
| 6    |   | 8. Insert IC Card to slot       |
| 7    |  | 9. Show “PASS” complete test OK |
|      |   |                                 |

## 2.6.10 I Button

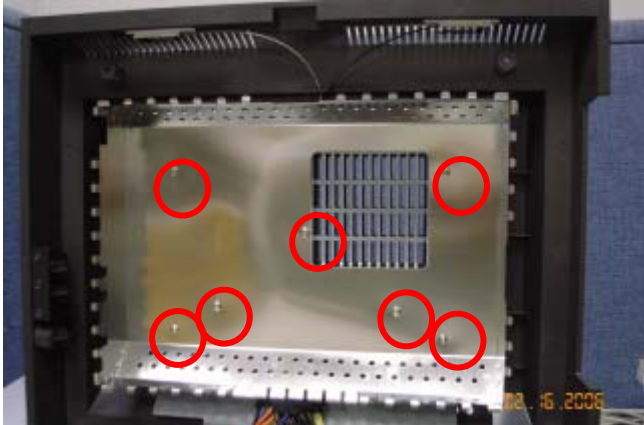
| Item | Photo   | Description                |
|------|---|----------------------------|
| 1    |  | 1. PS2-I button module kit |

|   |   |  |
|---|---|--|
|   | <b>H/W Installation</b>   |  |
| 1 |    | 1. Screw off the cover.  |
| 2 |   | 1. Pass through the I-button under the Inverter BD, connect to CN12 of M/B |
| 3 |  | 1. Screw up the MSR to slot.   |
|   | <b>Verification</b>   |  |
| 1 |  | 1. Enter to “Accessories” → “Notepad”                                      |



| Item | Photo   | Description   |
|------|---|---|
| 4    |    | <ol style="list-style-type: none"> <li>1. Press Wireless LAN Card</li> <li>2. Make sure connected well</li> </ol>   |
| 5    |   | <ol style="list-style-type: none"> <li>1. Remove 2 screws from cover bracket</li> <li>2. Remove cover bracket</li> <li>3. Antenna cable needs to go under cover bracket</li> <li>4. Remove EMI cover</li> </ol> |
| 6    |  | <ol style="list-style-type: none"> <li>1. Tied Antenna cable with other cables</li> </ol>   |
| 7    |  | <ol style="list-style-type: none"> <li>1. Stick the Antenna by temped tape to back cover</li> </ol>   |



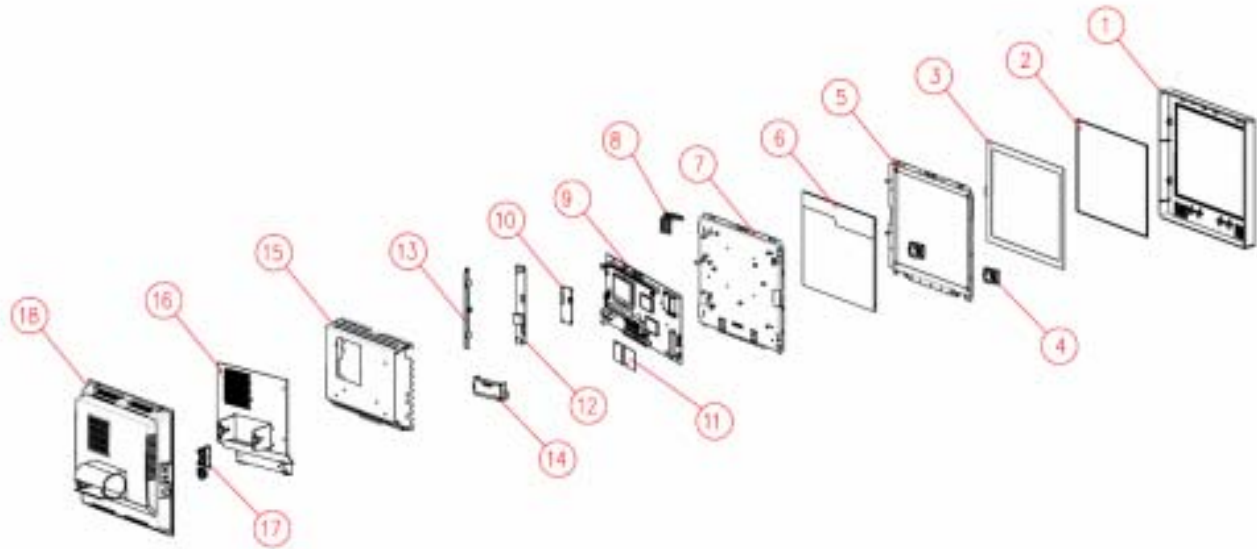
| Item | Photo   | Description                       |
|------|---|-----------------------------------|
| 8    |  | 1. Tighten 7 screws on EMI cover. |



### 3 Chapter 3 : Spare parts list

#### 3.1 Main Unit

##### 3.1.1 Explode of Main Unit



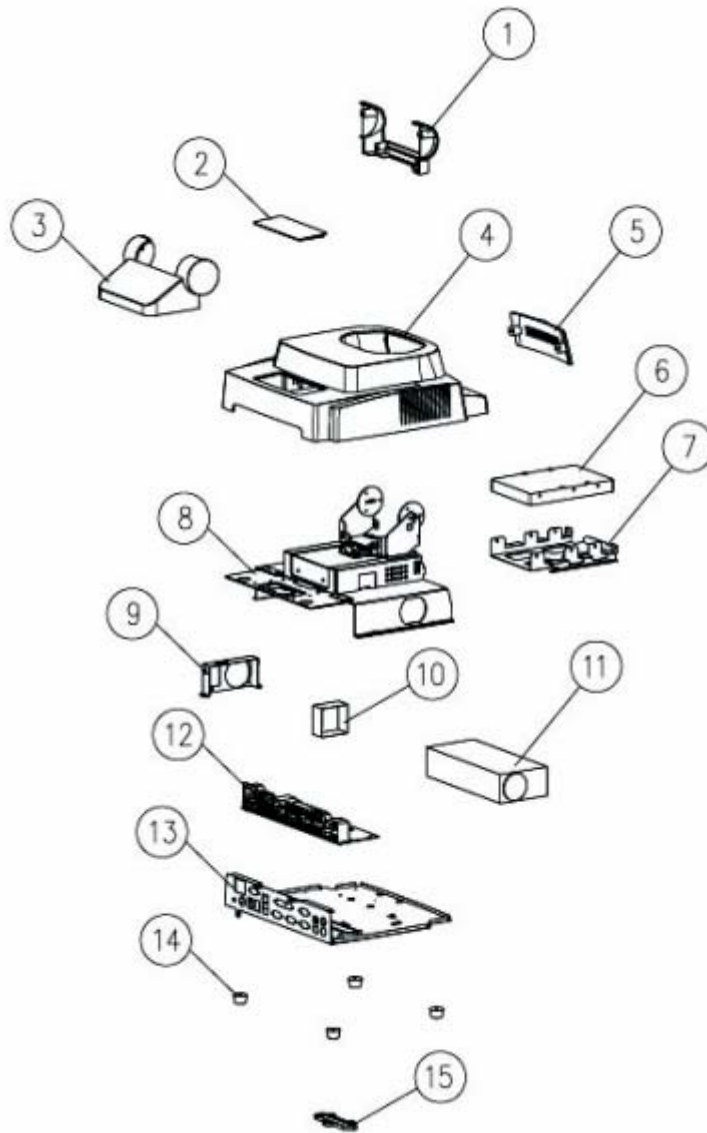
##### 3.1.2 Main Unit Parts list & quotation

| Item | Parts No.   | Description                                | Q'ty | Price (US\$) |
|------|-------------|--|------|--------------|
| 1+2  | 10500004RH  | 15.0" Bezel PC+ABS 1CAV                    | 1    | Call Sales   |
|      |             | @Rubber Black +T4000, 310*2.4*1.5T         | 2    |              |
|      |             | @Rubber Black +T4000, 238*2.4*1.5T         | 2    |              |
| 1+2  | 10500025RH  | 12.1" Bezel PC+ABS 1CAV                    | 1    | Call Sales   |
|      |             | @ Rubber Black +T4000, 252*1.8*1T          | 2    |              |
|      |             | @ Rubber Black +T4000, 195*1.8*1T          | 2    |              |
| 3+5  | A10400288RH | Fujitsu 15.0"touch panel<br>N010-0510-T237 | 1    | Call Sales   |
|      |             | Touch Screen Holder- 15.0"                 | 1    |              |
|      |             | @SPONG FOR POS70 – 15.0 312*5*1            | 2    |              |
|      |             | @SPONG FOR POS70 – 15.0 245*5*1            | 2    |              |
| 3+5  | A10400582RH | Fujitsu 12.1"touch panel                   | 1    | Call Sales   |
|      |             | Touch Screen Holder-12.1" w/ Sponge        | 1    |              |
| 4    | 10500003RH  | Square Speaker(Left and Right)             | 1    | Call Sales   |
|      |             | Speaker Cable                              | 1    |              |

| Item         | Parts No.  | Description                                      | Q'ty | Price (US\$) |
|--------------|------------|--|------|--------------|
| 6            | 21100014RH | LCD, AUO 15" 1024 x 768, 350nits                 | 1    | Call Sales   |
| 6            | 21100001RH | LCD, LG 12"1, 800*600, 300nits                   | 1    | Call Sales   |
| 7            | 30100017RH | LCD Chassis-15.0(AUO)                            | 1    | Call Sales   |
| 7            | 30100010RH | LCD Chassis-12.0 (LG)                            | 1    | Call Sales   |
| 8            | 30200007RH | LED Lens, transparent                            | 1    | Call Sales   |
| 9            | 10100001RH | Main Board,                                      | 1    | Call Sales   |
| 10           | 10100004RH | FUJITSU Touch Panel Control Board:N16B-0558-B280 | 1    | Call Sales   |
| 11           | 10100007RH | Bridge Board-TTL, 18Bit+TTL (12.1", LG LCD)      | 1    | Call Sales   |
| 11           | 10100006RH | Bridge Board-LVDS, 24Bit (15", AUO LCD)          | 1    | Call Sales   |
| 12           | 22400012RH | Inverter: 12.1/15.0", 8mA, RI1205-06G            | 1    | Call Sales   |
| 13           | 30200015RH | LCD BASE Cover, ABS, Black                       | 1    | Call Sales   |
| 14           | 30100003RH | Cable Cover Bracket , 0.3T                       | 1    | Call Sales   |
| 15           | 30100120RH | EMI Chassis                                      | 1    | Call Sales   |
| 16+17+1<br>8 | 10500005RH | LCD Hinge Assembly                               | 1    | Call Sales   |
|              |            | Key Pad  | 1    |              |
|              |            | 15" LCD Base                                     | 1    |              |
| 16+17+1<br>8 | 10500006RH | LCD Hinge Assembly                               | 1    | Call Sales   |
|              |            | Key Pad  | 1    |              |
|              |            | 12.1" LCD Base                                   | 1    |              |

## 3.2 Base Unit



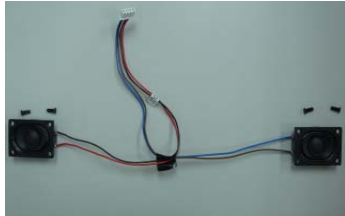
### 3.2.1 Explode of Base Unit



### 3.2.2 Base Unit Parts list & quotation


| Item           | Parts No.   | Description                             | Q'ty | Price (US\$) |
|----------------|-------------|---|------|--------------|
| <b>1</b>       | 10500002RH  | Swivel Front Cover, Black Sub-ASSY      | 1    | Call Sales   |
| <b>2</b>       | 30200009RH  | KIT Cover                               | 1    | Call Sales   |
| <b>3</b>       | 10500001RH  | Swivel Rear Cover, Black Sub-ASSY       | 1    | Call Sales   |
| <b>4</b>       | 30200003RH  | Base Housing,PC+ABS,Black               | 1    | Call Sales   |
| <b>5</b>       | 30200013RH  | HDD Cover                               | 1    | Call Sales   |
| <b>7</b>       | 30100006RH  | HDD Tray                                | 1    | Call Sales   |
| <b>8</b>       | 10200004RH  | 15"/12.1" Swivel Hinge Assembly         | 1    | Call Sales   |
| <b>9+10+11</b> | A10400216RH | Power Supply Module:<br>1U, 220W, W/PFC | 1    | Call Sales   |
| <b>12</b>      | 10100002RH  | I/O Board                               | 1    | Call Sales   |
| <b>13</b>      | 30100002RH  | Base Chassis                            | 1    | Call Sales   |
| <b>14</b>      | 30500024RH  | Plastic Foot                            | 4    | Call Sales   |
| <b>15</b>      | 30200016RH  | Jumper Cover                            | 1    | Call Sales   |

### 3.3 Cables

| Part No.   | Description                       | Photos   | Price      |
|------------|-----------------------------------|--|------------|
| 21600003RH | Cable, M/B To Inverter            |  | Call Sales |
| 21600004RH | Cable, M/B To Touch Control Board |  | Call Sales |
| 21600006RH | Cable, M/B To Speaker             |  | Call Sales |

| Part No.   | Description   | Photos   | Price (US\$) |
|------------|---|--|--------------|
| 21600007RH | Cable, M/B To I/O BD 100P   |    | Call Sales   |
| 21600008RH | Cable, M/B To HDD 80P   |    | Call Sales   |
| 21600009RH | Cable, 2 <sup>nd</sup> VGA to I/O board<br>10 pin transfer to D-SUB 15 pins |   | Call Sales   |
| 21600016RH | Cable, M/B To I/O BD 20P<br>USB   |  | Call Sales   |
| 21600088RH | POS-70 IDE Y CABLE  |  | Call Sales   |
| 21600089RH | POS-70 HDD POWER Y CABLE  |  | Call Sales   |




| Part No.   | Description           | Photos   | Price (US\$) |
|------------|-----------------------|--|--------------|
| 21600002RH | Cable for 24V Printer |  | Call Sales   |

### 3.4 Accessories

#### 3.4.1 Power Cord

| Part No.   | Description   | Photos   | Price (US\$) |
|------------|---|--|--------------|
| 20700001RH | POWER CORE FOR USA<br>         |    | Call Sales   |
| 20700005RH | POWER CORD FOR UK<br>         |   | Call Sales   |
| 20700002RH | POWER CORD FOR EUR<br>       |  | Call Sales   |
| 20700004RH | POWER CORD FOR Australia<br> |  | Call Sales   |

#### 3.4.2 HDD



| Part No.   | Description                                     | Photos   | Price (US\$) |
|------------|---|--|--------------|
| 20200009RH | SEAGATE 5400RPM-40G HDD ULTRA ATA/100 ST340015A |  | Call Sales   |
| 20200006RH | 80G HDD WD 7200RPM                              |  | Call Sales   |

#### 3.4.3 Pole Display


| Part No. | Description | Photos | Price (US\$) |
|----------|-------------|--------|--------------|
|----------|-------------|--------|--------------|

|             |          |  |            |
|-------------|----------|--|------------|
| A10400265RH | VFD Type |  | Call Sales |
| A10400264RH | LCD Type |  | Call Sales |

#### 3.4.4 MSR

| Part No.    | Description     | Photos   | Price (US\$) |
|-------------|-----------------|--|--------------|
| A10400010RH | 2 Track : PS2   |   | Call Sales   |
| A10400023RH | 2 Track : RS232 |  | Call Sales   |
| A10400009RH | 3 Track : PS2   |  | Call Sales   |
| A10400024RH | 3 Track : RS232 |  | Call Sales   |


#### 3.4.5 2nd Display

| Part No.    | Description            | Photos   | Price (US\$) |
|-------------|------------------------|--|--------------|
| A10400022RH | 12" TFT LCD(w/o Touch) |  | Call Sales   |
| A10400004RH | 15" TFT LCD(w/o Touch) |  | Call Sales   |
| A10400062RH | 12" TFT LCD(w/ Touch)  | NA   | Call Sales   |
| A10400107RH | 15" TFT LCD(w/ Touch)  | NA   | Call Sales   |


### 3.4.6 OS

| Part No.   | Description                         | Price (US\$) |
|------------|-------------------------------------|--------------|
| 20900003RH | Win2000 Professional Edition        | Call Sales   |
| 20900001RH | WinXP Professional Edition          | Call Sales   |
| 20900008RH | Microsoft XP Home SP2, Chinese Ver. | Call Sales   |
| 20900002RH | WEPOS, English Ver.                 | Call Sales   |

### 3.4.7 RFID

| Part No.    | Description | Photos   | Price (US\$) |
|-------------|-------------|--|--------------|
| A10400005RH | RFID        |  | Call Sales   |


### 3.4.8 Compact Flash

| Part No.   | Description         | Photos   | Price (US\$) |
|------------|---------------------|--|--------------|
| 20600001RH | Compact Flash 128MB |  | Call Sales   |
| 20600002RH | Compact Flash 256MB |  | Call Sales   |
| 20600003RH | Compact Flash 512MB |  | Call Sales   |
| 20600005RH | Compact Flash 1G    |  | Call Sales   |


### 3.4.9 Memory

| Part No.   | Description   | Price (US\$) |
|------------|---------------|--------------|
| 20300001RH | Memory: 128MB | Call Sales   |
| 20300002RH | Memory: 256MB | Call Sales   |
| 20300003RH | Memory: 512MB | Call Sales   |
| 20300004RH | Memory: 1G    | Call Sales   |



### 3.4.10 Smart Card +MSR 3T RS232

| Part No.    | Description              | Photos   | Price (US\$) |
|-------------|--------------------------|--|--------------|
| A10400104RH | Smart Card +MSR 3T RS232 |  | Call Sales   |

3.4.11 I Button +MSR 2T KB

| Part No.    | Description         | Photos   | Price (US\$) |
|-------------|---------------------|--|--------------|
| A10400121RH | I Button +MSR 2T KB |  | Call Sales   |

3.4.12 Wireless LAN

| Part No.   | Description                      | Photos   | Price (US\$) |
|------------|----------------------------------|--|--------------|
| 30400001RH | ANTENNA 35B/L+R                  |   | Call Sales   |
| 10100029RH | WIRELESS LAN 11g MINI PCI MODULE |  | Call Sales   |