



How to Fix iPhone X Won't Turn On

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INTRODUCTION

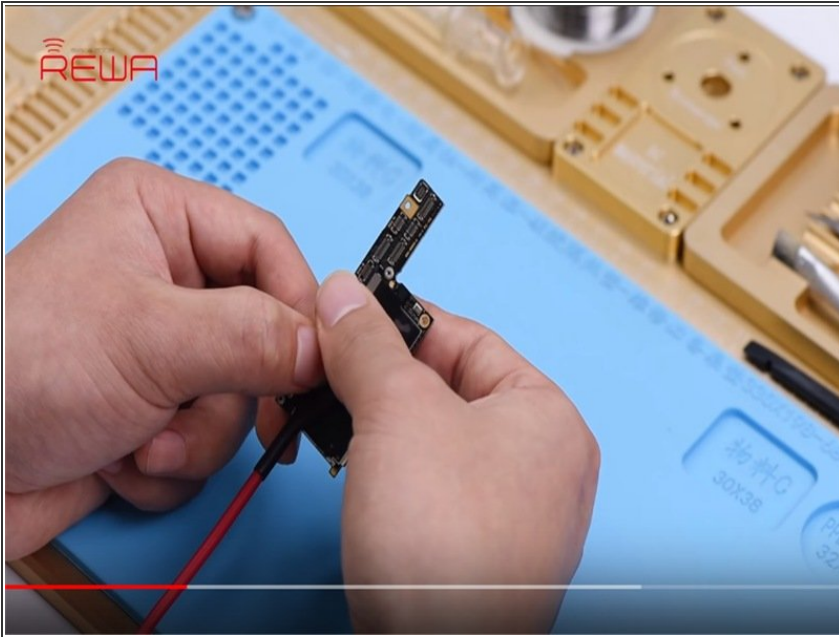
Rosin and the freeze spray are the two commonly used and low-cost methods for faulty components locating when repairing logic boards. Still, you can use the Thermal Imager instead for more efficient repair work if the two methods become time-consuming. Check our iPhone X repair guide today and you will be surprised at how the Thermal Imager is used in iPhone X won't turn on repair. Also, for repair technicians, it's important for you to understand [how iPhone X boot circuit works](#) before starting your repair work.



TOOLS:

- [Infrared Thermal Imager](#) (1)
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Step 1 — How to Fix iPhone X Won't Turn On



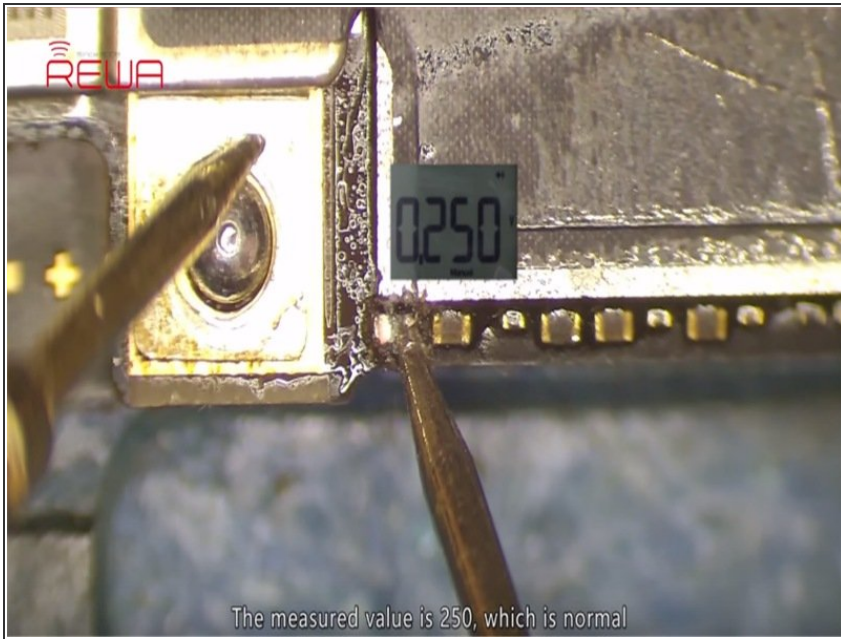
- Hold the power button to turn on the phone. The phone won't turn on.
- Take apart the phone and disconnect the battery. Remove the screen and take out the motherboard.
- Let's check the boot current first. The boot current is larger than normal value.
- Touch the motherboard with one hand. The NAND flash chip and the area surrounding it are hot.

Step 2



- Since there are so many components on the hot area, we can locate the faulty component with the help of the Thermal Imager.
- Put the motherboard under the Thermal Imager. Get the motherboard powered on. We can see clearly that C2647 is extremely hot. Judging by this, C2647 is probably damaged.

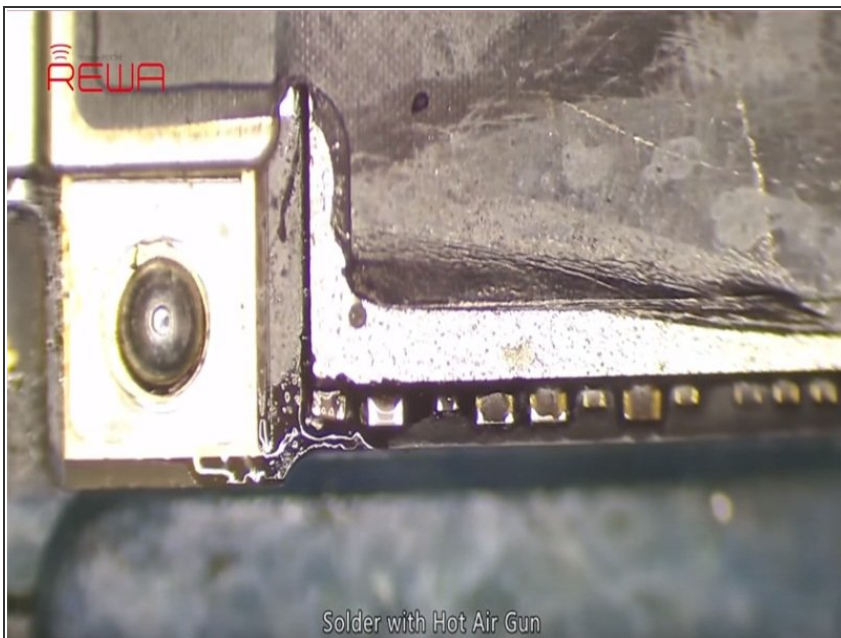
Step 3



The measured value is 250, which is normal

- Let's remove C2647 and run diode mode measurement of its bonding pad. The measured value is normal.
- We can confirm now that C2647 is damaged.

Step 4



Solder with Hot Air Gun

- Let's replace with a new capacitor and see how it works.
- Clean the bonding pad and solder new capacitor. Assemble the phone and test. The phone turns on normally.

Step 5 — Video Guide



- iPhone X won't turn on repair with a new solution - Thermal Imager.
- Credit: [REWA Technology](#)