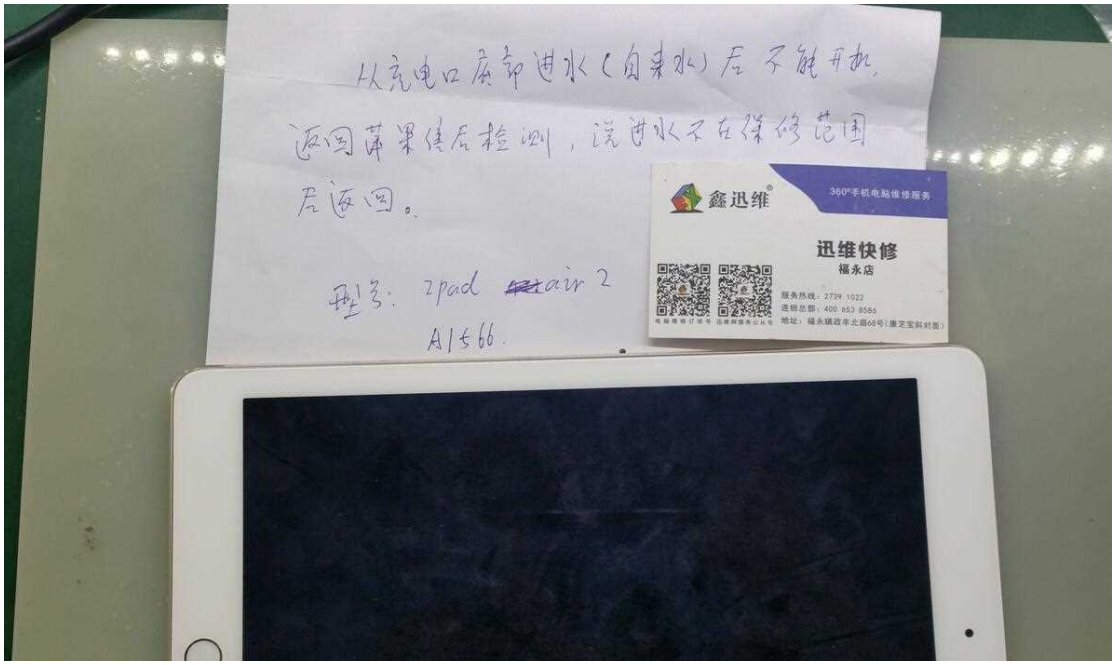
IPAD AIR2 Inlet Water No Power ON

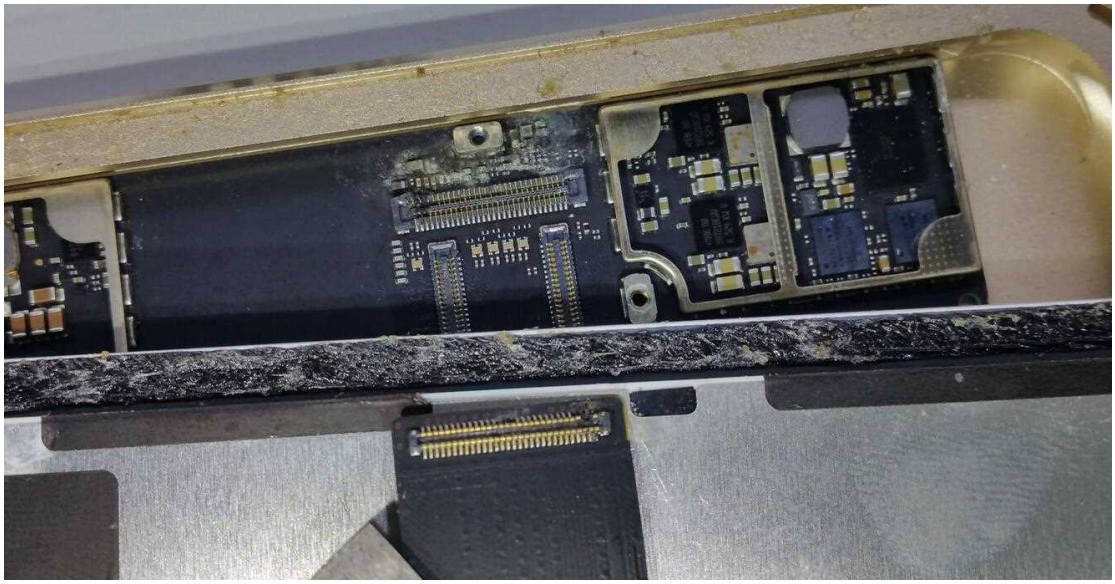
[Fault phenomenon]

The customer described that the ipad charging port could not be turned on after entering the water, and the Apple refused to protect after sale.

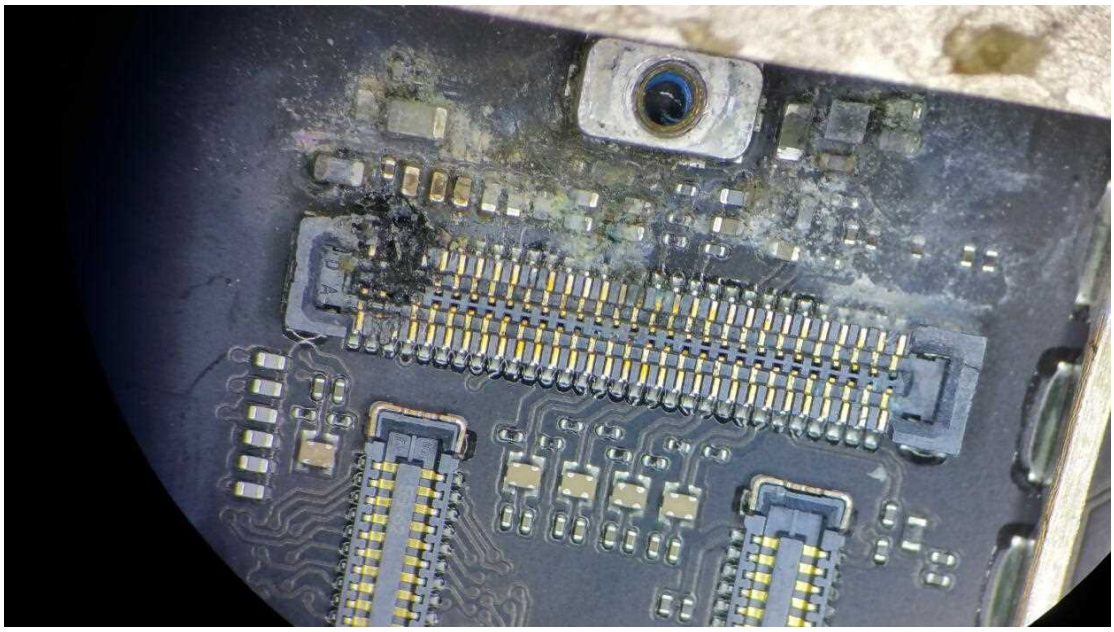



[Maintenance process]

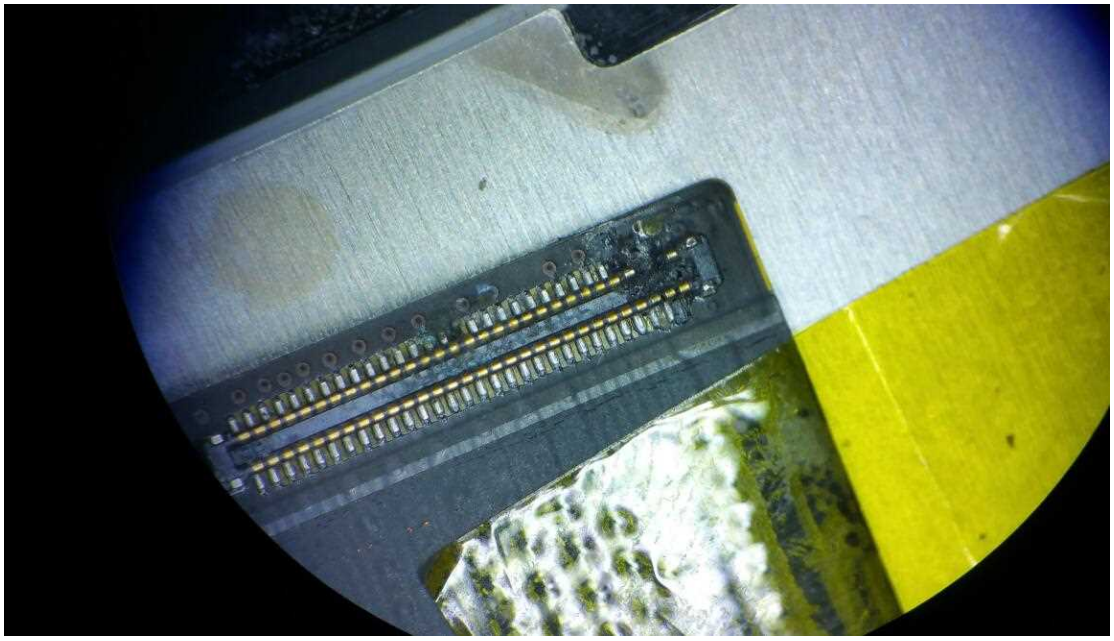
After the disassemble, the screen interface was found to be burnt.



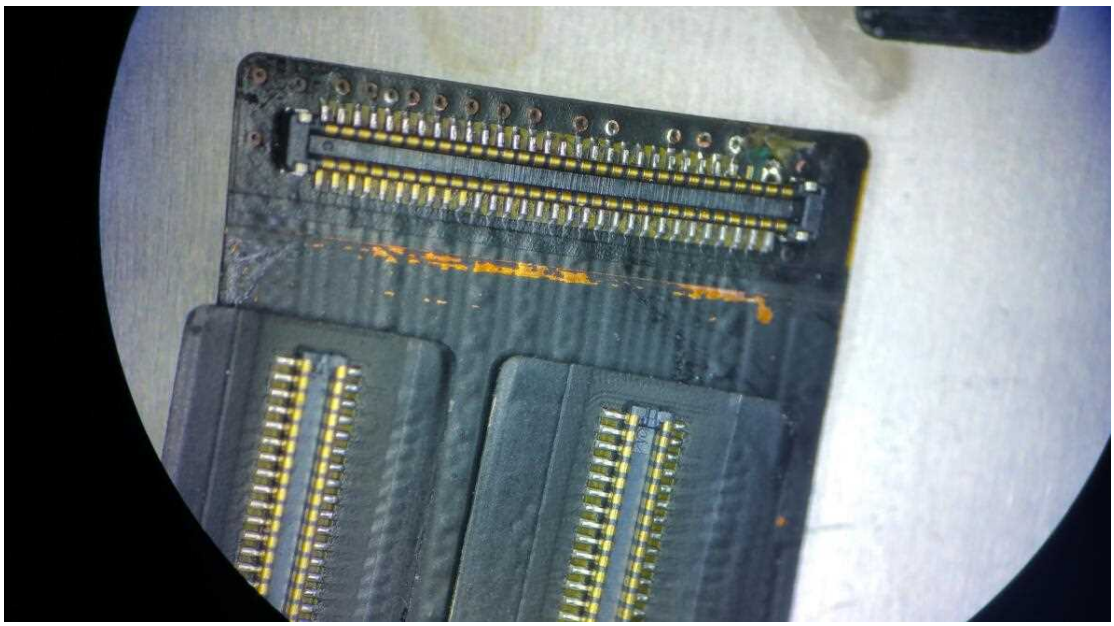
The motherboard screen interface is burnt and has serious signs of water ingress.



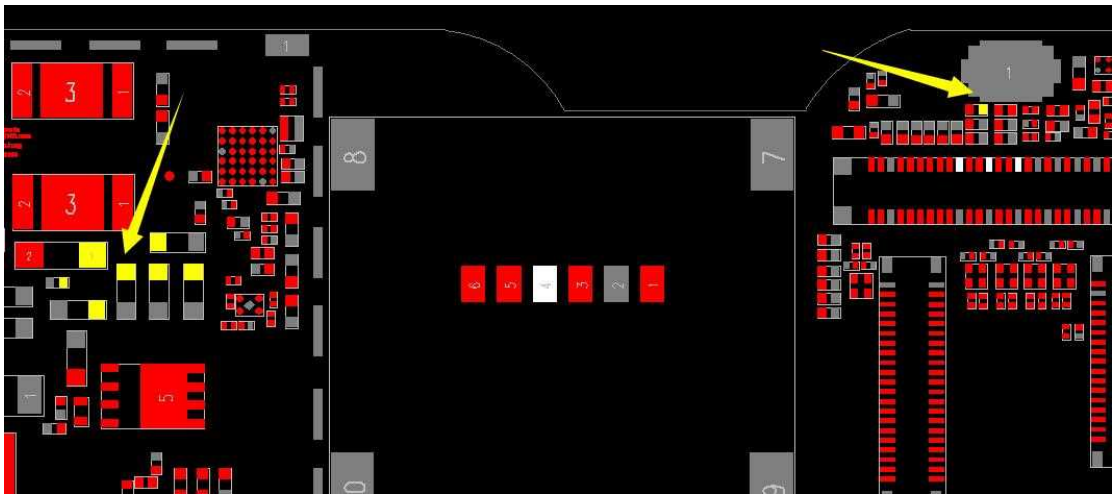
The screen line interface has also been burned out.



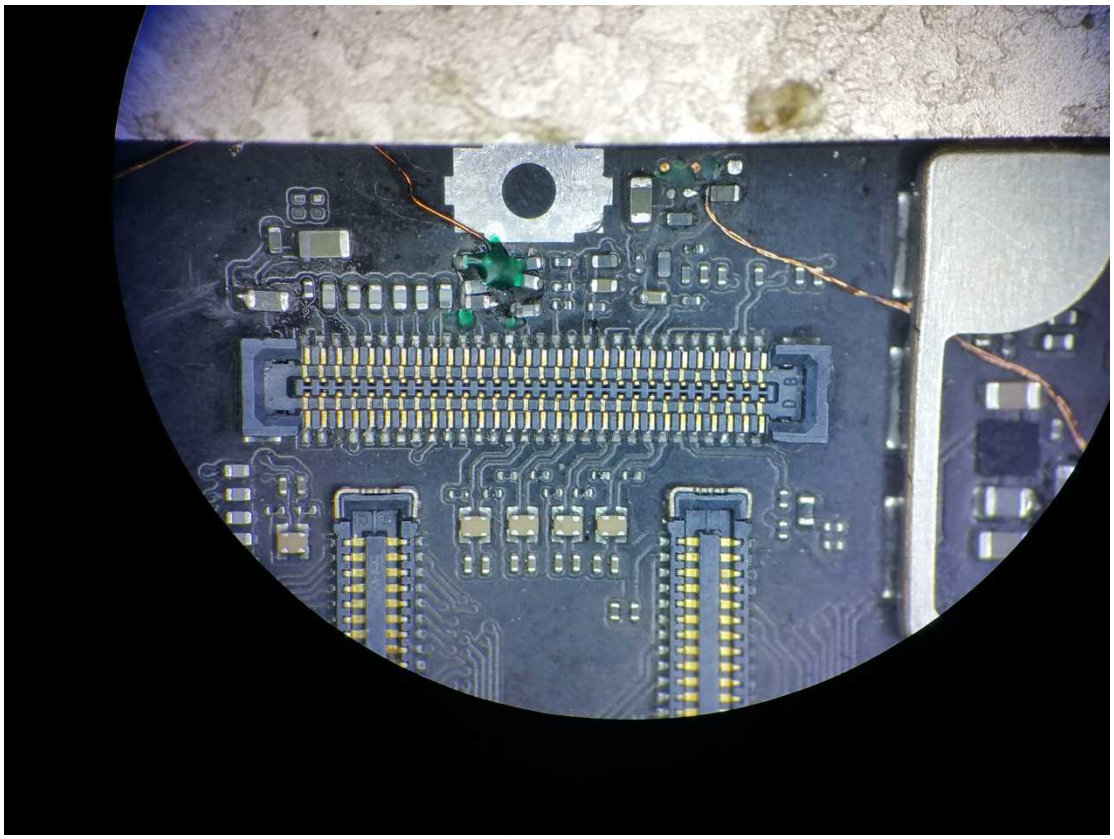
After the screen interface is cleaned, replace the new screen line plug and the test screen is normal.



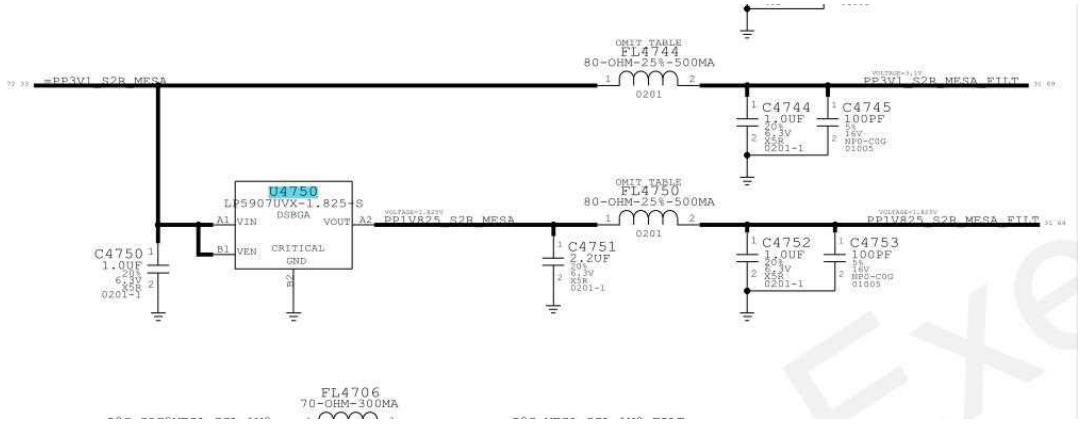
There is no problem with the screen to start repairing the motherboard. After the motherboard is cleaned, a lot of components have been lost. Several solder pad s have also been burned out. After the patch is repaired, the PPLED_BACK_REG_A is found to be worthless.PPLED_BACK_REG_A is connected to D8428 after Inductor.



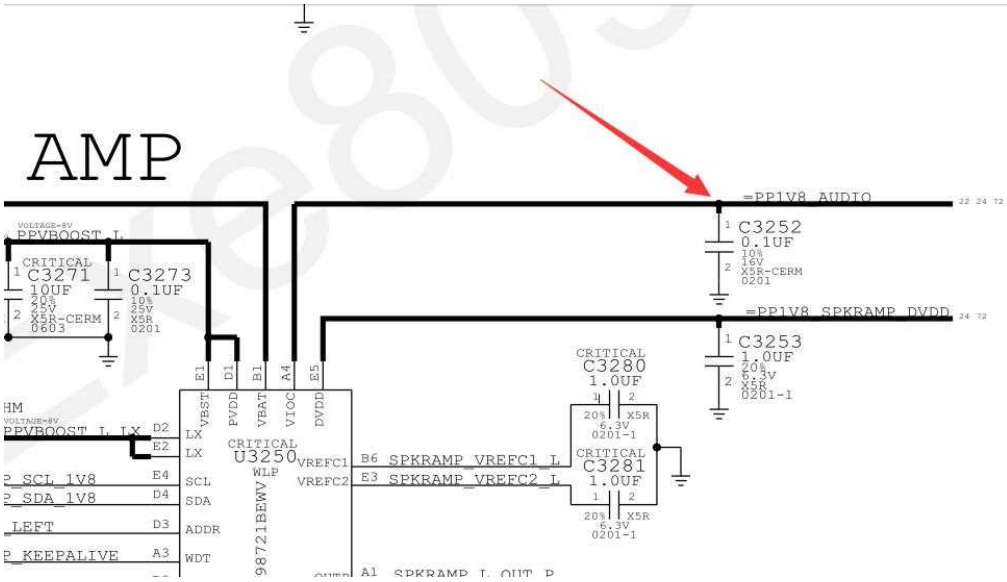
Fly straight from d8428.



After the screen line interface circuit is processed, the next step is to process another. The map shows that the U4750 has also been moldy damaged, and the solder pad has fallen off and cannot be soldered.The U4750 is a 1.825VVCC that is converted to the fingerprint on the screen.

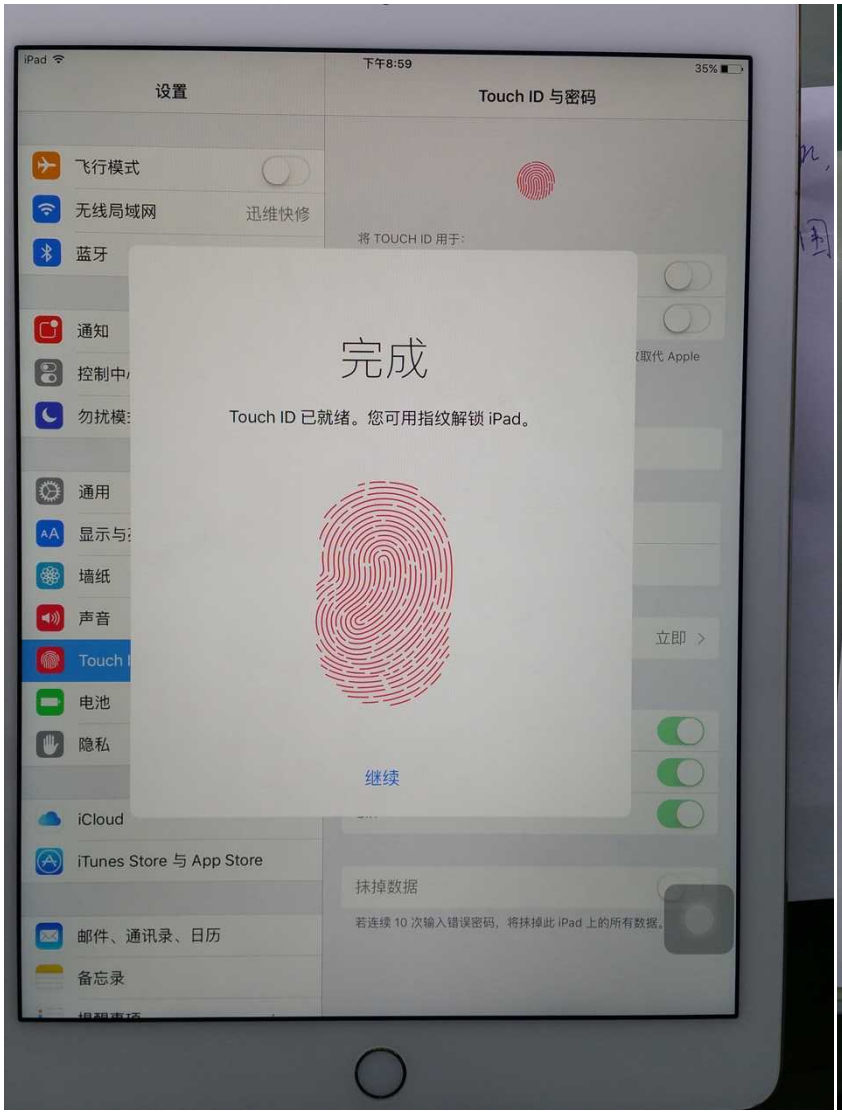



Since it is impossible to solder the chip, I only have to find a way to borrow a 1.8VVCC from elsewhere.Chatu found that the nearest 1.8V is the PP1V8_AUDIO of the U3250codec IC. From the near distance, a line from the C3252 flew to the FL4750.




After processing, the screen is turned on and the test is normal, and the fingerprint is used normally.




iPad
下午8:59
35%
设置
Touch ID 与密码
飞行模式
无线局域网
迅维快修
蓝牙
通知
控制中心
勿扰模式
通用
显示与亮度
墙纸
声音
Touch ID
电池
隐私
iCloud
iTunes Store 与 App Store
邮件、通讯录、日历
备忘录
将 TOUCH ID 用于:
取代 Apple
立即
抹掉数据
若连续 10 次输入错误密码，将抹掉此 iPad 上的所有数据。
完成
Touch ID 已就绪。您可用指纹解锁 iPad。
继续


iPad
下午8:56
35%
设置
Touch ID 与密码
飞行模式
无线局域网
迅维快修
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通知
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Touch ID
电池
隐私
iCloud
iTunes Store 与 App Store
邮件、通讯录、日历
备忘录
将 TOUCH ID 用于:
取代 Apple
立即
抹掉数据
若连续 10 次输入错误密码，将抹掉此 iPad 上的所有数据。
取消
将手指放在主屏幕按钮上再移开，重复此步骤。