

ASUSTeK COMPUTER INC.	EAH4850 Standard Operation Procedure	Doc. No:	
		Date: Apr. 27, 2010 Revision: 1.08	
		Page: 10	Grade:

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GTC	Kelvin_Cao	
1.01		Add New P/N	GTC	Kelvin_Cao	
1.02		Add New P/N	GTC	Kelvin_Cao	
1.03		Modify for new test structure	GTC	Janice_Pang	
1.04	6.3.1.5	Add memory test for C1CL5K-A13	GTC	Kelvin_Cao	
1.05		Add New P/N	GTC	Kelvin_Cao	APR.16,2009
1.06		Add New PCBA C1CL5K-A25	GTC	Kelvin_Cao	July.03,2009
1.07		Add New P/N(C1CL5U-A01)	GTC	Ariel_wang	Mar.3,2010
1.08		Add New P/N(C1CPB0-A01)	GTC	Ariel_wang	Apr.27,2010

Authorize by		Review by		Originator By	Kelvin
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ASUSTeK COMPUTER INC	EAH4850 Standard Operation Procedure	Doc. No: Date: Apr. 27, 2010 Rev. : 1.08 Page: 1
<p>1.Objectives Create test procedure.</p> <p>2.Scope Model: EAH4850 PN: C1CL55 C1CL50 C1CLC0 C1CL5A C1CLC5 C1CL5K C1CLW0 C1CL5P C1CL5U(A01) C1CPB0(A01)</p> <p>3.Test Item 3.1 Diagnostic test in DOS 3.2 3DMark06(contain HDMI test) 3.3 Temperature test 3.4 FAN test(For C1CPB0-A01)</p> <p>4.Relevant Document None.</p> <p>5.Definition : 1. If the model name contains P, please test HDCP function. Ex: EAH***/HTDP/512M/A 2. If you test HDMI already, it's unnecessary to test HDCP. The HDMI contains HDCP function.</p>		

ASUSTeK COMPUTER INC	EAH4850 Standard Operation Procedure	Doc. No:
		Date: Apr. 27, 2010 Rev. : 1.08 Page: 2

6. Operation Procedures:

6.1 Attention

- 6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card.
- 6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.
- 6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage is existed while AC power is connecting. For safety reason, please turn off main power during break time or idling test.
- 6.1.4 Some test items should be tested under Windows environment. (Please install windows test environment by yourself).

6.2 Fixture connect

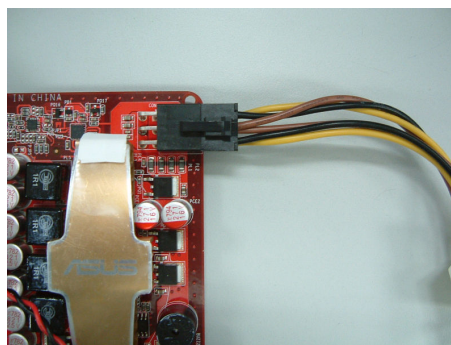
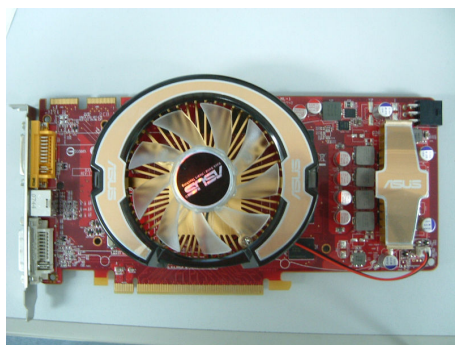
6.2.1 Install Intel P5 CPU & CPU Fan.

6.2.2 Install DDR2 **667/800M** 1GB Memory to DIMM1~2.

6.2.3 Plug PS/2 Mouse and PS/2 Keyboard into MB.

6.2.4 Plug VGA Card EAH4850 into PCIEX16.

6.2.5 Connect power con of VGA card & Power supply via bundled power cable.



6.2.6 Connect SATA HDD with SATA CON.

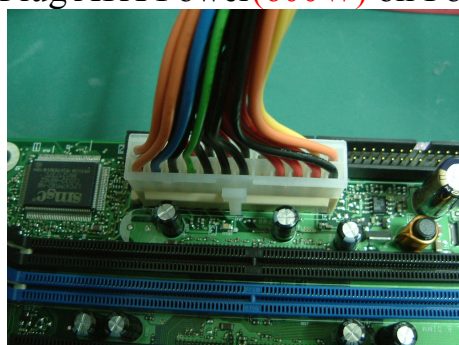


SATA



6.2.7 Plug 4PIN 12V power(**600W**) cable into CON12V.

6.2.8 Plug ATX Power(**600W**) on Power Connector.



6.3 Certain test.

6.3.1 Diagnostic test in DOS

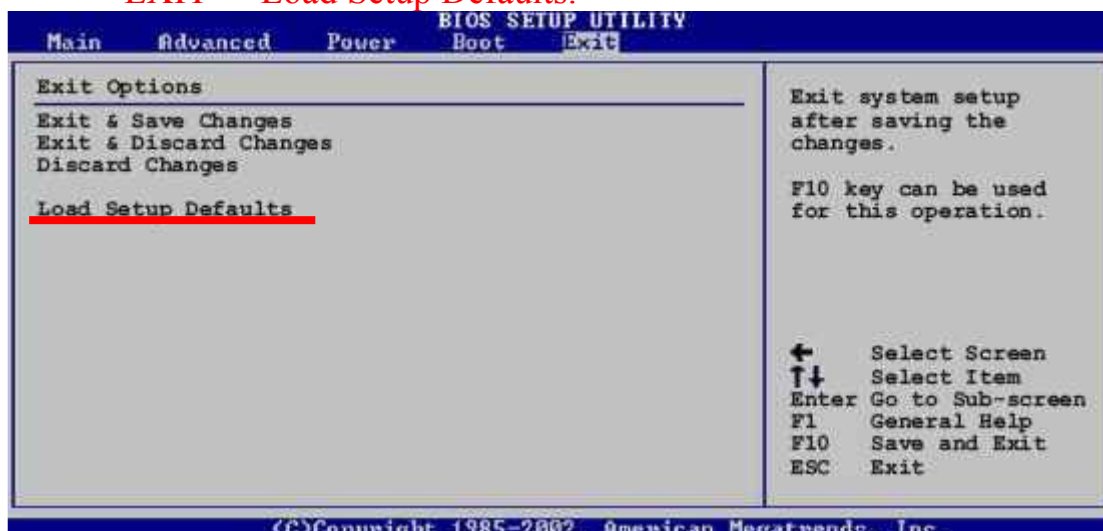
6.3.1.1 Please connect LCD monitor & card's DVI CON via a DVI cable.



6.3.1.2 Press Power Switch then turn on power button.

6.3.1.3 Press “Del” to enter CMOS setup menu while boot screen is displaying.

EXIT -> Load Setup Defaults.



6.3.1.4 System will reboot, select DOS to run test program.

Path: VBAT\EAH4850\BATCH\

Run the test program refer to the prompt.

6.3.1.5 Memory test

If you want to test memory, please run memfa.bat.

Path: VBAT\EAH4850\DIAG (For C1CL50, C1CL55, C1CLC0)

Path: VBAT\EAH4850\DIAG2\MEMFA (For C1CL5A and C1CLC5)

Path: VBAT\EAH4850\DIAG3 (For C1CL5K-A01)

Path: VBAT\EAH4850\DIAG4\MEMFA (For C1CLW0)

Path: VBAT\EAH4850\DIAG5 (For C1CL5K-A13/C1CL5U-A01/C1CPB0-A01)

Path: VBAT\EAH4850\DIAG6 (For C1CL5P-A01)

Path: VBAT\EAH4850\V770P145 (For C1CL5K-A25)

ASUSTeK COMPUTER INC	EAH4850 Standard Operation Procedure	Doc. No:
		Date: Apr. 27, 2010 Rev. : 1.08 Page: 5

6.3.1.6 BIOS flash

Please use the following command to flash bios and notice the size of character.

Path: VBAT\EAH4850\BIOS

Command: `atiflash -p -f 0 xxx.rom`

6.3.1.7 FAN test

If you want to test FAN, please run `aft.bat`

Path: EAH4850/DIAG5/aft/aft.bat

Notice:

aft.bat **apply the following Part Number**

C1CPB0-A01

6.3.1.8 After finish DOS testing, please enter Windows environment to test 3DMark.

6.3.2 3DMark test(contain HDMI test)

6.3.2.1 Please install 3DMark program by yourself.

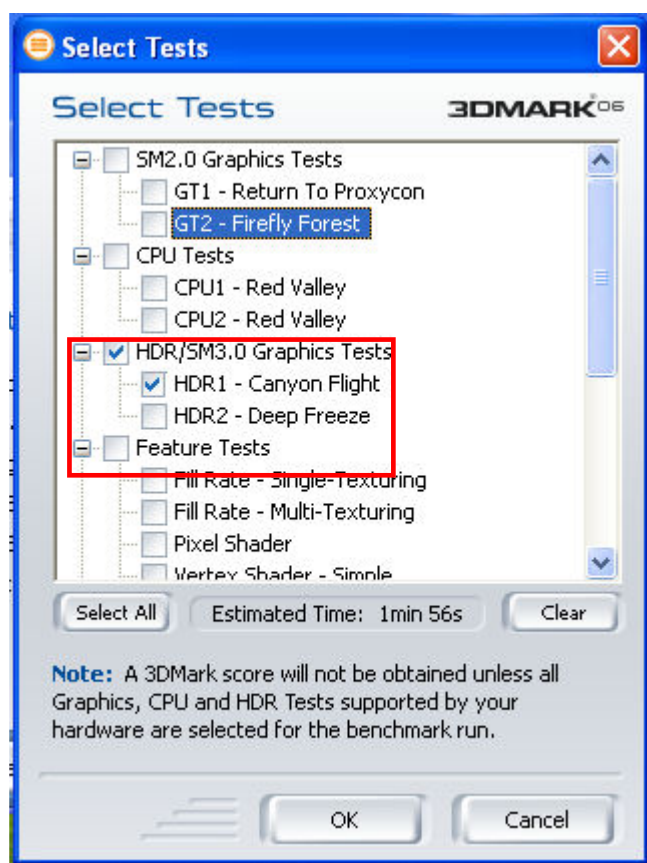
6.3.2.2 Please connect VGA card to LCD via HDMI cable.



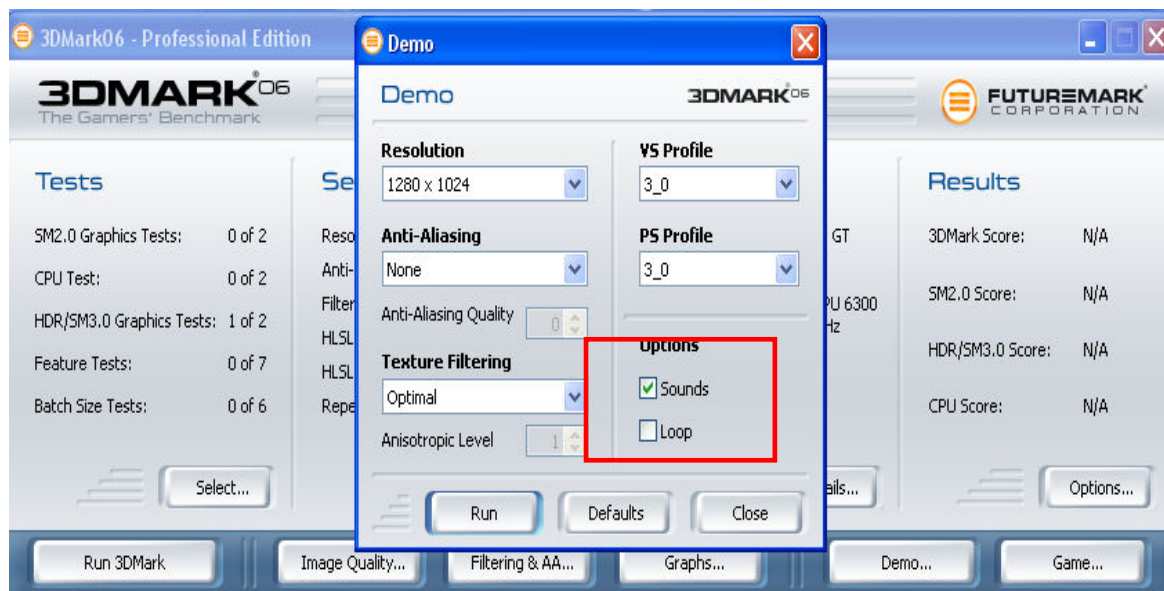
6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).

6.3.2.4 Please run 3DMark06 base on this card (please test 1 cycle).

6.3.2.5 Press “Select” to enter Select test menu. You can choose “HDR1” for default setting.



6.3.2.6 Press “Demo” to enter Demo menu. You can choose “Sounds” for default setting.



6.3.2.7 Please pay attention to check if there is flickering, discolor, crash and so on.

If there's no problem, it can be judged OK!

6.3.2.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.



ASUSTeK COMPUTER INC	EAH4850 Standard Operation Procedure	Doc. No:
		Date: Apr. 27, 2010
		Rev. : 1.08 Page: 7



6.3.2.9 If test OK, please NTF test.

7 Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	SAMSUNG 2232MW			1	
2	PS/2 MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(600W)			1	
5	INTEL P5 CPU 3.2G	01-010410017	Intel	1	
6	Heat sink + FAN	22-240000160		1	
7	APACER 800MHz 512M or 800MHz 1G			512M*2 or 1G*1	
8	TEST HDD(with TestProgram)			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	
11	S CABLE(ATI)	14G001801801		1	
12	Dual link DVI cable (Buying a local DVI cable by yourself)			1	
13	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
14	TV extend cable (Buying a local TV cable by yourself)			1	
15	DVI-HDMI	04G460002400 /04G460002450		1	

16	Power Cable	14G000602510 /14G000602502		1	
17	LCD “Y” Cable	14-010230000		1	
18	P5E	80-MBB7X0-G0A01		1	