

ASUSTeK COMPUTER INC.	MA3450 Management Procedure	Doc. No:	
		Date: Apr. 29, 2009 Revision:1.01	
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Rev.	Modification	Modify description	Issue div.	Originator
1.0		First Release	T.C	Paul
1.01		ADD PCBA	T.C	Paul

Authorize by		Review by		Originator By	Paul
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1.Objectives

Create test procedure.

2.Scope

Model: MA3450

PN: C1CKT0 (A01&B01&C01&C12)

3.Test Item

3.1 S-terminal test (If the card have S-Terminal CON)

3.2 Diagnostic test in DOS use CRT

3.3 3DMark test in Windows use LCD

3.4 Other test

4.Relevant Document

None.

5.Definition

None.

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6. Operation Procedures:

6.1 Attention

6.1.1 To avoid damage device or M/B and discharge after turn off A/C power.

6.1.2 While unplugging the card, do it in upright direction to avoid damage deviation to golden finger.

6.1.3 If it happens in problem, please inform to test supervisor. According to the ATX power specification, the +5V standby voltage is existing While AC 110V is connecting, for safely reason, Turn off main power when Test id idling or during break time.

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6.2 Prepared Item

6.2.1 Install Intel P5 CPU & CPU Fan.

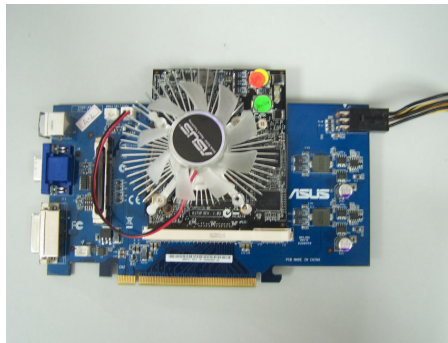
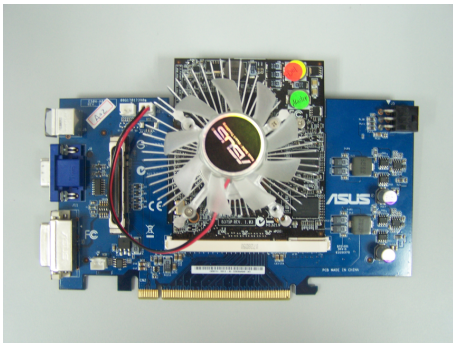
6.2.2 Install DDR2 1GB Memory to DIMM1~2(DDR2 is 667 or 800).

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

6.2.4 Plug VGA Card MA3450 into E504/P/MXM/A. Then Plug E504/P/MXM/A Card into PCIEX16

6.2.5 Connector VGA Card and CRT use LCD “Y” Cable.

6.2.6 Connector VGA Card and Power use Power Cable.



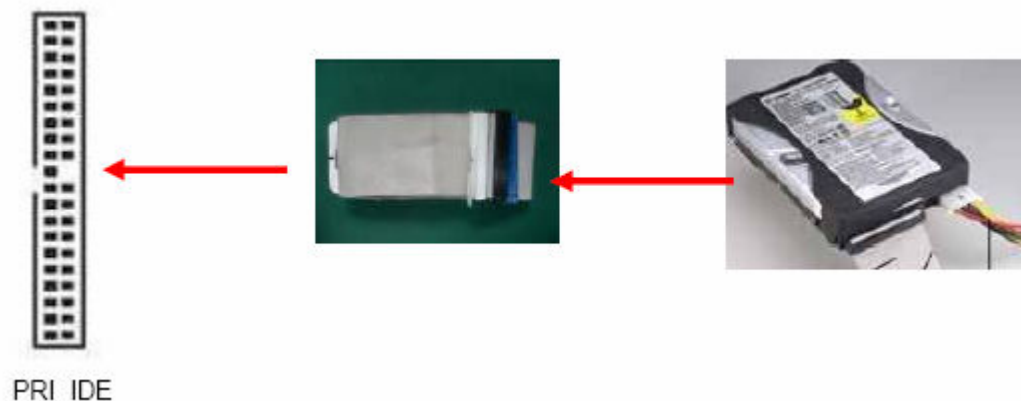
6.2.7 Fixture connect

6.2.7.1 If the card have S-Terminal CON on it, please connect it to TV use S-terminal cable.

6.2.7.2 Connect the card's VGA CON with a CRT monitor to test Diagnostic in DOS (If there's no VGA CON on the card, Please use a DVI to VGA convert).

6.2.7.3 Connect the card's DVI CON with a LCD monitor to test 3DMark in Windows. (If there's no DVI CON on the card, please use a CRT Monitor to test).

6.2.8 Connect IDE HDD with IDE CON.



PRI_IDE

6.2.9 Plug 8PIN 12V power cable into CON12V.

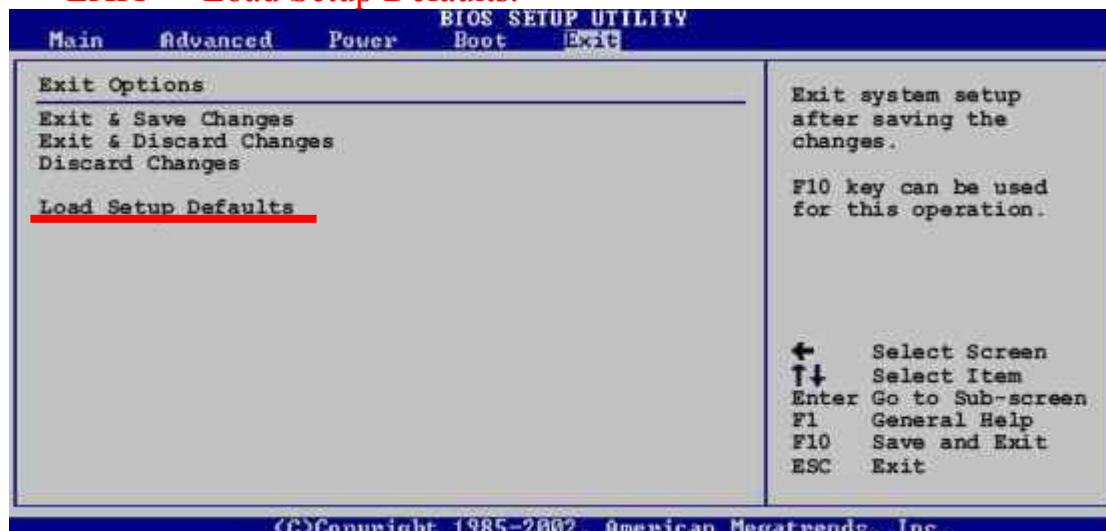
6.2.10 Plug ATX Power(550W) on Power Connector.

6.3 Test step

6.3.1 Press Power Switch then presses the "Power Button" to power on.

6.3.2 Press "Del" to enter CMOS setup menu when booting screen display.

EXIT -> Load Setup Defaults.



6.3.3 Test flow

6.3.3.1 If there's a S-terminal CON on the card, Please connect it with a TV and then power on to check if it have display on the TV. If so, test OK. Then power down.

(Please refer to step 6.2.7.1)

6.3.3.2 System will reboot. Select DOS to run test program.

(Please refer to step 6.2.7.2)

Path: VBAT\MA3450\BATCH

Run the test program refer to the prompt.

6.3.3.3 After DOS test, please enter Windows to test 3Dmarks.

(Please refer to step 6.2.7.3)

(Please install 3Dmark program by yourself).

6.3.4 Memory test

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

Path: VBAT\MA3450\DIAG

6.3.5 BIOS flash

Please use the following command to flash bios.

Please notice the size of character.

Path: VBAT\MA3450\BIOS

6.3.5.1 NVIDIA BIOS


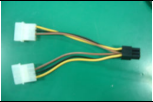
Command: **nvflash xxx.rom -4 -5 -6 -A -y**

6.3.5.2 ATI BIOS

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

7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD monitor			1	
2	PS/2 MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(550W)			1	
5	INTEL P5 CPU			1	
6	Heat sink + FAN	22-240000160		1	
7	DDR2(667/800)	04G0016169A9NE /22-T00642404		2	
8	TEST HDD			1	
9	40Pins IDE Cable ATA66		ASUS	1	
10	PCIEX16 VGA CARD			1	
11	S CABLE	16-300018821		1	
12	VGA extend cable	16-300001230		1	
13	LCD extend cable	16-T10540823		1	
14	CRT monitor			1	
15	SONY TV PVM-1354Q	20-521029000		1	
16	LCD "Y" Cable	14-010230000		1	

17	Y TV cable	16-T104B0999		1	
18	P5E	80-MBB7X0-G0A01		1	
19	Power Cable	14G000602510		1	
20	E504/P/MXM/A	80-C1CJL5-00A01			