



Service Manual

PPC 50 Series

*PPC-5008T-LX800

*PPC-5012T-LX800

*PPC-5015T-LX800

August 2006

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1 Chapter 1 Troubleshooting

1.1 Symptoms and Solutions

Error Code	Symptom	Check Points	Detail Steps
3200	NO BOOT with Power On	1.RAM 2.MB	<ol style="list-style-type: none"> 1. Check LED Light (Upper Left) should be on 2. If yes to item 1, open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), check if RAM well plugged on the memory slot 3. Check golden finger cleanness, if not clean, use pencil eraser to clean golden finger 4. If still fail, replace with another RAM for testing 5. If fail, replace with another mother board for testing 6. If fail, RMA system to manufacturer
3100	NO POWER	<ol style="list-style-type: none"> 1. Power cord 2. Power Supply 3. Power button cable 4. MB 	<ol style="list-style-type: none"> 1. Check Power Cord is well plugged or not 2. If yes to item 1, check power supply LED is on with green light. 3. If yes to item2, check power cord to M/B well connected or not. 4. If yes to item 3, replace with another power cord for testing 5. If fail, open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), check power button cable to M/B(CN13) well connected 6. If yes to item 5, plug power cord, use short jumper to short 2 pins on CN13 for 1 second. Check if LED on front cover(Upper Left) is on 7. If LED is on, replace with another power button cable for testing. 8. If LED is not on, replace with another MB(LX800) for testing 9. If fail, System RMA to manufacturer
3201	System HANG Up	1.RAM 2.MB	<ol style="list-style-type: none"> 1. Shut Down Power, open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), check if RAM well plugged on the memory slot 2. Check golden finger cleanness, if not clean, use pencil eraser to clean golden finger 3. If still fail, replace with another RAM for testing 4. If fail, replace with another MB for testing 5. If fail, System RMA to manufacturer

Error Code	Symptom	Check Points	Detail Steps
3300	LCD Blank	1. Inverter Cable 2. Inverter to LCD cable 3. Main board to LCD cable 4. Inverter Board 5. MB	1. Shut Down Power, 2. Open rear cover, open EMI chassis, remove inverter cover, check if inverter cable well connected between MB and inverter board 3. If yes, replace with another inverter cable for testing 4. If fail, check if LCD cable well connected with inverter board. 5. If yes, replace with another LCD cable for testing. 6. If fail, check if LCD signal cable well connected on MB(CN12) 7. If yes, replace with another LCD signal cable for testing 8. If fail, replace with another inverter board for testing 9. If fail, replace with another MB for testing 10. If fail, System RMA to manufacturer
3301	LCD Turn Black	1. Inverter Cable 2. Inverter to LCD cable 3. Main board to LCD cable 4. Inverter Board 5. MB	1. Shut Down Power, 2. Open rear cover, open EMI chassis, remove inverter cover, check if inverter cable well connected between MB and inverter board 3. If yes, replace with another inverter cable for testing 4. If fail, check if LCD cable well connected with inverter board. 5. If yes, replace with another LCD cable for testing. 6. If fail, check if LCD signal cable well connected on MB(CN12) 7. If yes, replace with another LCD signal cable for testing 8. If fail, replace with another inverter board for testing 9. If fail, replace with another MB for testing 10. If fail, System RMA to manufacturer
3600	HDD unstable	1. HDD Cable 2. HDD 3. MB	1. Shut down power 2. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 3. Check if HDD cable is well connected between HDD and MB 3. If fail, replace with another HDD cable for testing 4. If fail, replace with another HDD for testing 5. If fail, replace with another MB for testing 6. If fail, system RMA to manufacturer

Error Code	Symptom	Check Points	Detail Steps
3601	Unable to detect HDD(CF)	1. CF Card 2. CF Slot 3. MB	1. Shut down power 2. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 3. Check if CF Card (PPC 5008) well connected with CF Slot 4. If yes to item 3, remove CF card, check if pins on CF slot located at the correct position 5. If CF slot is damaged, go to item 7; if CF slot is not damaged go to item 6 6. If yes to item 4, replace with another CF card for testing 7. If fail, replace with MB for testing 8 If fail, system RMA to manufacturer
3602	Data Can't read and write	1. HDD 2. CF	1. Shut down power 2. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 3. Replace with another HDD for testing 4. Replace with another CF for testing 5 If fail, system RMA to manufacturer
3500	CMOS checksum error	1. CMOS Battery 2. MB	1. Shut down power 2. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 3. Check if battery cable well connected with MB 4. If yes, replace with another battery cable for testing 5. If fail, replace with another CMOS battery for testing 6. If fail, replace with another MB for testing 7. If fail, system RMA to manufacturer
3400	Touch malfunction	1. Driver (NA) 2. Touch to.MB cable 3. MB 4. Touch panel	1. Reinstall touch driver 2. If fail, shut down power 3. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 4. Check if touch panel cable well connected with MB 5. If yes to item 4, replace with another MB for testing 6. If fail, replace with another touch panel for testing 7. If fail, RMA system to manufacturer

Error Code	Symptom	Check Points	Detail Steps
3700	Boot Up, USB K/B Malfunction	1. USB Keyboard 3. MB	1. Check if USB keyboard cable well connected with USB port 2. If yes to item 2, replace with another keyboard(same model) for testing 3. If fail, replace with another keyboard(other model) for testing 4. If fail, Shut down power 5. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 6. Replace with another MB for testing 7. If fail, system RMA to manufacturer
3701	MSR Malfunction	1. MSR to MB Cable 2. MSR 3. MB	1. Shut down power 2. Check if MSR cable well connected with MB 3. If yes to item 2, replace with another MSR for testing 4. If fail, open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 5. Replace with another MB for testing 6. If fail, RMA MSR to manufacturer
3702	COM Port Malfunction	1. Jumper setting 2. MB	1. Shut down power 2. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 3. Check if jumper setting(JP3, JP4) same with default setting chart.(In Driver bank CD) Note: If device connector is with voltage, jumper setting needs to change to 5V or 12V based on different device definition 3. If fail, replace with another MB for testing 5. If fail, RMA system to manufacturer
3703	USB Device Malfunction	1. Device USB cable 3. MB	1. Shut down power 2. Check if USB device cable well connected with MB 3. Open rear cover, open EMI chassis, remove inverter cable on M/B (CN1), 4. Replace with another MB for testing 6. If fail, RMA system to manufacturer

1.2 BIOS Upgrade

1.2.1 Equipment List:

- Floppy Disk* 1 set,
- Keyboard* 1 set,
- Mouse* 1 set
- BIOS file

1.2.2 Boot the system with a bootable floppy disk

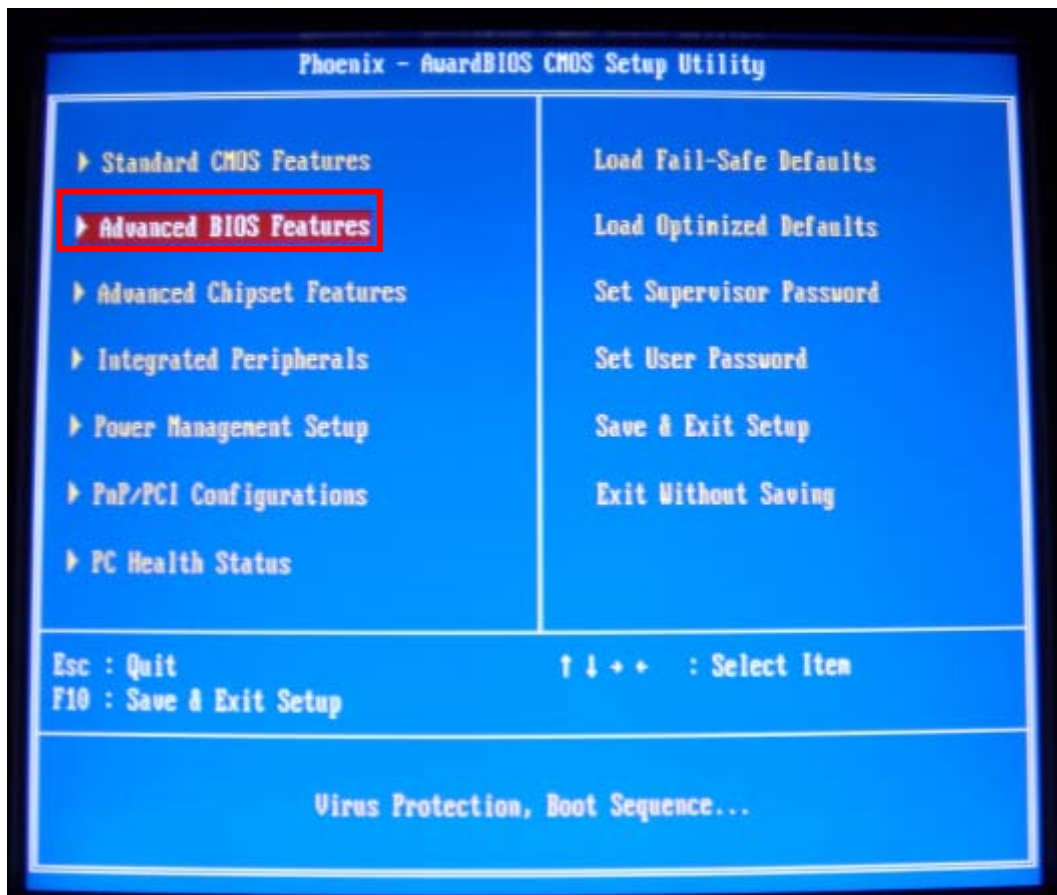
1.2.2.1 A Windows 98/ME startup disk can be used

1.2.2.2 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..

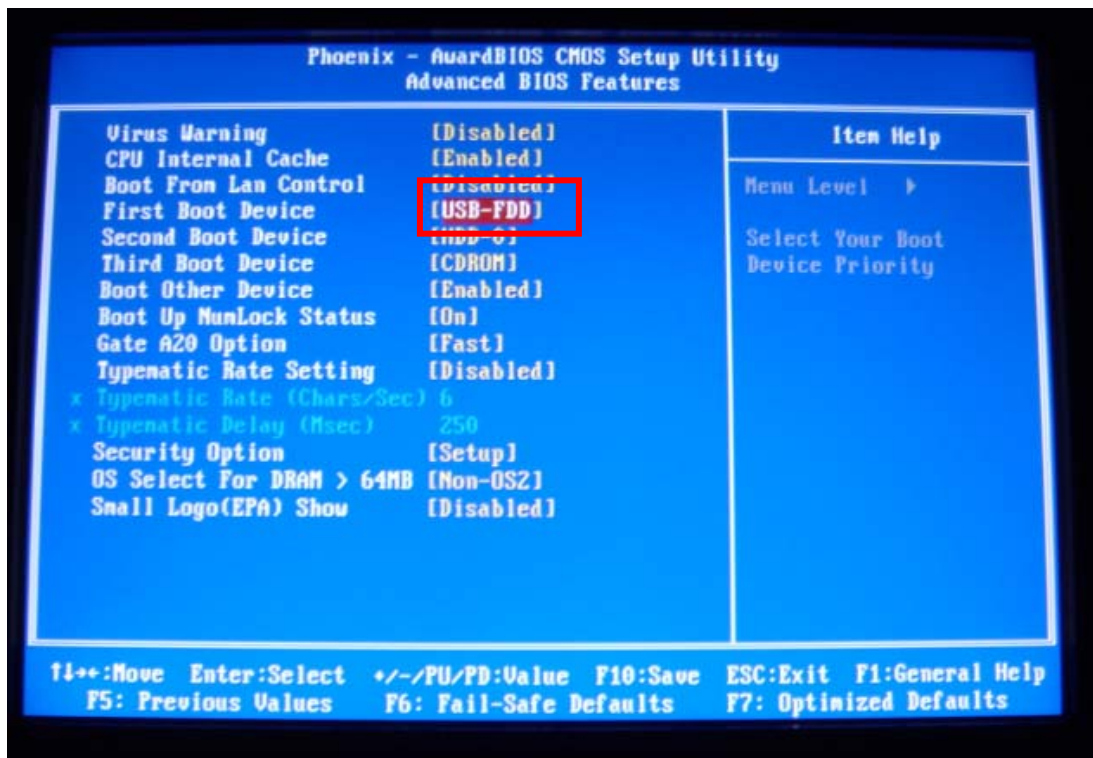
1.2.3 To update the BIOS using the example above you would type the following command.

1.2.3.1 Power on

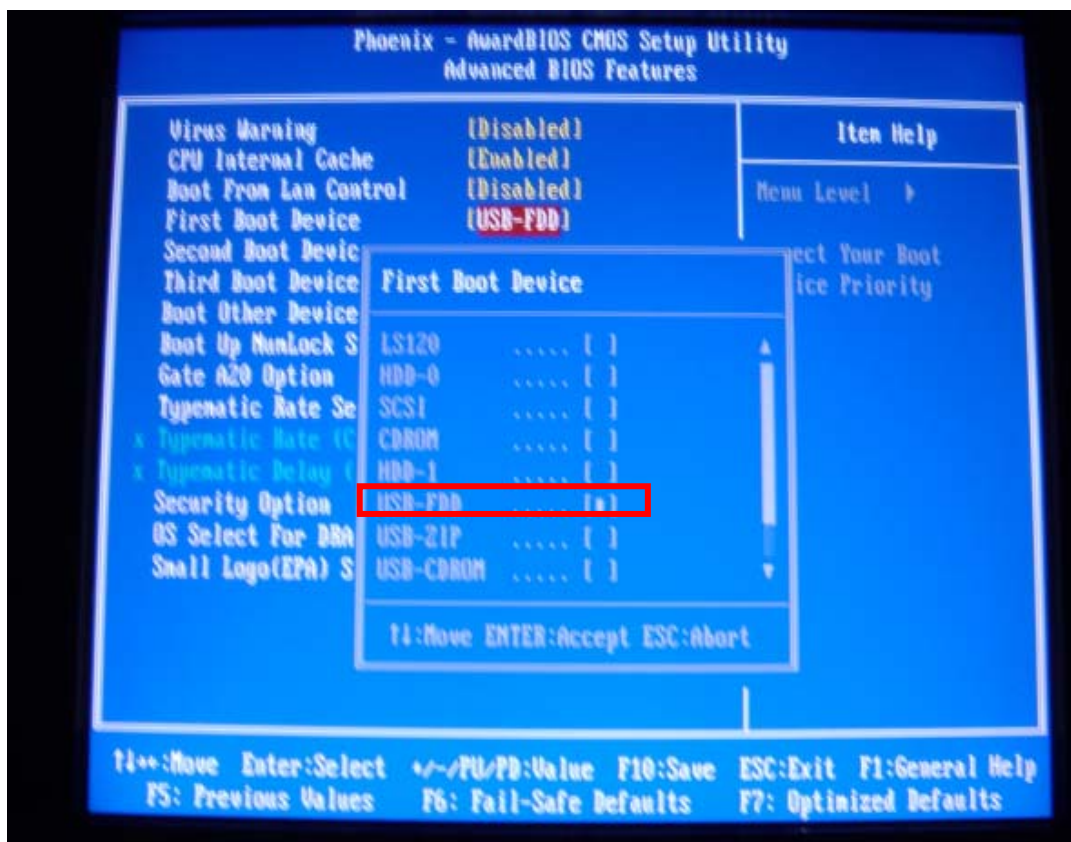
1.2.3.2 Press "Del" button



1.2.3.3 Choose "Advanced BIOS Features". Press "Enter" Key



1.2.3.4 Choose First Boot Device→ USB-FDD. Press “Enter” Key



1.2.3.5 Select “USB-FDD”. Press “Enter” Key

1.2.3.6 Press “F10”. Press “Enter”Key

```

0      15      4      1022    2094    0C03    USB 1.0/1.1 OHCI Contrlr    11
0      15      5      1022    2095    0C03    USB 2.0 EHCI Contrlr    11
                                ACPI Controller          9

Verifying DMI Pool Data .....
Starting MS-DOS 7.1...

Microsoft(R) MS-DOS 7.1
(C)Copyright Microsoft Corp 1981-1999.

A:\>dir

Volume in drive A is BOOT
Volume Serial Number is 3F4E-16FA
Directory of A:\

COMMAND  COM           94,292  05-05-03  22:22
SPFDISK  EXE        132,088  09-01-05  16:43
AWDFLASH EXE         49,174  01-06-06  14:56
B010WR10 BIN         524,288  05-12-06  12:15

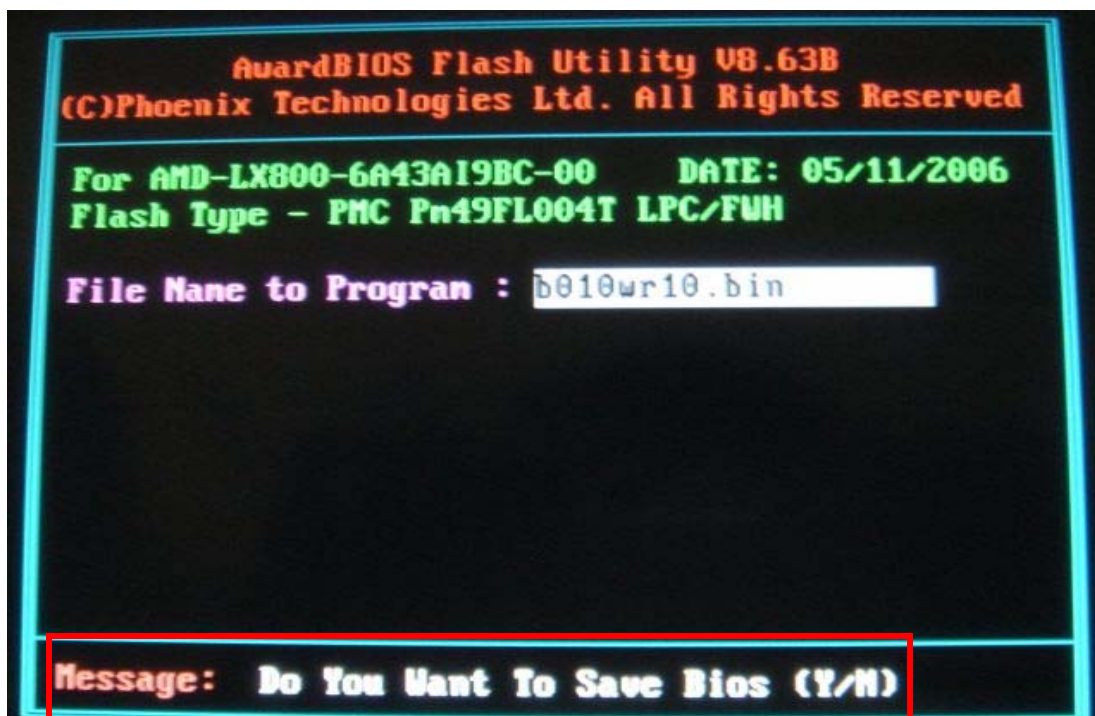
A:\>awdf flash b010wr10.bin_

```

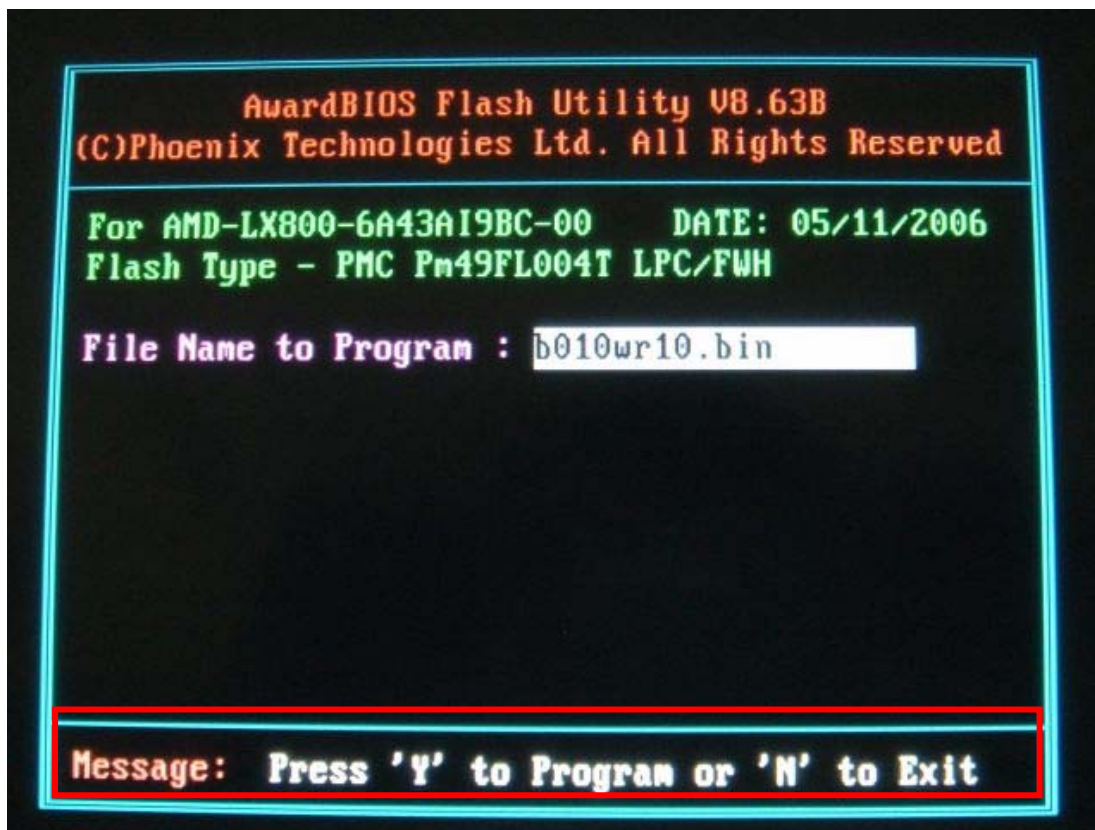
awdf flash = BIOS FLASH UTILITY

B010wr10.bin = BIOS file version 1.0

1.2.3.7 Key in BIOS Utility and BIOS Version needs to be updated. Ex: “awdf flash b010wr10.bin”



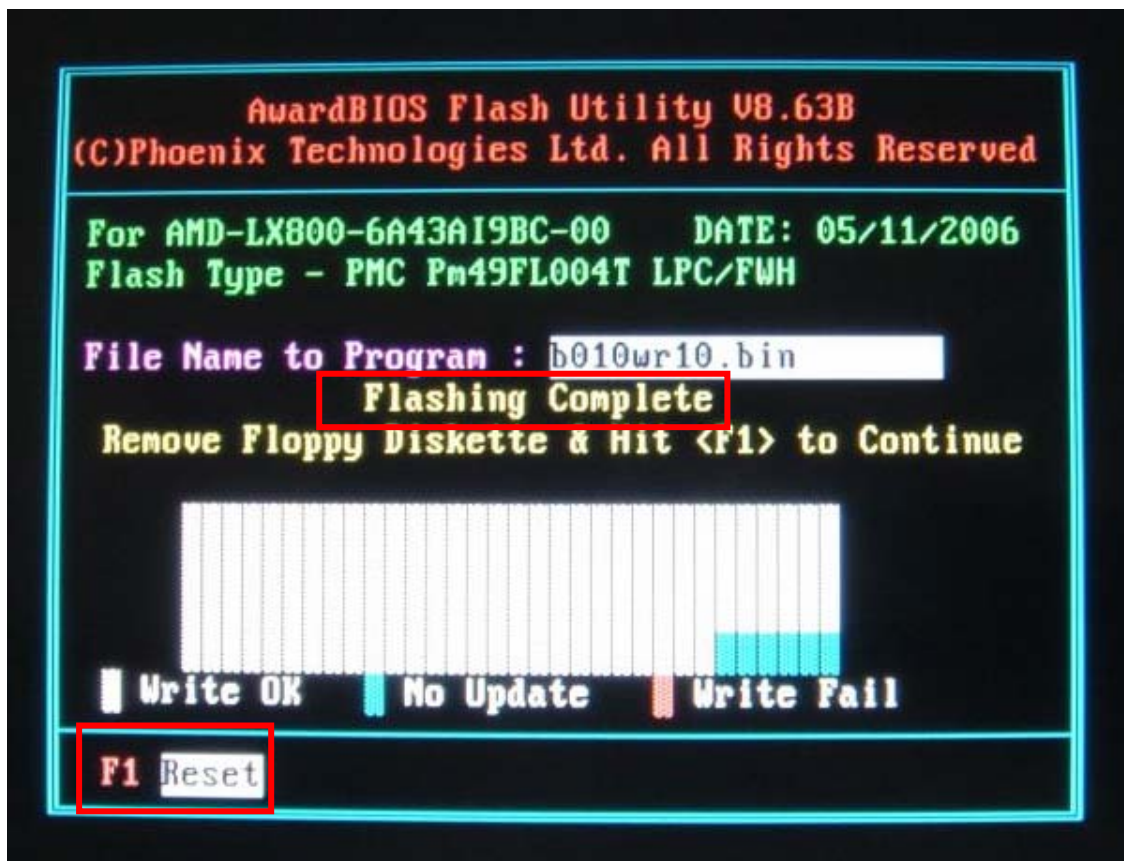
1.2.3.8 Press “N”. Press “Enter” Key



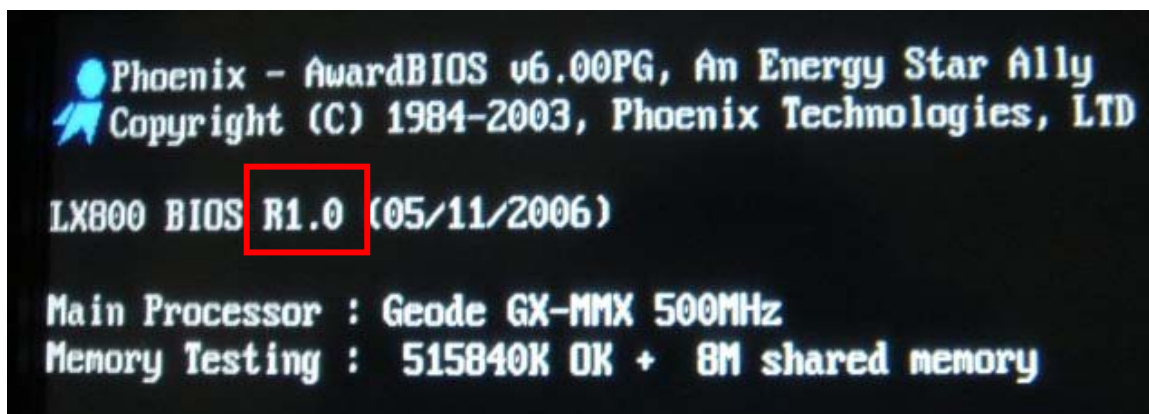
1.2.3.9 Press "Y". Press "Enter" Key



1.2.3.10 DO NOT TURN OFF or RESET SYSTEM Until the BIOS update is completed. Stopping the BIOS UPATE before it is completed will cause the system to become non-functional.



1.2.3.11 Wait till the screen shows “Flashing Complete”. Press “F1” to reset



1.2.3.12 Double check the BIOS version is updated when the system resets.



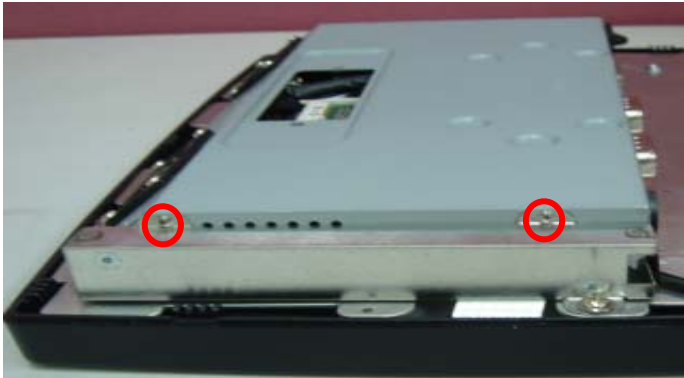

Note:

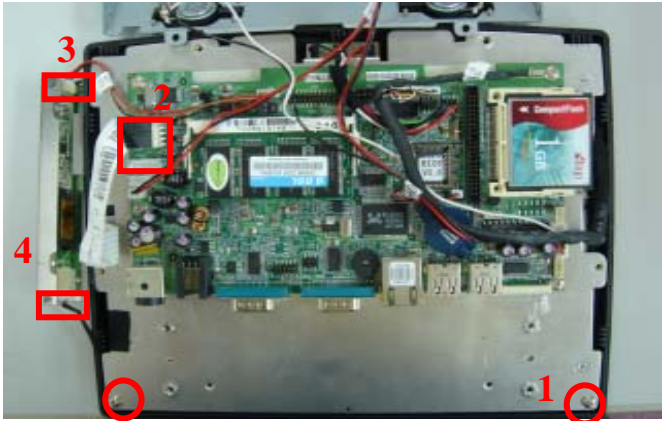

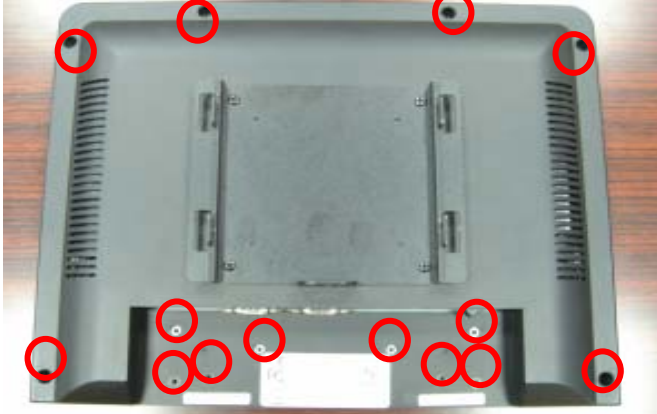

The BIOS contained here are exclusively for manufacturer PPC Series only. manufacturer assumes no responsibility for any damages resulting from improper use or lack of technical expertise.



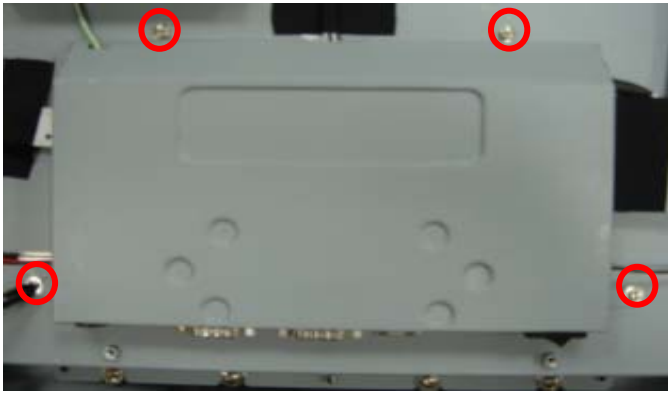
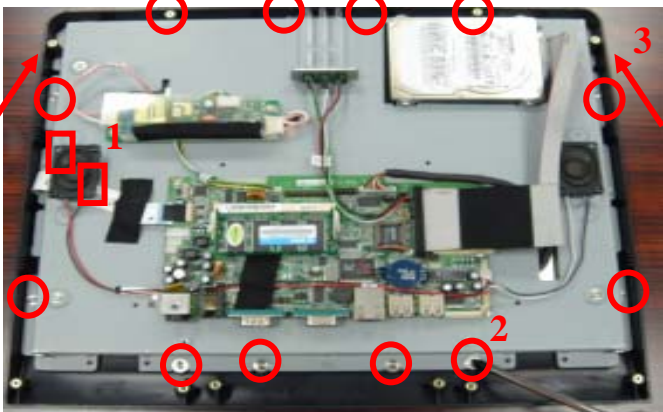
2 Chapter 2: Disassembly, Assembly


2.1 Main Unit

2.1.1 Touch Panel + Touch Screen Holder

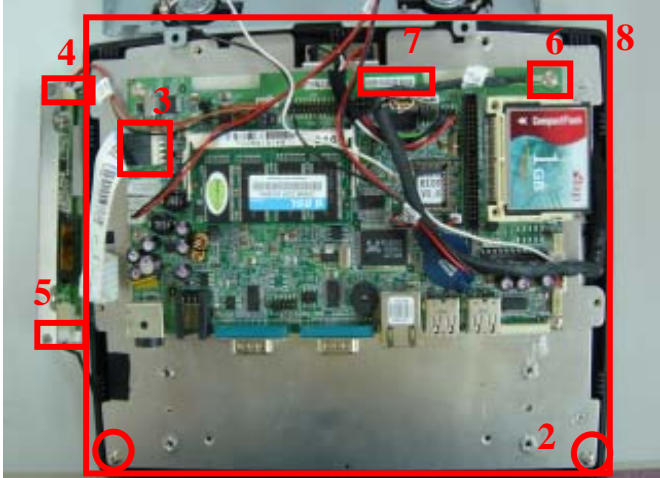


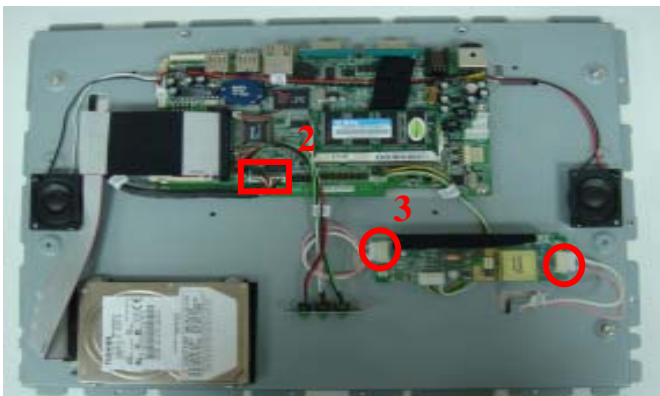
Item	Photo	Description
1		1.PPC 5008: Remove 6 screws from rear cover
2		1. PPC 5008: Remove 4 screws from EMI Chassis 2. Remove EMI A/D Chassis
3		1. PPC 5008: Remove 2 screws from EMI Chassis
4		1. PPC 5008: Remove 4 hex screws from EMI chassis

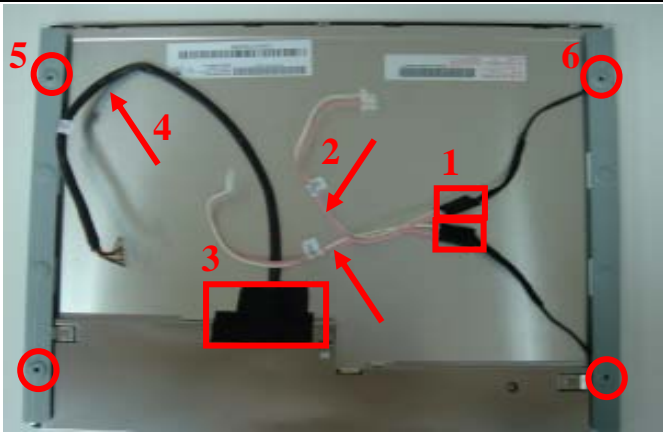

Item	Photo	Description
5		<ol style="list-style-type: none"> 1. PPC 5008: Remove 2 screws 2. Remove touch panel to M/B cable(CN29) 3. Remove inverter board to M/B cable (CN1) 4. Remove inverter board to LCD cable (CN2)
6		<ol style="list-style-type: none"> 1. PPC 5008: Remove touch panel module(W/ LCD bezel) 2. Replace with another touch panel module(W/ LCD bezel)
7		<ol style="list-style-type: none"> 1. PPC 5012: Remove 14 screws from rear cover
8		<ol style="list-style-type: none"> 1. PPC 5015: Remove 12 screws form rear cover

Item	Photo	Description
9		1. PPC 5012 and PPC 5015: Remove 4 hex screws from EMI chassis
10		1. PPC 5012: Remove 3 screws from EMI Chassis 2. Remove EMI Chassis
11		1. PPC 5015: Remove 4 screws from EMI Chassis 2. Remove EMI A/D Chassis
12		1. PPC 5012 and PPC 5015: Remove 2 screws from speaker to take out touch panel cable 2. Remove 12 screws 3. Remove LCD bezel (black) from LCD chassis

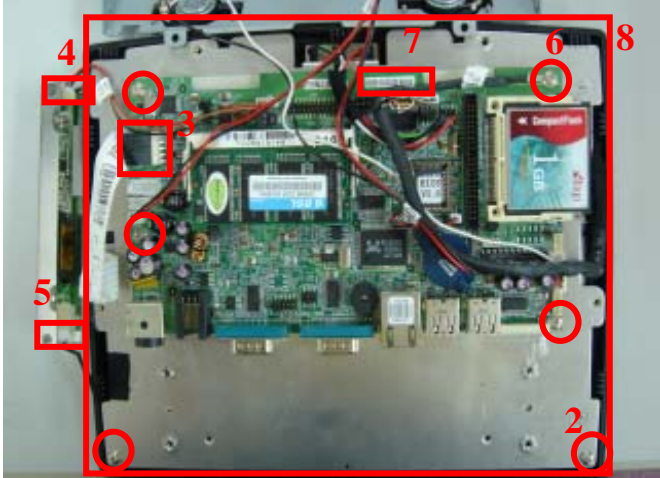
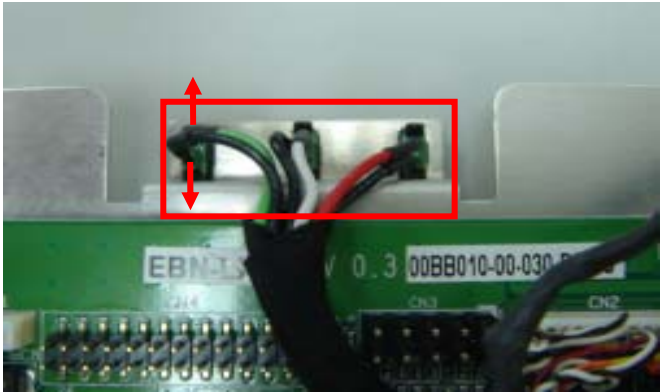
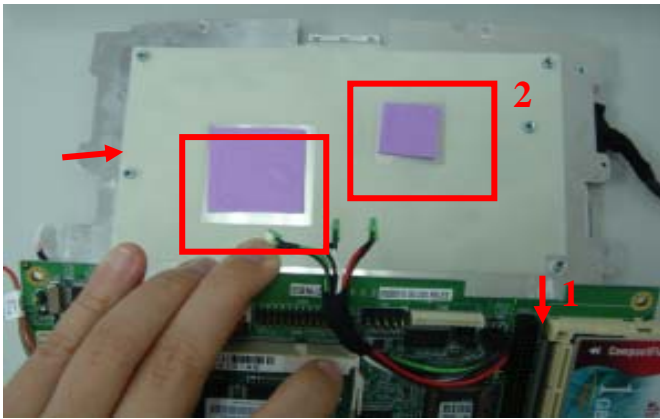

Item	Photo	Description
13		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Remove 3 screws 2. Replace with another touch screen module


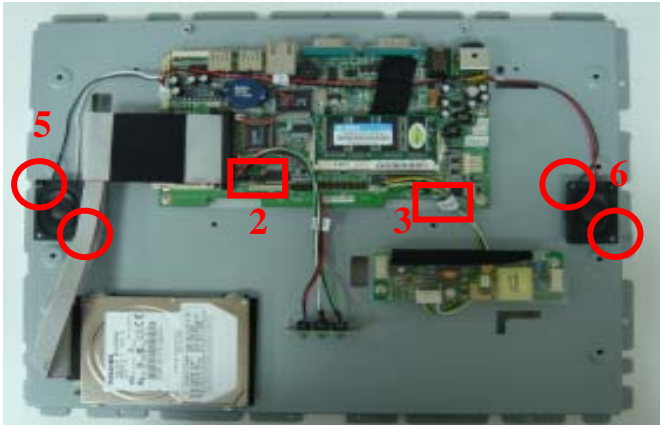
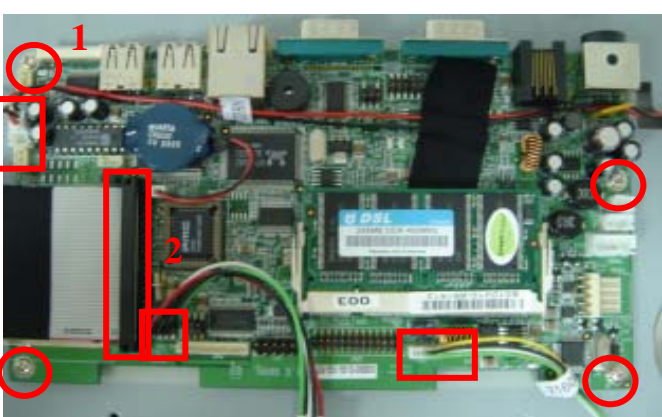
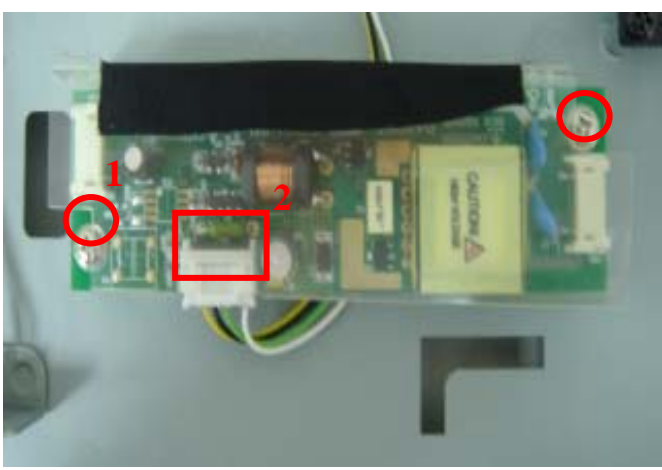
2.1.2 LCD, AUO 8.4", 12", 15.0"



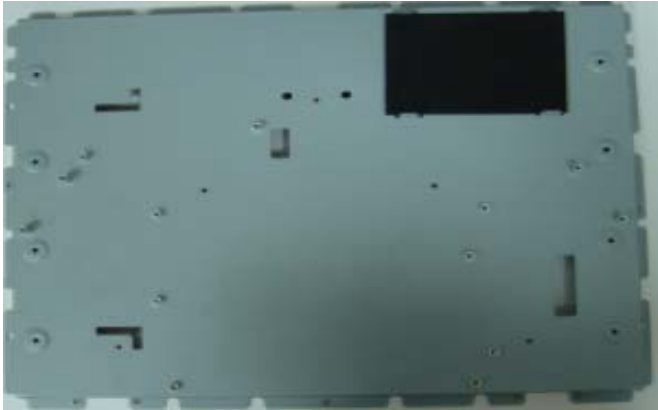
Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 4 2. Remove 2 screws 3. Remove touch panel to M/B cable(CN29) 4. Remove inverter board to M/B cable (CN1) 5. Remove inverter board to LCD cable (CN2) 6. Remove 1 screw 7. Remove LCD to M/B cable(CN2) 8. Take out LCD Chassis
2		<ol style="list-style-type: none"> 1. PPC 5008: Turn to front side. Remove 4 screws on LCD
3		<ol style="list-style-type: none"> 1. PPC 5008: Remove LCD cable 2. Replace with another LCD
4		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Follow 2.1.1 item 1 to 11 2. Remove 1 M/B to LCD cable 3. Remove 2 Inverter board to LCD cable 4. Remove LCD Panel

Item	Photo	Description
5		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Remove 2 black tapes from inverter cables 2. Remove 2 inverter cables 3. Remove 1 black tape from LCD cable 4. Remove 1 LCD cable 5. Remove 2 screws from left holder 6. Remove 2 screws from right holder
6		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Replace with another LCD





2.1.3 LCD Chassis


Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 4 2. Remove 2 screws 3. Remove touch panel to M/B cable(CN29) 4. Remove inverter board to M/B cable (CN1) 5. Remove inverter board to LCD cable (CN2) 6. Remove 4 screws 7. Remove LCD to M/B cable(CN2) 8. Take out LCD Chassis
2		<ol style="list-style-type: none"> 1. PPC 5008: Push out the LED plinth 2. Remove 3 LEDs 3. Push out the LED frames from LCD chassis
3		<ol style="list-style-type: none"> 1. PPC 5008: Remove M/B 2. Remove 2 heat pads 3. Remove mylar for M/B
4		<ol style="list-style-type: none"> 1. PPC 5008: Turn to front side. Remove 4 screws on LCD

Item	Photo	Description
5		1. PPC 5008: Replace with another LCD Chassis
6		1. PPC 5012 and PPC 5015: Follow 2.1.1 item 1 to 11 2. Remove 1 M/B to LCD Cable 3. Remove 2 Inverter board to LCD Cable 4. Remove LCD Panel 5. Remove 2 screws from left speaker 6. Remove 2 screws from right speaker
7		1. PPC 5012 and PPC 5015: Remove 4 cables from M/B 2. Remove 4 screws from M/B 3. Remove M/B
8		1. Remove cable from inverter board 2. Remove 2 screws 3. Remove inverter board

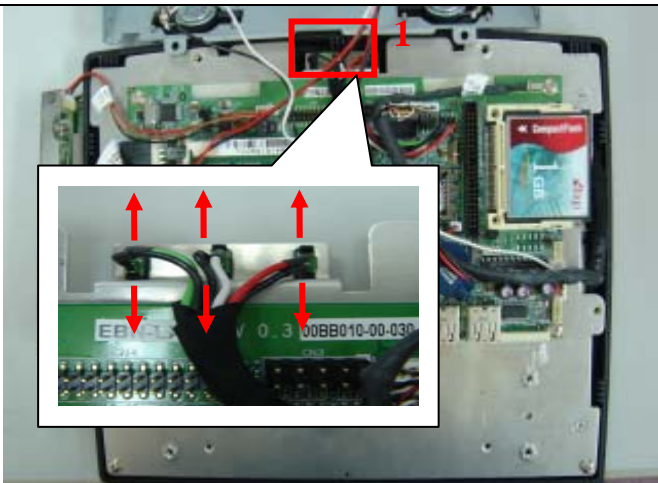

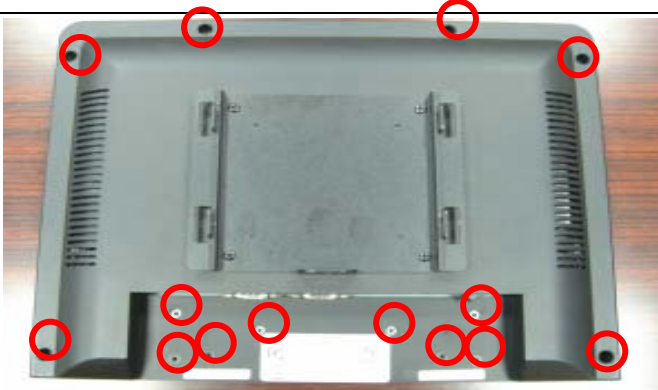
Item	Photo	Description
9		<ol style="list-style-type: none"> 1. PPC 5015: Remove 4 screws PPC 5012: Remove 3 screws 2. Remove HDD cable
10		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Remove LED cable
11		<ol style="list-style-type: none"> 1. Replace with another LCD chassis

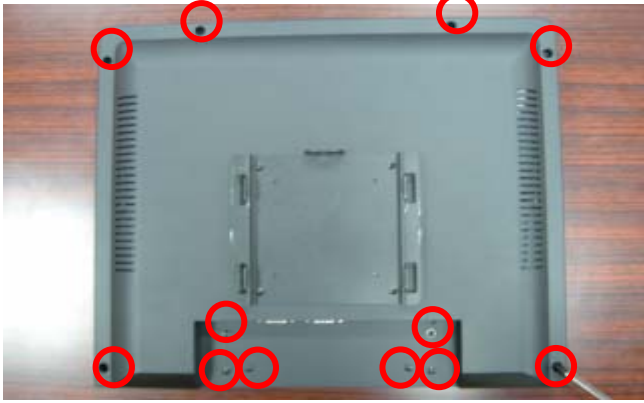
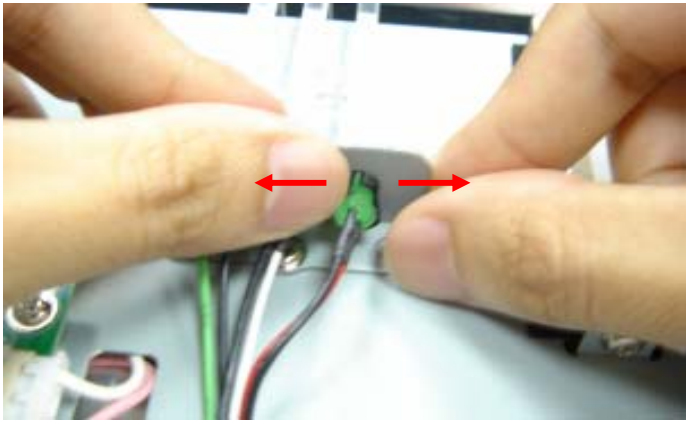


2.1.4 LCD Bezel

Item	Photo	Description
1		<p>1.PPC 5008: Please refer to item 2.1.1</p>
2		<p>1. PPC 5012: Remove 14 screws from rear cover</p>
3		<p>1. PPC 5015: Remove 12 screws form rear cover</p>
4		<p>1. Remove 12 screws 2. Remove LCD bezel from LCD chassis</p>

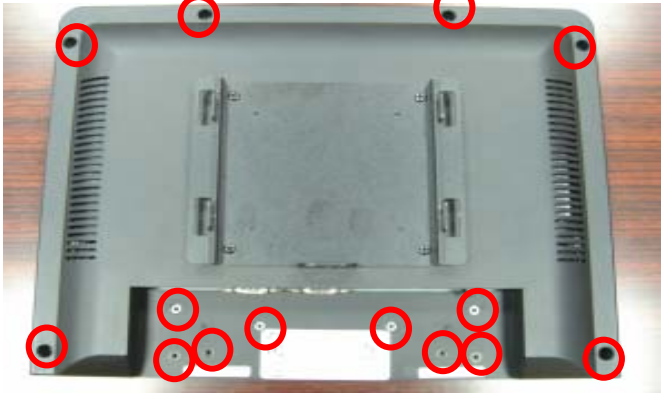

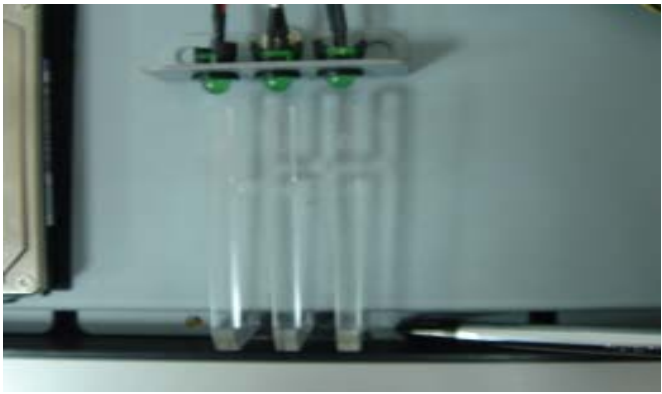

Item	Photo	Description
5		1. Replace with another LCD Bezel

2.1.5 LED Fixed Plinth

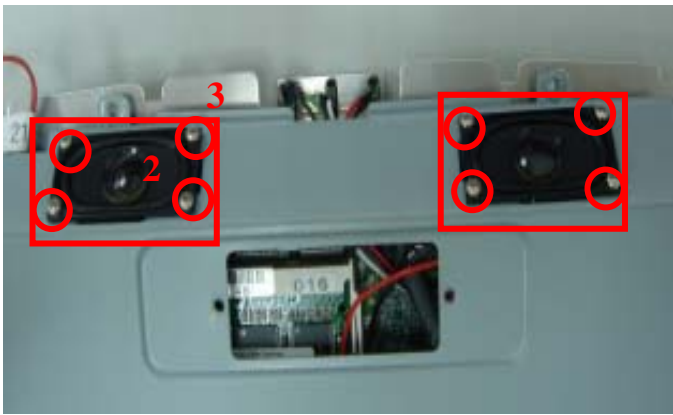



Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 4 2. Push and pull out 3 LEDs from fixed plinth
2		<ol style="list-style-type: none"> 1. PPC 5008: Push out LED fixed plinth 2. Replace with another fixed plinth
3		1. PPC 5012: Remove 14 screws from rear cover



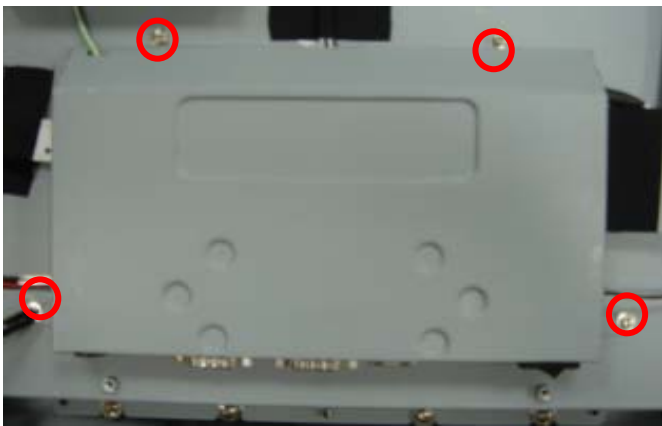

Item	Photo	Description
4		1. PPC 5015: Remove 12 screws form rear cover
5		1. Remove 3 LED from 3 LED holder
6		1. Remove 1 screw
7		1. Replace with another LED plinth

2.1.6 LED Lens

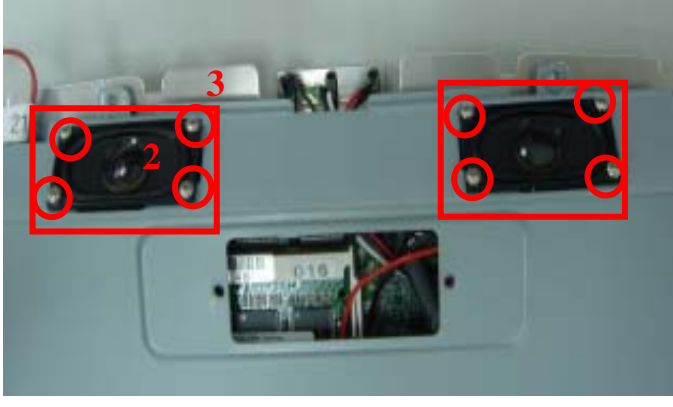


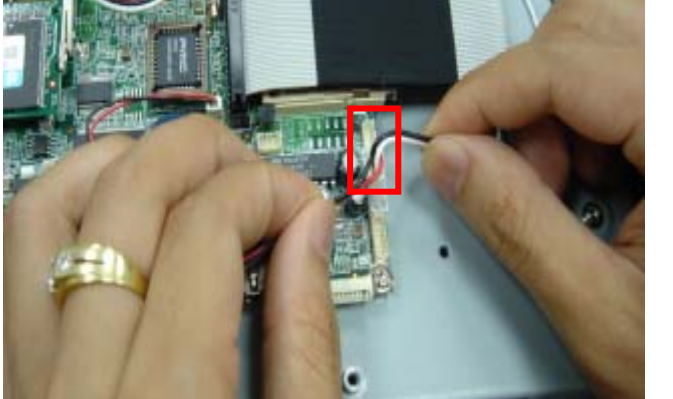
Item	Photo	Description
1		<p>1. PPC 5012: Remove 14 screws from rear cover</p>
2		<p>1. PPC 5015: Remove 12 screws from rear cover</p>
3		<p>1. Remove 2 screws</p>
4		<p>1. Replace with another LED lens</p>


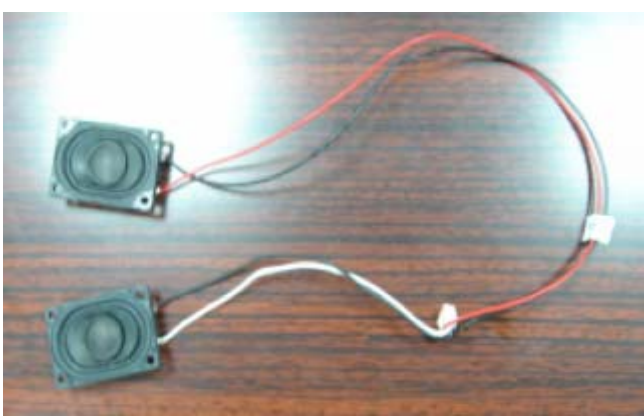
2.1.7 EMI A/D Cover & Power Cable

Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 4 2. Remove 8 screws 3. Remove 2 speakers
2		<ol style="list-style-type: none"> 1. PPC 5008: Remove EMI Chassis 2. Remove power to M/B cable(CN13) 3. Go to item 8
3		<ol style="list-style-type: none"> 1. PPC 5012: Remove 14 screws from rear cover
4		<ol style="list-style-type: none"> 1. PPC 5015: Remove 12 screws from rear cover





Item	Photo	Description
5		<p>1. Remove 4 hex screws from chassis</p>
6		<p>1. PPC 5012: Remove 3 screws from EMI Chassis</p>
7		<p>1. PPC 5015: Remove 4 screws from EMI Chassis</p>
8		<p>1. Replace with another EMI A/D Chassis</p>

2.1.8 Speaker & Speaker Cable


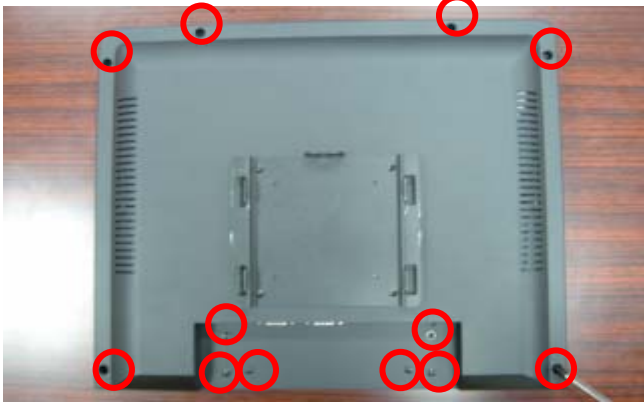
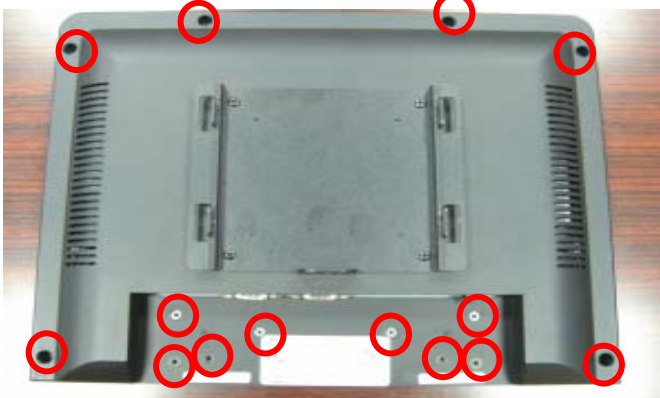
Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 4 2. Remove 8 screws 3. Remove 2 speakers
2		<ol style="list-style-type: none"> 1. PPC 5008: Remove EMI Chassis 2. Remove speaker to M/B cable(CN17)
3		<ol style="list-style-type: none"> 1. PPC 5008: Replace with another speaker cable
4		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Follow 2.1.7 step 1 to step 5 2. Remove speaker cable

Item	Photo	Description
5		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Remove 2 screws form left speaker 2. Remove 2 screws from right speaker
6		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Replace with another speaker

2.1.9 Inverter Cover (Only for PPC 5008)

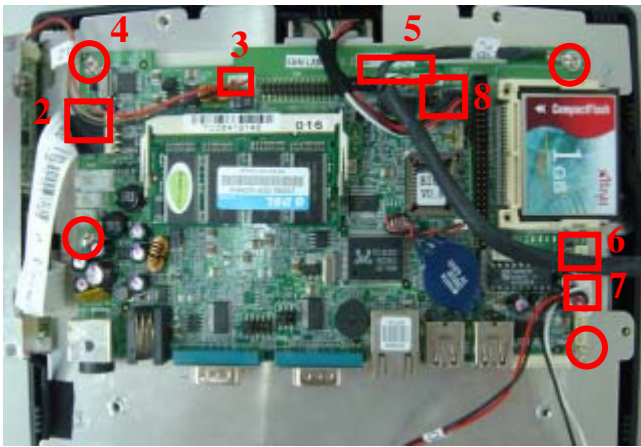
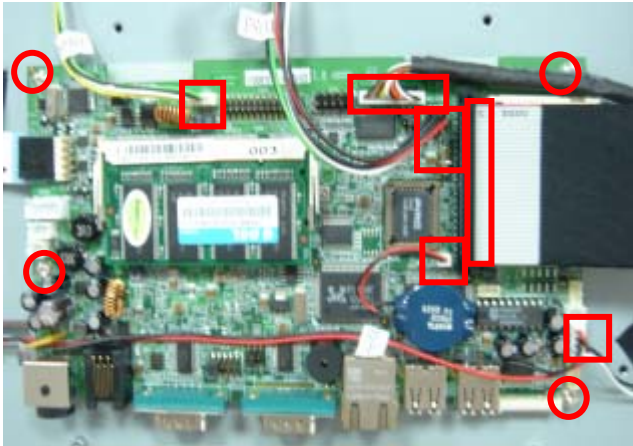

Item	Photo	Description
1		1.Remove 6 screws from rear cover
2		1. Remove 1 screw 2. Remove 2 little screws from inverter cover
3		1. Turn over the inverter board 2. Remove 2 cables
4		1. Replace with another inverter cover

2.1.10 LCD Rear Cover


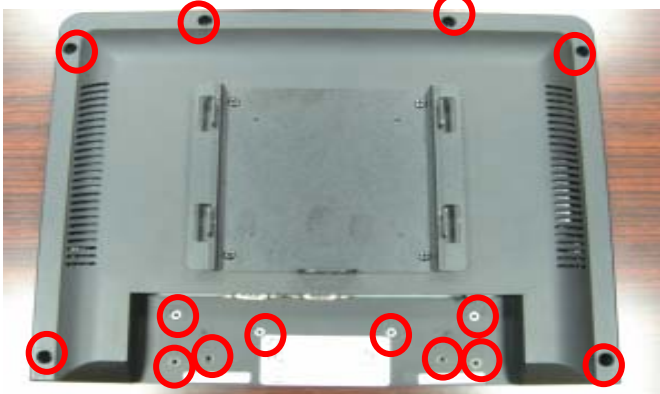

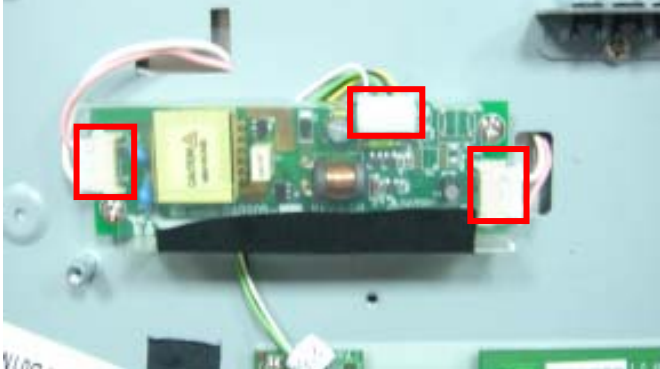
Item	Photo	Description
1		<p>1.PPC 5008: Remove 6 screws from rear cover</p>
2		<ol style="list-style-type: none"> 1. PPC 5015: Remove 12 screws form rear cover 2. Replace with another rear cover
3		<ol style="list-style-type: none"> 1. PPC 5012: Remove 14 screws from rear cover 2. Replace with another rear cover


2.2 Main Unit

2.2.1 Main Board


Item	Photo	Description
1	 <p>A photograph of the main board assembly with red callouts 1 through 8. Callout 1 is a circle on the top left. Callout 2 is a square on the top left. Callout 3 is a square on the top center. Callout 4 is a circle on the top left. Callout 5 is a square on the top center. Callout 6 is a square on the right side. Callout 7 is a square on the right side. Callout 8 is a square on the right side.</p>	<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 8 2. Remove touch panel to M/B cable(CN29) 3. Remove inverter board to M/B cable (CN1) 4. Remove 4 screws 5. Remove LCD to M/B cable(CN2) 6. Remove power button to M/B cable(CN16) 7. Remove speaker to M/B cable(CN17) 8. Remove LED to M/B cable(CN6) 9. Go to item 3
2	 <p>A photograph of the main board assembly with red callouts 1 through 4. Callout 1 is a circle on the top left. Callout 2 is a square on the top center. Callout 3 is a square on the top center. Callout 4 is a square on the right side.</p>	<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Follow 2.1.7 item 1 to 4 2. Remove 6 cables from M/B 3. Remove 4 screws from M/B
3	 <p>A photograph of the main board assembly.</p>	<ol style="list-style-type: none"> 1. Replace with another M/B

2.2.2 Inverter

Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 3 2. Remove inverter to M/B cable(CN1) 3. Remove LCD to inverter cable(CN2) 4. Remove 2 screws 5. Go to item 5
2		<ol style="list-style-type: none"> 1. PPC 5012: Remove 14 screws from rear cover 2. Replace with another rear cover
3		<ol style="list-style-type: none"> 1. PPC 5015: Remove 12 screws from rear cover 2. Replace with another rear cover
4		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Remove 3 cables from inverter board(CN1, CN2, CN3)

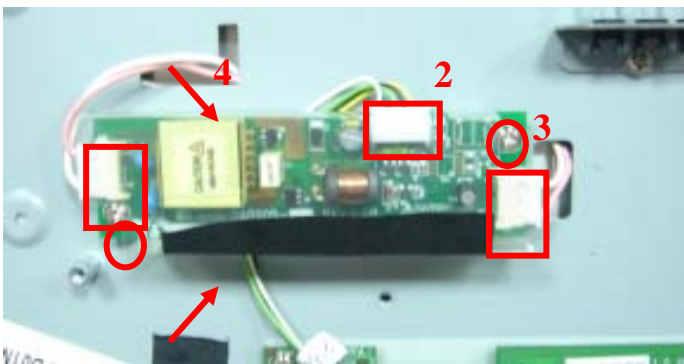
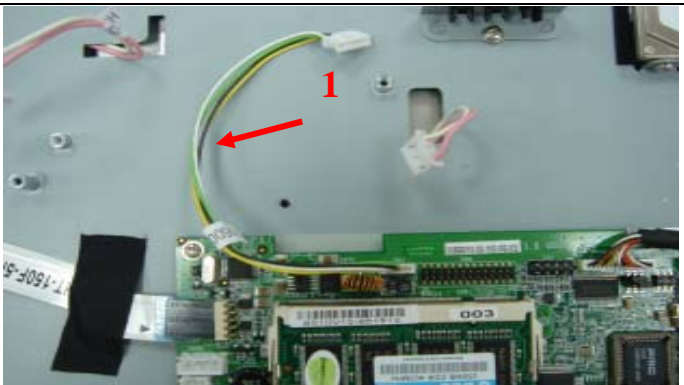

Item	Photo	Description
5		1. Replace with another inverter

2.2.3 Battery



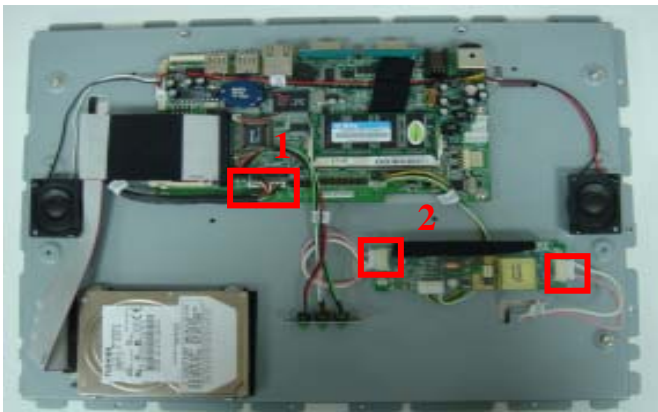
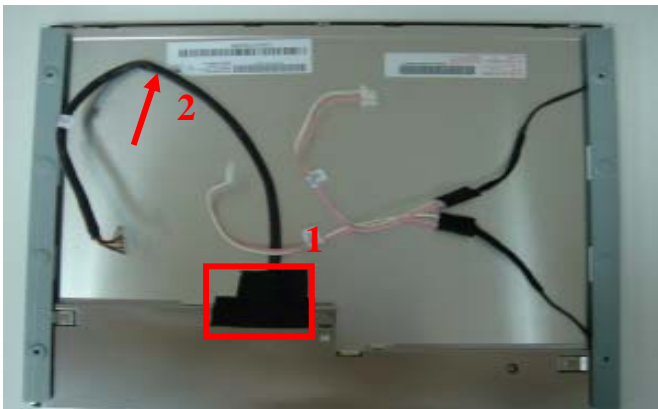
Item	Photo	Description
3		<ol style="list-style-type: none"> 1. PPC 5015: Follow 2.1.7 item 1 to 7 2. Remove battery from M/B(BT1) 3. Replace with another battery

2.2.4 Cables

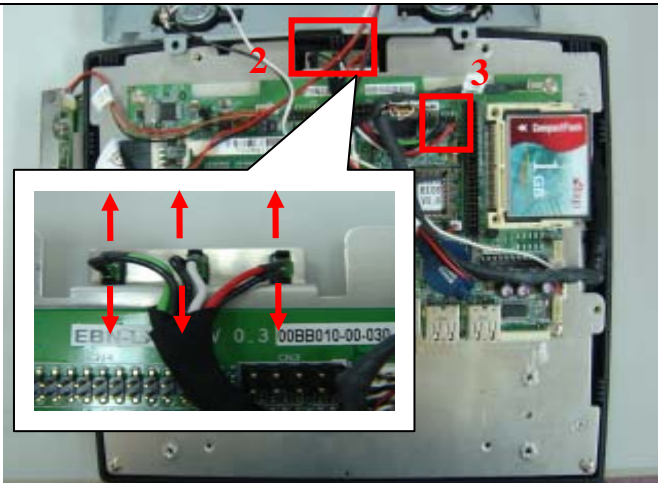
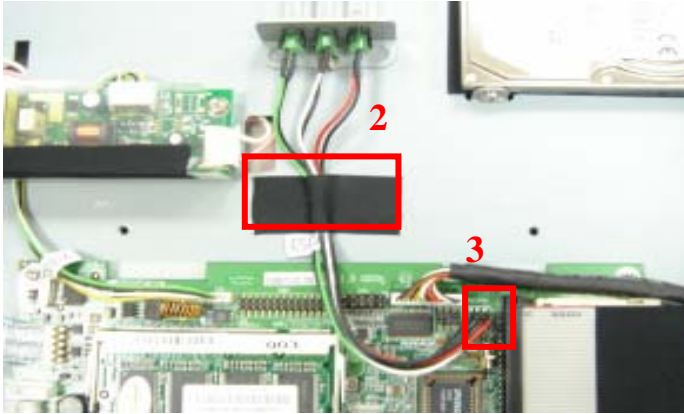
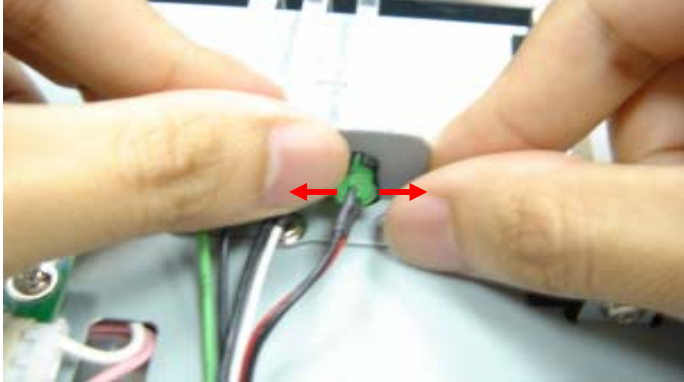

2.2.4.1 Cable, M/B to Inverter

Item	Photo	Description
1		<ol style="list-style-type: none"> 1. Follow 2.1.7 item 1 to 7 2. Remove 3 cables 3. Remove 2 screws 4. Remove inverter board to take off inverter cable
2		<ol style="list-style-type: none"> 1. Remove inverter cable from M/B(CN1)
3		<ol style="list-style-type: none"> 1. Replace with another inverter cable

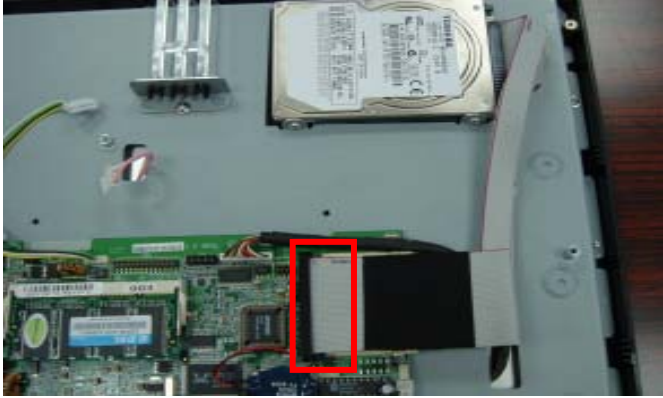

2.2.4.2 Cable, M/B To LCD

Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.2 item 1 to 2 2. Remove LCD cable 3. Replace with another LCD cable
2		<ol style="list-style-type: none"> 1. Follow 2.1.1 item 1 to 7 2. Remove 3 screws 3. Remove touch screen module
3		<ol style="list-style-type: none"> 1. Remove 1 M/B to LCD Cable 2. Remove 2 Inverter board to LCD Cable 3. Remove LCD Panel
4		<ol style="list-style-type: none"> 1. Remove black tape from LCD cable 2. Remove LCD cable 3. Replace with another LCD cable

2.2.4.3 Cable, M/B To LED




Item	Photo	Description
1		<ol style="list-style-type: none"> 1. PPC 5008: Follow 2.1.1 item 1 to 4 2. Push and pull out 3 LEDs from fixed plinth 3. Remove LED to M/B cable(CN6)
2		<ol style="list-style-type: none"> 1. PPC 5012 and PPC 5015: Follow 2.1.7 item 1 to 7 2. Remove black tape 3. Remove cable from M/B(CN6)
3		<ol style="list-style-type: none"> 1. Remove 3 LED light from LED holder
4		<ol style="list-style-type: none"> 1. Replace with another LED cable

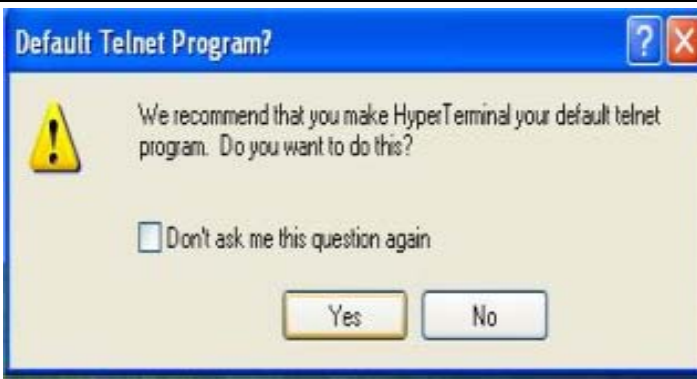

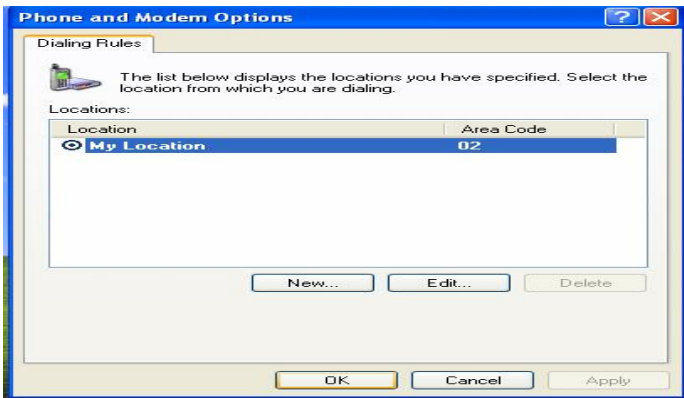

2.2.4.4 Cable, M/B To HDD

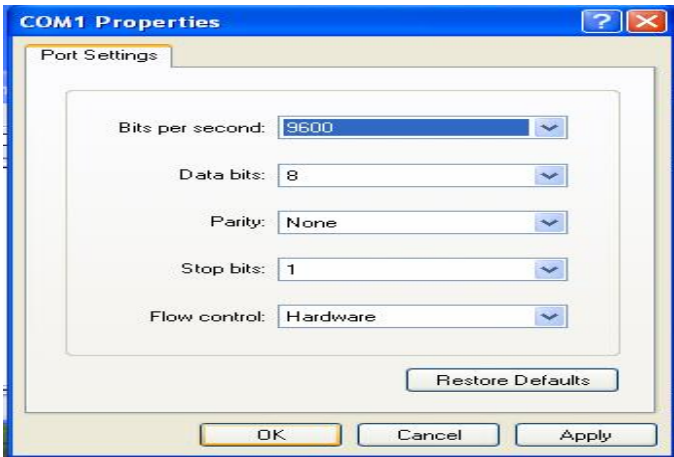
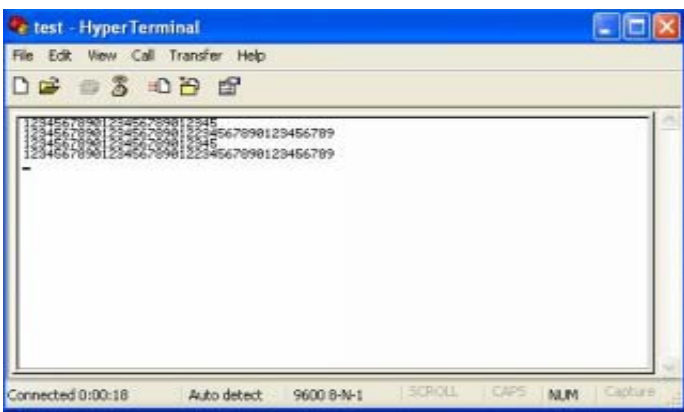

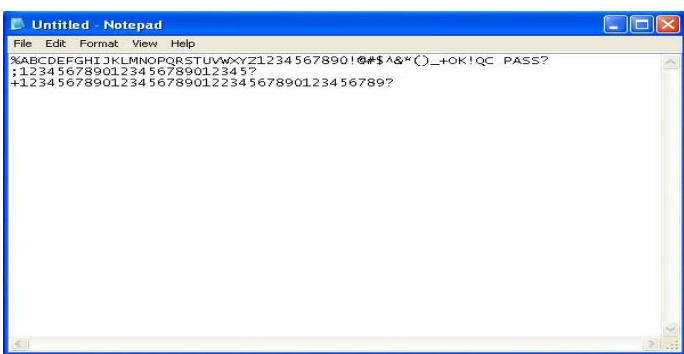
Item	Photo	Description
1		<ol style="list-style-type: none">1. PPC 5012 and PPC 5015: Follow 2.1.1 item 1 to 112. Remove HDD cable from M/B(CN10) and HDD
2		<ol style="list-style-type: none">1. Replace with another HDD cable

2.3 Accessories




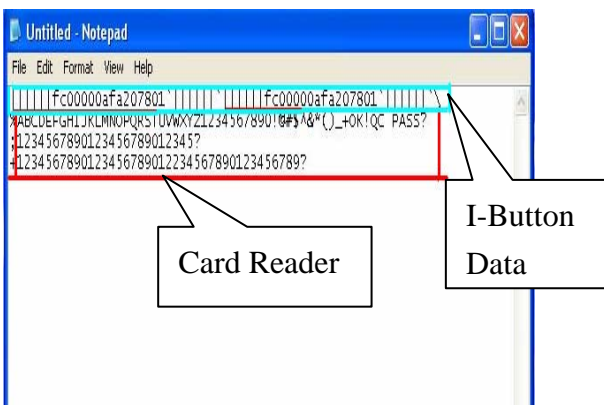
2.3.1 MSR

HW Installation		
Item	Photo	Description
1		<ol style="list-style-type: none"> 1. Fasten 2 screws on the Panel PC 2. Connect MSR cable with PPC I/O port
2		<ol style="list-style-type: none"> 1. The installation is completed
Verification		
RS232 type		
Item	Photo	Description
1		<ol style="list-style-type: none"> 1. Enter to “All Programs” → “Communication” → “Hyper Terminal”




Item	Photo	Description
2		1. Click "Yes" to continue
3		1. Set "area code" and click OK
4		1. Click OK
5		1. Select on COM 3 2. Click "OK" to continue

Item	Photo	Description
6		<ol style="list-style-type: none"> 1. Set on Baud Rate to be 9600 bps. 2. Click "OK" to continue
7		<ol style="list-style-type: none"> 1. Stripe the MSR card to Reader and complete test OK
PS2 type		
Item	Photo	Description
1		<ol style="list-style-type: none"> 1. Enter to "Accessories" → "Notepad"
2		<ol style="list-style-type: none"> 1. Stripe the MSR card to Reader and complete test OK.


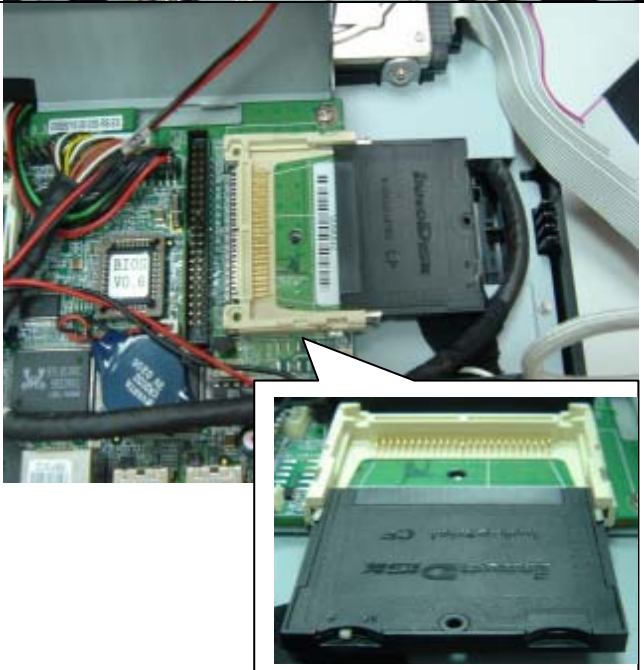
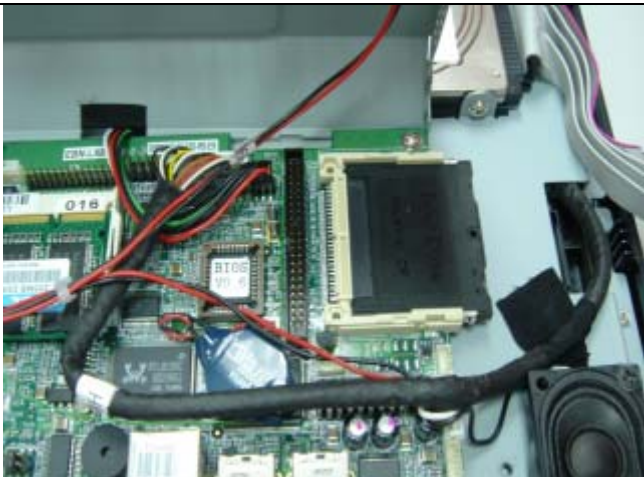
2.3.2 MSR+ I Button

HW Installation		
Item	Photo	Description
1		<ol style="list-style-type: none"> 1. Fasten 2 screws on the Panel PC 2. Connect MSR cable with PPC I/O port
2		<ol style="list-style-type: none"> 1. PPC 5008 front side 2. PPC 5012 / PPC 0515 front side
Verification		
Item	Photo	Description
1		1. Enter to “Accessories” → “Notepad”
2		1. Complete test OK.

2.3.3 HDD

Item	Photo	Description
1		<ol style="list-style-type: none"> 1. Follow 2.1.1 item 1 to 5 2. Remove HDD cable from HDD
2		<ol style="list-style-type: none"> 1. PPC 5012: Remove 3 screws form HDD bracket
3		<ol style="list-style-type: none"> 1. PPC 5015: Remove 4 screws form HDD bracket 2. Replace with another HDD

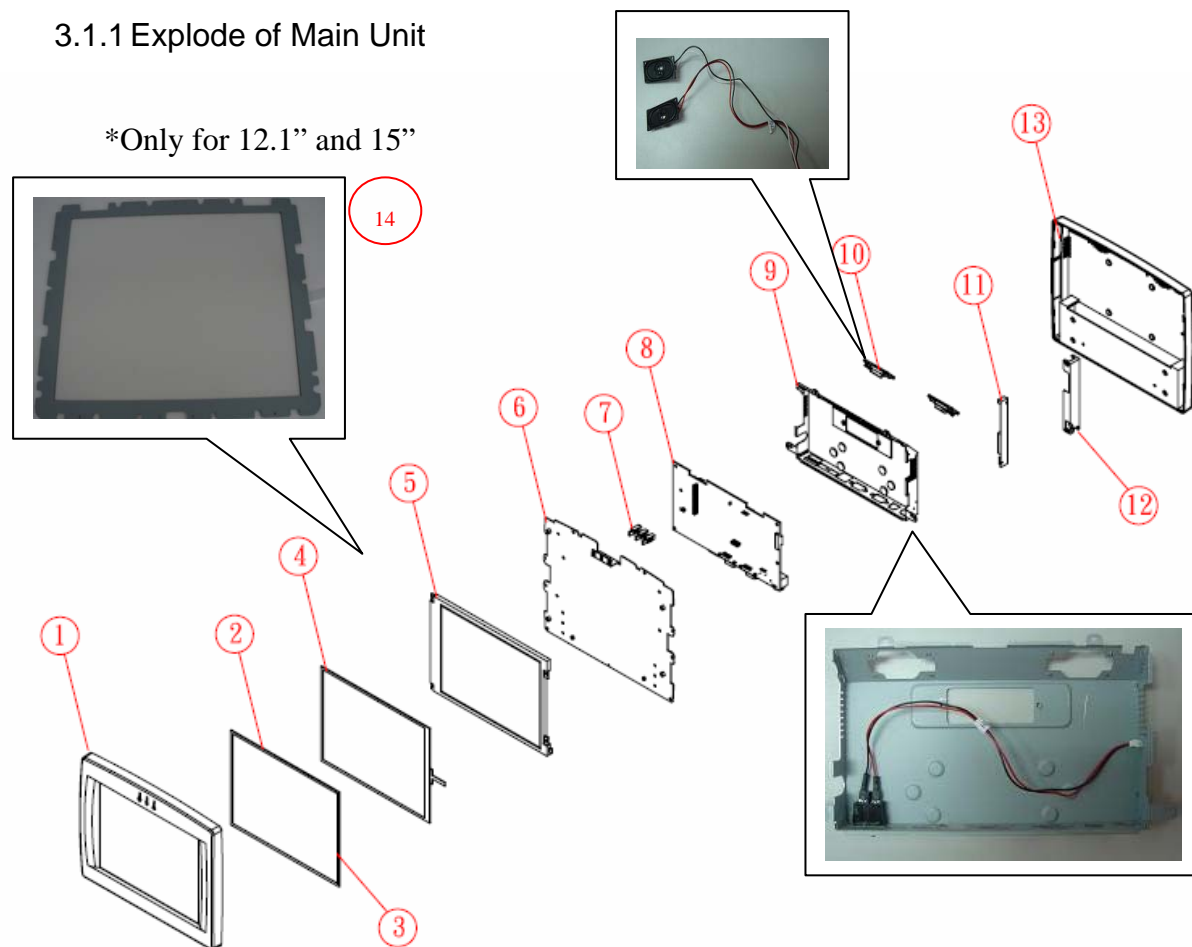
2.3.4 Compact Flash

Item	Photo	Description
1		<ol style="list-style-type: none"> 1. Follow 2.1.7 item 1 to 5 2. Remove HDD cable
2		<ol style="list-style-type: none"> 1. Insert the Compact Flash into slot
3		<ol style="list-style-type: none"> 1. Connect the HDD cable with M/B 2. Follow steps back to 2.1.7 item 1

3 Chapter 3 Spare Parts

3.1 Main Unit

3.1.1 Explode of Main Unit








3.1.2 Main Unit Parts list & quotation

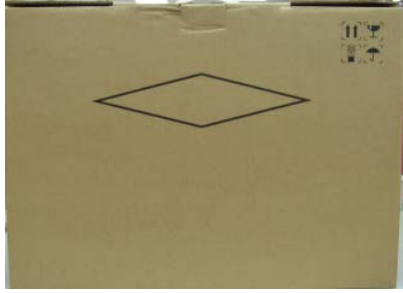


Item	Parts No.	Description	Q'ty	Price (USD)
1+2+ 3+4	10400026RH	PPC5008, 8.4 LCD bezel (Black)	1	Call Sales
		PPC5008, 8.4 water proof sealed stick 133.3x2.2x1.6T	2	
		PPC5008, 8.4 water proof sealed stick 181x2.2x1.6T	2	
		PPC5008, 8.4" 5 wire touch panel HT-084F-5RA-002N-18	1	

Item	Parts No.	Description	Q'ty	Price (USD)
1+2+3	A10400254RH	12.1" LCD bezel (Black)	1	By Call
		PPC5012, 12.1" water proof sealed stick	1	
1+2+3	A10400253RH	15" LCD bezel (Black)	1	By Call
		PPC5015, 15" water proof sealed stick	1	
4+14	10400031RH	12.1"touch panel	1	By Call
		Touch screen chassis 12.1	1	
4+14	10400037RH	15.0"touch panel	1	By Call
		Touch screen chassis 15	1	
5	21100011RH	AUO 8.4" LCD PANEL	1	By Call
5	21100013RH	AUO 12.1" LCD PANEL	1	By Call
5	21100005RH	AUO 15.0" LCD PANEL	1	By Call
6	30100061RH	LCD chassis FOR PPC508 (AL=1.0mm)	1	By Call
6	30100094RH+30500041RH	LCD chassis FOR PPC5012 W/ HDD pad	1	By Call
6	30100097RH+30500041RH	LCD chassis FOR PPC5015 W/ HDD pad	1	By Call
7	30500017RH+30100025RH	PPC5008, 8.4"LED fixed plinth	3	By Call
7	30500007RH+30100025RH	PPC 12.1" and 15" LED fixed plinth	3	By Call
8	10100034RH	LX-800 M/B (Ver.1.0)	1	By Call
9	30100060RH+21600096RH	PPC5008 EMI A/D COVER and POWER button cable	1	By Call

Item	Parts No.	Description	Q'ty	Price (USD)
9	30100063RH+ 21600096RH	PPC5012 / PPC5015 EMI A/D COVER and POWER button cable	1	By Call
10	23100002RH+ 21600044RH	PPC5008, Square Speak w/o CABLE 40*20 2.0W 40KS08P , 8" SPEAKER CABLE	1	By Call
10	23100001RH+ 21600121RH	PPC5012. Square Speak w/o CABLE 28*26 and 12.1" SPEAKER CABLE	1	By Call
10	23100001RH+ 21600122RH	PPC5015, Square Speak w/o CABLE 28*26 2.0W 40KC08-4 and 15" SPEAKER CABLE	1	By Call
11	22400004RH	8.4" INVERTER – (AUO)	1	By Call
11	22400009RH	12.1 " INVERTER – (AUO)	1	By Call
11	224000010RH	15" INVERTER – (AUO)	1	By Call
12	30100065RH	Inverter cover, 105mm*16mm*T 0.3	1	By Call
13	30200031RH	PPC5008, 8.4 LCD rear cover	1	By Call
13	30200038RH	PPC5012, 12.1" LCD rear cover	1	By Call
13	30200073RH	PPC5015, 15" LCD rear cover	1	By Call

P/N	Description	Photo	Price(USD)
21600094RH	PPC5008, 8.4 INVERT CABLE		By Call
21600050RH	PPC5012 / PPC5015, 12.1" / 15" INVERT CABLE		By Call
21600095RH	PPC5008 AUO 8.4 LCD CABLE		By Call
21600120RH	PPC AUO 12.1" / 15" LCD CABLE		By Call
21600041RH	PPC5008 LED 8.4 CABLE		By Call

P/N	Description	Photo	Price(USD)
21600053RH	PPC5012 / PPC5015 LED 12.1" / 15" CABLE		By Call
A10400047RH	WALL MOUNT KITS FOR BOX PC/SLIM BOX		By Call
31400003RH	Heat pad (40*40*2mm)		By Call
31400004RH	Heat pad (23*23*2mm)		By Call
40200007RH	BOX-PC Carton for PPC5008 460*380*135mm		By Call


P/N	Description	Photo	Price(USD)
40200017RH	BOX-PC Carton for PPC5012 / PPC5015		By Call
40800003RH	EPE Sponge for PPC5008, 8.4" LCD		By Call
40800015RH	EPE Sponge for PPC5012 / PPC5015, 12.1" / 15" LCD		By Call

3.2 Accessories

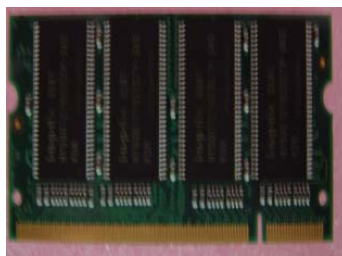
3.2.1 Power Cord

P/N	Description	Photo	Price(USD)
20700006RH	POWER CORD 3PIN AC, FOR USA		By Call
20700010RH	POWER CORD 3PIN AC, FOR UK		By Call
20700007RH	POWER CORD 3PIN AC, FOR EUR		By Call
20700009RH	POWER CORD 3PIN AC, FOR Australia	NA	By Call
22100017RH	80W ADAPTOR(12V/6.6A) W/ 3PIN AC		By Call


3.2.2 HDD

P/N	Description	Photo	Price(USD)
20200010RH	TOSHIBA 5400RPM-40G HDD ULTRA ATA/100(2.5") Note: Only available for PPC5012 and PPC5015		By Call

3.2.3 Memory

P/N	Description	Photo	Price(USD)
20300005RH	400MHz DDR MODULE 128M(200PIN-SO DIMM)		By Call
20300006RH	400MHz DDR MODULE 256M(200PIN-SO DIMM)		By Call
20300007RH	400MHz DDR MODULE 512M(200PIN-SO DIMM)(By Call


3.2.4 MSR

P/N	Description	Photo	Price(USD)
A10400165RH	MSR 2 Tracks K/B +BLACK		By Call
A10400127RH	MSR 3 Tracks K/B +BLACK		By Call
A10400205RH	MSR 3 Tracks RS232 +BLACK		By Call



3.2.5 OS

P/N	Description	Price(USD)
20900008RH	WinXP Home Edition	By Call
20900001RH	WinXP Professional Edition	By Call
20900002RH	WEPOS, English Ver.	By Call



3.2.6 Compact Flash

P/N	Description	Photo	Price(USD)
20600001RH	Compact Flash 128MB		By Call
20600002RH	Compact Flash 256MB		By Call
20600003RH	Compact Flash 512MB		By Call
20600005RH	Compact Flash 1G		By Call
20600007RH	Compact Flash 2G		By Call
20600008RH	Compact Flash 4G		By Call

3.2.7 ARM Kit

P/N	Description	Photo	Price(USD)
10300012RH	#60217 POLE DESK MOUNT CLAMP BLACK W/VESA PLATE		By Call
10300013RH	#60212 WALL MOUNT ADJUSTABLE 479MM BLACK W/VESA PLATE		By Call

3.2.8 Wireless LAN

P/N	Description	Photo	Price(USD)
60900001RH	WiFi WLAN 802.11b/g USB(GW-US54GZL)		By Call
61000001RH	Bluetooth V1.2 USB DONGLE(BT-01UD1)		By Call