



# iPhone X Won't Turn On - Quick Repair

This is an example of a short circuit that prevented this iPhone X from turning on

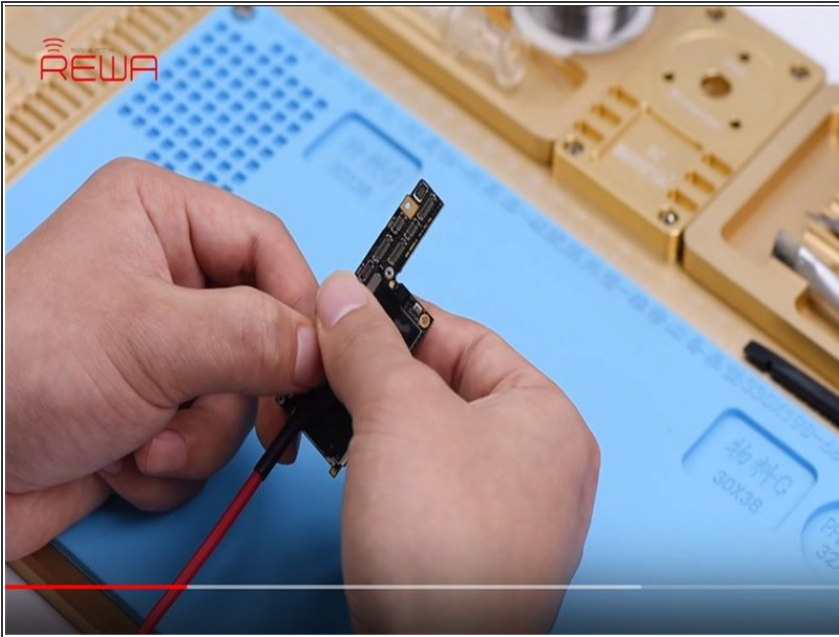
Written By: Phryne



## 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.

## Step 1 — iPhone X Won't Turn On - Quick Repair



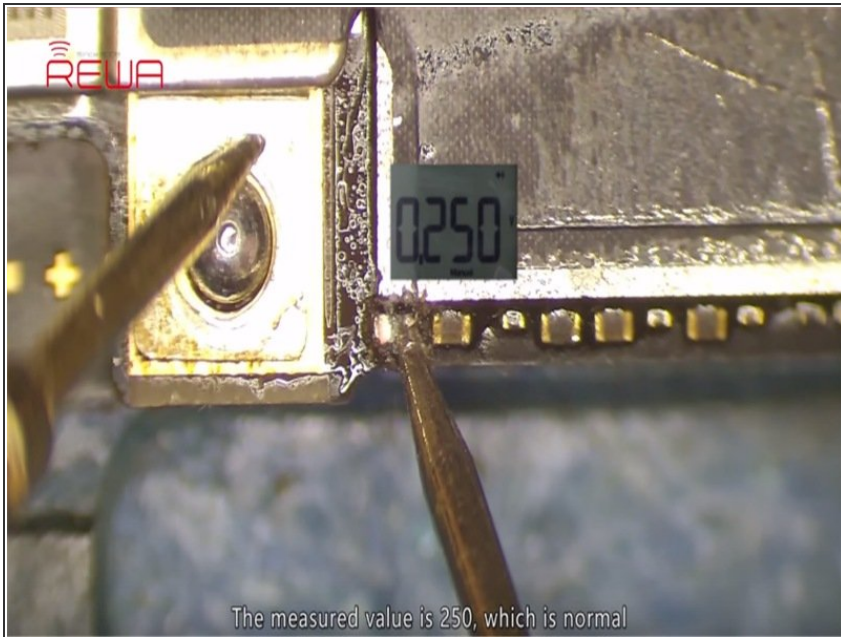
- Hold the power button to turn on the phone. The phone won't turn on.
- Take apart the phone and disconnect the battery. Remove the screen and take out the motherboard.
- Let's check the boot current first. The boot current is larger than normal value.
- Touch the motherboard with one hand. The NAND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

## Step 2



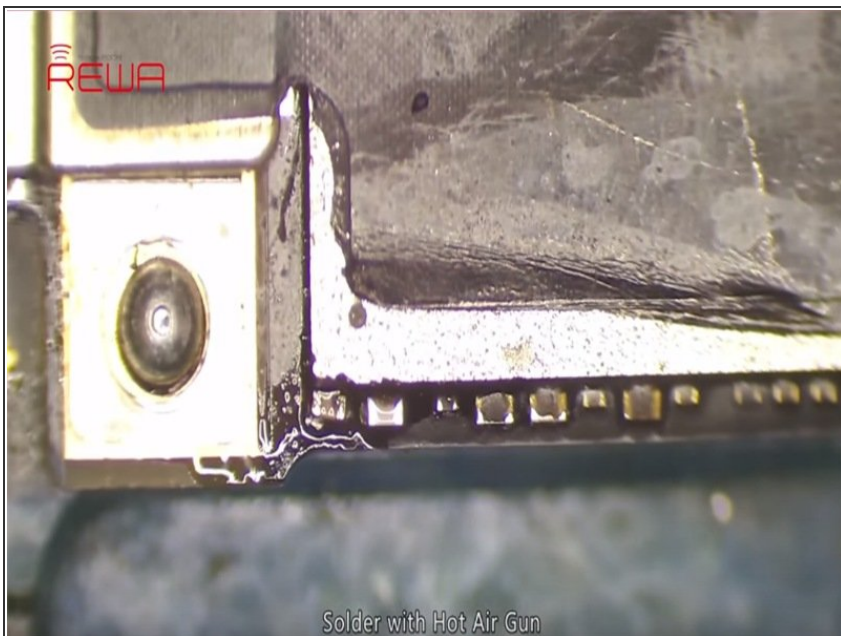
- Since there are so many components on the hot area, we can locate the faulty component with the help of the Thermal Imager.
- Put the motherboard under the Thermal Imager. Get the motherboard powered on. We can see clearly that C2647 is extremely hot. Judging by this, C2647 is probably damaged.

### Step 3



- 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



- 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.

- [iPhone 11 Series Non-Genuine Screen Warning/Important Display Message - 100% Fix](#)
- ["How To Restore True Tone After Screen Replacement On iPhone XS"](#)
- ["How to Fix iPhone X Face ID Not Available"](#)
- ["How to Fix iPhone X Face ID Not Working After Screen Replacement"](#)
- ["Upgrade iPhone X 64GB Storage To 256GB In 5 Steps"](#)
- ["How to Restore A Badly Damaged iPhone X"](#)
- [Samsung Galaxy S9/S9+ Cracked Screen Glass Only Repair](#)
- [One Solution To Fix 80% iPhone Touch ID Failure](#)