iPad Air2No Power ON repair

[Faulty model] (iPad Air2)

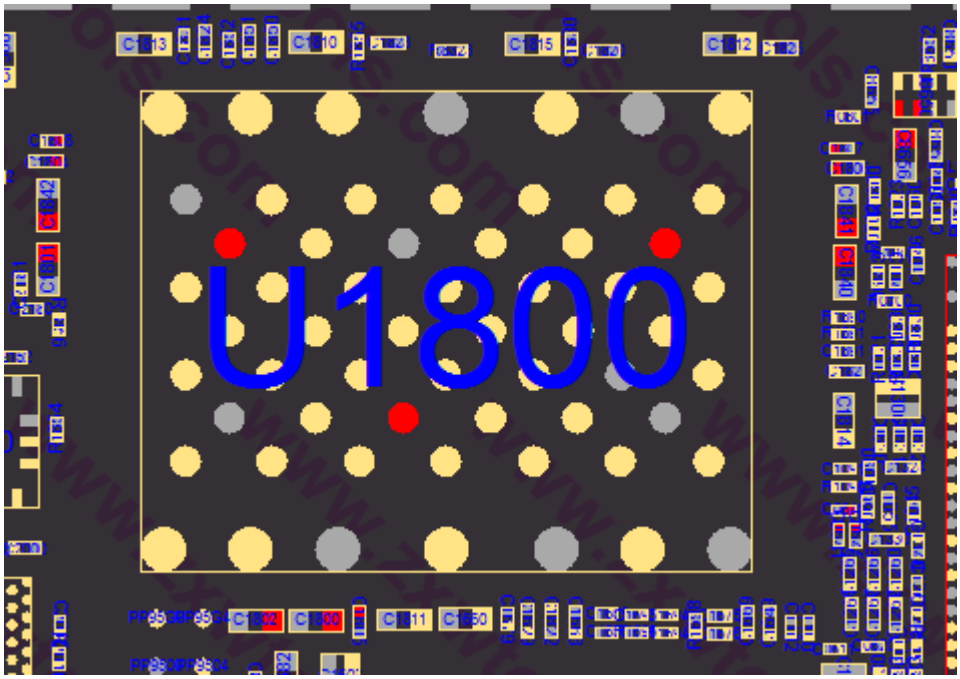
[Fault phenomenon] No Power ON, no response to charging.

[Fault Analysis]

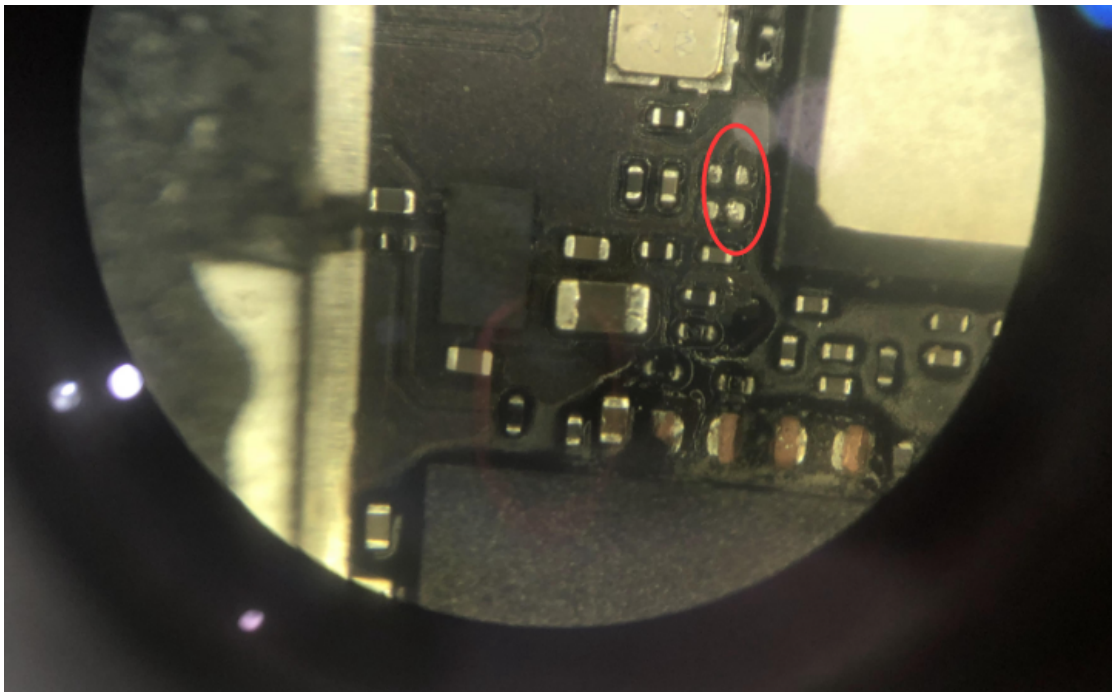
No Power ON failure Most VCC is not normally caused, directly disassemble, use Adjustable Power supply to power on, see current change

[Maintenance process]

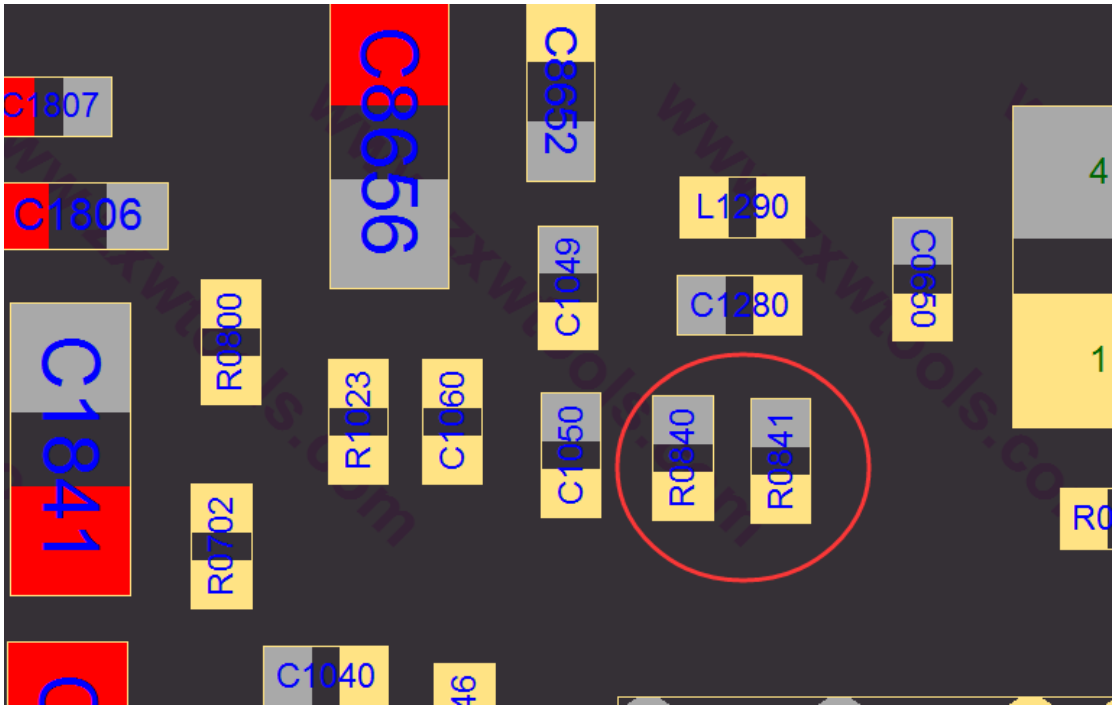
It is easier to disassemble the machine, which was previously removed.My heart is a bit cold.After completely dismantling, I found that the motherboard is already like the battlefield.A lot of originals were deducted by the peers.Connected to the Adjustable Power supply trigger, the current trigger jumps directly to 700. According to experience, it is likely that the 3.3V of the NAND is not normal.Direct Test Diode Value(Multimeter uses diode gear, red pen connect GND, black measurement test point) NAND 3.3Vdiode value, and the short circuit is 0.



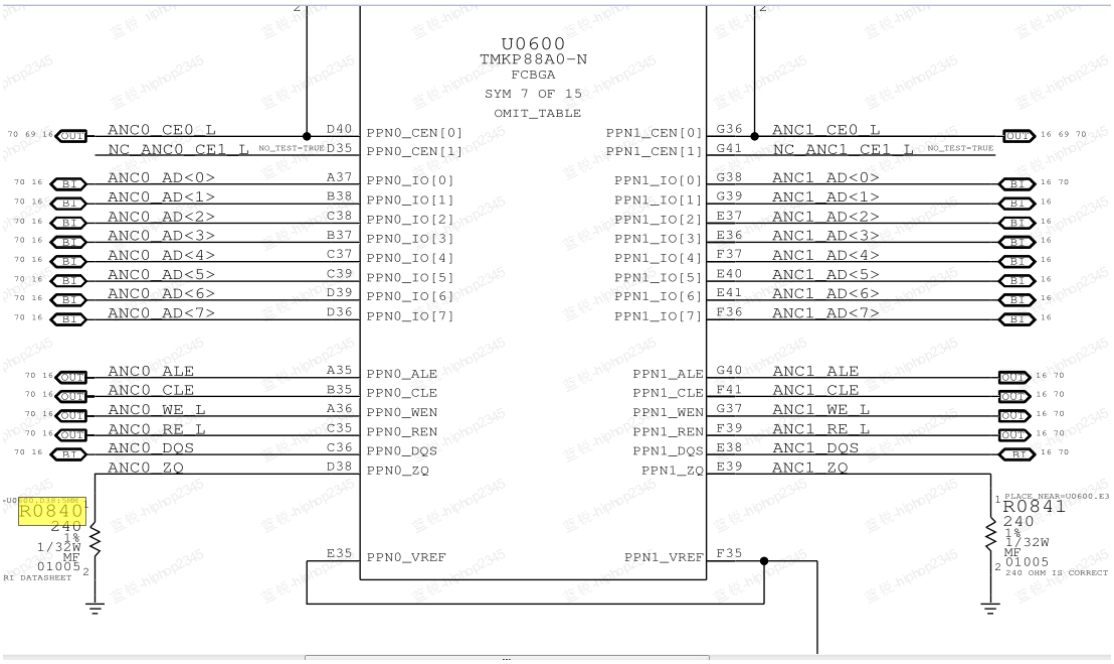
Finding a short circuit is easy, not complicated, just a few originals, smoked on Colophony (Solder), Adjustable Power supply 3V connected to the VCC, directly burned short-circuit capacitors.As a result, a small current is triggered and still cannot be turned on.Online DFU mode.We know that most of the DFU modes are NAND faults. Is the 3.3V short circuit burning the NAND? Or can't be too decisive, carefully observe the motherboard, and deducted countless things from the peers, first check them one by one.



The two originals in the figure may not be filter capacitors.Many of the peers believe that as long as one end is grounded, the diode value has a filter capacitor on one end.In fact, it is not, even if the filter capacitor is not all, you can not.



As can be seen in the Boardview, the two that are deducted are pull-down resistors.



As you can see in the schematic, these two resistors are the pull-down resistors of the NAND.Remove the pull-down resistor of the same specification directly on the motherboard of iPhone6.

[Maintenance results]



It is turned on normally after installation.Test all functions are normal.Repair is complete.