

ASUSTeK COMPUTER INC.	GT710 Standard Operation Procedure	Doc. No:	
		Date: Aug.9.2019	
		Revision:1.28	
		Page: 10	<b>Grade:</b>

0Rev .	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First release	GRTD	Xiaoming_Lu	Feb.3.2016
1.01		Add new PN(YV0941-A02)	GRTD	Xiaoming_Lu	Feb.3.2016
1.02		Add new PN(YV0960-A03)	GRTD	Xiaoming_Lu	Feb.5.2016
1.03		Add new PCBA(YV0940-A13)	GRTD	Xiaoming_Lu	Feb.18.2016
1.04		Add new PCBA(YV0960-A14)	GRTD	Xiaoming_Lu	Mar.25.2016
1.05		Add new PCBA(YV0960-A24)	GRTD	Xiaoming_Lu	Apr.29.2016
1.06		Add new PCBA(YV0940-A24)	GRTD	Maico_Zhang	Nov.9.2016
1.07		Add new PCBA(YV0960-A34)	GRTD	Maico_Zhang	Feb.15.2016
1.08		Add new PCBA(YV0960-A44)	GRTD	Maico_Zhang	Feb.17.2017
1.09		Add new PCBA(YV0940-A35)	GRTD	Maico_Zhang	Mar.31.2017
1.10		Add new PN(YV0960-U44)	GRTD	Maico_Zhang	May.4.2017
1.11		Add new PN(YV0AL1-A04)	GRTD	Maico_Zhang	Jun.7.2017
1.12		Add new PN(YV0AL0-A04)	GRTD	Maico_Zhang	Jun.7.2017
1.13		Add new PCBA(YV0AL1-B03)	GRTD	Maico_Zhang	Jun.22.2017
1.14		Add new PCBA(YV0AL0-B01)	GRTD	Maico_Zhang	Jul.25.2017
1.15		Add new PCBA(YV0AL0-B12)	GRTD	Maico_Zhang	Dec.13.2017
1.16		Add new PCBA(YV0AL1-B14)	GRTD	Maico_Zhang	Dec.13.2017
1.17		Add new PCBA(YV0940-A46)	GRTD	Maico_Zhang	Dec.13.2017
1.18		Add new PCBA(YV0941-A15)	GRTD	Maico_Zhang	Dec.28.2017
1.19		Add new PCBA(YV0940-A56)	GRTD	Maico_Zhang	May.18.2018
1.20		Add new PCBA(YV0960-A54)	GRTD	Maico_Zhang	Jul.6.2018
1.21		Add new PN(YV0B60-A13)	GRTD	Maico_Zhang	Apr.24.2019
1.22		Add new PCBA(YV0AL0-B22)	GRTD	Maico_Zhang	May.29.2019
1.23		Add new PCBA(YV0AL0-B32)	GRTD	Maico_Zhang	May.29.2019
1.24		Add new PCBA(YV0B61-A01)	GRTD	Maico_Zhang	May.29.2019
1.25		Add new PCBA(YV0940-A66)	GRTD	Maico_Zhang	Jun.26.2019
1.26		Add new PCBA(YV0B60-A23)	GRTD	Maico_Zhang	Aug.9.2019
1.27		Add new PCBA(YV0B61-A11)	GRTD	Maico_Zhang	Aug.9.2019
1.28		Add new PCBA(YV0AL1-B24)	GRTD	Maico_Zhang	Sep.5.2019

<b>Authorize by</b>		<b>Review by</b>		<b>Originator By</b>	Maico
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## 1.Objectives

Create test procedure.

## 2.Scope

Model: GT710

PN: YV0940(A01/A13/A24/A35/A46/A56) YV0941(A02/A15)

YV0960(A03/A14/A24/A34/A44/A54/A66) YV0960(U44) YV0AL1(A04)

YV0AL0(A04)YV0AL1(B03/B14)YV0AL0(B01/B12/B22/B32)

YV0B60(A13/A23)YV0B61(A01/A11) YV0AL1(B04/B14/B24)

## 3.Test Item

[3.1 Diagnostic test in TinyLinux system](#)

## 4.Relevant Document

None.

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**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).

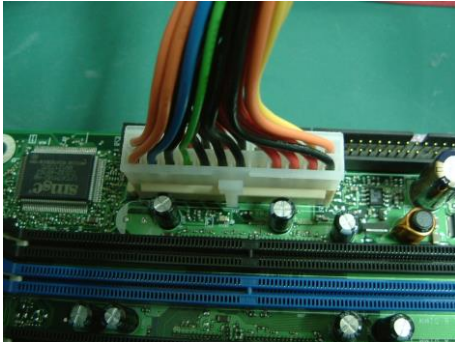
### 6.2 Fixture connect

- 6.2.1 Install Intel CPU & CPU Fan.
- 6.2.2 Install DDR Memory to DIMM1~4.
- 6.2.3 Plug USB Mouse and Keyboard into MB.
- 6.2.4 Plug VGA Card GT710 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.



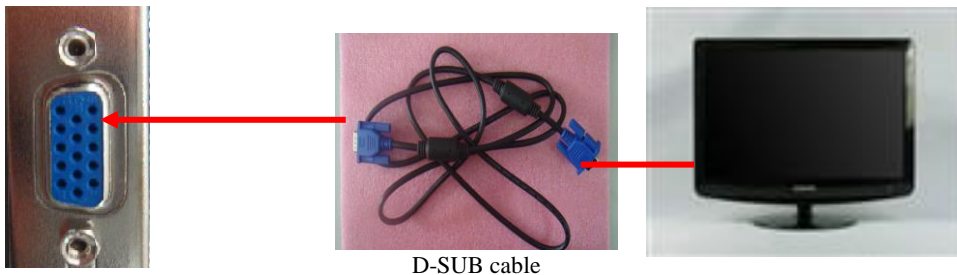
6.2.7 Plug 4PIN 12V power cable into CON12V.

6.2.8 Plug ATX Power 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.

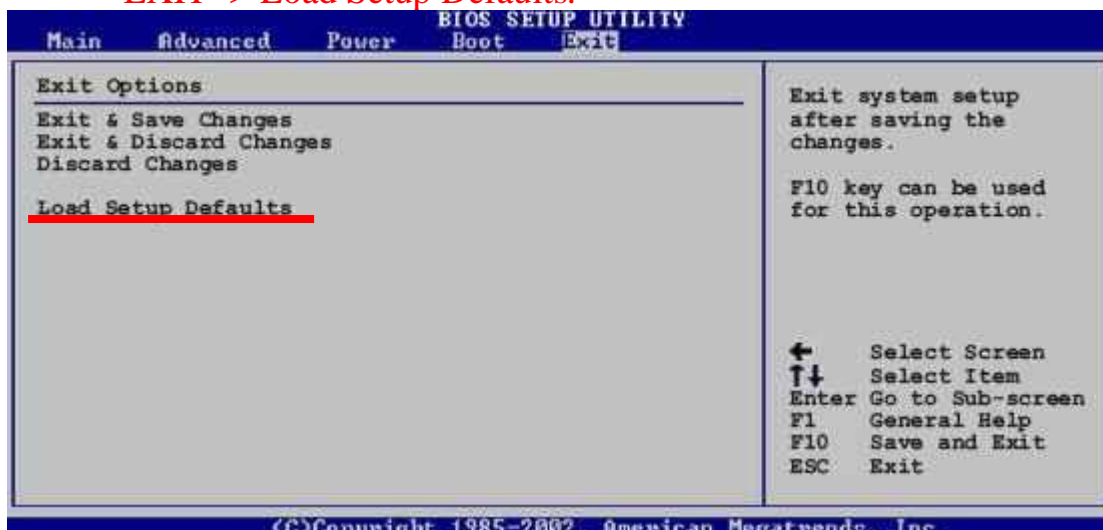


D-SUB cable

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:GT710\ yv0940a0.sh or yv0941a0.sh or yv0960a0.sh or yv0940a1.sh

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or yv0940a2.sh or yv0940a3.sh or yv0940a4.sh or yv0941a1.sh or yv0940a5.sh  
or yv0940a6.sh

Path:GT7101\ yv0960a1.sh or yv0960a2.sh or yv0960a3.sh or yv0960a4.sh or  
yv0960a5.sh

Path:GT7102\ yv0960u4.sh

Path:GT7103\ yv0a11a0.sh or yv0a11b0.sh or yv0a11b1.sh or yv0a11b2.sh

Path:GT7104\ yv0a10a0.sh or yv0a10b0.sh or yv0a10b1.sh or yv0a10b2.sh  
or yv0a10b3.sh or yv0b61a0.sh or yv0b61a1.sh

Path:GT7105\ yv0b60a1.sh or yv0b60a2.sh

Run the test program refer to the prompt.

### 6.3.5 Memory test

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

Path:GT710\

### 6.3.6 BIOS flash

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

Path:GT710\



Command: ./nvflash xxx.rom -6 -A

**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	LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz			1	
2	USB MOUSE			1	
3	KEYBOARD			1	

4	ATX POWER SUPPLY			1		
5	Intel CPU Intel(R) I5 7500 CPU		local	1		
6	Heat sink + FAN		local	1		
7	DDR4 2400 4G		local	2		
8	TEST HDD		local	1		
9	SATA HDD Cable		local	1		
10	Dual link DVI cable (Buying a local DVI cable by yourself)		local	1		
11	HDMI extend cable (Buying a local HDMI cable by yourself)		local	1		
12	ASUS Prime B250-PLUS MB		local	1		
13	D-SUB extend cable		local	1		