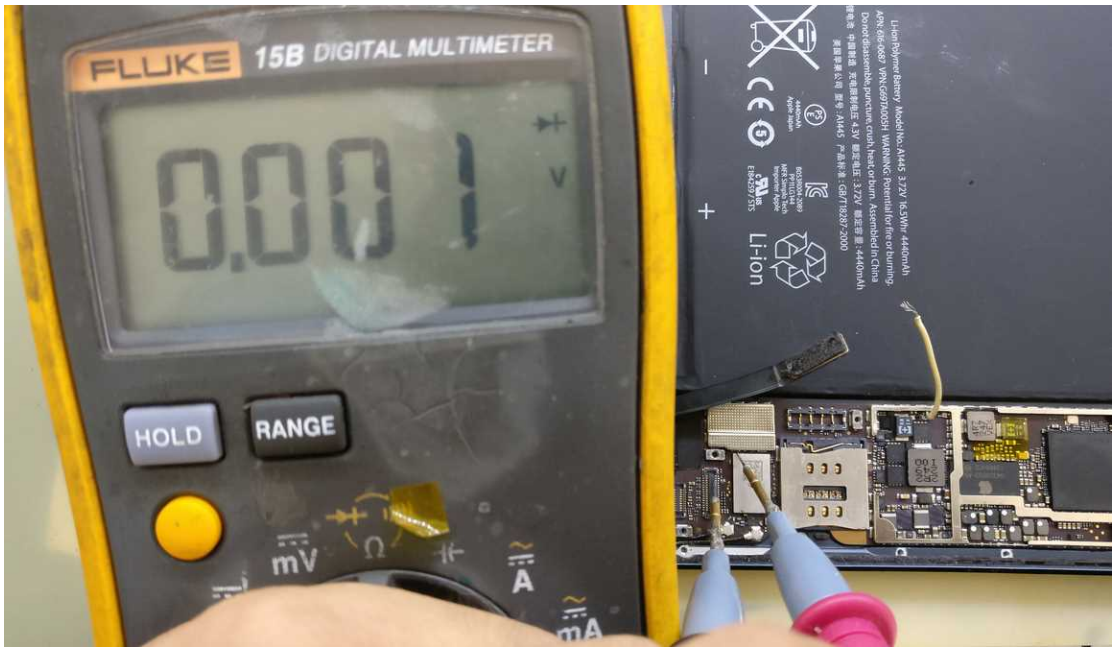
iPad mini does not display

[Fault phenomenon]

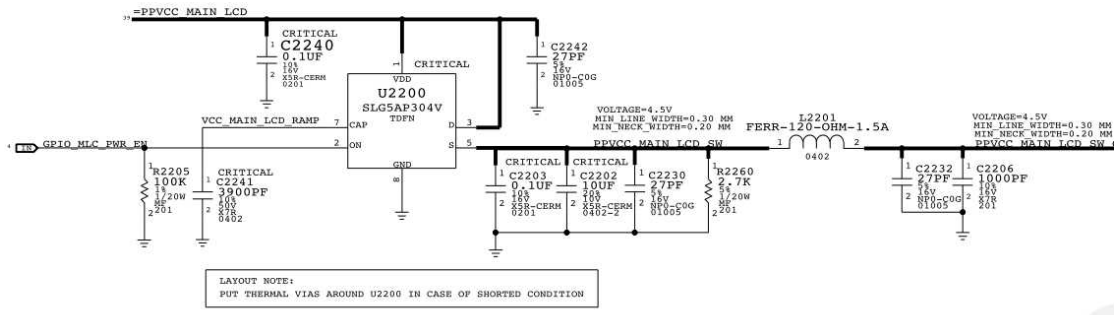
The customer description is not displayed when charging.Connect the regulated power supply to start the test, the starting current is normal into the system current, plug in the usb data line to detect the device.

[Maintenance process]

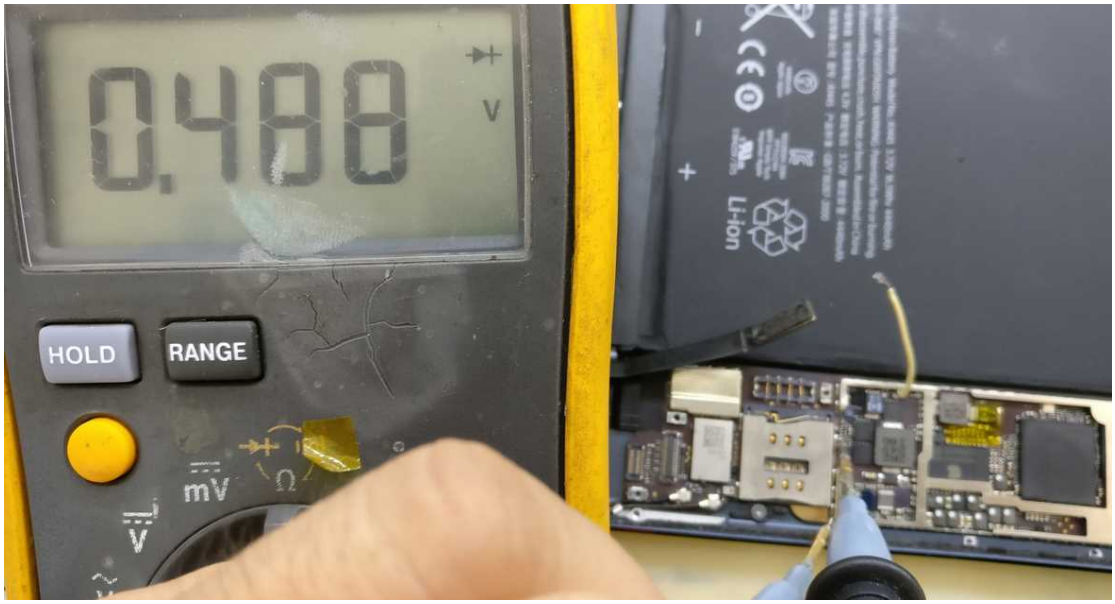
After determining the fault range, the display display connector diode value finds that PPVCC_MAIN_LCD_SW_CONN is shorted to ground.



Trace the ppvcc_main_lcd_sw_conn generation circuit as shown below:



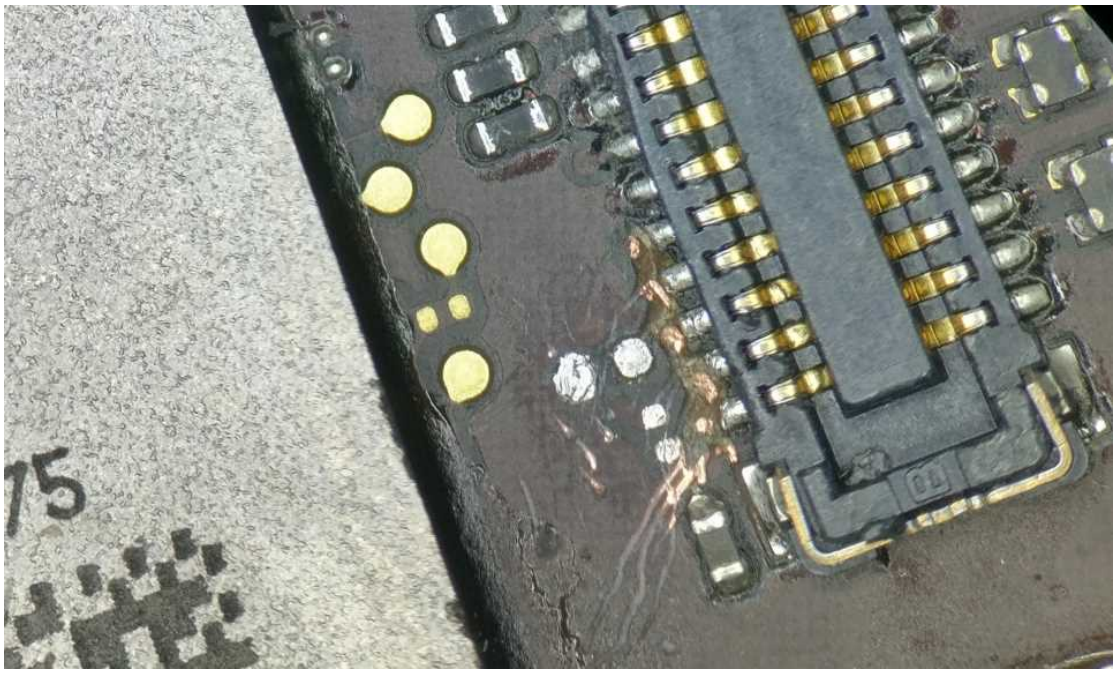
The u2200 output 5 pin diode value ppvcc_main_lcd_sw is not shorted.



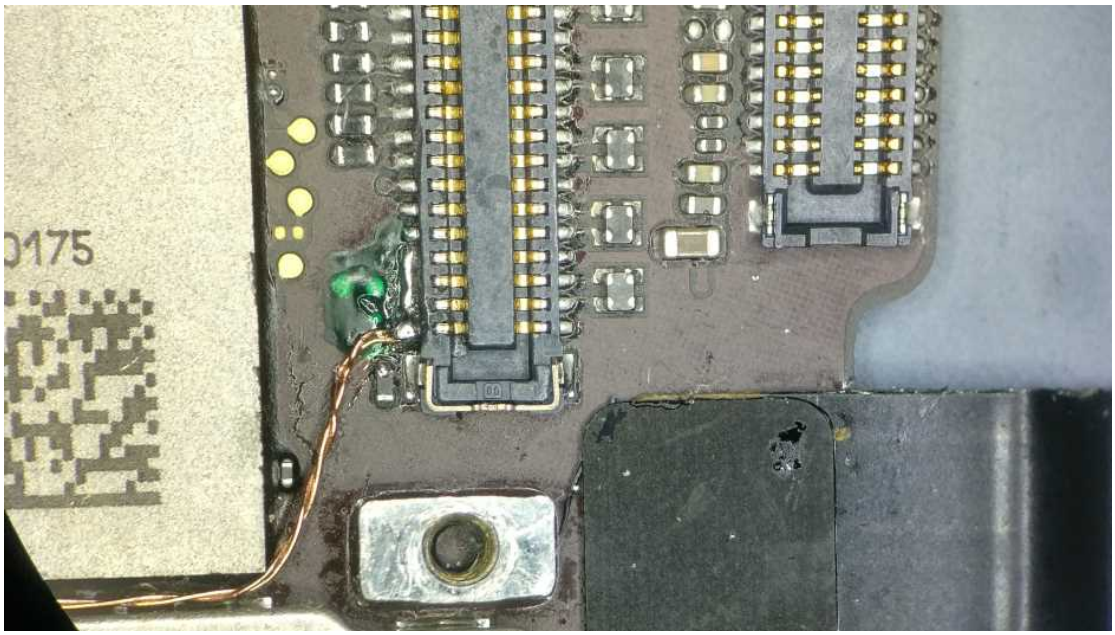
After removing the L2201Inductor, it was found that the PCB layer on the connector side of the display interface had burned out.

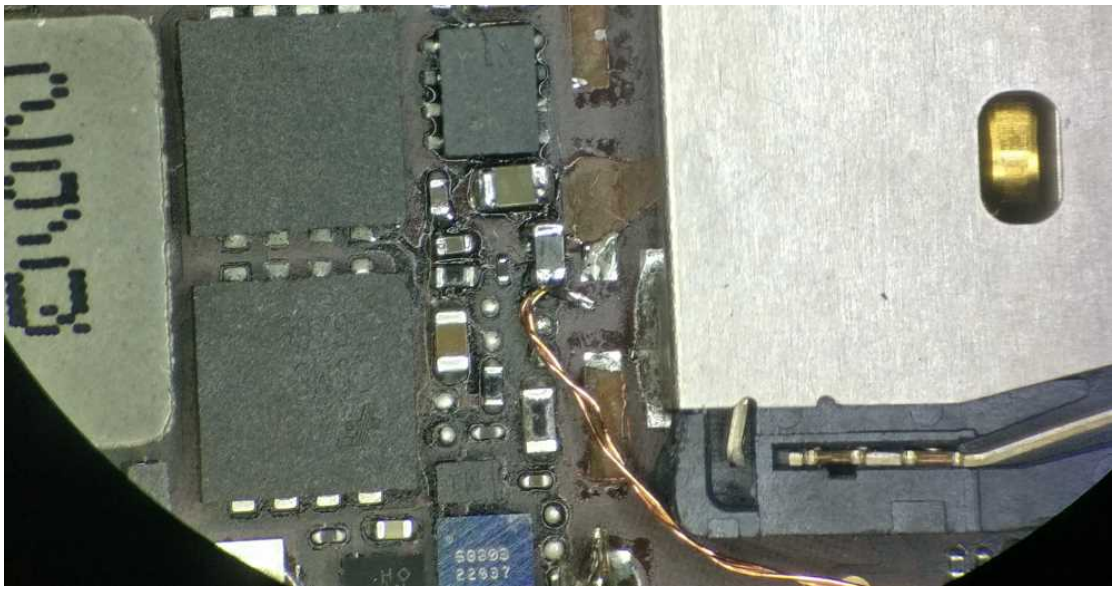


After unplugging the solder pad, the hole is still short-circuited. There is no way to cut off the connection line of PPVCC_MAIN_LCD_SW_CONN from the display connector.



After cutting the line, directly solder a Flying wire (connecting two solder joints with thin insulated wires) to the L2201Inductor.





After flying the line, the VCC is started normally, and the fault is repaired after the screen is connected.

