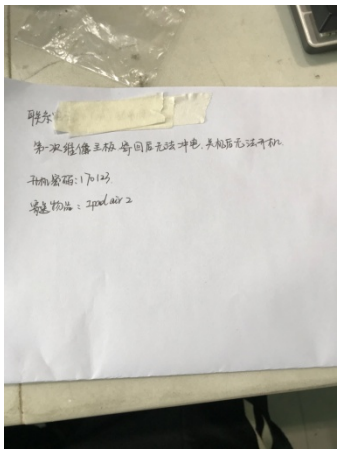
Ipad Air2 boot red screen repair

[Faulty model] ipad Air2 16g

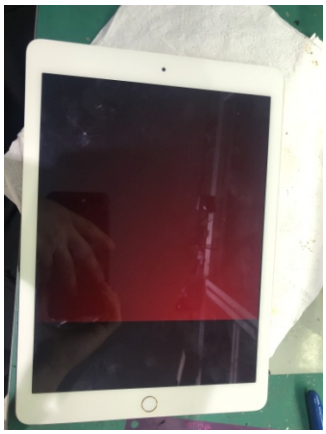
[Fault phenomenon] The customer described that after receiving the local repair, it could not be charged, and then it could not be turned on after the shutdown.



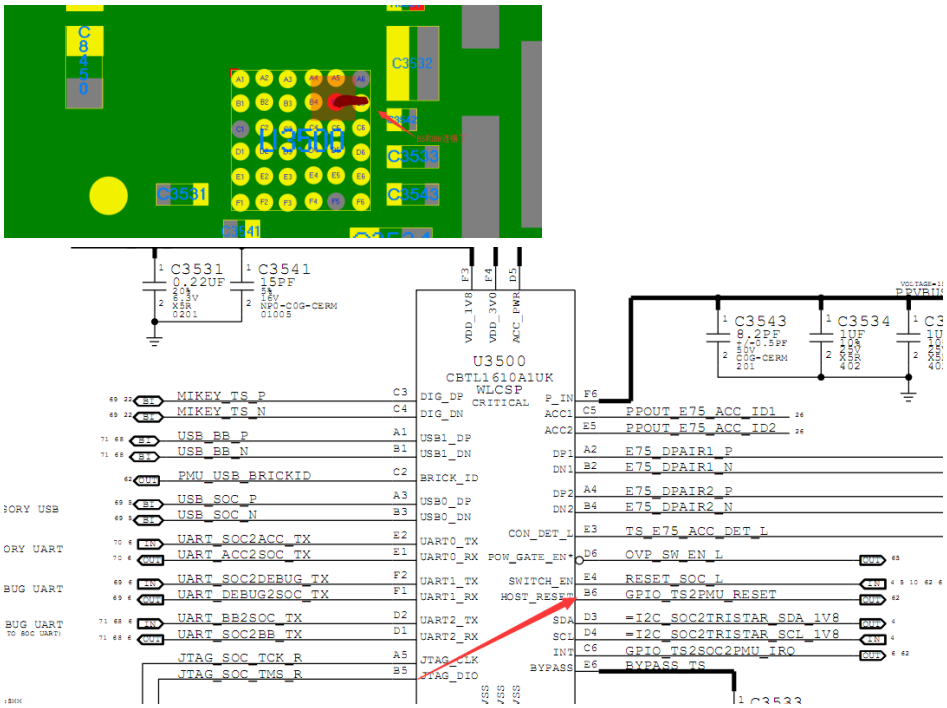
[Fault Analysis] This situation may be Void welding or Solder joints linked when it is being repaired by peers.

[Maintenance process]

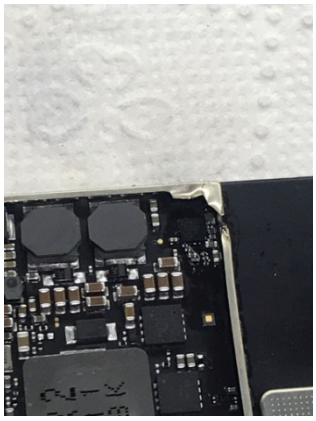
First check the external distribution problem, take the ipad motherboard off the board to trigger the boot to see if the current is normal, when the current is up to 500mA, the current will fall and restart.The screen triggers to see if it is really a restart failure.After the trigger, I found that the ipad's screen began to turn red and restarted.



Ignore it and see where the peers have been.The board was removed and found that the motherboard charging connector and USB chip have been replaced, because the iphone5 mobile phone has many USB chips that affect the boot and then turn on the red screen. Now guessing is the fault caused by the USB chip being damaged or not being soldered.Air gun heating removes the USB chip and observes under the microscope whether there is power loss or Solder joints linked.Found B5 (JTAG_SOC_TMS_R) and B6 (GPIO_TS2PMU_RESET) Solder joints linked of USB chip.



Disconnect the Solder joints linked and handle the solder pad.In order to find a new USB management chip in case, install the test.



[Maintenance result] Start the test, enter the system normally, and the fault is completed.



(The total text is not less than 500 words in total)

