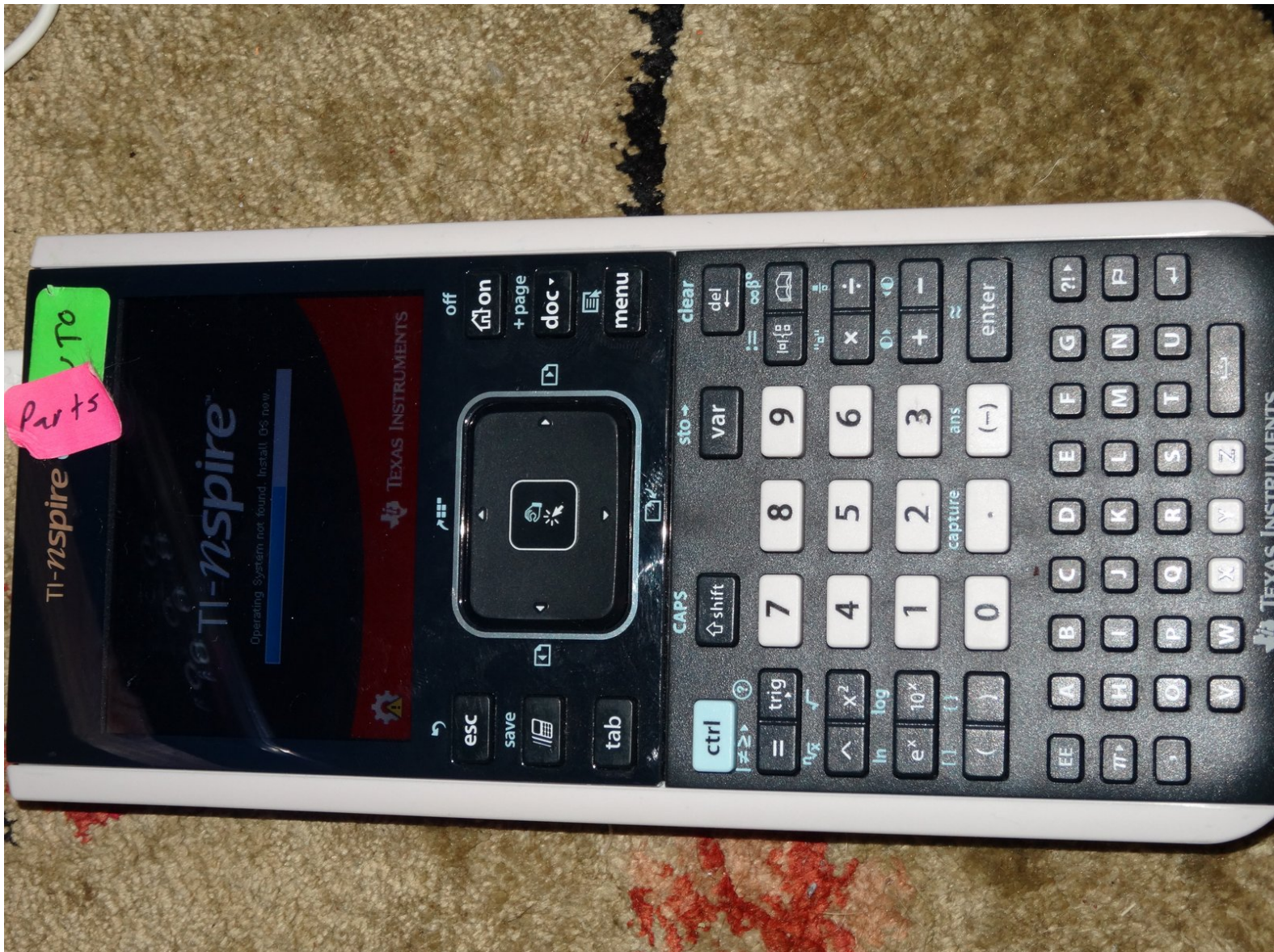




Texas Instruments TI-Nspire CX Defective Button Repair

How to solve some button problems when corrosion has formed inside the buttons.

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INTRODUCTION

Sometimes corrosion can form inside the buttons of a TI-Nspire CX calculator, causing them to stop working correctly. This guide will show you how to disassemble the calculator and clean the problematic buttons, which should help solve the problem.

TOOLS:

- [64 Bit Driver Kit](#) (1)
-

Step 1 — Texas Instruments TI-Nspire CX Defective Button Repair



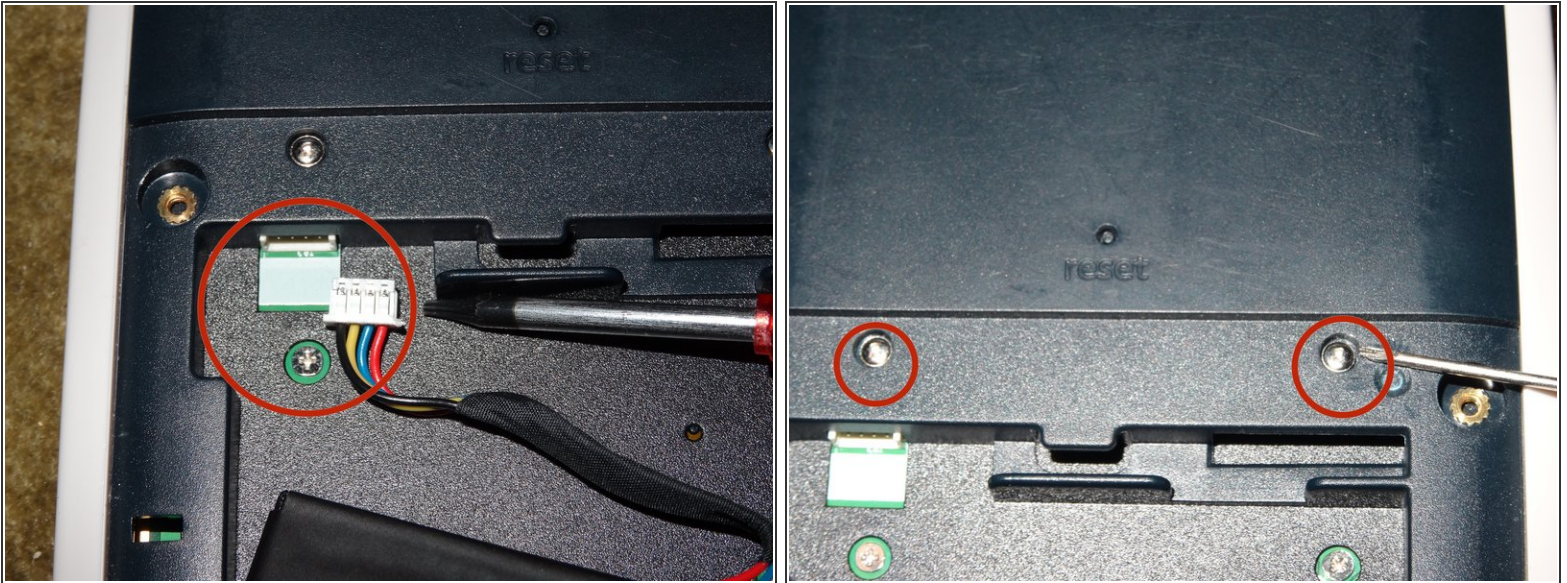
- Power down the calculator with the OFF function.

Step 2



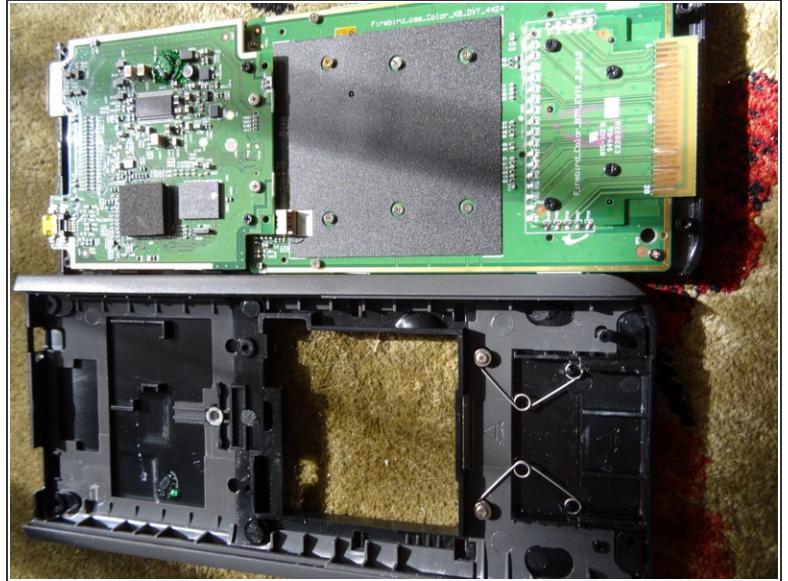
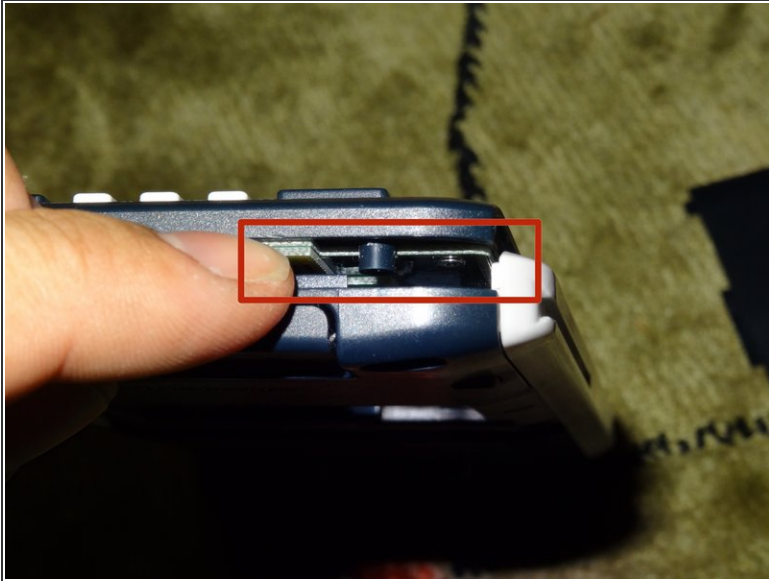
- Remove the feet from the top of the calculator to reveal the top clutch screws.
- Unscrew the clutch screws, the torx bottom screws, and the battery drawer screws.
 - ⚠ Use a 1mm flathead screwdriver for the clutch screws.
 - ⚠ You will need to switch your screwdriver bit for the torx screws. Be careful not to strip the screws.

Step 3



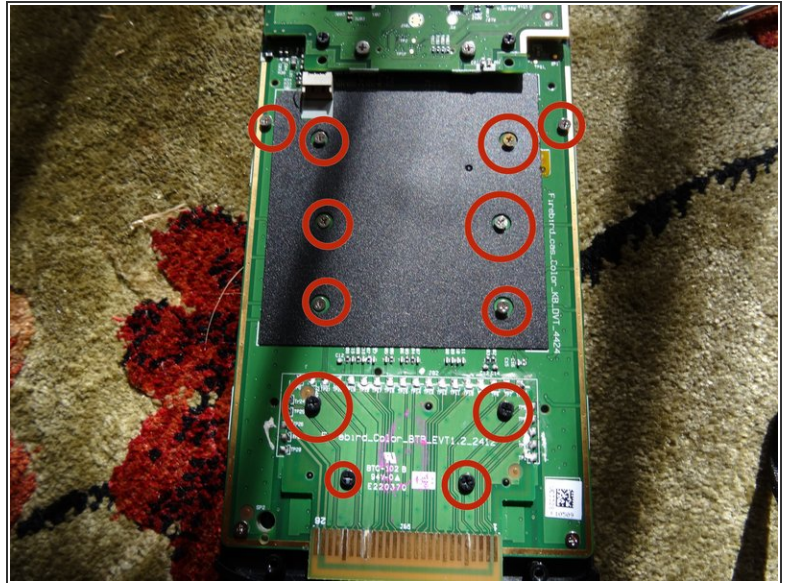
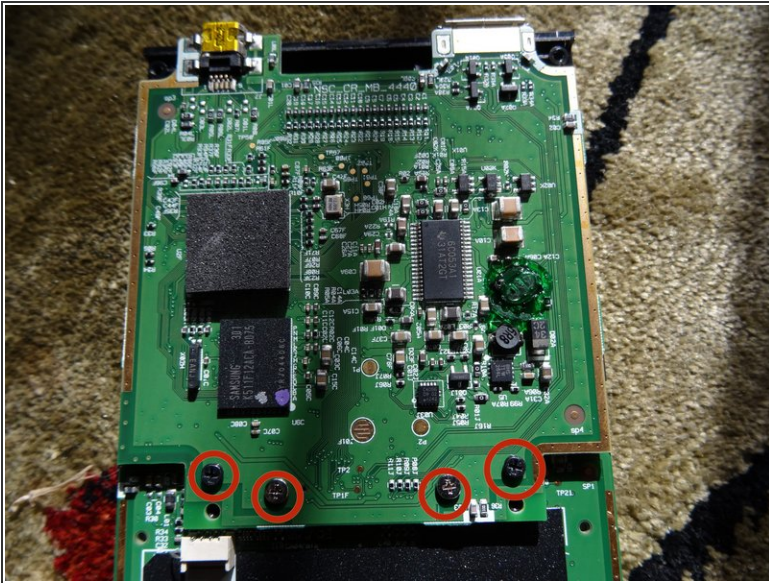
- Disconnect the power cable in the battery case.
 - ⓘ Pulling the cable out by hand is best. The plastic is delicate, so use pliers only if the adapter is stuck.
- Unscrew the two clutch screws above the battery case, using the 1mm flathead screwdriver.

Step 4



- Remove the front panel by loosening all around the edges, then carefully pulling the panel loose.
 - ⚠ While removing the panel, several buttons may come loose. Be sure to have a clear work surface to catch them.
 - ℹ You do not need much force to remove the panel. Your fingers are usually enough, but if you have trouble use the spudger.

Step 5



- Unscrew the sixteen screws circled in the pictures.

❗ Four of these screws are around the connector, while the other twelve are on the circuit board itself.

Step 6



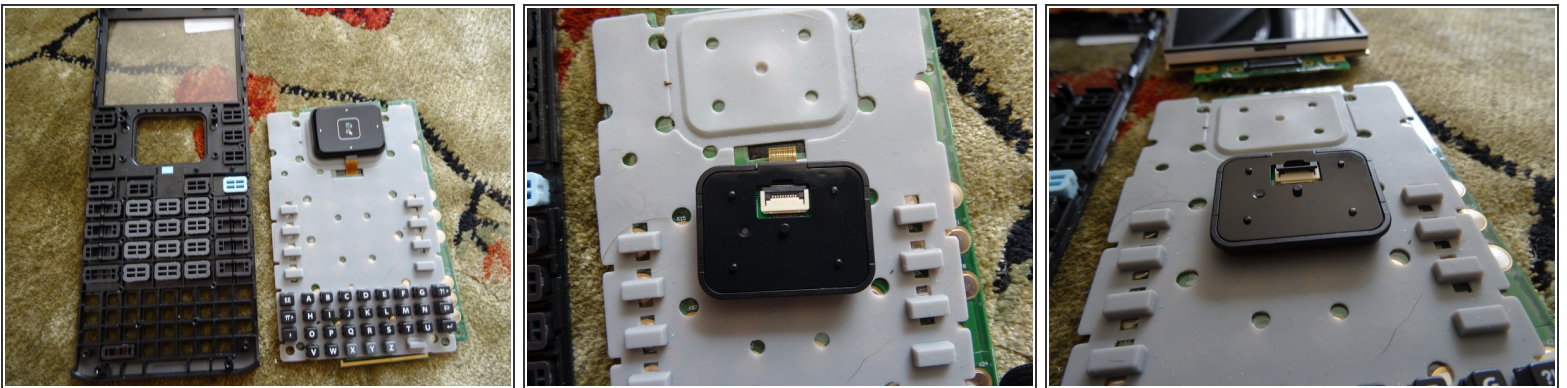
⚠ The internal spacers may fall out while you are working. Make sure to put them somewhere safe.

Step 7



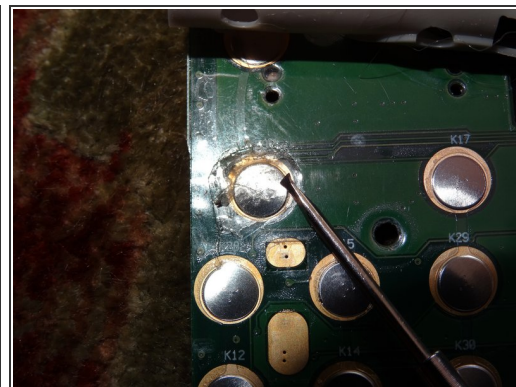
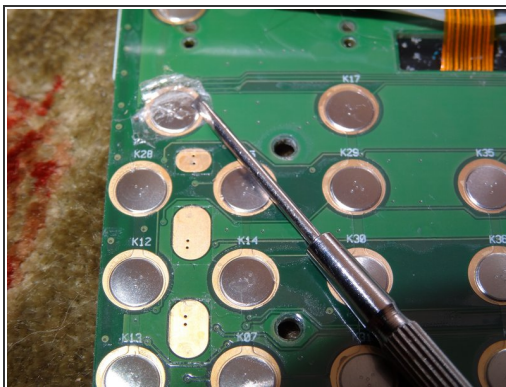
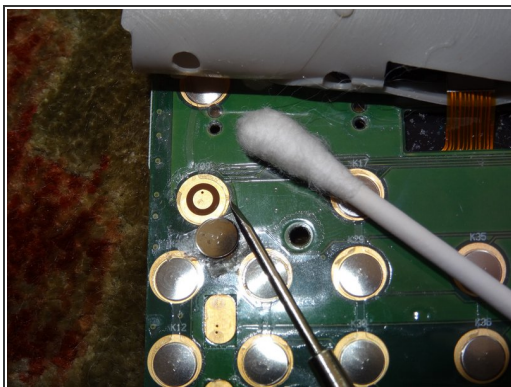
- Pull the top circuit board and the screen off. You should not need much force to undo the connector between them.
- ⓘ Although your calculator is in several pieces now, do not worry. There is little chance of causing damage.

Step 8



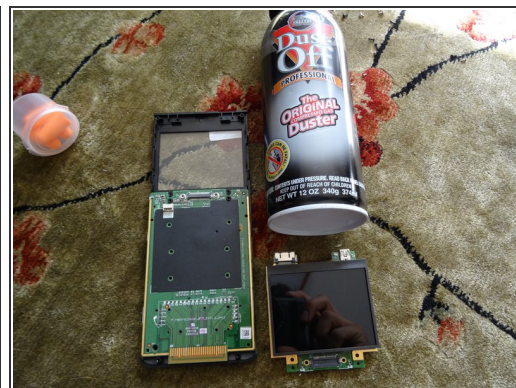
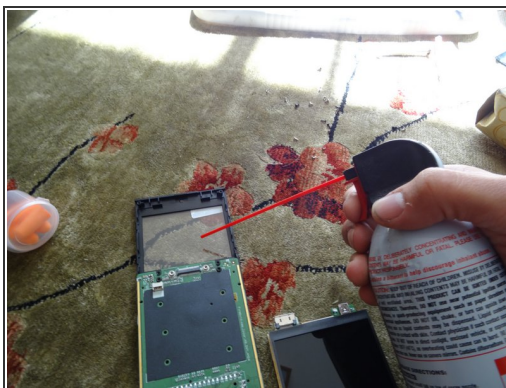
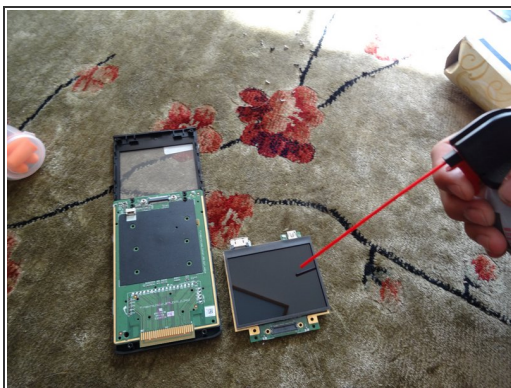
- Take the keyboard off. The buttons will fall out now, so take care to put them somewhere safe.
- ⚠ Be careful not to lose any of the buttons.
- Take the mouse flex cable off, otherwise it will dangle. Flip up the tab.

Step 9



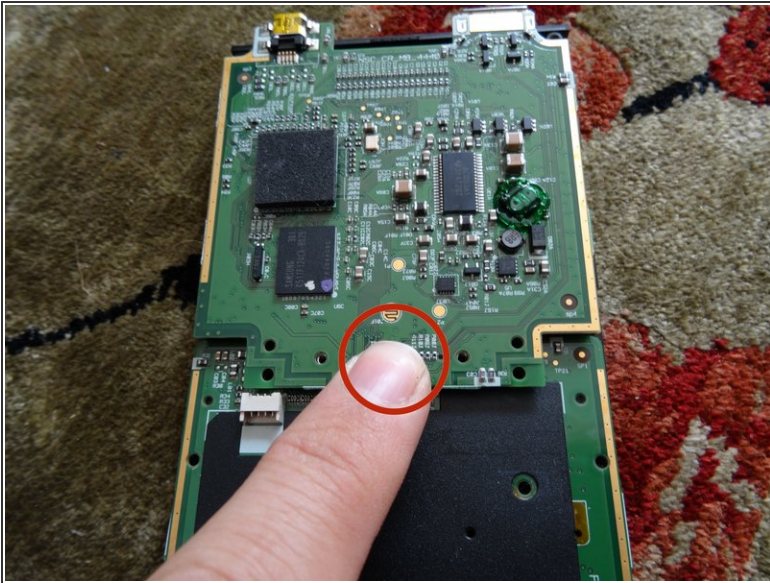
- On the circuit board, cut around the failing button with a safety knife. Once it is loose, peel it off delicately with a screwdriver or tweezers.
 - Clean the button with rubbing alcohol.
- ⚠ Be careful not to dig into the circuit board with the knife. This could seriously damage your calculator!
- Place the button back on the circuit board, then use a small amount of adhesive tape to reattach it.

Step 10



- [Optional] Clean the screen with compressed air.
- ⓘ This does not help with the button problem, but is good maintenance practice while the calculator is disassembled.
- ⓘ Rubbing alcohol may be used instead.

Step 11



- Put the circuit board and the screen back together. Then press the connector into place.
 - ⓘ You may need to gently move the circuit board with your finger until the docks match.
- ⚠ BEFORE PROCEEDING, power on the calculator and check that the problem button works.
- Set the four screws that were near the connector back in their holes.

Step 12



- Drop the other twelve circuit board screws in their holes. Once all sixteen are in place, tighten them carefully.
- Reassemble the remaining components.

To reassemble your device, follow these instructions in reverse order.