

ASUSTeK COMPUTER INC.	R9380 Standard Operation Procedure	Doc. No:	
		Date: Jun.12.2018 Revision:1.03	
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Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GTSD	Maico_Zhang	Feb.8.2016
1.01		Add new PN(YV0BD1-A01)	GRTD	Maico_Zhang	Feb.8.2016
1.02		Add new PN(YV0910-A01)	GRTD	Maico_Zhang	Jun.12.2018
1.03		Add new PN(YV0911-A01)	GRTD	Maico_Zhang	Jun.12.2018

Authorize by		Review by		Originator By	Maico
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## 1.Objectives

Create test procedure.

## 2.Scope

Model: R9380X

PN:YV0BD0(A01)YV0BD1(A01) YV0910(A01) YV0911(A01)

## 3.Test Item

3.1 Diagnostic test in 12\_04\_64-bit Linux

## 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. System Memory: 1GB for a single GPU test station; please add an additional 512MB of system memory for each additional GPU used for the test configuration
4. R9380X Test Program in 64-bit Linux system.

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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 P7 CPU & CPU Fan.

6.2.2 Install DDR3 Memory to DIMM1~4. (a minimum memory of 2GB for Linux test)

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

6.2.4 Plug VGA Card R9380 into PCIEX16\_1.

6.2.5 If this card has 6 PIN or 8 PIN of Power supply, please connect power con of VGA card & Power supply via bundled power cable.

(6 PIN of Power supply to 6 PIN of VGA card)

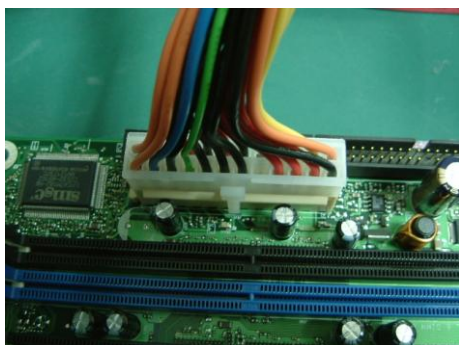
(8 PIN of Power supply to 8 PIN of VGA card)

6.2.6 Connect SATA HDD & SATA con via SATA cable



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

6.2.8 Plug ATX Power on Power (a minimum power of 1200W) Connector.



## 6.3 Certain test.

6.3.1 Diagnostic test in 64-bit LINUX system

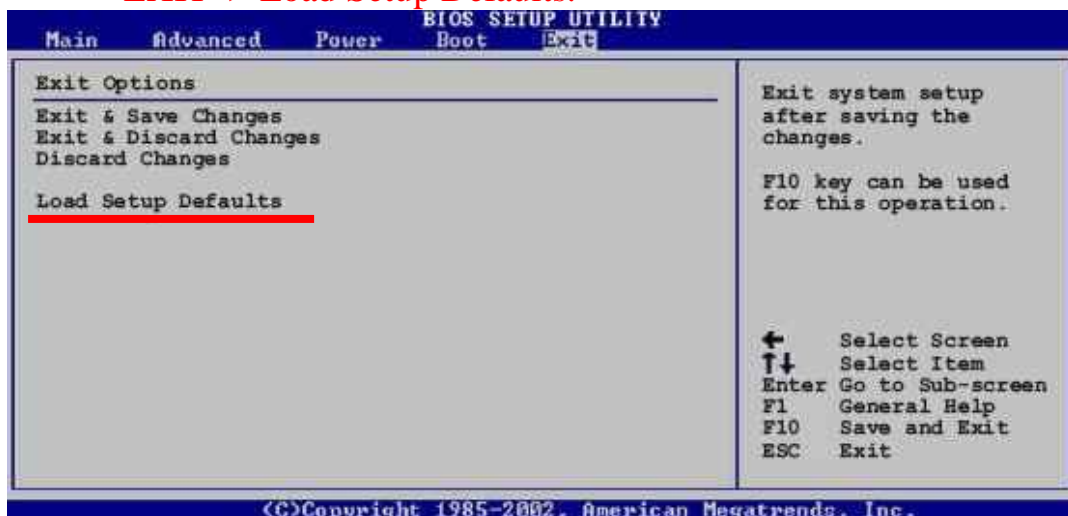
6.3.1.1 Please connect LCD monitor & card's DVI CON via a DVI cable.



6.3.1.2 Press Power Switch then turn on power button.

6.3.1.3 Press “Del” to enter CMOS setup menu while boot screen is displaying.

**EXIT -> Load Setup Defaults.**



6.3.1.4 Run test program in 64-bit linux system.

Path:r9380x\ yv0bd0a0.sh

Path:R9380x1\ yv0bd1a0.sh

Path:R9380x2\ yv0910a0.sh

Path:R9380x3\ yv0911a0.sh

6.3.1.5 Memory test

If you want to test memory, please run `./tserver -boardtest=memfa` or `./memtest.sh`

Path:R9380x\

6.3.1.6 BIOS Version

If you want to see the version of bios, please run `./atiflash -ai 0` or `./biosinfo`.

Path:R9380x\

6.3.1.7 BIOS flash

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

Path:R9380x\

Command: `./atiflash -p -f 0 xxx.rom`

**Notice:**

If you can not flash bios because of the bios locked, please use `./atiflash -unlockrom 0` to unlock bios. And then, please use `./atiflash -lockrom 0` to lock bios after updating latest bios.

6.4 If test OK, please NTF test.

## 7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	<b>Dell 30 inches (3008WFP)</b> <b>(Buying a local LCD by yourself)</b>			1	
2	<b>USB MOUSE</b>			1	
3	<b>PS/2 KEYBOARD</b>			1	
4	<b>ATX POWER SUPPLY(a minimum power of 500W)</b>			1	
5	<b>Intel CPU</b> <b>Intel(R) Core(TM)2 CPU</b>		<b>local</b>	1	
6	<b>Heat sink + FAN</b>	<b>22-240000160</b>		1	
7	<b>DDR3 1333 2G</b>	<b>20-TT2605618</b>	<b>local</b>	4	
8	<b>TEST HDD</b>			1	
9	<b>SATA HDD Cable</b>	<b>14-000107070</b>	<b>ASUS</b>	1	
10	<b>PCIEX16 VGA CARD</b>			1	
11	<b>Dual link DVI cable</b> <b>(Buying a local DVI cable by yourself)</b>			1	
12	<b>HDMI extend cable</b> <b>(Buying a local HDMI cable by yourself)</b>			1	
13	<b>P7H55-M/USB3 MB</b>	<b>80- MIBBKA-*</b>		1	
14	<b>Display port cable</b> <b>(Buying a local Display port cable by yourself)</b>			1	
15	<b>Mini Display port to HDMI cable</b> <b>(Buying a local Mini Display port to HDMI cable by yourself)</b>			1	
16	<b>D-SUB extend cable</b> <b>(Buying a local D-SUB cable by yourself)</b>			1	