ASUSTeK	COMPUTER			
INC.				

BRAV09500 Date: Jun. 21, Standard Operation Procedure Revision: 1.04

Doc. No:
Date: Jun. 21, 2010

Page: 5 Grade:

Rev.	Modified Chapters	Modification Description Issued Dept. Issued by		Revised Date	
1.00		First release	GTC	Janice_Pang	JUN.25,2009
1.01		Add New PCBA(C1CN00-A11)	GTC	Janice_Pang	SEP.11,2009
1.02		Add New PCBA(C1CN00-B01)	GTC	Janice_Pang	SEP.29,2009
1.03		Unlock or lock bios	GTC	Janice_Pang	SEP.29,2009
1.04		Add New PCBA(C1CN00-A24)	GTC	Ariel_wang	Jun.21,2010

Authorize	Review	Originator	Janice
by	by	By	

Form No: T2-009-01 Rev.01

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1.Objectives

Create test procedure.

2.Scope

Model: BRAVO9500

PN: C1CN00(A01&A24&A11&B01)

3.Test Item

3.1 Diagnostic test in DOS

3.2 3DMark05(contain HDMI test)

3.3 Temperature 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.

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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).

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6.2 Fixture connect

6.2.1 Install Intel P5 CPU & CPU Fan.

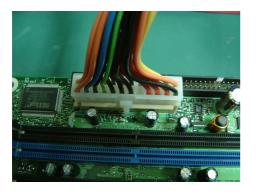
- 6.2.2 Install DDR2 667/800 1GB Memory to DIMM1~2.
- 6.2.3 Plug PS/2 Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card BRAVO9500 into PCIEX16.



6.2.6 Connect SATA HDD & SATA con via SATA cable



- 6.2.7 Plug 4PIN 12V power(600W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power(600W) Connector.



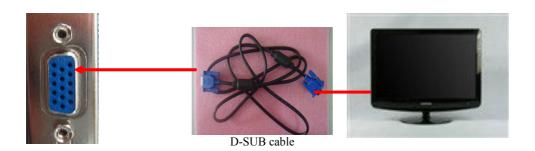
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6.3 Diagnostic test in DOS

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



- 6.3.2 Press Power Switch then turn on power button.
- 6.3.3 Press "Del" to enter CMOS setup menu while boot screen is displaying. EXIT -> Load Setup Defaults.



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

Path: VBAT\ BRAVO9500\BATCH\

Run the test program refer to the prompt.

6.3.5 Memory test

If you want to test memory, please run mats.exe.

Path: VBAT\ BRAVO9500\ 0171HX1\

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6.3.6 BIOS flash

Please use the following command to flash bios and notice the size of character. Path:VBAT\ BRAVO9500\BIOS

Command:nvflash xxx.rom -4 -5 -6 -A -y

Notice:

If you can not flash bios because of the bios locked, please use nvflash.exe /r to unlock bios. And then, please use nvflash.exe /w to lock bios after updating latest bios.

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

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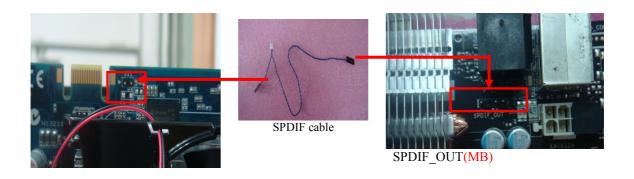
6.4 3DMark test(contain HDMI test)

- 6.4.1 Please install 3DMark program by yourself.
- 6.4.2 Please connect VGA card to LCD via HDMI cable.





- 6.4.3 Please install VGA card driver in Windows(You must use individual driver of this card).
- 6.4.4 Plug 4 Pin black cable into SPDIF OUT of MB. Plug another 2 Pin white cable into SPDIF IN of VGA card(for HDMI function).



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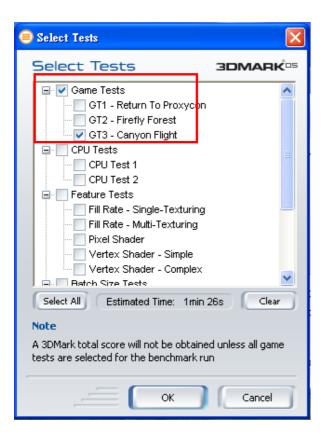
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6.4.5 Plug SUPREME FX II card into PCIEX1 of MB(for HDMI function).



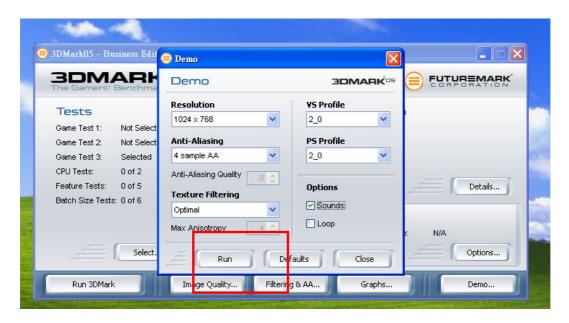
- 6.4.6 Please install SUPREME FX II card driver in Windows and enter Windows to test HDMI(for HDMI function).
- 6.4.7 Please run 3DMark05 base on this card (please test 1 cycle).
- 6.3.2.5 Press "Select" to enter Select test menu. You can choose "GT3" for default setting.



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6.4.9 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting(for HDMI function).



- 6.4.10 Please pay attention to check if there is flickering, discolor, crash and so on. If there's no problem, it can be judged OK!
- 6.4.11 Listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail(for HDMI function).



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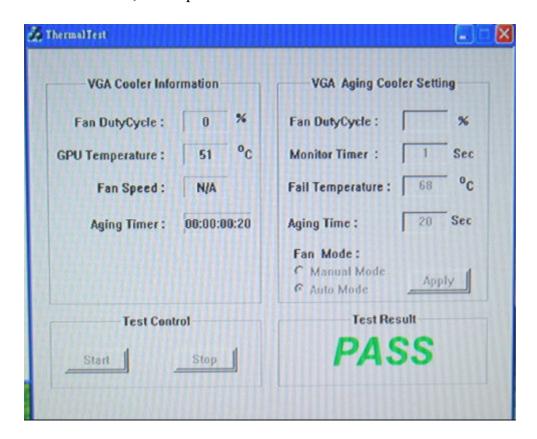
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6.5 Temperature test

- 6.5.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.5.2 Please run ThermalTest.exe.



6.5.3 If test ok, show pass.

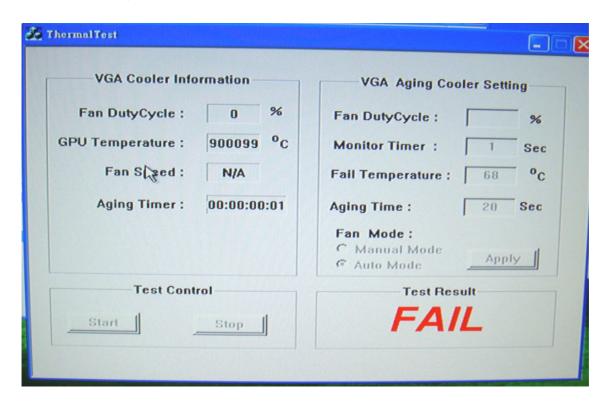


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6.5.4 If test fail, show fail.



6.5.5 If test OK, NTF test.

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7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD monitor		SAMSUNG 2232MW	1	
2	PS/2 MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(600W)			1	
5	INTEL P5 CPU			1	
6	Heat sink + FAN	22-240000160		1	
8	DDR2(667/800)512M	04G0016169A9NE /22-T00642404		2	
	SATA HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	
12	S CABLE(NVDIA)	14G010005113 /14G010005100		1	
13	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O
14	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
15	TV extend cable (Buying a local TV cable by yourself)			1	
16	DVI-HDMI	04G460002400 /04G460002450		1	

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17	Power Cable	14G000602510 /14G000602502	1	
18	SPDIF CABLE	14G003200813 /14G003200810	1	M
19	SUPREME FX II	80-C1BHK5-0C01	1	
20	LCD "Y" Cable	14-010230000	1	
21	P5E	80-MBB7X0-G0A01	1	