Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GTC	Janice_pang	
1.01		Add New P/N(C1CK60-A01)	GTC	Janice_pang	
1.02		Add New PCBA (C1CK60-A11)	GTC	Daisy_jiang	
1.03		Add New P/N(C1CK15-A01)	GTC	Janice_pang	
1.04		Add New PCBA (C1CK60-A21)	GTC	Ariel_wang	
1.05		Add New P/N (C1CK1K-A01)	GTC	Ariel_wang	
1.06		Add New PCBA (C1CK15-A14)	GTC	Ariel_wang	
1.07		Add New PCBA (C1CK10-A14)	GTC	Ariel_wang	
1.08		Modify for new test structure	GTC	Janice_pang	
1.09		Add New P/N(C1CM85-A01)	GTC	Ariel_wang	
1.10		Add New PCBA (C1CM85-A12)	GTC	Ariel_wang	
1.11		Add New P/N(C1CK1U-A01)	GTC	Ariel_wang	
1.12		Add New P/N(C1CK1Z-A01)	GTC	Ariel_wang	
1.13		Add New P/N(C1CN20-A01)	GTC	Ariel_wang	Jun.9,2009
1.14		Add New PCBA (C1CK15-A34)	GTC	Ariel_wang	Jun.12,2009
1.15		Add New PCBA (C1CK1U-A11)	GTC	Ariel_wang	Jul.8,2009
1.16		Add New P/N(C1CK1A-A11)	GTC	Ariel_wang	Dec.01,2009
1.17		update the flash bios way for C1CK15	GTC	Ariel_wang	Dec.04,2009

Authorize by		Review by		Originator By	Janice

1.Objectives

Create test procedure.

2.Scope

Model: EAH3450
PN: C1CK10(A01&A14)C1CK60(A01&A11&A21)
C1CK15(A01&A04&A14&A34)   C1CK1K(A01) C1CK1U(A01&A11)
C1CM85(A01&A12)C1CK1Z(A01)   C1CN20(A01) C1CK1A(A11)

3.Test Item

3.1 Diagnostic test in DOS
3.2 3DMark03**(contain HDMI test**)
3.3 Temperature test
3.4 Suspend Test

4.Relevant Document

None.

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.
3. If 95C5.10.79.0.1.AS05 (C1CK15-A04) test fail, please flash the bios of
95C5.10.79.0.1.AS01.A (C1CK15-A04) to test again.
If 95C5.10.79.0.1.AS01.A (C1CK15-A04) test fail, please flash the bios of
95C5.10.79.0.1.AS05 (C1CK15-A04) to test again.

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. (For P5LD2&P5KR)

      Plug USB Mouse and PS/2 Keyboard into MB.(For P5E)

6.2.4 Plug VGA Card EAH3450 into PCIEX16.
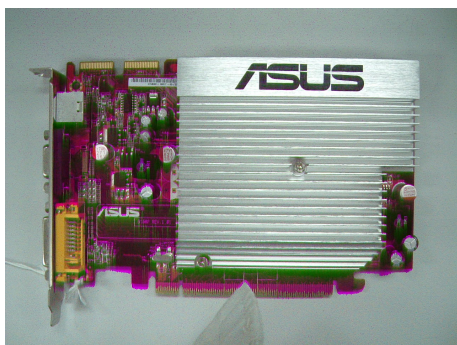
C1CK60

6.2.5 Connect IDE HDD with IDE CON.
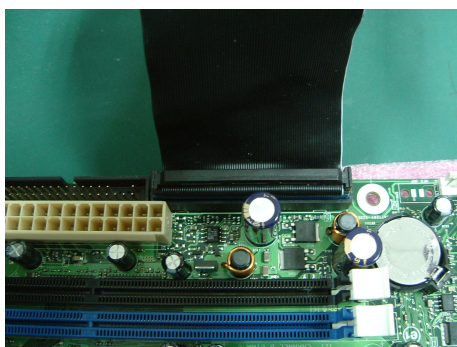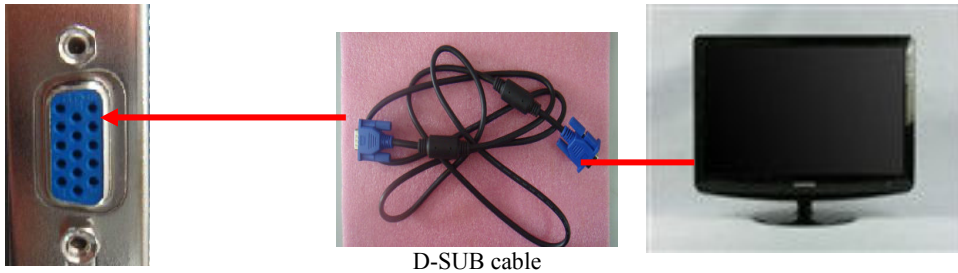

6.2.6 Plug 4PIN 12V power(600W) cable into CON12V.

6.2.7 Plug ATX Power on Power(600W) Connector.
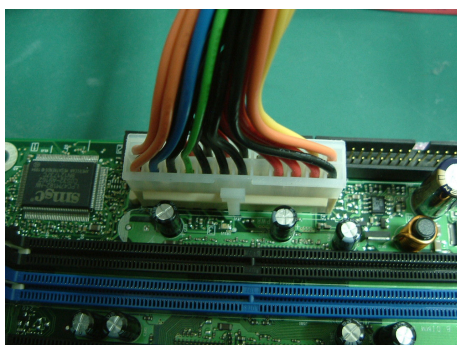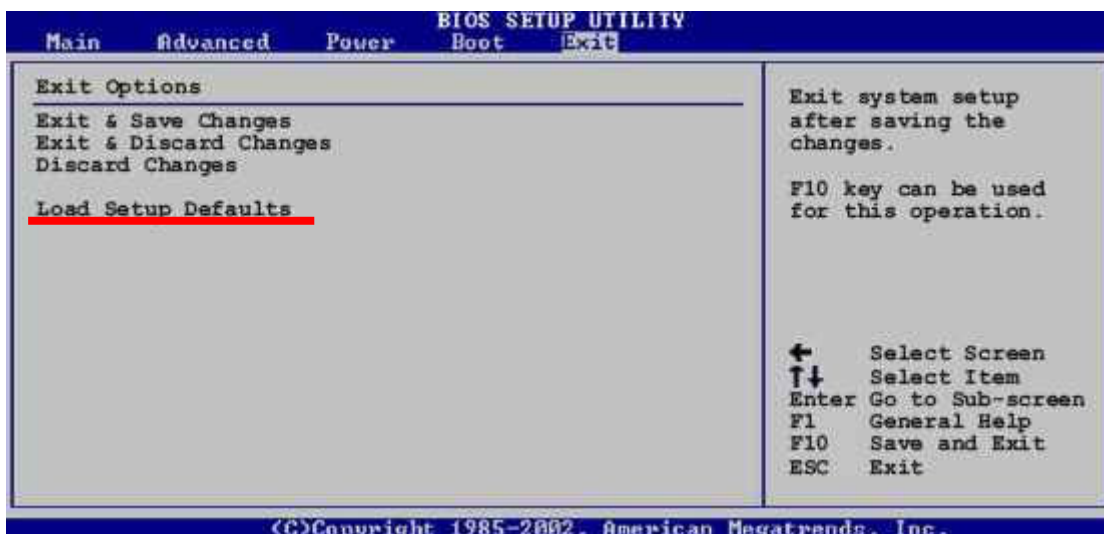
6.3 Certain test.

6.3.1 Diagnostic test in DOS

6.3.1.1 Please connect LCD monitor & card's D-SUB CON via a D-SUB cable.

D-SUB 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\EAH3450\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\EAH3450\DIAG

6.3.1.6 BIOS flash
Please use the following command to flash bios and notice the size of character.
Path:VBAT\EAH3450\BIOS
Command:atiflash -p -f 0 xxx.rom

6.3.1.7 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(for HDMI function).
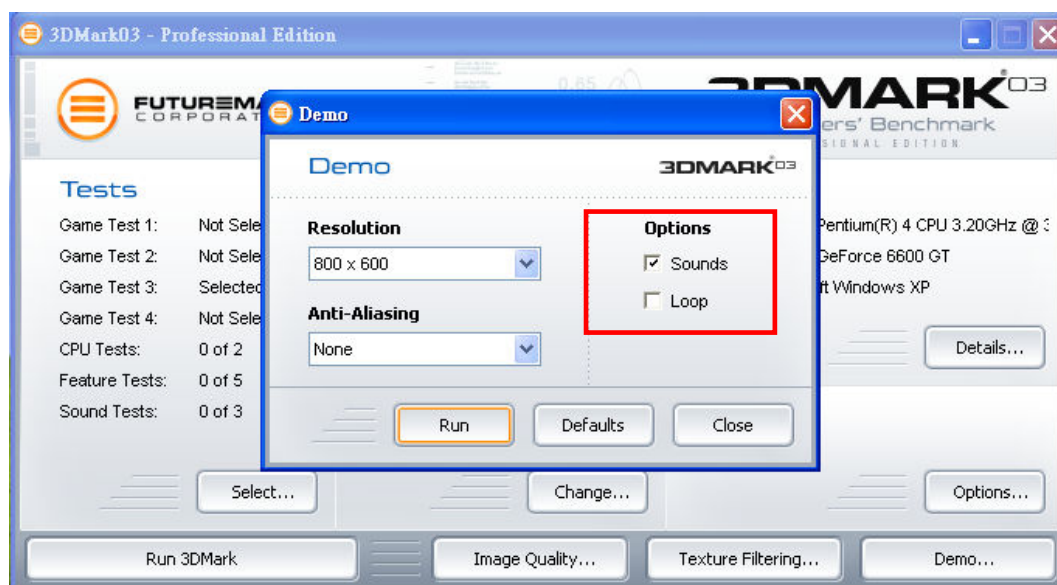

DVI-HDMI cable
YELLOW DVI CON

HDMI cable
HDMI CON
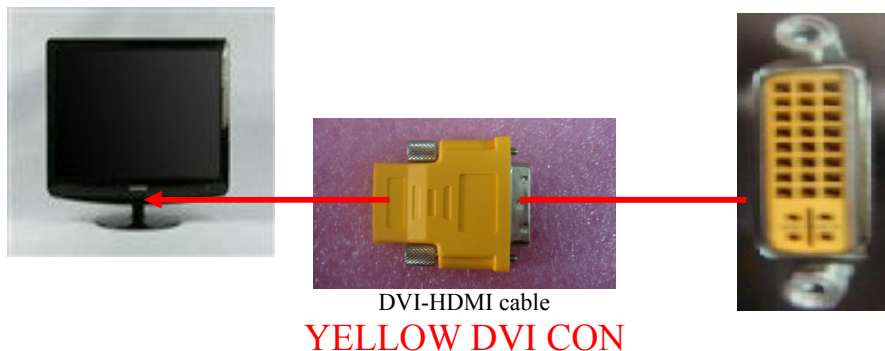
6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).
6.3.2.4 Please run 3DMark03 base on this card (please test 1 cycle).

6.3.2.5 Press "Select" to enter Select test menu. You can choose "GT4" for default setting.
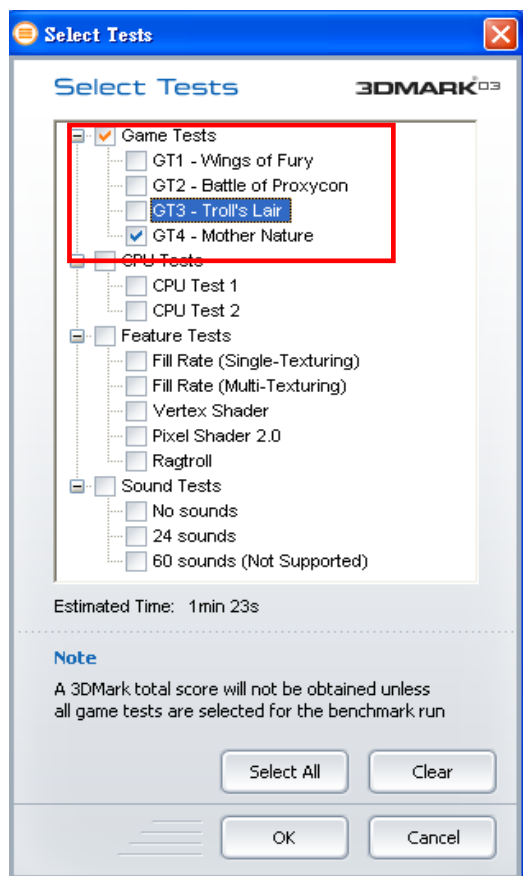
6.3.2.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting

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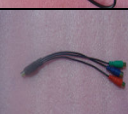
6.3.2.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.

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	USB MOUSE			1	
5	ATX POWER SUPPLY(600W)			1	
6	INTEL Celeron E1200			1	
7	Heat sink + FAN	22-240000160		1	
8	APACER 800MHz 512M or 800MHz 1G			512M 2 or 1G 1	
9	TEST HDD			1	
10	40Pins IDE Cable ATA66		ASUS	1	
11	PCIEX16 VGA CARD			1	
12	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	
13	S CABLE(ATI)	14G001801801		1	
14	Dual link DVI cable (Buying a local DVI cable by yourself)			1	
15	HDMI extend cable (Buying a local HDMI cable by yourself)			1	

16	**TV extend cable** **(Buying a local TV cable by yourself)**			**1**	
17	**DVI-HDMI**	**04G460002400** **/04G460002450**		**1**	
18	**LCD "Y" Cable**	**14-010230000**		**1**	
19	**P5LD2 MB**	**80- MBL1A5-*** **80- MBB4W0-***		**1**	
20	**P5KR(for C1CK15)**	**80-MBB7D0-***		**1**	
21	**P5E MB(for C1CK10-A14 and after)**	**80- MBB7X0-***		**1**	