



iPhone 5c Logic Board Replacement

wifi, iphone 5c, logic board

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TOOLS:

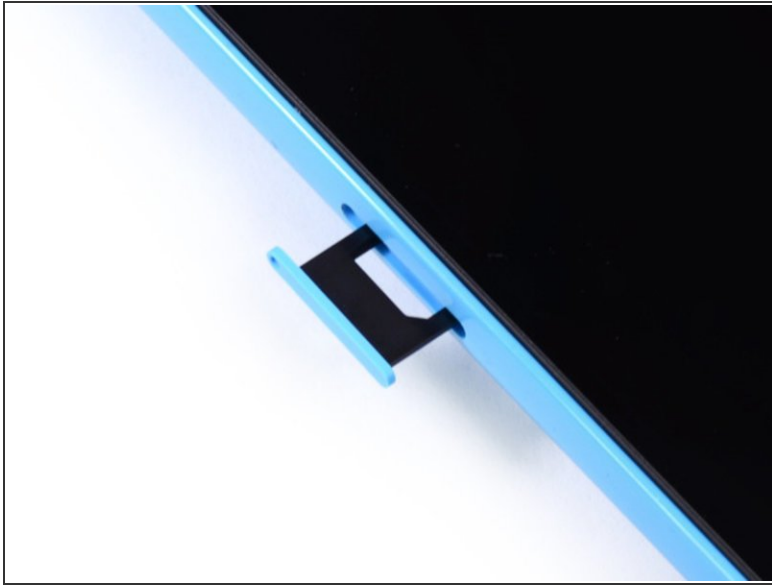
- [iOpener Kit](#) (1)
 - [Spudger](#) (1)
 - [iSclack](#) (1)
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Step 1 — Get Informed before Repair



- With a grand variety of colors to choose (white, blue, pink, green, and yellow), we decided on blue
- What difference is there between the iPhone 5c and the iPhone 5? We are going to discuss this. To begin, the back cover is composite plastic, it seems that our work is really cut out for us here...
- The technical specifications include:
 - Apple A6 chip system (SoC)
 - 4 inch retina screen (1136-by-640-pixel resolution at 326 ppi)
 - 8 megapixel iSight camera
 - 4G LTE connectivity
 - 16 or 32 GB storage capacity

Step 2 — SIM Card



Remember to take out the SIM tray

- As promised, each port, button, and physical slider has changed from metal to plastic.
 - "Very cheap", per chance?
- These parts aren't all plastic, if not that they also look like much more than that...
 - The volume buttons are considerably large, and so are the 10-hole microphone grid and the 16-hole speaker grid (1 and 4 holes respectively)

Step 3 — Unscrewing the Screws



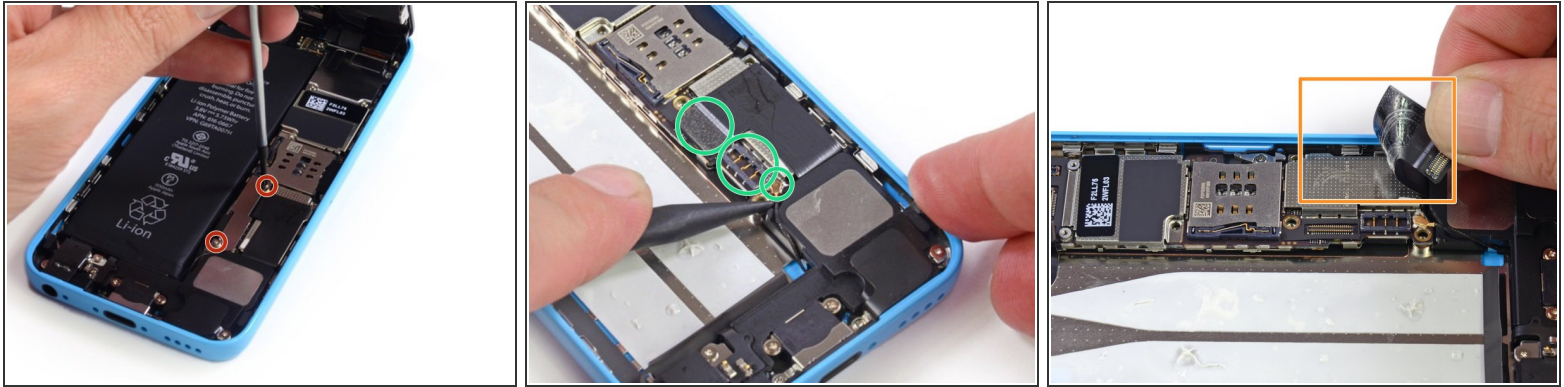
- These super small Pentalobe screws are slightly different than those of the iPhone 5 and 5s.
- ⓘ Here is how the Pentalobe screws compare in size with an Australian coin with an undetermined value.

Step 4 — Opening the Iphone



- Now with a suction tool, we lift the screen.
- ⚠ Do not lift the screen completely so that you do not break the screen cables.

Step 5 — Battery



- Now we UNSCREW the two marked screws (see image).
 - We DISCONNECT three cables (designated by the green markings).
 - Remove the black battery cable with CAUTION.
- ⚠️ Disconnect the cables with CAUTION. When removing the cables, do so WITHOUT FORCE.

Step 6 — Display



- Remove the following Phillips #000 screws that hold support to the front panel assembly to the logic board.

- Two 1.3mm screws

- A 1.7mm screw

- A 3.25mm screw

⚠ It is especially important to keep track of your screws for reassembly. Accidentally using a 3.25mm or 1.7mm screw in the lower right hole causes significant damage to the logic board of a phone that already doesn't start correctly.

⚠ Exercise caution to not screw the screws in too tightly. If you are having issues when you are securing them, you may have the wrong size. If this is the case, DO NOT FORCE THEM.

Step 7 — Display Cables



- Use a plastic spudger tool to disconnect the front camera and the connector for the sensor cable.

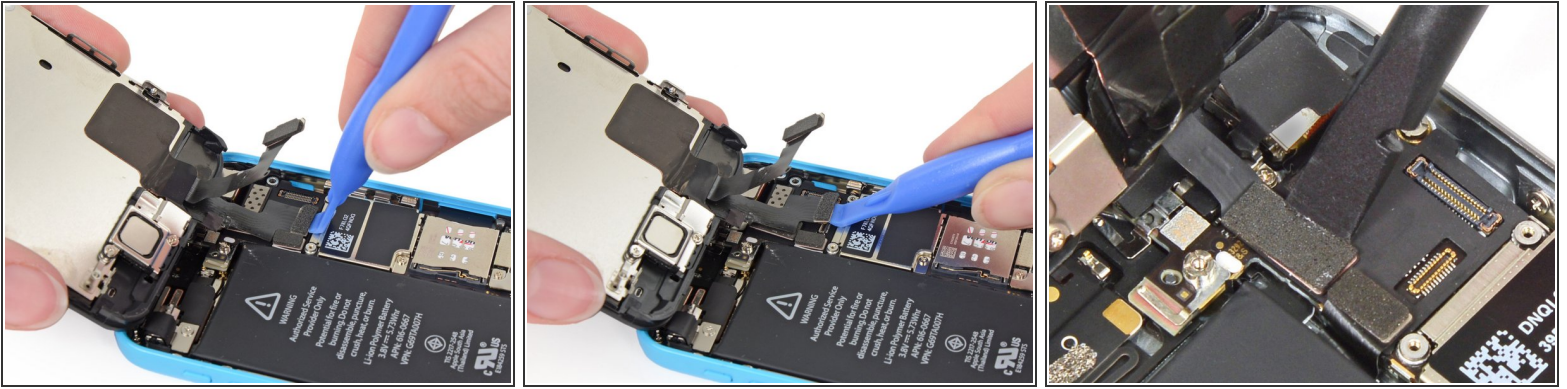


Make sure to put the spudger only on the connector, and not on the surface of the logic board.





Remember that you must undo ALL of the cables on the logic board.

Step 8

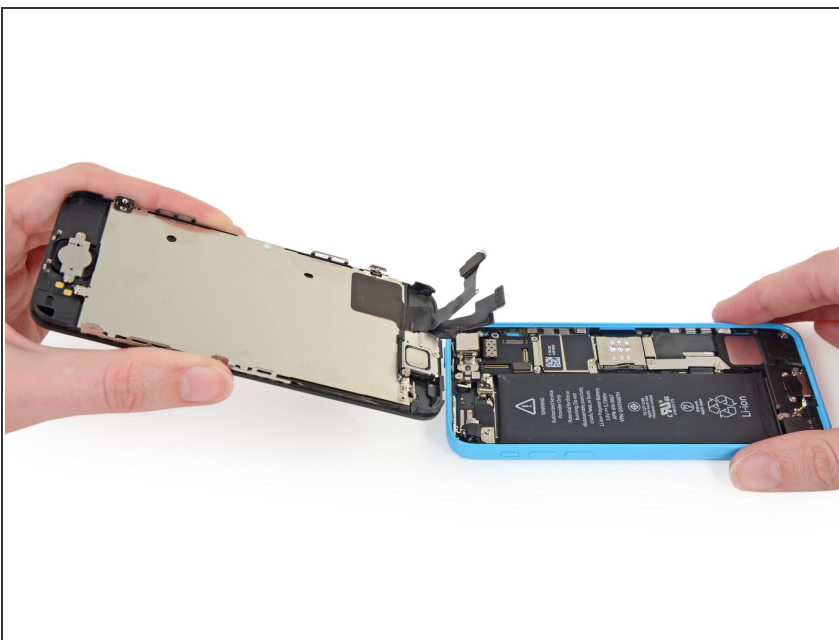


- Use a plastic spudger to disconnect the LCD cable from its connector.

 The LCD and digitalizer connectors are in the same ensemble as the cables, so when using the spudger lift the LCD cables and disconnect both cables. Double-check that the two cables are completely disconnected before removing the screen.

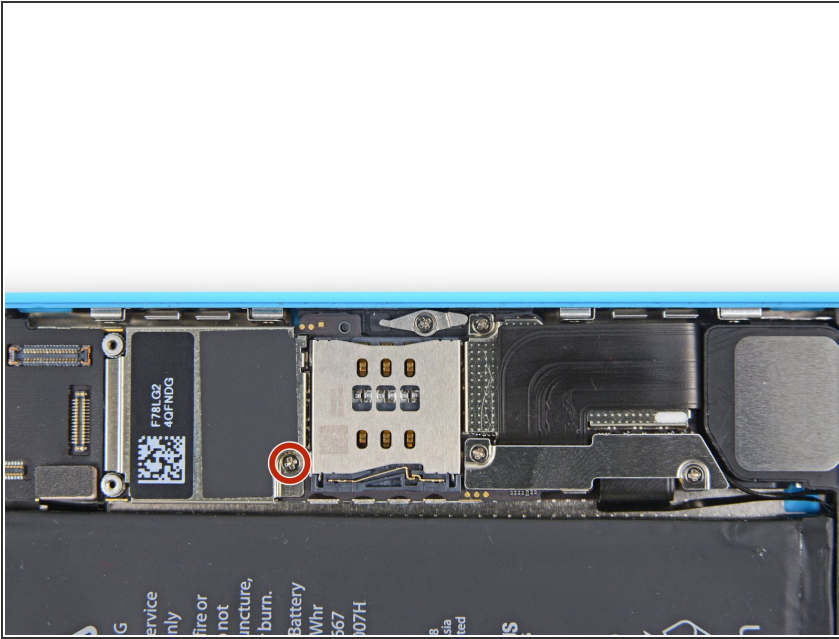
 To reassemble your cellphone, the LCD cable can leave the connector. The white screen, or white lines in the screen can be caused by a loose connection between the LCD and its connector. If this happens, go back and connect the cable and restart your phone. The best solution to a flickering screen is disconnecting and reconnecting your battery.

Step 9



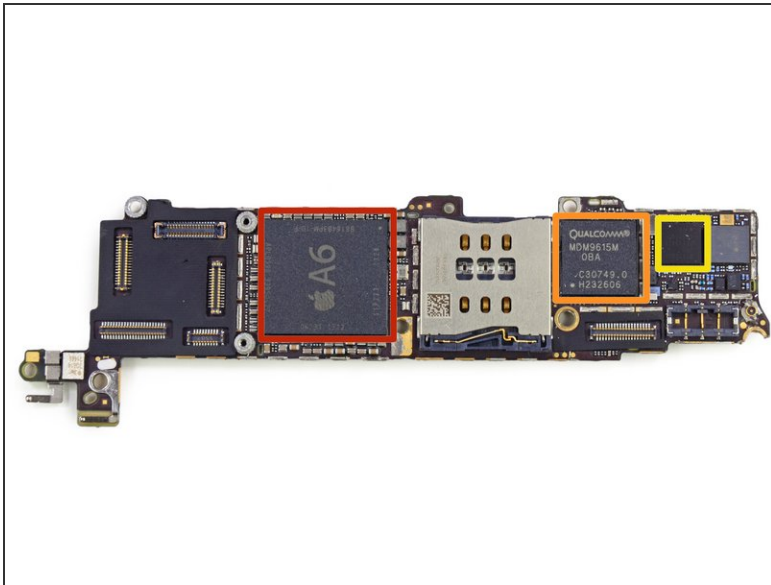
- Remove the front panel from the back case.

Step 10 — Remove All Screws



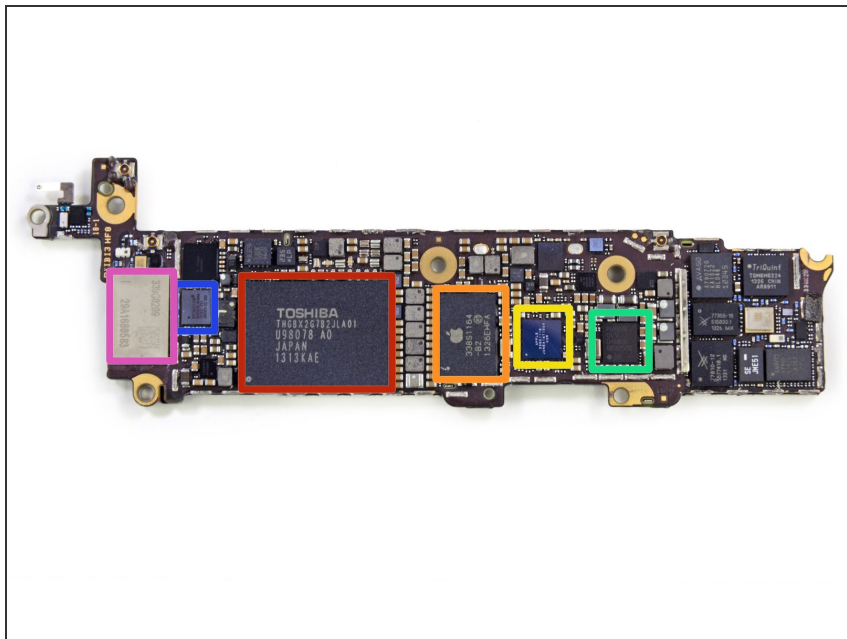
- Remove all of the Phillips #000 screws (2.0mm) that are fixed to the logic board.
- ⓘ Remove all of the screws and connector cables.

Step 11 — Logic Board Front Part



- The front part of the logic board:
 - Apple A6 APL0598 application processor
 - Qualcomm MDM9615M LTE WiFi module
 - Qualcomm WTR1605L LTE / HSPA + / CDMA2K / TDSCDMA / EDGE / GPS Tranciever
- While not as flashy as its newest counterpart, we have to admit a certain affection for the A6 chip.
- The iPhone 5c contains 1 GB of ram DDR2 with the A6 system chip.

Step 12 — Logic Board Rear Part



- The back portion of the logic board:
- Toshiba THGBX2G7B2JLA01 128 Gb (16 GB) NAND flash
- Apple 338S1164
- Apple 338S1116 Cirrus Audio Codec
- Qualcomm PM8018 RF power management IC
- Broadcom BCM5976 Tactile touchscreen driver
- Murata 339S0209 WiFi module (based on the Broadcom BCM4334)