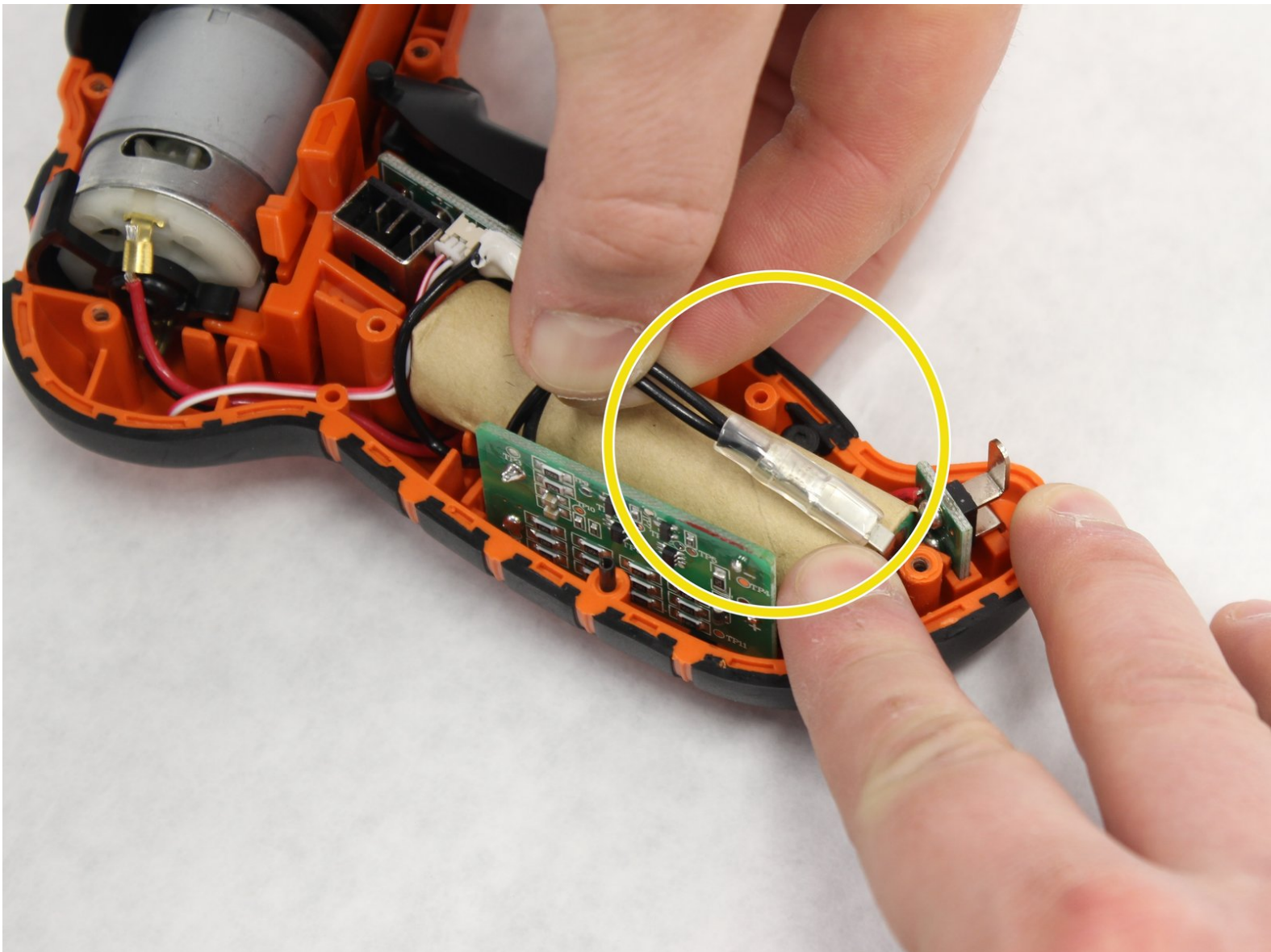




Black and Decker LI4000 Trigger/Switch Board Replacement

Replace the trigger/switch board if trigger contacts become damaged or if the switch will not allow for directional selection of the screwdriver bit.

Written By: Nigel Leitzell



INTRODUCTION

The trigger/switch board is an internal component and will require disassembly of the screwdriver casing. Due to disassembly of the casing, you will be required to use a few special tools listed in the outer casing replacement guide. Consult the outer casing replacement guide for instructions on removing the casing. Also, use caution when working on the screwdriver internally - always unplug the battery before replacing any components. This guide will also require a soldering iron and basic soldering skills for replacing the trigger/switch board.

TOOLS:

- [Heavy-Duty Spudger](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
 - [Screwdriver](#) (1)
 - [Soldering Iron](#) (1)
 - [Solder](#) (1)
-

Step 1 — Outer Casing



- Remove the stickers found on the bottom and sides of the LI4000, using a spudger.

Step 2



- Remove all six of the 12-mm long case screws with a Philips #1 Screwdriver. These screws can be found on the side of the LI4000 with the "Warning" sticker.



Step 3



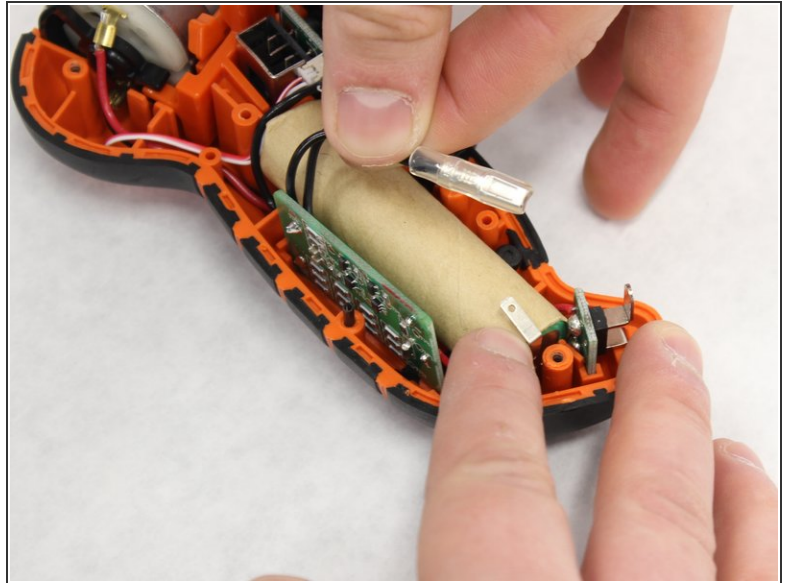
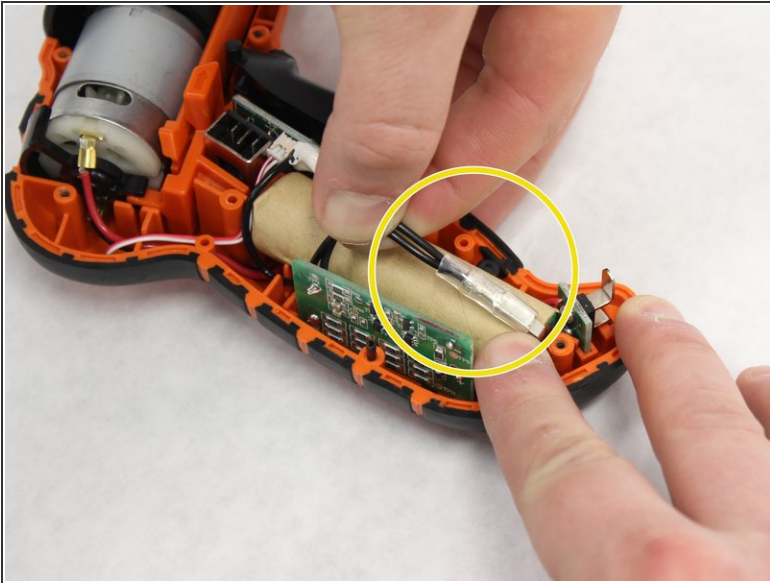
- Remove the two screws that are 4-mm Hexagonal #2.5. These are very small case screws that can be found underneath the two stickers from Step 1.

Step 4



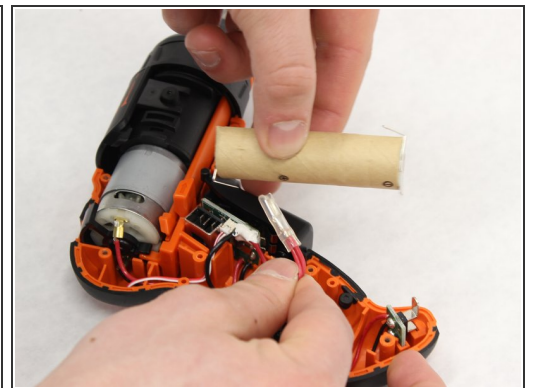
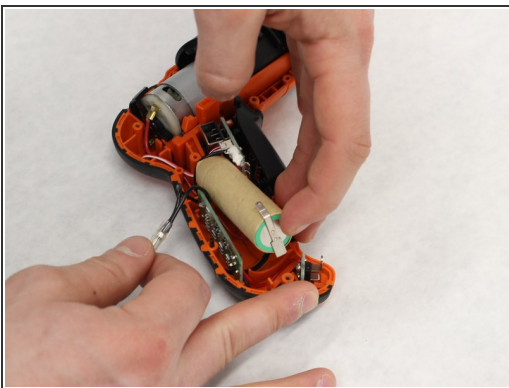
-  When working with electronics, it's important to choose a tool that's ESD-safe to avoid accidental damage to the device. The metal spudger is great when you need serious prying power, but the regular black nylon spudger or a plastic opening tool should be used whenever possible.
- Pry on the seam as shown with a Spudger, in order to get the top casing loose.
 - Pull the two sides apart while making sure the side that you are removing is the one with all of the case screw holes.
-  It is good practice to remove the top connection of the battery as shown in the third image, as this will be the first step to replacing any of the components for this screwdriver.

Step 5 — Trigger/Switch Board



- Locate the negative terminal of the battery.
- Remove the negative (black) wire by pulling back gently.

Step 6



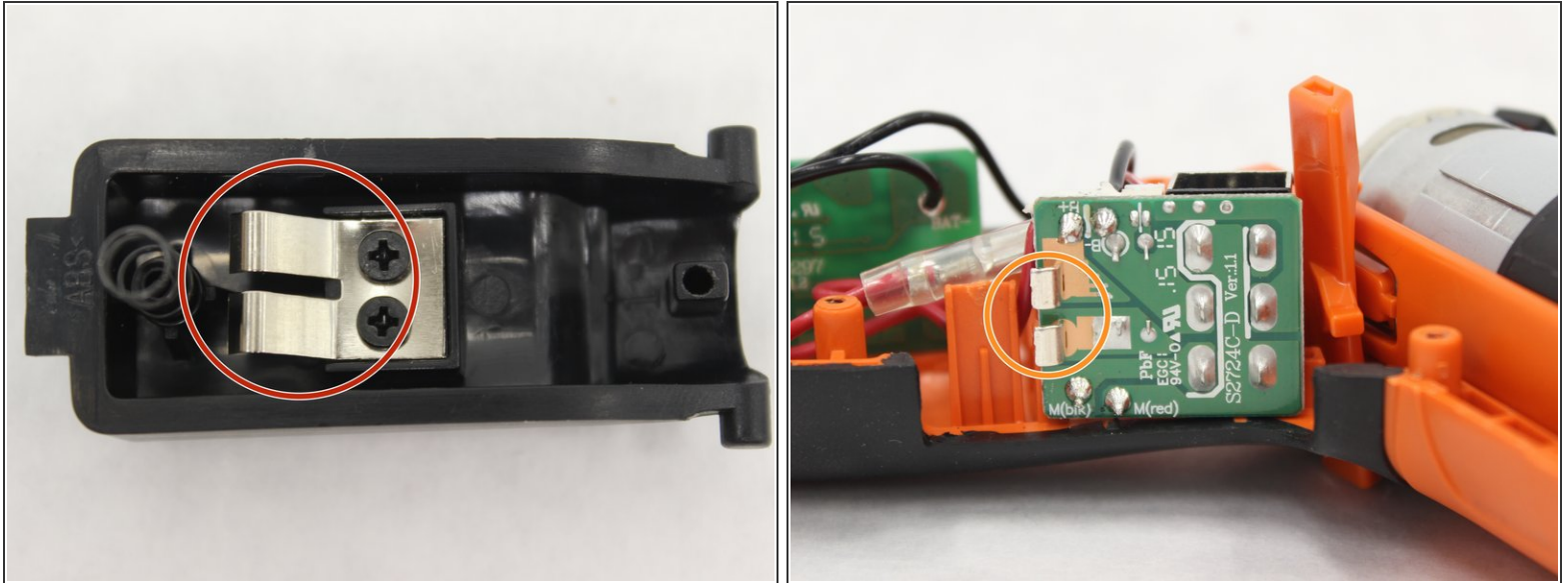
- Gently pull up on the end of the battery closest to the negative terminal. Pulling the battery up should reveal the positive (red) wire located on the opposite end of the battery.
- To free battery, gently pull back on the positive (red) wire.

Step 7



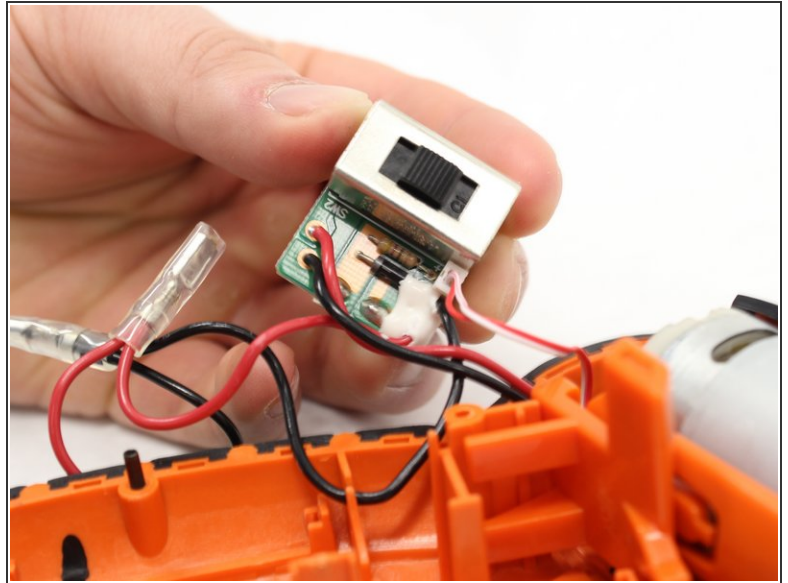
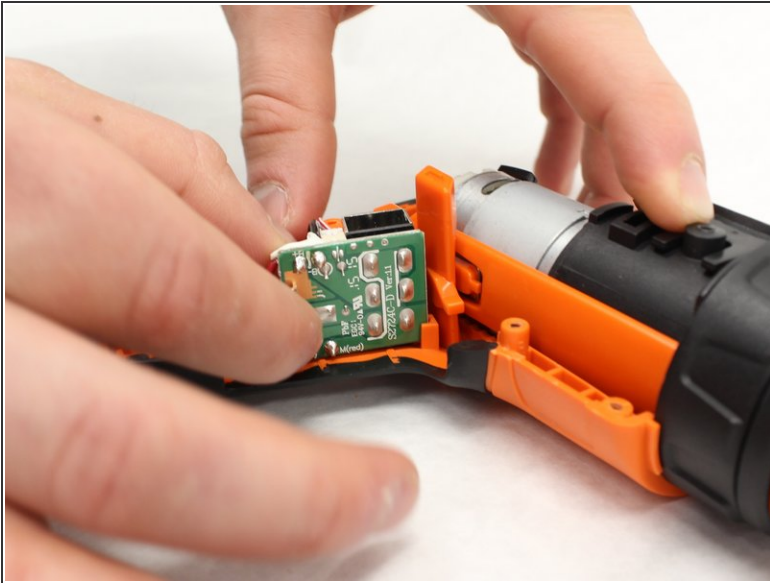
- Set battery aside in a safe place.
- Locate the trigger/switch board located directly behind the trigger.
- Gently pull the trigger directly up from it's seated position on the screwdriver.
- The trigger should be freed from the casing.

Step 8



- Inspect the trigger contacts located on the backside of the trigger for any corrosion or damage.
 - Inspect the trigger contacts located on the board for any corrosion or damage.
- ⓘ If replacing the trigger/switch board due to faulty trigger, you should inspect trigger contacts listed above to be sure there are no discontinuities or debris prohibiting full contact between the trigger and board contacts. It may be possible to fix this issue without replacing the board. If so, stop here reassemble in reverse order.

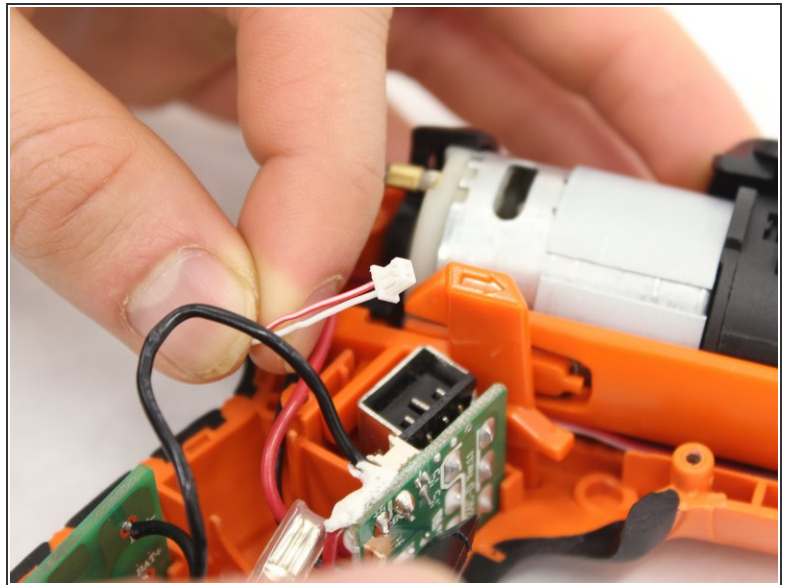
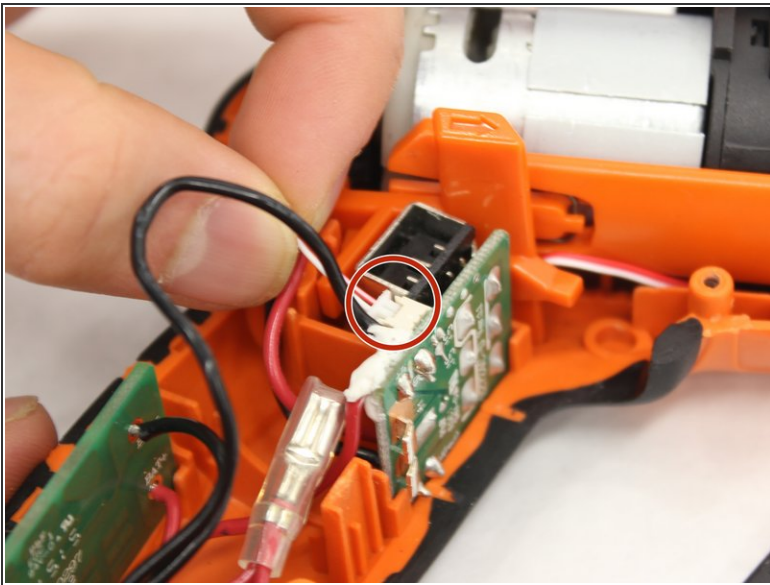
Step 9



✦ Be sure to inspect trigger contacts before moving on to this step.

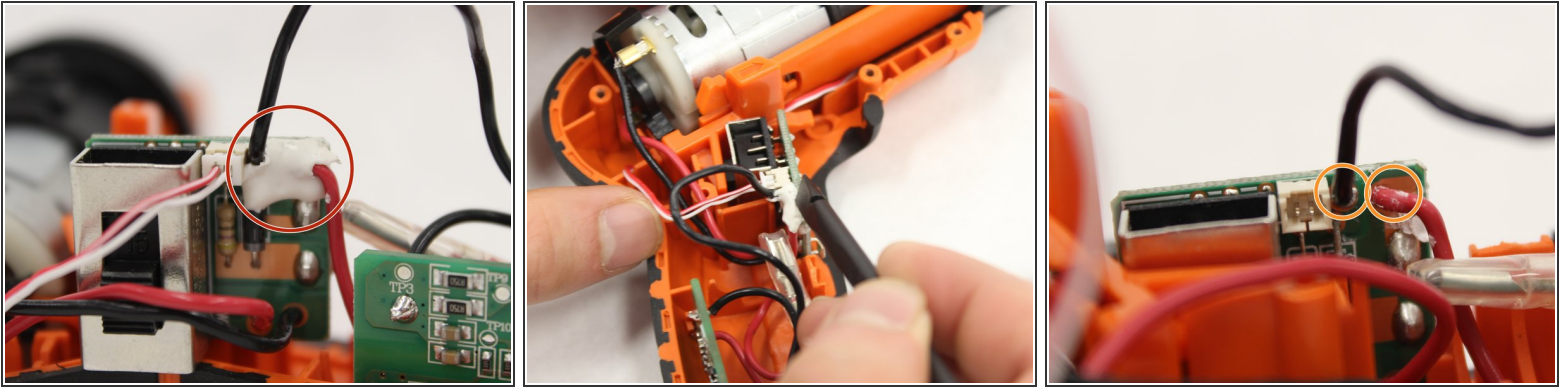
- To remove the trigger/switch board, gently pull the board directly up - away from casing.

Step 10



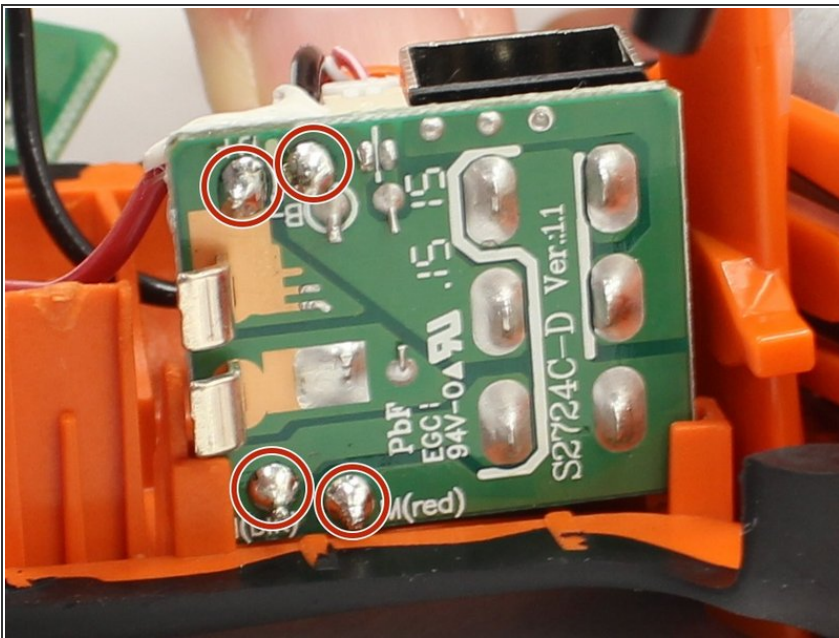
- Locate the plug wire with red and white wires leading the trigger/switch board.
- Remove the plug wire from the trigger/switch board by gently pulling back on wire.

Step 11



- The white adhesive will need to be removed with a plastic spudger.
- Gently scrape away all of the white adhesive until wires are fully exposed on the trigger/switch board.

Step 12



- To replace trigger/switch board, use a soldering iron to remove the four soldering joints shown.
- ⓘ iFixit has a quick tutorial on soldering [here](#)

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