[Faulty model]: ipad Air

[Fault phenomenon]: boot does not display

After the customer replaces the NAND, the boot does not display.



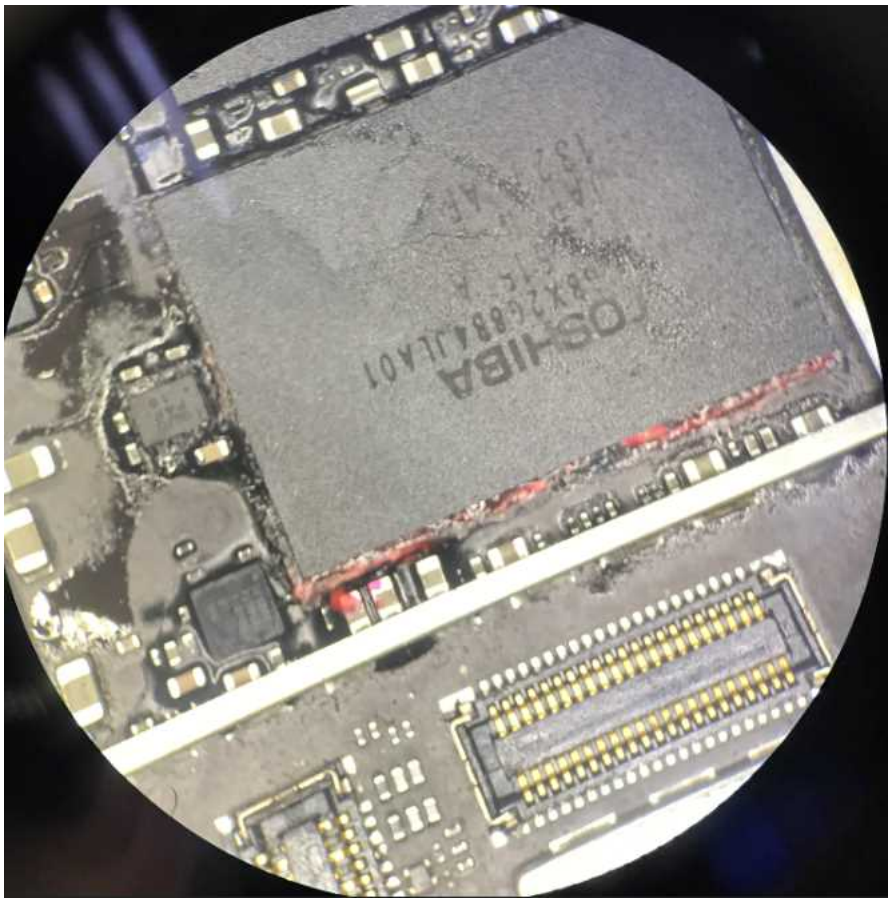
[Fault Analysis]:

It is normal before the NAND is replaced. After the NAND is replaced, the boot that does not appear is not displayed.The focus is on inspecting the components around the NAND because it is a malfunction after the NAND has been moved.

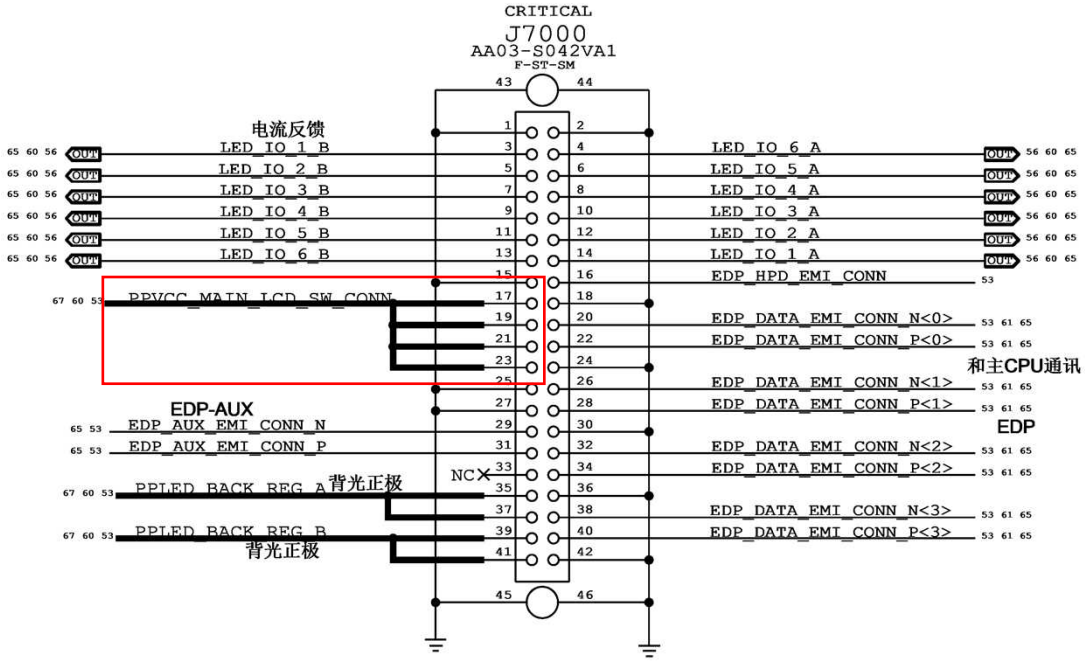
[Maintenance process]:

Remove the boot, take off the motherboard, and observe under the microscope

to see if there is anything unusual.Observe nothing after seeing it again, connect the Adjustable Power supply, turn it on, and the current into the system normally, the screen is not displayed.

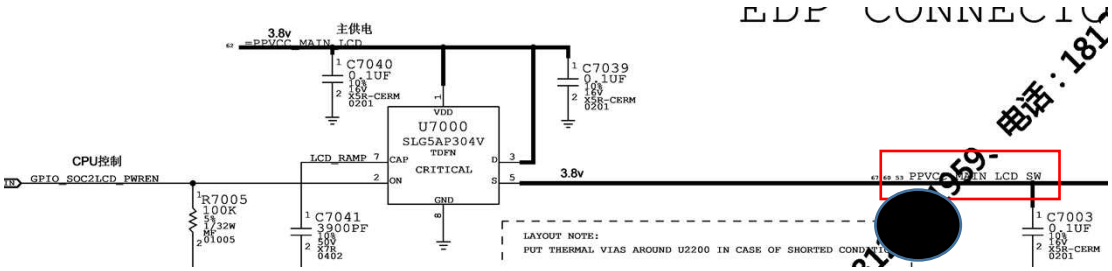


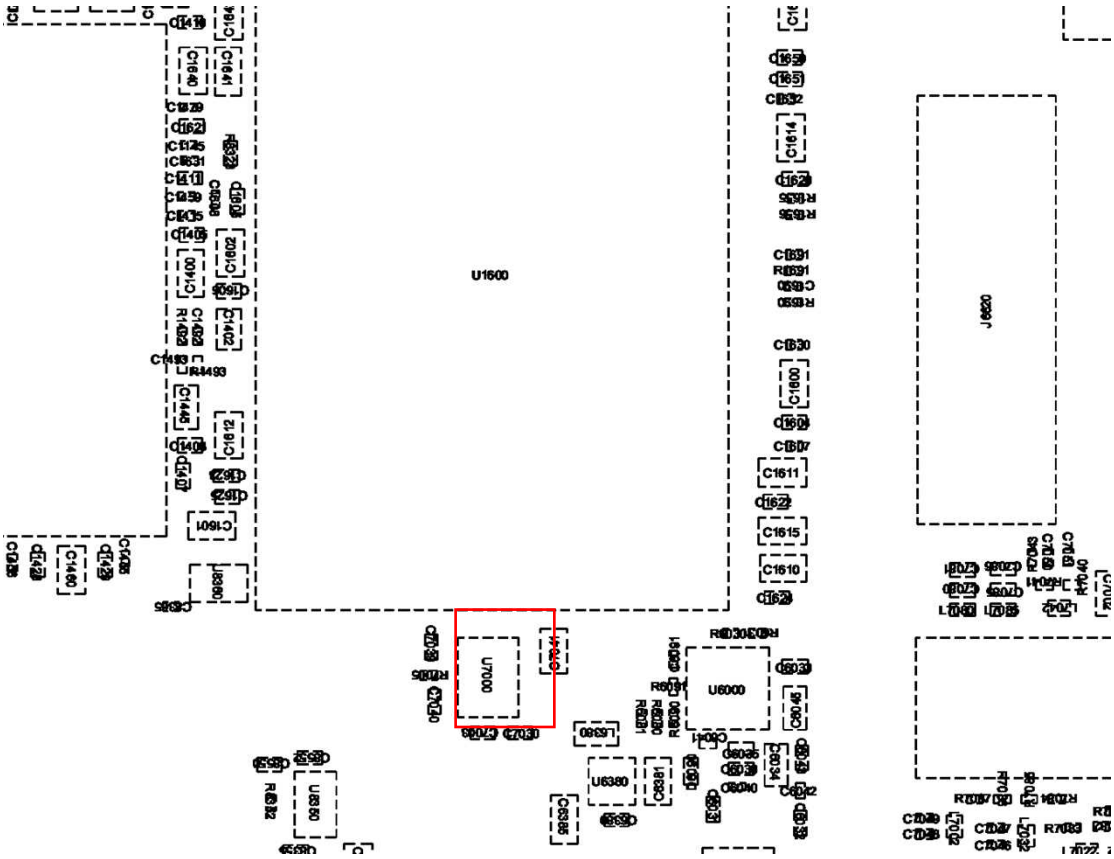
The screen is not displayed. The measurement shows that the connector J7000 has found that the PPVCC_MAIN_LCD_SW_CONN VCC of the 17th pin is shorted to ground.


CRITICAL
J7000
AA03-S042VA1
F-ST-SM
43
44
电流反馈
65 60 56 OUT LED_IO_1_B
65 60 56 OUT LED_IO_2_B
65 60 56 OUT LED_IO_3_B
65 60 56 OUT LED_IO_4_B
65 60 56 OUT LED_IO_5_B
65 60 56 OUT LED_IO_6_B
67 60 53 PPVCC_MAIN_LCD_SW_CONN
EDP-AUX
65 53 EDP_AUX_EMI_CONN_N
65 53 EDP_AUX_EMI_CONN_P
67 60 53 PPLED_BACK_REG_A
背光正极
67 60 53 PPLED_BACK_REG_B
背光正极
NC
1 2
3 4
5 6
7 8
9 10
11 12
13 14
15 16
17 18
19 20
21 22
23 24
25 26
27 28
29 30
31 32
33 34
35 36
37 38
39 40
41 42
45 46
LED_IO_6_A
LED_IO_5_A
LED_IO_4_A
LED_IO_3_A
LED_IO_2_A
LED_IO_1_A
EDP_HPD_EMI_CONN
EDP_DATA_EMI_CONN_N<0>
EDP_DATA_EMI_CONN_P<0>
EDP_DATA_EMI_CONN_N<1>
EDP_DATA_EMI_CONN_P<1>
EDP_DATA_EMI_CONN_N<2>
EDP_DATA_EMI_CONN_P<2>
EDP_DATA_EMI_CONN_N<3>
EDP_DATA_EMI_CONN_P<3>
56 60 65 OUT
53
53 61 65
和主CPU通讯
EDP

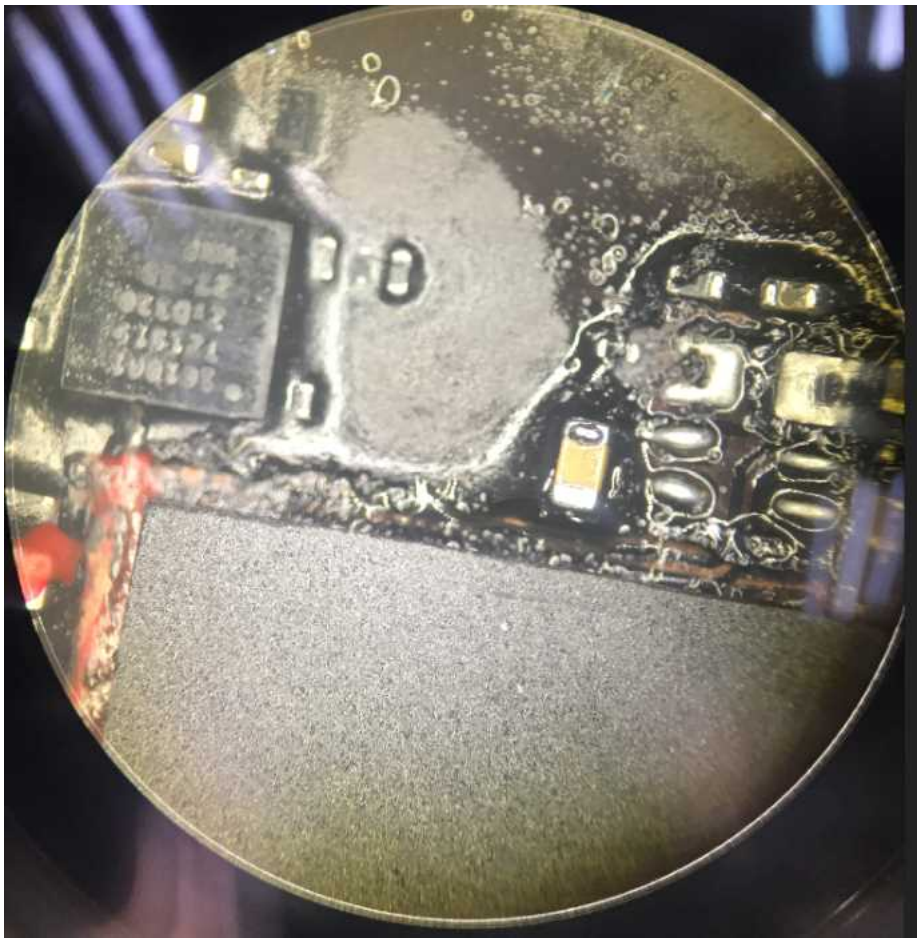


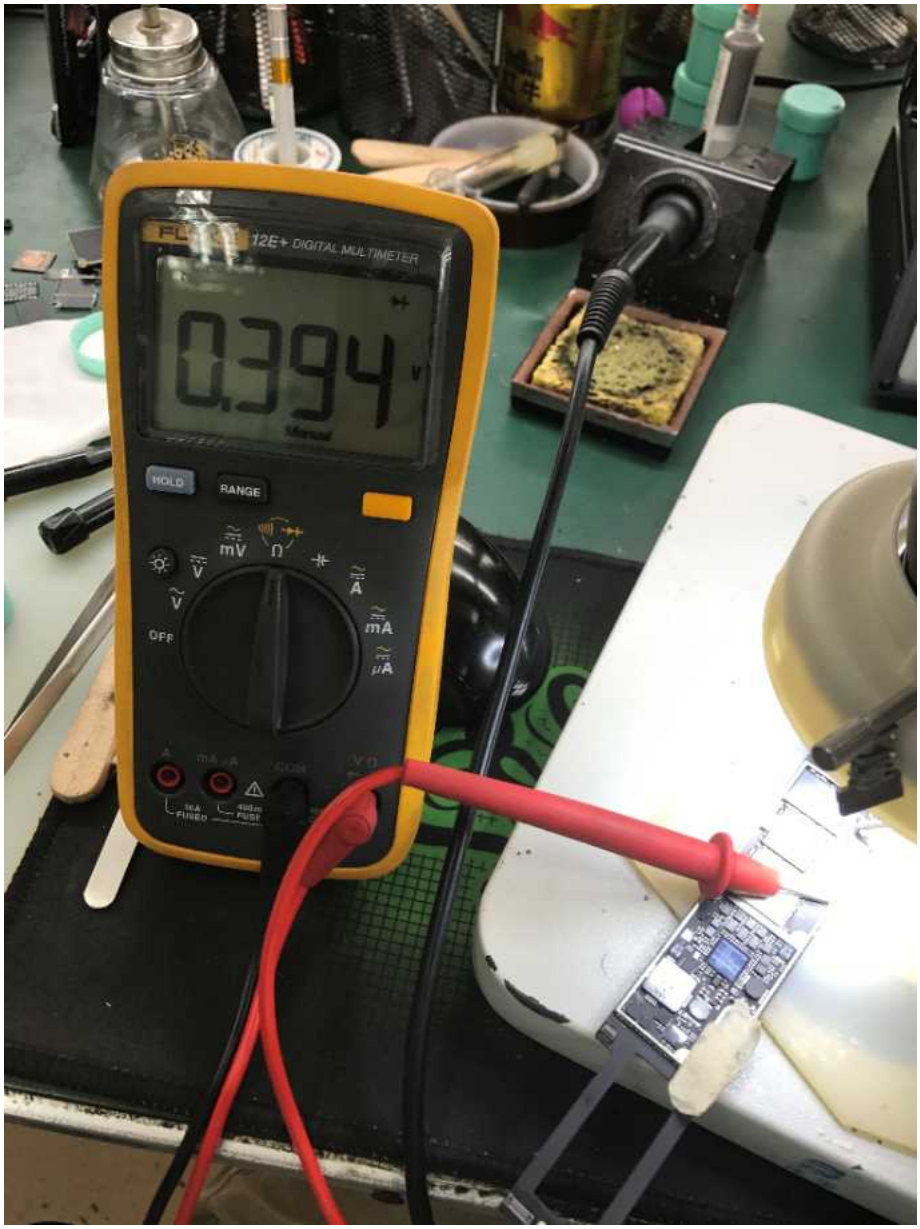
This voltage is queried for the U7000VCC chip.





Remove the U7000 chip, PPVCC_MAIN_LCD_SW_CONN VCC to the ground diode value returned to normal.

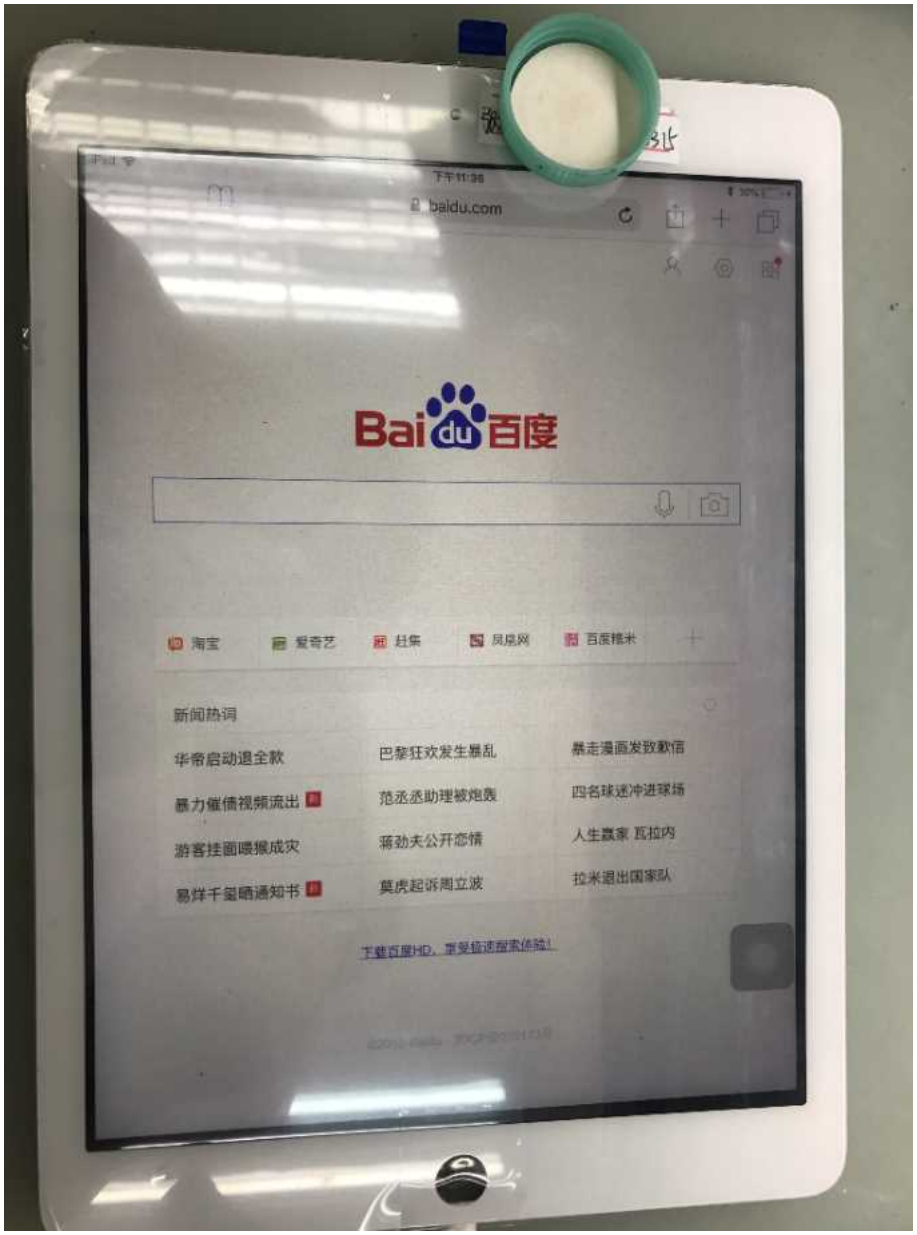




Replace the u7000 chip and solder it back to the motherboard.

[Maintenance results]:

Installed test, the display is back to normal, the function is normal, and the repair is over.This failure is caused by the u7000 problem and the boot is not displayed.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暴力催债视频流出
范丞丞助理被炮轰
四名球迷冲进球场
游客挂画喂猴成灾
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