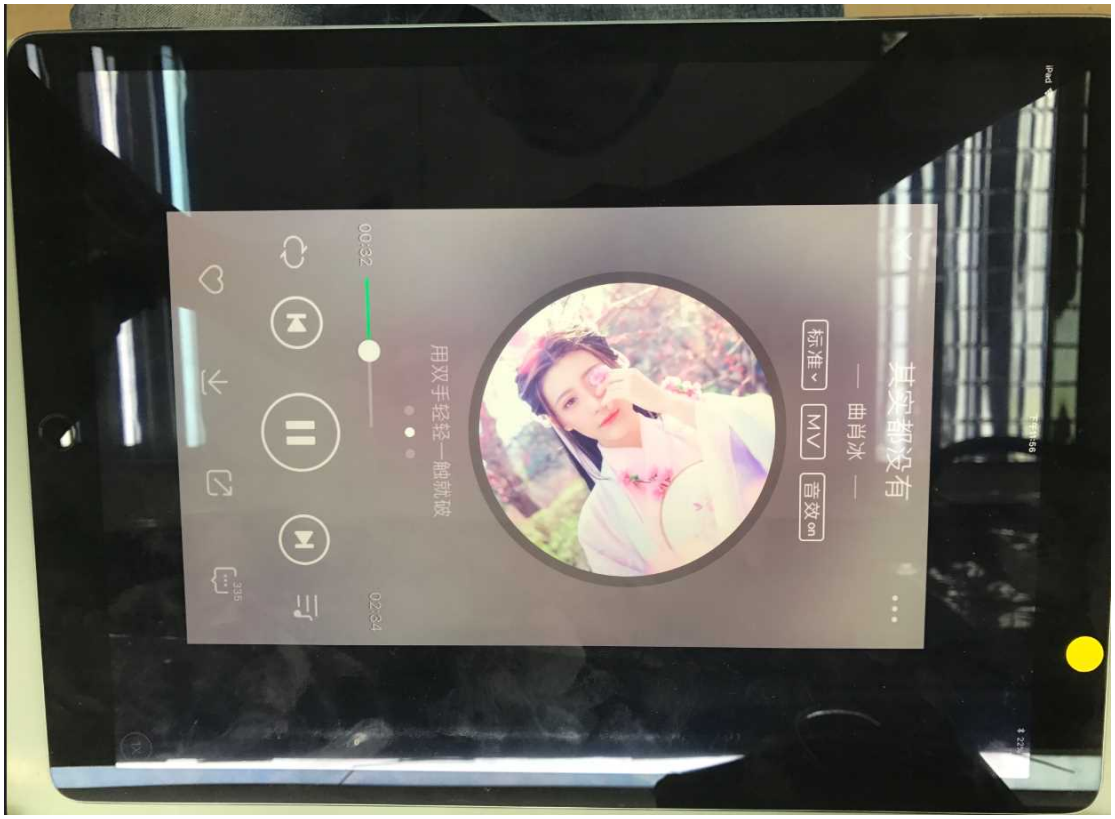
[Faulty model]: ipad pro 12.9 inch

[Fault phenomenon]: Electricity consumption too fast, the speaker in the lower right corner does not ring

The tablet consumes a lot of power, and the speaker in the lower right corner does not ring, no sound.



[Fault Analysis]:

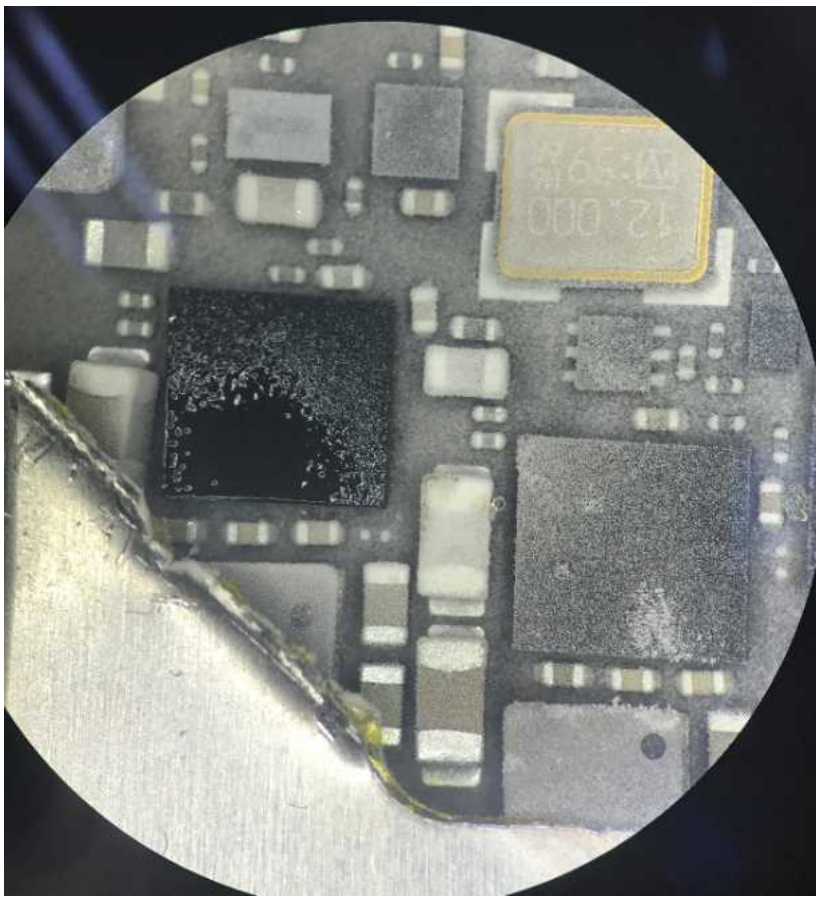
Machine Electricity consumption too fast, you can test the function, see which function is not normal, it is likely that it is caused.The speaker does not ring, first eliminate the speaker problem, and then measure the working conditions.

[Maintenance process]:

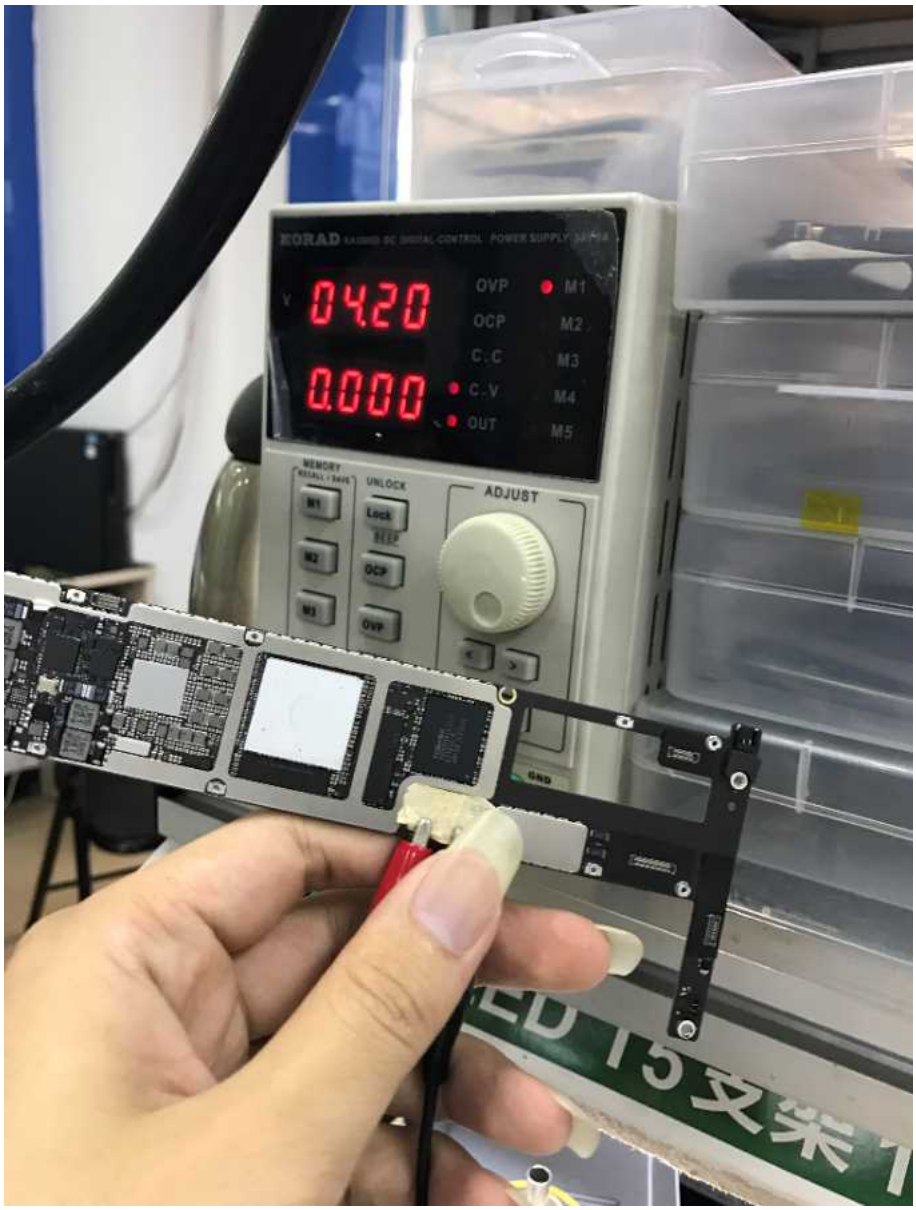
In the test, the speaker in the lower right corner does not ring, the other three are ringing, remove the boot, take the motherboard, connect the Adjustable Power supply, and find the leakage of electricity(battery abnormal consumption) 584 mAh.



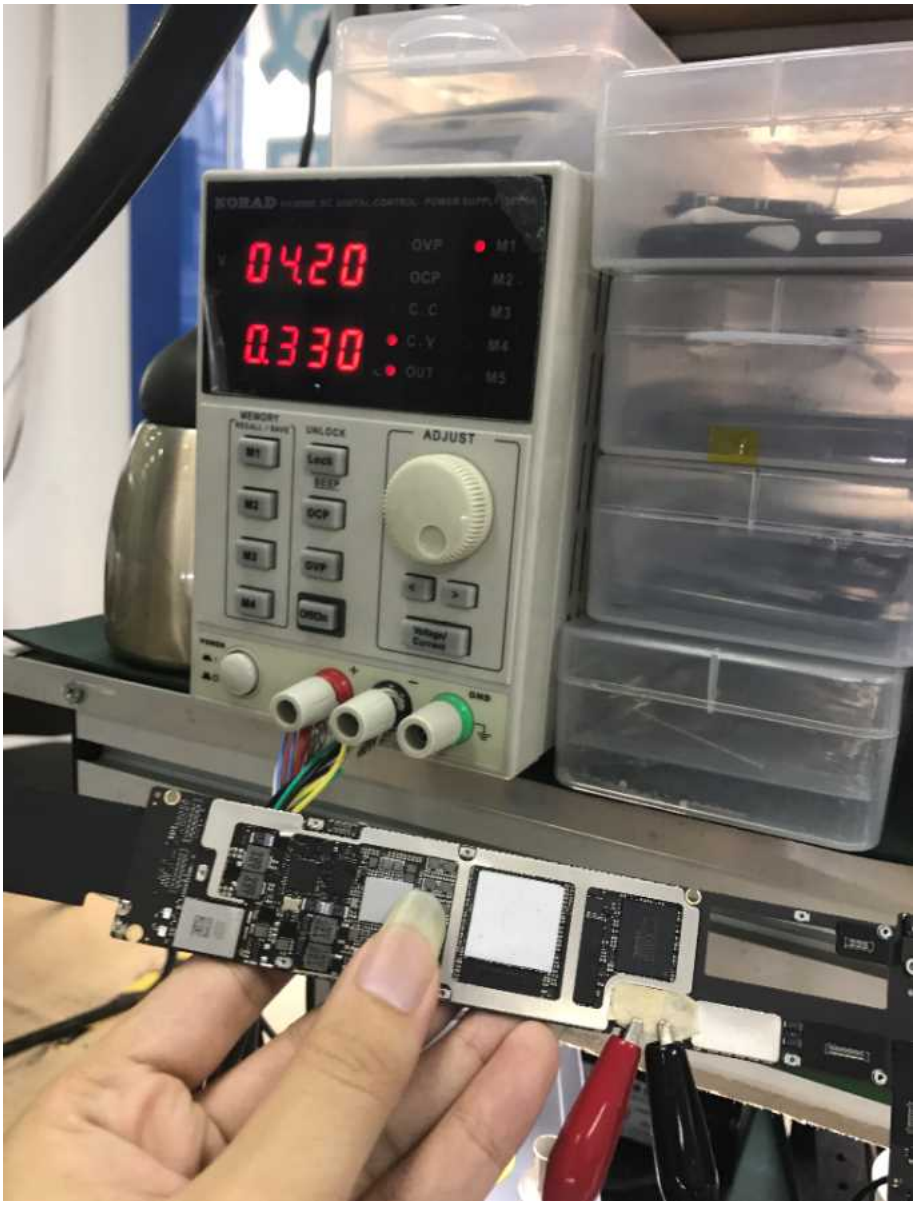
Power on the leakage of electricity(battery abnormal consumption), you can smoke Colophony (Solder) to see where it is shorted.The inspection found that the codec Amplifier was short-circuited, and the Colophony (Solder) melted quickly.



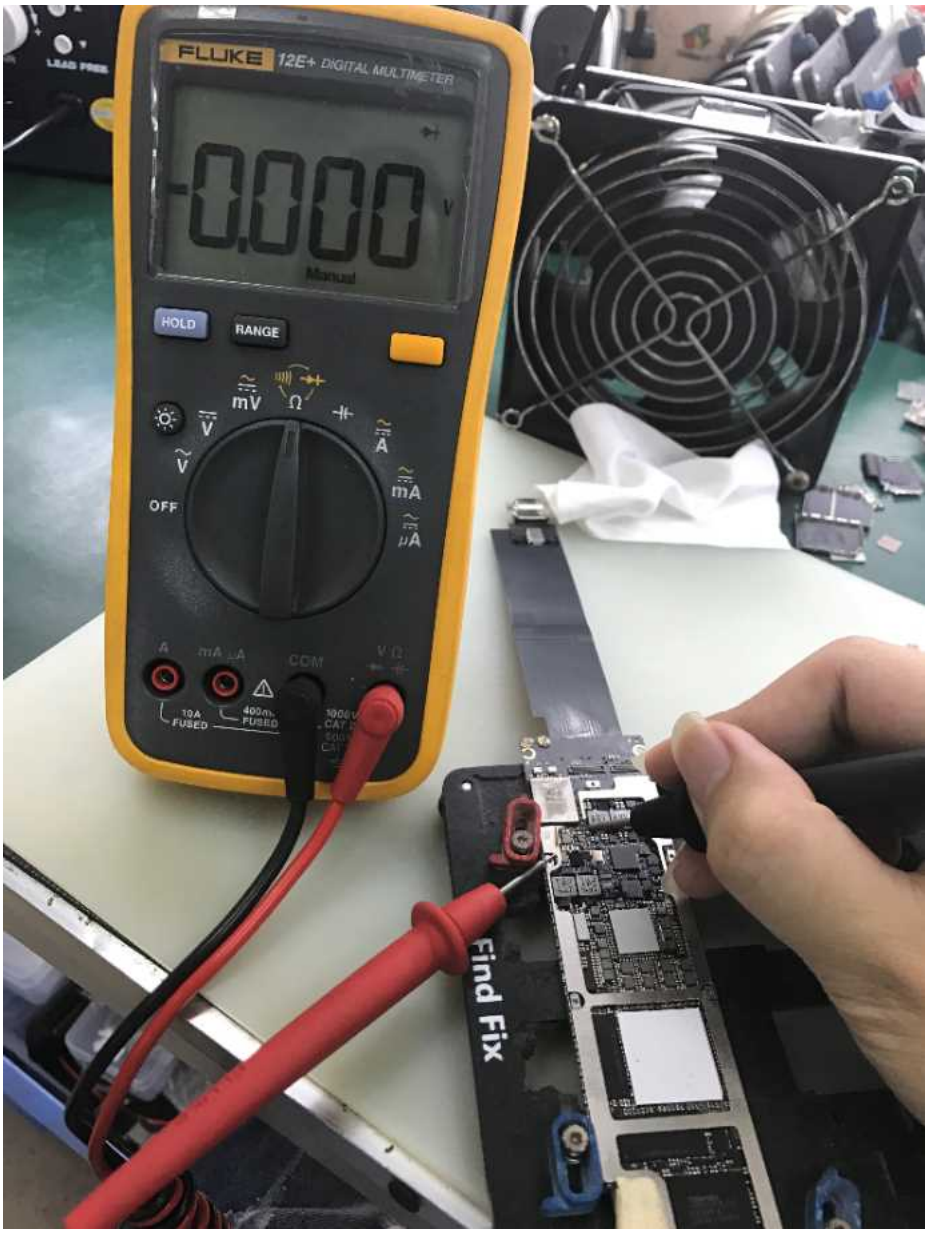
Remove the codec Amplifier chip and connect it to the leakage of electricity(battery abnormal consumption).



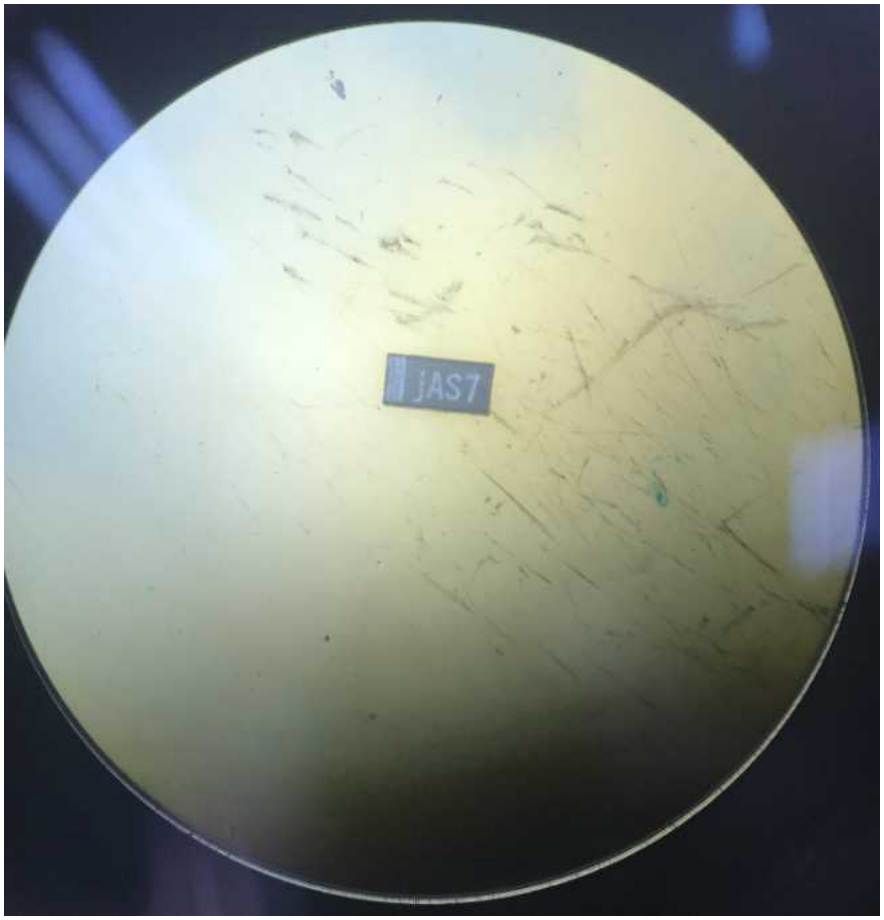
Replenish the codec Amplifier chip, and the leakage of electricity(battery abnormal consumption) is also connected. It seems that there is a short circuit afterwards.



The measurement found that the booster circuit of the rear pole was shorted to ground.



Remove the capacitor on this boost line and find that a tantalum capacitor is shorted.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[Maintenance results]:

Replenish the capacitor, install the test, power consumption repair, the sound of the right lower horn is normal, the repair is over, this fault is caused by the short circuit of the capacitor of the codec Amplifier chip boost line.


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