

ASUSTeK COMPUTER INC.	GTX750 Standard Operation Procedure	Doc. No:	
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ORev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First release	GRMA	Jory_yuan	Jan.8.2014
1.01		Add new P/N(YV05L1-A04)	GRMA	Jory_yuan	Jan.8.2014
1.02		Add new P/N(YV05J1-A02)	GRMA	Jory_yuan	Jan.15.2014
1.03		Add new PCBA(YV05J2-A14)	GRMA	Jory_yuan	Jan.15.2014
1.04		Add new P/N(YV05L0-B02)	GRMA	Jory_yuan	Jan.15.2014
1.05		Add new PCBA(YV05L1-A16)	GRMA	Jory_yuan	Jan.22.2014
1.06		Add new P/N(YV05L2-A06)	GRMA	Jory_yuan	Jan.22.2014
1.07		Add new P/N(YV05L3-A02)	GRMA	Jory_yuan	Jan.22.2014
1.08		Add new PCBA(YV05L0-B15)	GRMA	Jory_yuan	Feb.11.2014
1.09		Add new PCBA(YV05J3-A12)	GRMA	Jory_yuan	Feb.11.2014
1.10		Add new P/N(YV05J2-A02)	GRMA	Jory_yuan	Feb.11.2014
1.11		Add new P/N(YV05J3-A02)	GRMA	Jory_yuan	Feb.11.2014
1.12		Add new PCBA(YV05L2-A16)	GRMA	Jory_yuan	Feb.19.2014
1.13		Add new P/N(YV05Y0-A01)	GRMA	Jory_yuan	Feb.19.2014
1.14		Add new P/N(YV05Y2-A01)	GRMA	Jory_yuan	Feb.19.2014
1.15		Add new PCBA(YV05L0-B25)	GRMA	Jory_yuan	Mar.5.2014
1.16		Add new PCBA(YV05L2-A26)	GRMA	Jory_yuan	Mar.5.2014
1.17		Add new PCBA(YV05L2-B11)	GRMA	Jory_yuan	Mar.5.2014
1.18		Add new PCBA(YV05L3-A13)	GRMA	Jory_yuan	Mar.5.2014
1.19		Add new PCBA(YV05L3-A23)	GRMA	Jory_yuan	Mar.12.2014
1.20		Add new P/N(YV0611-A02)	GRMA	Jory_yuan	Mar.12.2014
1.21		Add new P/N(YV05Y1-A02)	GRMA	Jory_yuan	Mar.12.2014
1.22		Add new P/N(YV0615-A02)	GRMA	Jory_yuan	Mar.19.2014
1.23		Add new P/N(YV05J4-A01)	GRMA	Jory_yuan	Mar.19.2014
1.24		Add new PCBA(YV05J4-A11)	GRMA	Jory_yuan	Mar.19.2014
1.25		Add new P/N(YV05J5-A01)	GRMA	Jory_yuan	Mar.19.2014
1.26		Add new PCBA(YV0611-A13)	GRMA	Jory_yuan	Apr.2.2014
1.27		Add new PCBA(YV05Y0-A23)	GRMA	Jory_yuan	Apr.2.2014
1.28		Add new PCBA(YV05Y0-A14)	GRMA	Jory_yuan	Apr.9.2014
1.29		Add new PCBA(YV05Y1-A12)	GRMA	Jory_yuan	Apr.9.2014
1.30		Add new P/N(YV05Y3-A03)	GRMA	Jory_yuan	Apr.16.2014
1.31		Add new P/N(YV0614-A02)	GRMA	Jory_yuan	Apr.16.2014
1.32		Add new PCBA(YV0614-A12)	GRMA	Jory_yuan	Apr.16.2014
1.33		Add new PCBA(YV05J5-A11)	GRMA	Jory_yuan	Apr.16.2014

Authorize by		Review by		Originator By	Jory
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1.34		Add new PCBA(YV05Y2-A22)	GRMA	Jory_yuan	Apr.16.2014
1.35		Add new P/N(YV05Y4-A01)	GRMA	Jory_yuan	Apr.23.2014
1.36		Add new P/N(YV05Y5-A01)	GRMA	Jory_yuan	Apr.23.2014
1.37		Add new PCBA(YV0615-A12)	GRMA	Jory_yuan	Apr.28.2014
1.38		Add new PCBA(YV05Y2-A12)	GRMA	Jory_yuan	Apr.28.2014
1.39		Add new P/N(YV05Y6-A01)	GRMA	Jory_yuan	Apr.28.2014
1.40		Add new PCBA(YV05Y5-A11)	GRMA	Jory_yuan	May.7.2014
1.41		Add new P/N(PA06J0-A01)	GRMA	Jory_yuan	May.14.2014
1.42		Add new PCBA(YV05Y5-A21)	GRMA	Jory_yuan	May.14.2014
1.43		Add new PCBA(YV05Y6-A21)	GRMA	Jory_yuan	May.14.2014
1.44		Add new PCBA(YV05Y6-A11)	GRMA	Jory_yuan	May.21.2014
1.45		Add new P/N(YV05Y7-A02)	GRMA	Jory_yuan	May.21.2014
1.46		Add new PCBA(YV05Y1-A22)	GRMA	Jory_yuan	May.22.2014
1.47		Add new P/N(YV05Y8-A01)	GRMA	Jory_yuan	Jun.4.2014
1.48		Add new P/N(YV06W0-A02)	GRMA	Jory_yuan	Jun.18.2014
1.49		Add new P/N(YV0617-A01)	GRMA	Jory_yuan	Jun.18.2014
1.50		Add new PCBA(YV0610-A12)	GRMA	Jory_yuan	Jul.2.2014
1.51		Add new P/N(YV06W1-A02)	GRMA	Jory_yuan	Jul.10.2014
1.52		Add new P/N(YV0618-A01)	GRMA	Jory_yuan	Jul.24.2014
1.53		Add new P/N(YV06X0-A03)	GRMA	Jory_yuan	Jul.24.2014
1.54		Add new P/N(YV06X2-A02)	GRMA	Jory_yuan	Jul.30.2014
1.55		Add new PCBA(YV06W0-A13)	GRMA	Jory_yuan	Jul.30.2014
1.56		Add new PCBA(YV06W1-A13)	GRMA	Jory_yuan	Jul.30.2014
1.57		Add new P/N(YV06X1-B02)	GRMA	Jory_yuan	Jul.30.2014
1.58		Add new P/N(YV0611-A23)	GRMA	Jack fan	Sep.03.2014
1.59		Add new P/N(YV0611-A33)	GRMA	Jack fan	Sep.17.2014
1.60		Add new P/N(YV0614-A22)	GRMA	Jack fan	Sep.17.2014
1.61		Add new P/N(YV06X3-A01)	GTSD	El Li	Oct.30.2014
1.62		Add new PCBA(YV06W0-A34)	GTSD	Mao Lu	Jun.10.2015
1.63		Add new PCBA(YV06W1-A34)	GTSD	Mao Lu	Jun.10.2015
1.64		Add new PCBA(YV0611-A45)	GTSD	Mao Lu	Jun.10.2015
1.65		Add new PCBA(YV0614-A45)	GTSD	Mao Lu	Jun.10.2015
1.66		Add new PCBA(YV0617-A11)	GTSD	Mao Lu	Jun.10.2015
1.67		Add new P/N(YV07L0-A01)	GTSD	Mao Lu	Jun.10.2015
1.68		Add new PCBA(YV07L0-A11)	GTSD	Mao Lu	Jun.10.2015
1.69		Add new P/N(YV07L1-A01)	GTSD	Mao Lu	Jun.10.2015
1.70		Add new PCBA(YV07L1-A11)	GTSD	Mao Lu	Jun.10.2015
1.71		Add new PCBA(YV05Y4-A17)	GRTD	Xiaoming Lu	Sep.10.2015
1.72		Add new PCBA(YV0617-A24)	GRTD	Xiaoming Lu	Sep.10.2015
1.73		Add new PCBA(YV0618-A23)	GRTD	Xiaoming Lu	Oct.20.2015
1.74		Add new PN(YV061D-A01)	GRTD	Xiaoming Lu	Oct.22.2015

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1.Objectives

Create test procedure.

2.Scope

Model:GTX750

PN:

YV05J1(A02&A12)YV05L1(A04&A16)YV05J2(A02&A14)YV05J3(A02&A12)YV05L0(B02&B15&B25)YV05L2(A06&A16&A26&B11)YV05L3(A02&A13&A23)YV05Y0(A01&A14&A23)YV05Y1(A02&A12&A22)YV05Y2(A01&A12&A22)YV05Y3(A03)YV05Y4(A01)YV05Y5(A01&A11&A21)YV0611(A02&A13&A23&A33)YV0614(A02&A12&A22)YV0615(A01&A12&A22)YV05J4(A01&A11)YV05J5(A01&A11)YV05Y6(A01&A11&A21)PA06J0(A01)YV05Y7(A02)YV05Y8(A01)YV06W0(A01&A13)YV0617(A01)YV0610(A12)YV06W1(A02&A13)YV0618(A01)YV06X0(A03)YV06X1(B02)YV06X2(A02)YV06X3(A01)YV06W0(A34)YV06W1(A34)YV0611(A45)YV0614(A45)YV0617(A11)YV07L1(A01)YV07L1(A11)YV07L0(A01)YV07L0(A11)YV05Y4(A17)YV0617(A24)YV0618(A23)YV061D(A01)

3.Test Item

3.1 Diagnostic test in Tiny Linux

3.2 3DMark11(**contain HDMI test**)

3.3 Temperature test

Download Tiny Linux/3DMark/ Thermaltool from below link and instill by yourself:

 **Public Folder** → **GRMA** → **Test Program (Main Program & Utilities)** → **VGA**

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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.

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).

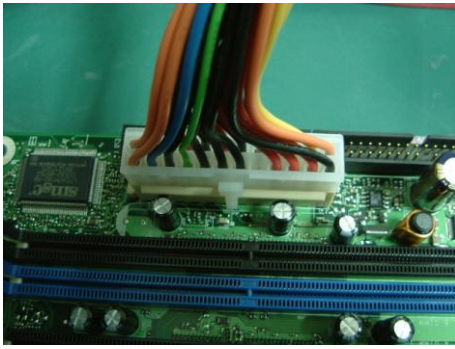
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6.2 Fixture connect

- 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 GTX750 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 Tiny Linux.

6.3.1 Please connect LCD monitor & card's first DVI CON via a DVI 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:gtx750\yv05j1a1.sh or yv05j1a0.sh or yv05j2a1.sh or yv05j2a0.sh or yv05j3a0.sh or yv05j3a1.sh or yv05j4a0.sh or yv05j4a1.sh or yv05j5a0.sh or yv05j5a1.sh

Path:gtx7501\yv05l0b0.sh or yv05l1a0.sh or yv05l1a1.sh or yv05l2a0.sh or yv05l3a0.sh or yv05l0b1.sh or yv05l2a1.sh or yv05y0a0.sh or yv05y2a0.sh or yv05l0b2.sh or yv05l2a2.sh or yv05l2b1.s or yv05l3a1.sh or yv05y1a0.sh or yv05y1a1.sh or yv05y1a2.sh

Path:gtx7502\yv06l1a0.sh or yv06l1a1.sh or yv06l7a0.sh or yv618a0.sh or yv06l8a2.sh

Path:gtx7503\yv05l3a2.sh

Path:gtx7504\yv06l5a0.sh or yv05y0a2.sh or yv05y0a1.sh or yv06l4a1.sh or yv05y2a2.sh or yv06l4a0.sh or yv05y5a0.sh or yv05y6a.sh or yv06l5a1.sh or yv06l5a2.sh or yv05y2a1.sh or yv05y5a1.sh or yv05y5a2.sh or yv05y6a2.sh or yv05y6a1.sh or yv06x1b0.sh

Path:gtx7505\yv05y3a0.sh or yv05y4a0.sh or yv05y7a0.sh or yv05y8a0.sh or yv06x0a0.sh or yv06x2a0.sh or yv06x3a0.sh or yv05y4a1.sh

Path:gtx7506\pa06j0a0.sh

Path:gtx7507\yv06w0a0.shoryv06w1a0.shoryv06w0a1.shoryv06w1a1.shor yv06w0a3.shoryv06w1a3.sh

Path:gtx7508\yv06l0a1.sh

Path:gtx7509\yv06l1a2.shyv06l1a3.shoryv06l1a4.sh

Path:gtx750a\yv06l4a2.shoryv06l4a4.sh

Path:gtx750b\yv07l0a0.shoryv07l0a1.sh

Path:gtx750c\yv07l1a0.shoryv07l1a1.sh

Path:gtx750d\yv06l7a1.sh or yv06l7a2.sh or yv06lda0.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:gtx750\

mats Reported ID	GTX750	Corresponding Memory location
A00~A31	FBA_D0~FBA_D31	M3
A32~A63	FBA_D32~FBA_D63	M4
B00~B15	FBB_D0~FBB_D15	M1
B32~B63	FBB_D32~FBB_D63	M2

6.3.7 BIOS flash

If you want to check Vbios infor, Please run **biosinfo**

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

Path: Path:GTX750\

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



6.3.8 Please connect LCD monitor & card's the other DVI CON via a DVI cable.

(Please refer to step 6.3.2&6.3.4)



6.3.9 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(a minimum power of 500W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	
6	Heat sink + FAN	22-240000160		1	
7	DDR3 1333 2G	20-TT2605618	local	4	
8	TEST HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	Dual link DVI cable (Buying a local DVI cable by yourself)			1	
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
13	P7H55-M/USB3 MB	80- MIBBKA-*		1	
14	TV extend cable (Buying a local TV cable by yourself)			1	
15	LCD "Y" Cable	14-010230000		1	
16	HDMI to MINI HDMI cable (Buying a local cable by yourself)			1	