

ASUSTeK COMPUTER INC.	GTX745 Standard Operation Procedure	Doc. No:	
		Date: Apr. 23. 2014 Revision:1.00	
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0Rev .	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First release	GRMA	Jory_yuan	Apr.23.2014

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## 1.Objectives

Create test procedure.

## 2.Scope

Model: GTX745  
PN: PA06C0(A01)

## 3.Test Item

- 3.1 Diagnostic test in Tiny Linux system
- 3.2 3DMark11(**contain HDMI&DVI 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.

3. Please use platform (**P7H55-M/USB3**) to test in LINUX or Windows.

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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 7 test environment by yourself).

## 6.2 Fixture connect

6.2.1 Install Intel P7 CPU & CPU Fan.

6.2.2 Install DDR3 Memory to DIMM1~4.

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

6.2.4 Plug VGA Card GTX745 into PCIEX16.

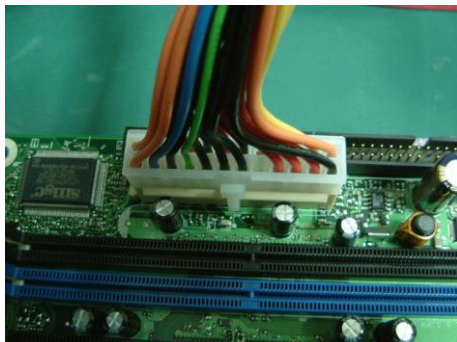
6.2.5 Connect power con of VGA card & Power supply via bundled power cable.

6.2.6 Connect SATA HDD with SATA CON.



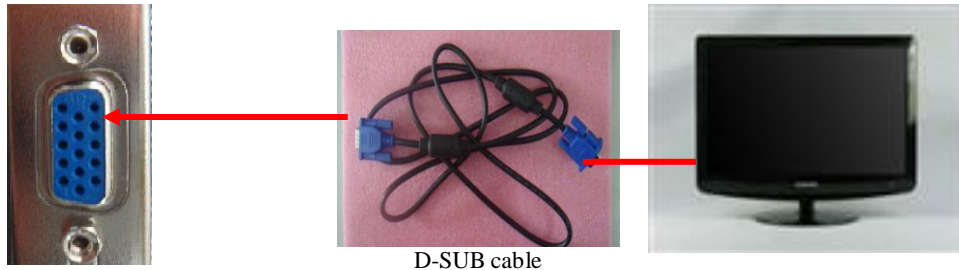
6.2.7 Plug 4PIN 12V (1200W) power cable into CON12V.

6.2.8 Plug ATX Power (1200W) on Power Connector.



## 6.3 Diagnostic test in linux system

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 linux to run test program.

Path: GTX745\pa06c0a0.sh

Run the test program refer to the prompt.

6.3.5 Memory test

If you want to test memory, please run **./mats -e xx** or **./mats -c xx**

Where, -c xx----- only xx% of frame buffer is detected.

Path: GTX745\

6.3.6 BIOS flash

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

Path: GTX745\





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** or **./nvflash -r** to unlock bios. And then, please use **./nvflash.exe /w** or **./nvflash -w** to lock bios after updating latest bios.

6.3.7 If test OK, NTF test.

## 7 Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	SAMSUNG 2232MW			1	
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY (1200W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	
6	Heat sink + FAN	22-240000160	local	1	
7	DDR3 1333 2G	20-TT2605618	local	4	
8	SATA HDD			1	
9	SATA HDD Cable	14-000107070		1	
10	PCIEX16 VGA CARD			1	
11	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	
13	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
15	DVI-HDMI	04G460002400 /04G460002450		1	
17	P7H55-M/USB3	80-MIBBKA-G0*	ASUS	1	