



Nexus One Glass Replacement

How to replace the Glass (or the display) of a Google Nexus 1.

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INTRODUCTION

This guide depends upon the "teardown" - it shows only the few extra steps that are missing after the end of the teardown.



TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [T4 Torx Screwdriver](#) (1)



PARTS:

- [HTC Google Nexus G5 Touchscreen Glass](#) (1)

Step 1 — Nexus One Teardown



- The Nexus One, manufactured by HTC, is the latest and greatest Android phone. It sports:
 - A 1 GHz Qualcomm (QCOM) Snapdragon processor.
 - A 3.7" 480x800 widescreen WVGA AMOLED display.
 - A 5MP digital camera w/ LED flash that also records .mp4 video.
 - 802.11n wireless capability for when you can't depend on 3G.
 - 7 hours of 3G talk time from a removable 3.7V, 1400 mAh lithium battery.
- The box's color scheme *kind of* looks like [Google's](#).
- Pawning apps on the clear plastic protective sleeve? Guess the app store really *is* that desperate.

Step 2



- Droid, meet Nexus One. Anyone else see the transition from Terminator to T-1000?
- iFixit's Android family. Darwin would agree that progress has been made.

Step 3



- The unbelievably easy task of removing the plastic rear cover gives access to the replaceable battery. Hey Apple, take notes!
- Inside the battery compartment you can see:
 - The 5MP camera lens
 - LED flash bulb
 - External speaker
 - The warranty-killing VOID sticker

Step 4



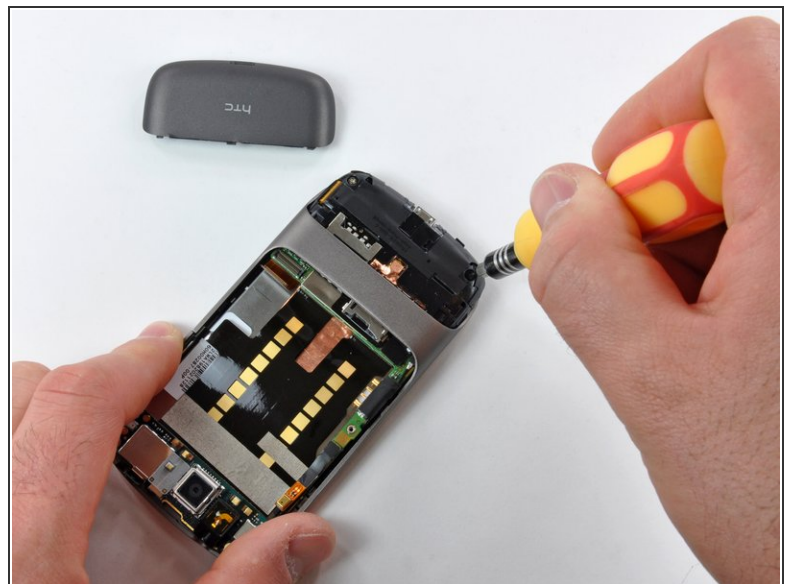
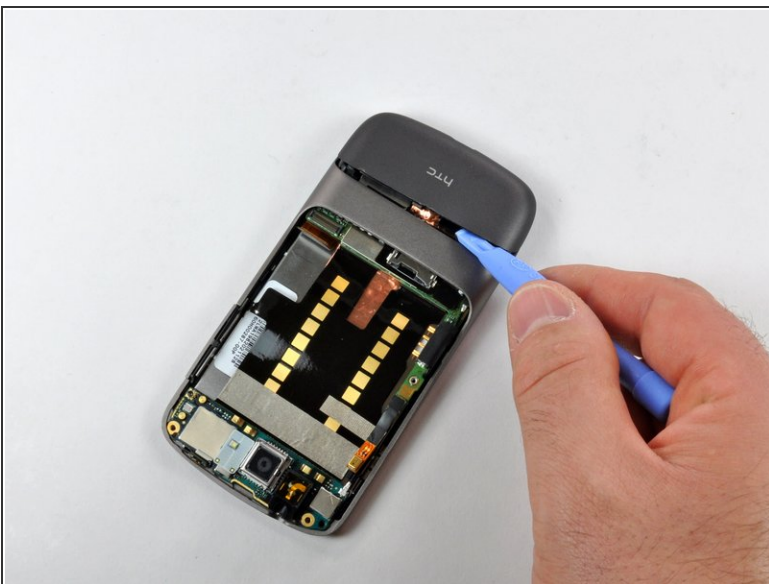
- Warranty = VOID. No turning back now.
- This phone is very nicely put together. After removing three screws and prying with a plastic opening tool, the battery tray comes right out.

Step 5



- The upper circuit board is held in place by another Phillips screw.
- After removing the screw, maneuver the upper board past the two metal clips holding it in place and lift it out of the phone body.
- The large black-coated foil section is the data connection between the two main circuit boards.

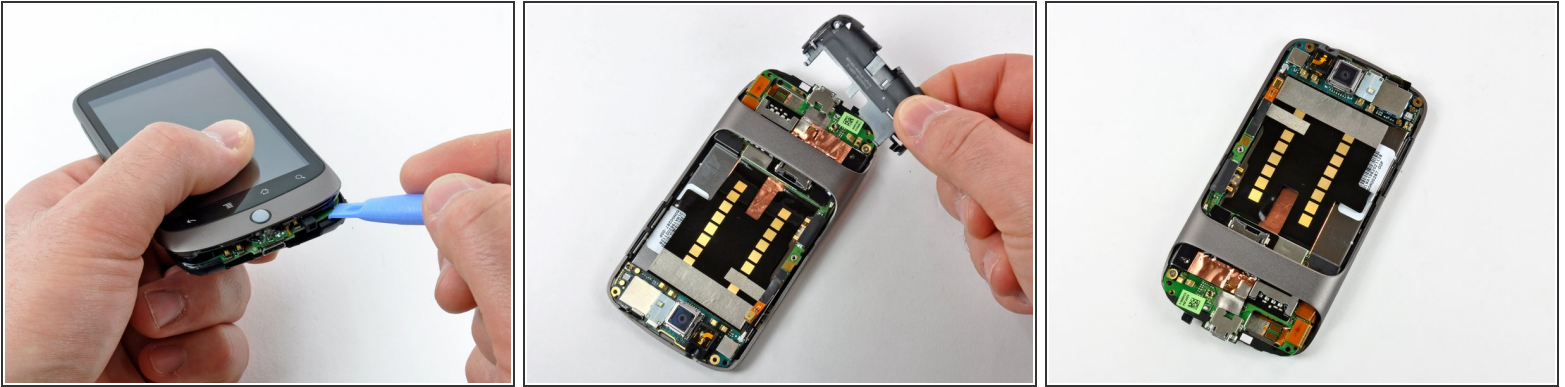
Step 6



- After some trying moments with a few [tools of destruction](#), we figured out the bottom cover can simply be popped off with a plastic opening tool.
- Guess what? We found more screws.
- This phone uses many foil antennas attached to the several plastic internal frame pieces.

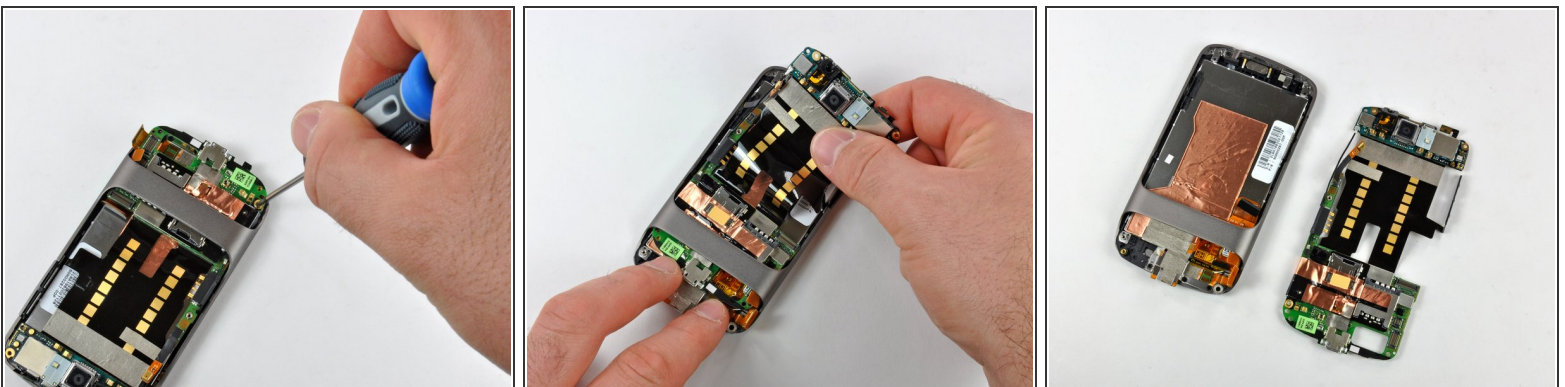
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Step 7



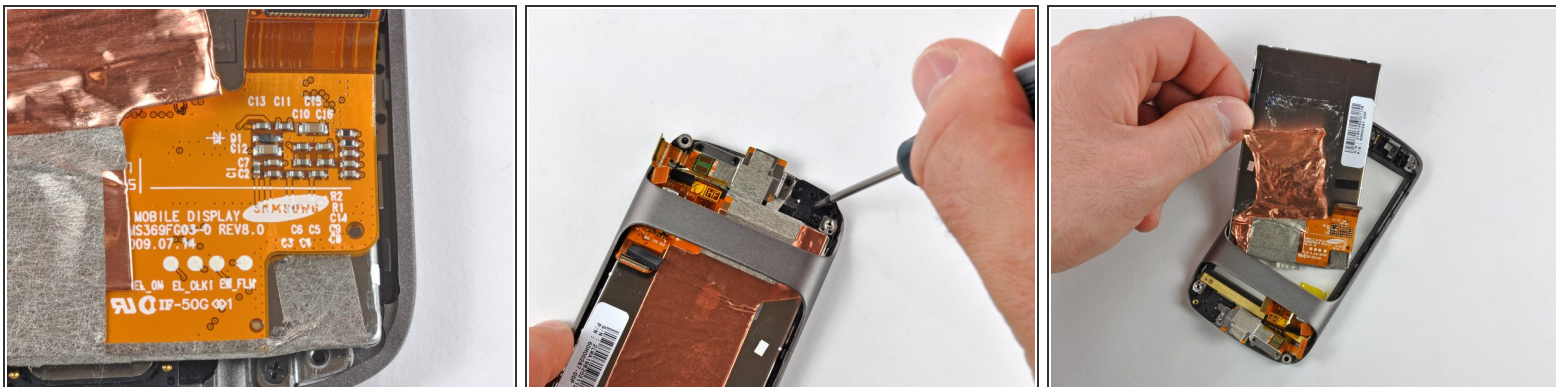
- With a quick pry of the plastic opening tool, we found that the black plastic frame slightly envelops the lower side of the logic board.
- And just like that, the plastic frame snaps off, revealing the lower logic board.
- It's quite a colorful phone on the inside. We've got oranges, greens, yellows, dark grays, and all sorts of fun stuff!

Step 8



- We had to take care of one more Phillips screw.
- After that, the logic board assembly slowly-but-surely slid out from the rest of the phone.
- The camera and headphone jack are both soldered directly to the main board.

Step 9



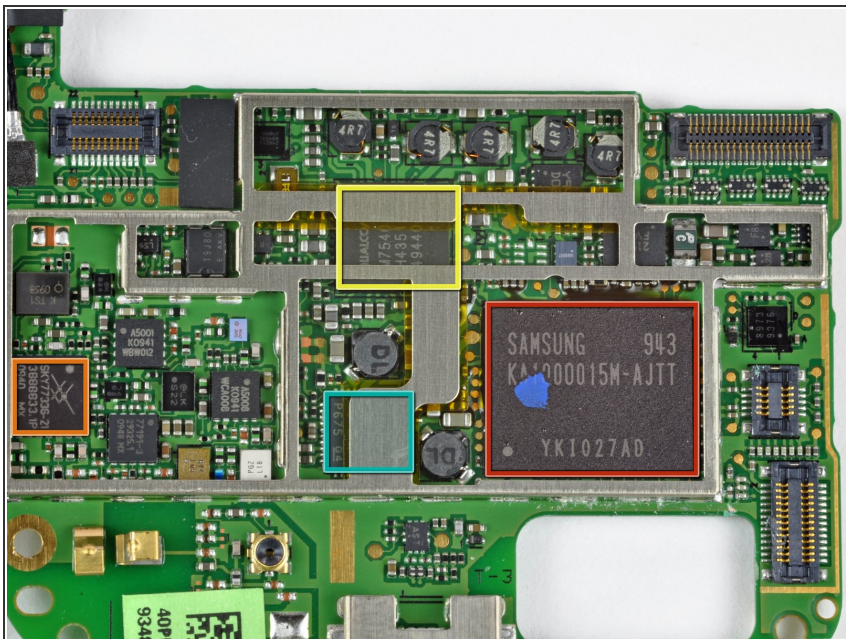
- The Nexus features a 3.7-inch (diagonal) widescreen WVGA AMOLED touchscreen.
- ⓘ This is the second device we've taken apart with an OLED display. The [Zune HD](#) we took apart last September also featured a Samsung-branded OLED display.
- The Nexus display features a resolution of 480 x 800. That's a few less pixels than [Motorola's Droid](#) (480 x 854), but far more than the [iPhone 3GS](#) (320 x 480).

Step 10



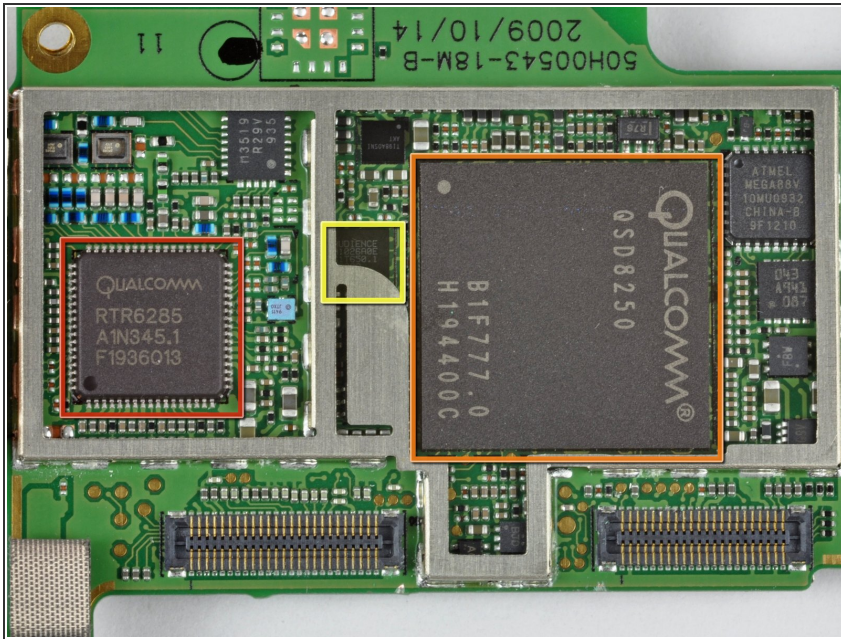
- Here's what looks to be the Synaptics (SYNA) touchscreen controller.
- The chip is labeled T1007A, 2 0927, AMP08P. It controls the ClearPad 2000 series capacitive dualtouch sensor used in this phone.
- ⓘ We haven't been able to find any specifics on this chip. If you can help out with details, let us know!

Step 11



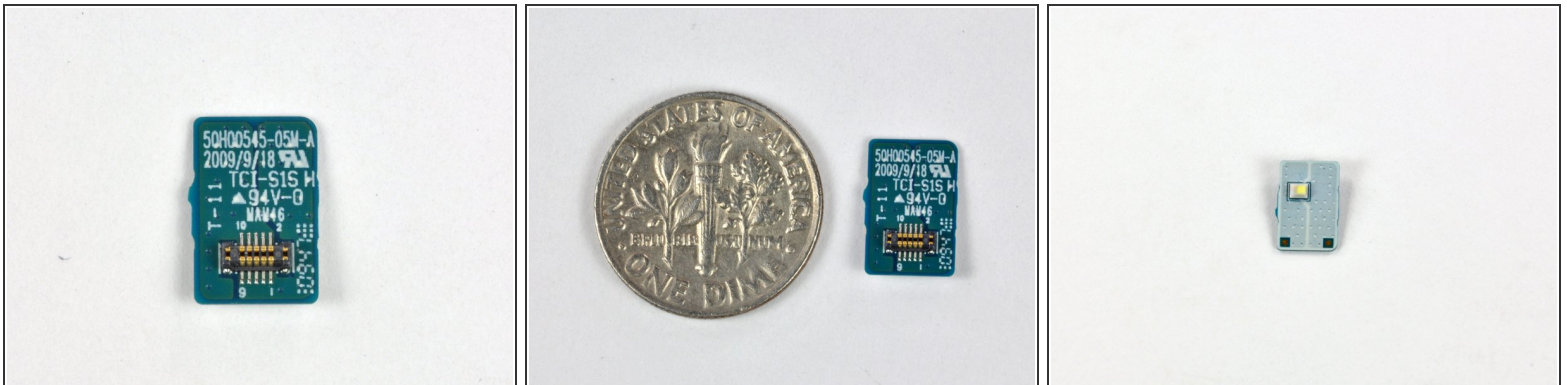
- A list of the chips we've identified so far:
 - Samsung 943 KA100O015M-AJTT
 - Skyworks (SWKS) [SKY77336](#) GSM power amplifier (labeled SKY77336-21 3888833 1P 0940 MX)
 - Qualcomm (QCOM) [PM7540](#) power management chip (labeled PM7540 AH43510 C4944001)
 - The TI (TXN) [TPS65023](#) integrated Power Management IC (labeled TPS65023 TI 9AJ P675 G4)

Step 12



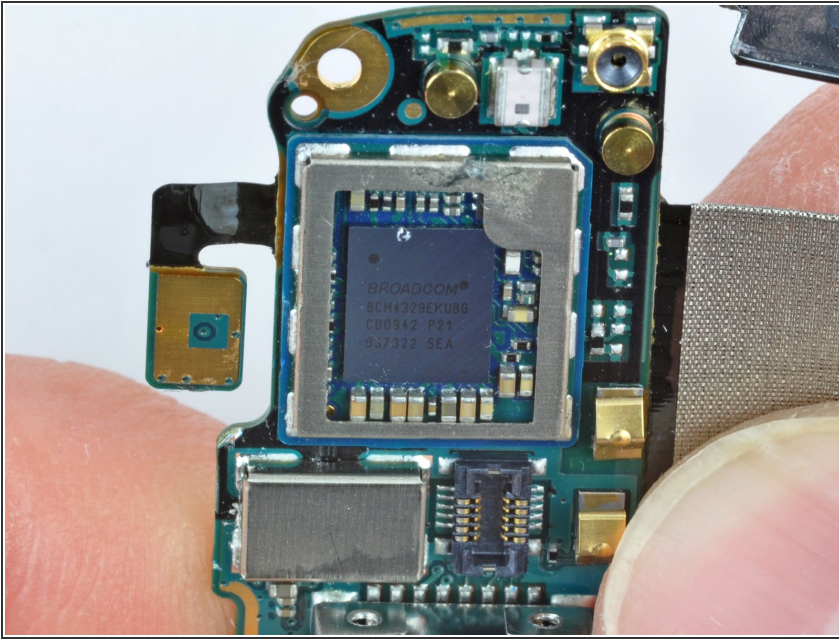
- Qualcomm (QCOM) appears to be the big winner on the Nexus. We've found at least three of their chips in here already.
- On the left is a RTR6285 RF transceiver.
- The large chip on the right is the nexus of the Nexus. It's a Qualcomm (QCOM) [QSD8250](#) "Snapdragon" 1 GHz ARM processor.
- The small chip between the two Qualcomm (QCOM) chips is an [Audience A1026](#) voice processor, including ambient noise cancellation.

Step 13



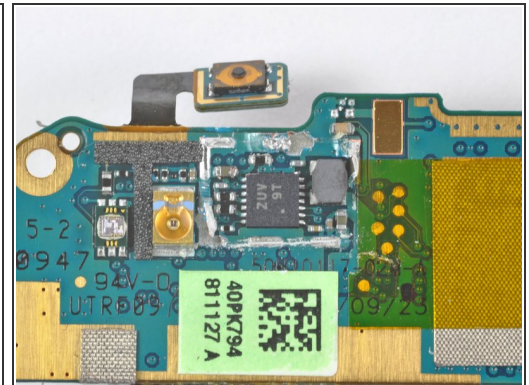
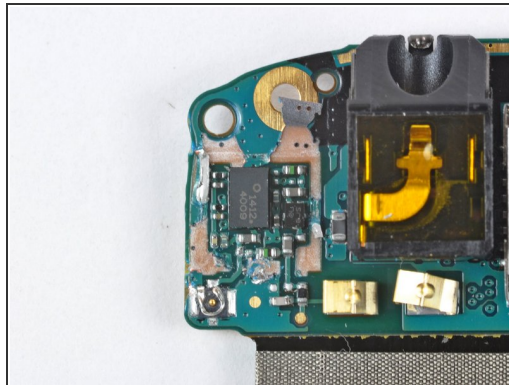
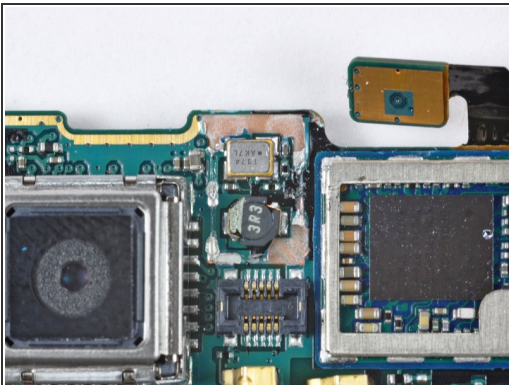
- What have we here?
- It's a plane, it's a bird, no... it's smaller than a dime? What are you?
- It's the LED flash.

Step 14



- The Bluetooth and 802.11n wireless is provided by a Broadcom (BCM) [BCM4329](#) chip.
- The 802.11n capability gives the Nexus an advantage over the iPhone 3GS, which only has 802.11g connectivity. The Broadcom (BCM) chip in the Nexus is the same chip [we found](#) in Apple's [newest \(3rd generation\) iPod touch](#).
- The package is labeled BCM4329EKUBG CD0942 P21 937322 SEA

Step 15



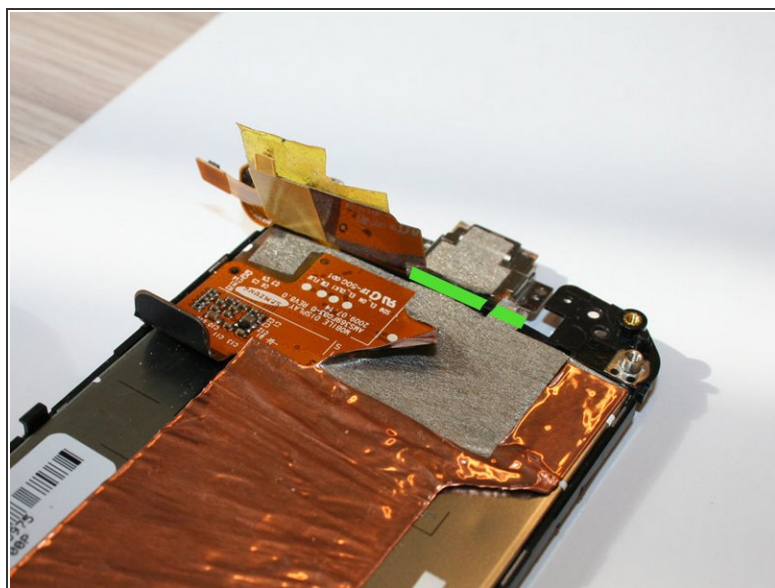
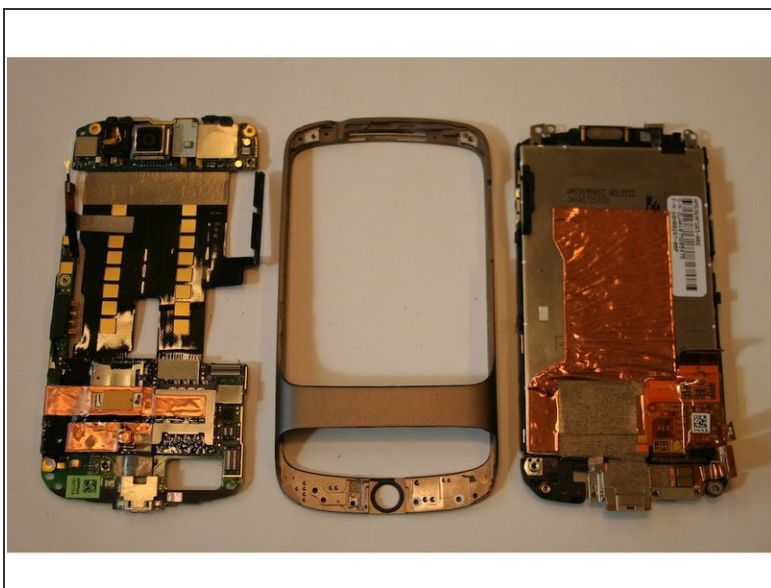
- Three more chips.
- Unfortunately these were located underneath soldered EMI covers. For the sake of science and gadget lovers everywhere, we had to be a little forceful to get these covers off.
- Using the Nexus One post-teardown just became very iffy. Previous to this step, we felt good about its functionality, but no longer...

Step 16



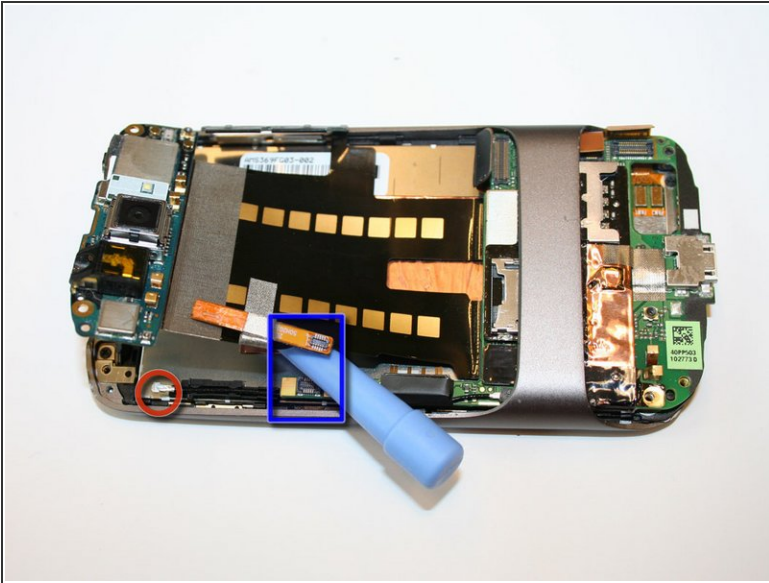
- There you go, folks...
- Hopefully our kryptonite wasn't too much for the Nexus "Superphone" One.

Step 17 — Glass



- Slip out the display+glass compound from the body. seen on the right hand side here, the OLED Display, the Glass and it's frame are still connected.
- To separate the display, we have to cut the gray fabric in the places indicated

Step 18



- Unplug the strip (shown in the blue rectangle)
- Unplug the black cord (shown in the red circle)
- Unplug three more plugs (not marked)

Step 19



- Separate the OLED display (not shown here!)
- Separate glass from Frame. This is glued in, so you need a bit of force
- there is one thingy thats connected to the glass and is threaded through a hole in the frame - don't cut / tear that, but un-thread it!

Step 20



- put the Trackball back in it's place:
the 4 sides are not the same, one is
different. Let this side point
outwards

If you don't end up with 2 screws left over, you did something wrong. No, no, just kidding: please edit and correct this guide if you find out where I went wrong.