ASUSTeK	
COMPUTER IN	C

RTX3070 Standard Operation Procedure

Doc. No:

Date: Nov.25.2020

Revision:1.00

Page: 0 Grade:

0Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00			GRTD	Maico_Zhang	Nov.25.2020

1. Objectives

Create test procedure.

2. Scope

Model: RTX3070

PN:

Authorize by	R	deview by	Originator By	Maico
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3. Test Item

3.1 Diagnostic test in Tiny Linux

4. Relevant Document

None.

5. Definition: Please install OS above Tinylinux20.07 ver. to test HDD.

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 10 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 RTX3070 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.

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- 6.2.7 Plug 4PIN 12V power cable into CON12V.
- 6.2.8 Plug ATX Power on Power Connector.



6.3 Diagnostic test in Tiny Linux.

6.3.1Please connect LCD monitor & card's first HDMI(DP) CON via a HDMI(DP) cable.



- 6.3.2 Press Power Switch then turn on power button.
- 6.3.3 Select Boot Option with Non-UEFI mode in BIOS. Then press "F10" to save

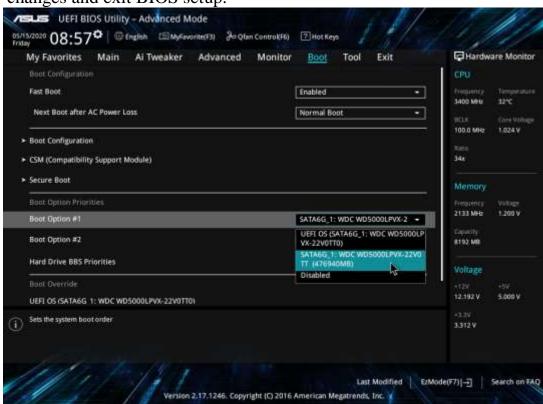
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changes and exit BIOS setup.



6.3.4 System will reboot, select TinyLinux into OS.

```
GRUB4DOS 0.4.4 2009-03-31, Memory: 625K / Z944M, MenuEnd: 0×48385
                   boot select-----
 1 DOS
 2 TinyLinux
 3 find and boot WINDOWS XP
4 find and root WIN?
 5 reboot
 6 shutdown
 Use the f and 4 keys to highlight an entry. Press ENTER or 'b' to bo
Press 'e' to edit the commands before booting, or 'c' for a command-
```

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6.3.5 Run **nv.sh**, input Serial No. and 60Part No.as below.

6.3.6 Select 5 to run final test.

```
# NUIDIA UGA LINUX TEST PROGRAM #
           Uer. 2.0
************************
Please input SM:
SN: j5c0yz2064628
Please input PN (Ex.YVOBIO):
PN: yv0bm0
Please input PCB (Ex.A03 -> A0):
PCB:a9
##### Diag Ver. 370.27 #####
Please input one test item:
1.Diag Test
2.Update UBIOS
3. URAM Test
4. Upload Test Result by Case
5. Final Test
b. Upload All Test Result
0.Exit
input:5_
```

6.3.7 Flash VBIOS

- a. Single BIOS
- -- Select 2, auto update VBIOS.

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b. Dual-VBIOS

-- Please use the following command to flash VBIOS in DIAG folder.

Path: refer to Diag Ver. as below.

```
PN:yvoazo
Please input PCB (Ex.A03 -> A0):
PCB:b1
##### Diag Ver. 367.51 #####
Please input one test item:
1.Diag Test
2.Update VBIOS
3.VRAM Test
```

Command: nvflash xxx.rom -6 -A or iromflsh xxx.rom

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.

6.5 If test OK, please NTF test.

7. Appendix

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NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz		local	1	
2	USB MOUSE		local	1	
3	KEYBOARD		local	1	
4	ATX POWER SUPPLY (a minimum power of 800W)		local	1	
5	Intel CPU Intel(R) I5 7500 CPU		local	1	E1290
6	Heat sink + FAN		local	1	13
7	DDR4 2400 4G		local	2	
8	TEST HDD		local	1	
9	SATA HDD Cable		local	1	
10	HDMI cable (Buying a local HDMI cable by yourself)		local	1	O
11	ASUS Prime B250-plus MB	90MBSJ0-M0AAY0	local	1	
13	Display port cable (Buying a local Display port cable by yourself)		local	1	