ENGTX580 (C1261) Repair Guide

ASUS Model name	ENGTX580/2DI/1536MD5
ASUS P/N	80-C1CQ45-W0A01
Graphics Engine	NVIDIA GeForce GTX 580
GPU P/N	02G190018701
Bus Standard	PCI Express 2.0
Video Memory	GDDR5 1536MB
Engine Clock	782 MHz
Memory Clock	4000 MHz (950 MHz GDDR5)
RAMDAC	400 MHz
Memory Interface	384-bit

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Block Diagram: Power Supply FBVDDQ-Controller EXT_2x4 EXT_2x6 Power Supply FBVDD/FBVDDQ PH1 Dual SLI Power Supply FBVDD/FBVDDQ PH2 mHDMI Power Supply MEM MEM NVVDD-PH3 Power Supply NVVDD-PH5 DVI-I\DP MEM MEM Е Power Supply Power Supply 5V Linear GF110 NVVDD-PH1 MEM MEM Power Supply NVVDD-PH2 Power Supply F Α PEX_VDD Power Supply NVVDD-PH4 Power Supply Power Supply NVVDD-PH6 NVVDD-Controller PEX_3V3_Finger PEX_12V_Finger

Power Sequence:

```
5V
        - Always On
3V3
        - Always On
12V_F
         - Always On
12V_PEX6

    Always On

12V_PEX8
           - Always On
FBVDD/FBVDDQ
                              NVVDD_PGOOD
PEX_VDD
2V5
          -Input_Pex_Power_Rail_Enable
NVVDD
                            + Thermal_Shutdown
```

