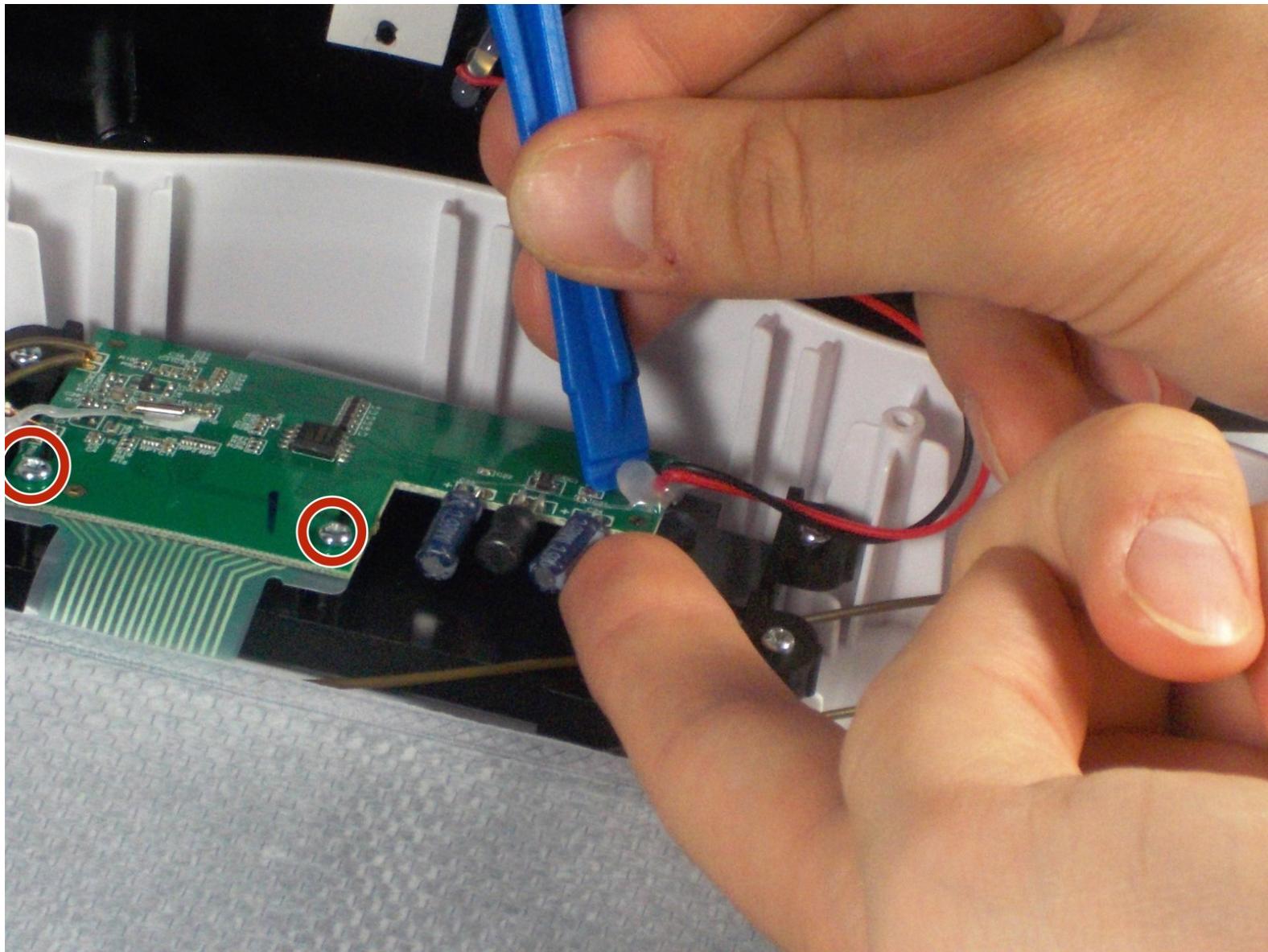




# VTech Write and Learn Creative Center Circuit Board Replacement

Replace the circuit board to resolve issues relating to the program and/or other digital problems.

Written By: Daniel Quilliam



## INTRODUCTION

The circuit board is an important aspect for the VTech Write and Learn Creative Center because it provides basic functionality to the device. The following repair guide addresses properly replacing a circuit board which will require soldering and the use of a screwdriver.

### TOOLS:

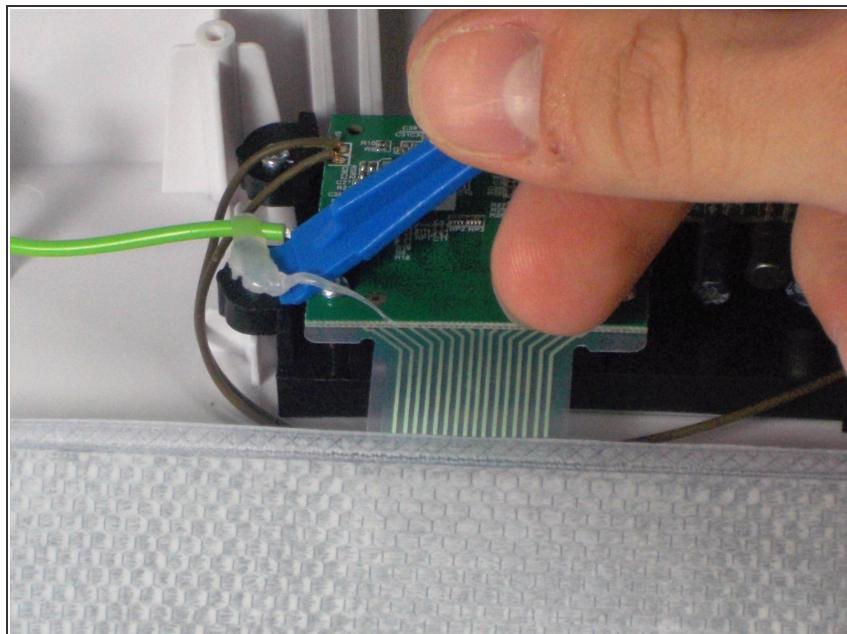
- **Phillips #0 Screwdriver** (1)
- **Phillips #2 Screwdriver** (1)
- **Soldering Iron** (1)

## Step 1 — Back Panel



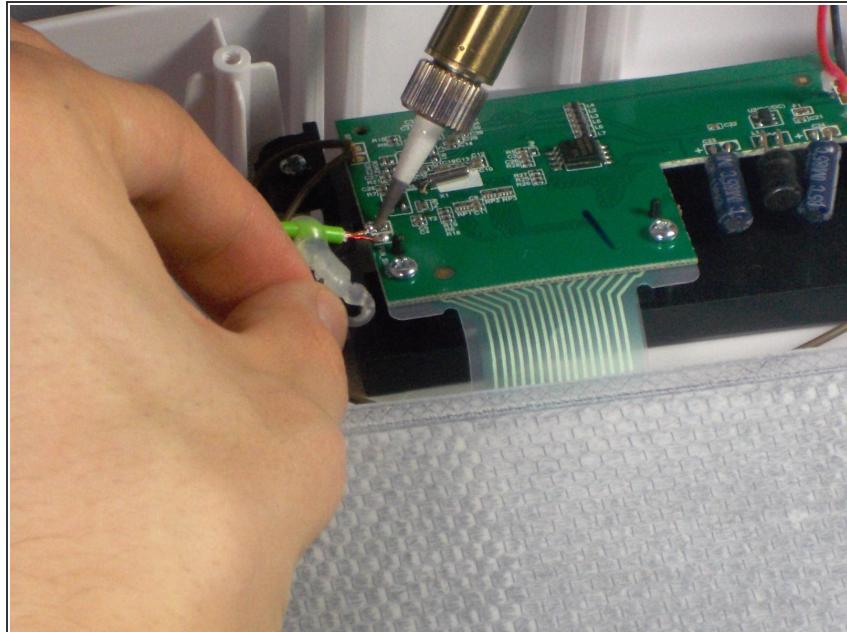
- Remove all eleven 9mm PH 2 Phillips screws securing the back of the case.

## Step 2 — Magnetic Pen



- If there is any hot glue, remove it from the base of the wires.
- *(i)* During reassembly, reapply the hot glue to the connections to reinforce its strength.

## Step 3

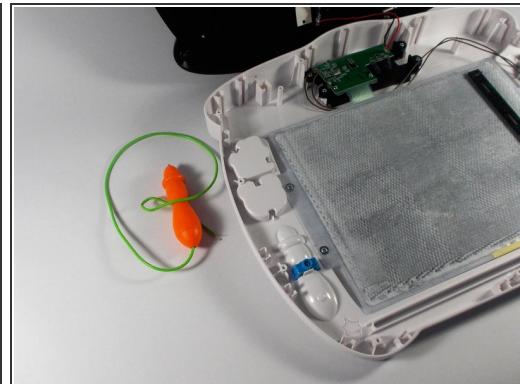
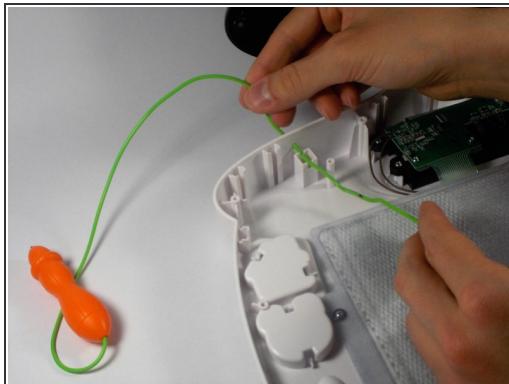
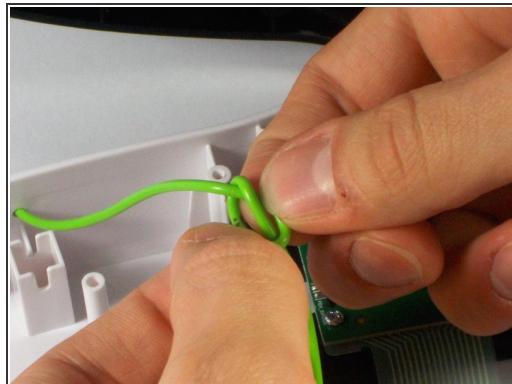


- In order to remove the magnetic pen, you must desolder the two wires connecting it to the circuit board.
- When you desolder, apply the tip of the soldering iron to the soldered joint for approximately 5 - 10 seconds.
- The soldered joint will turn to a liquid consistency. At this moment, remove the wire and soldering iron.
- Repeat each of the following steps for the second soldered joint.

 Soldering irons are dangerously hot. The soldering iron should only come in contact with joints being desoldered or soldered.

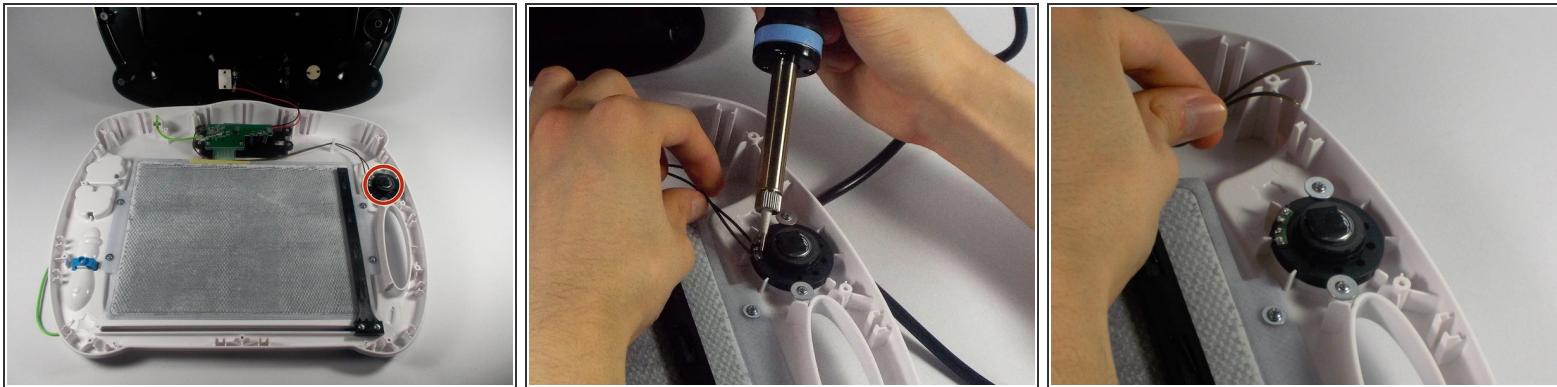
-  Make sure to allow time for your soldering iron to heat up before using it.
-  Make sure the tip of the soldering iron is cleaned so the tin on the tip is exposed. This will allow the soldering iron to work efficiently.

## Step 4



- Undo the knot, then feed the cord from the inside of the case to the outside using the hole the company originally designed for the cord.

## Step 5 — Speaker

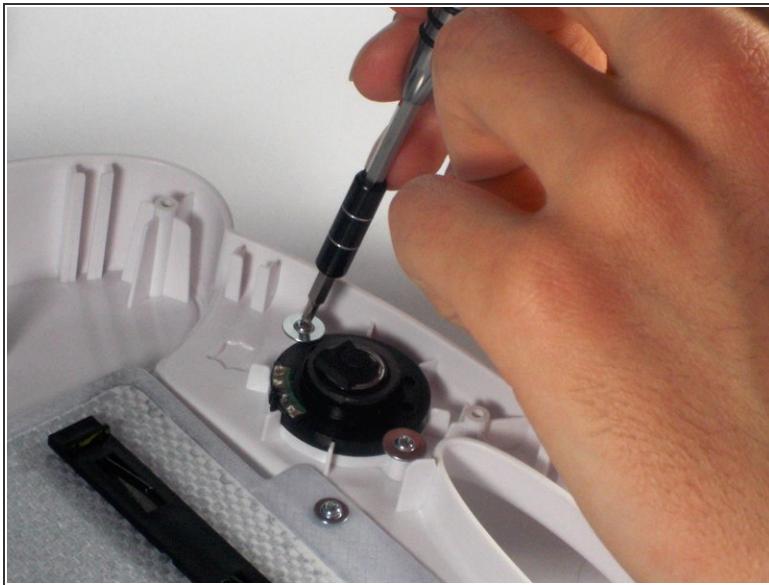


- In order to remove the speaker, you must desolder the two wires connecting it to the circuit board.
- When you desolder, apply the tip of the soldering iron to the soldered joint for approximately 5 - 10 seconds.
- The soldered joint will turn to a liquid consistency. At this moment, remove the wire and soldering iron.
- Repeat each of the following steps for the second soldered joint.

**⚠** Soldering irons are dangerously hot. The soldering iron should only come in contact with joints being desoldered or soldered.

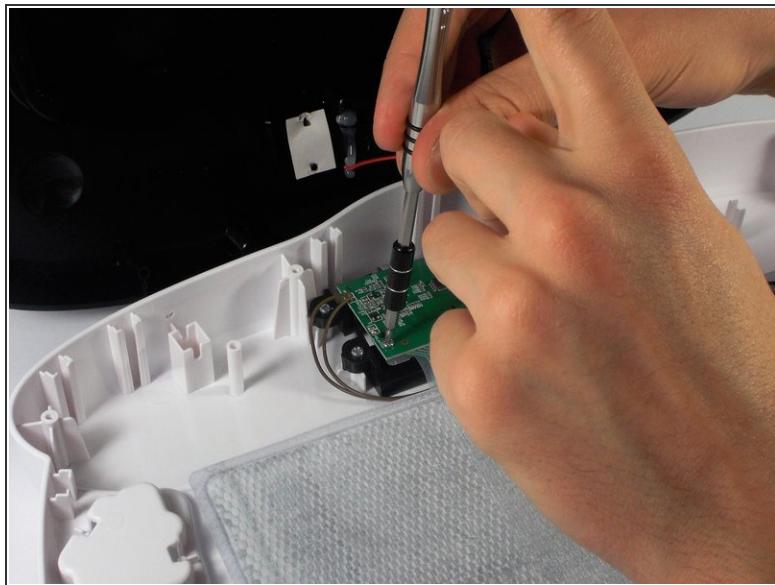
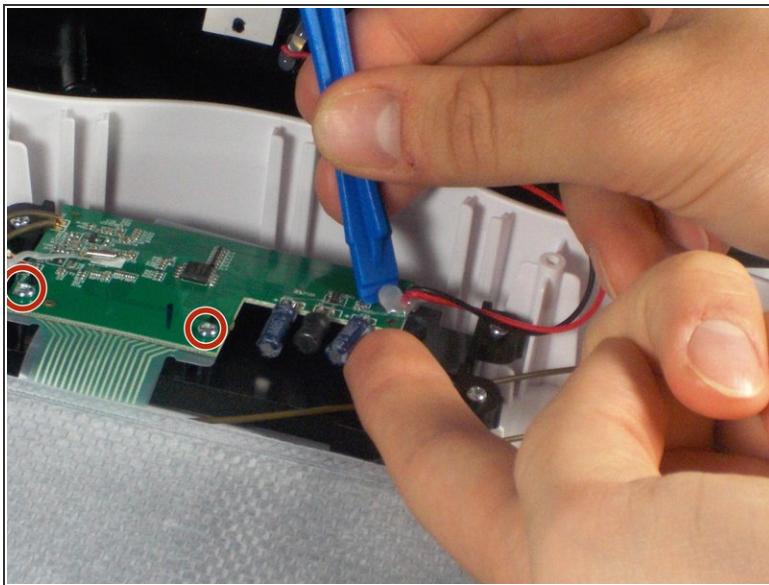
- i** Make sure to allow time for your soldering iron to heat up before using it.
- i** Make sure the tip of the soldering iron is cleaned so the tin on the tip is exposed. This will allow the soldering iron to work efficiently.

## Step 6



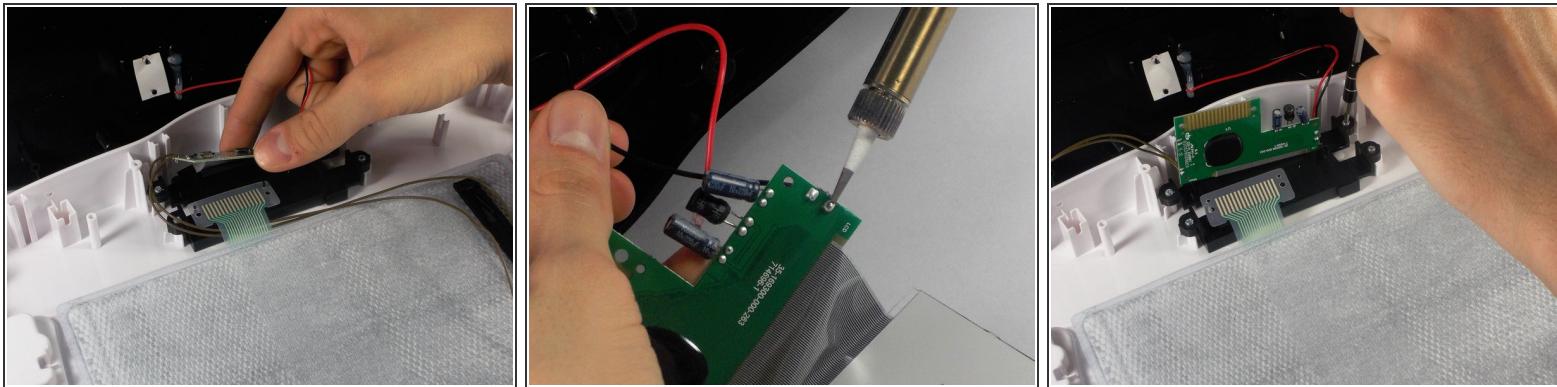
- Remove the 2 5mm PH0 Phillips screws with 10 mm heads that secure the speaker to the front of the case.

## Step 7 — Circuit Board



- The first part of this step is to remove the hot glue from the base of the wires using the plastic opening tool.
- The next step is to remove the two 7 mm long PH0 Phillips screws holding the board in.

## Step 8



- Now that the board is free desolder the two wires from the board.
- Once the wires are desoldered remove the four screws from the black plastic mounting and then take out the circuit board and screen.

**i** The ribbon cable connected to the writing surface should pop off the board easily, no soldering required!

**i** The screws in the mounting are 7 mm long PH0 Phillips head.

**!** Soldering irons and solder get very hot, ensure you are following proper procedure when desoldering the wires.

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