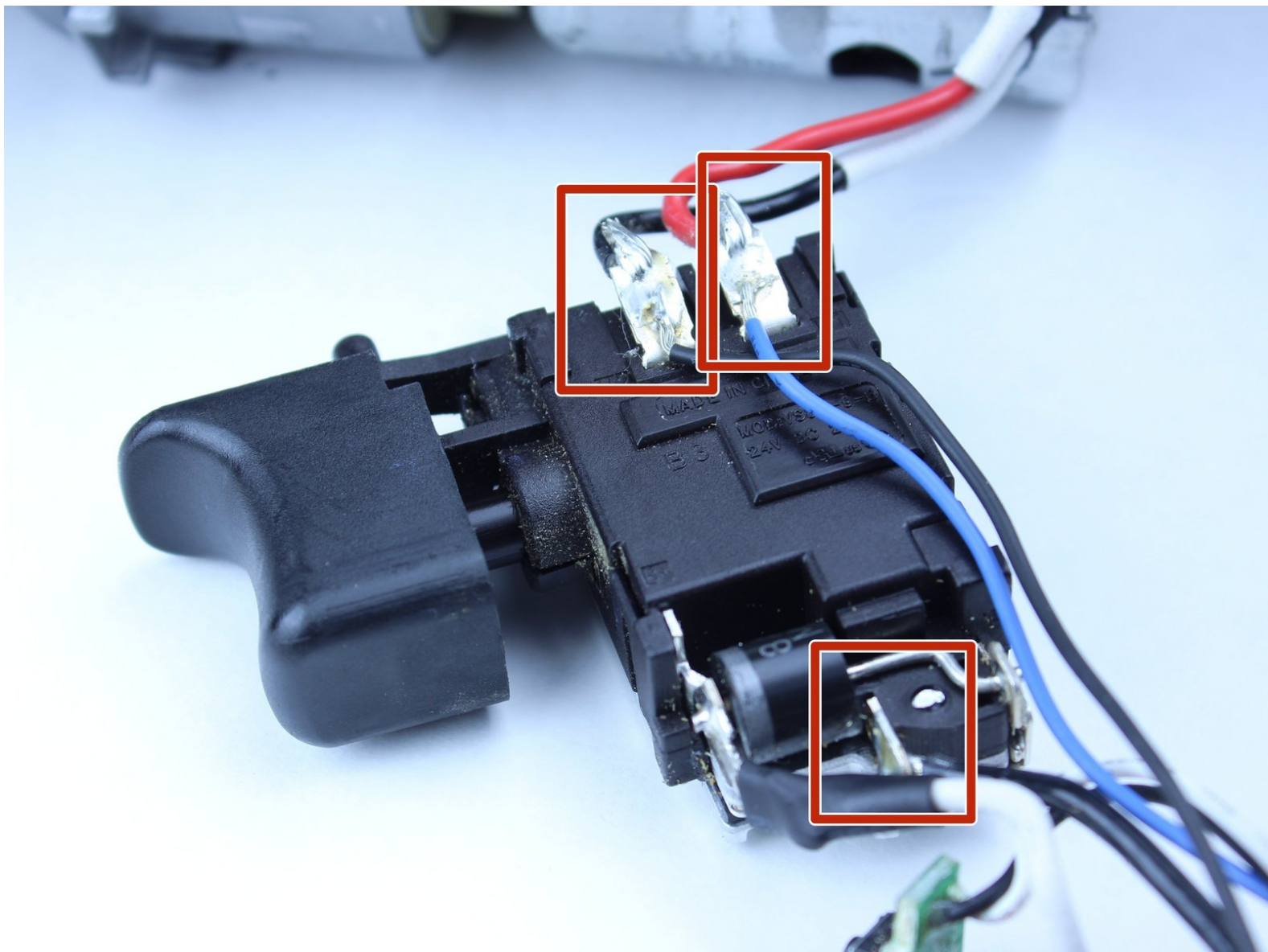




# Ridgid R86034 Trigger Assembly Replacement

Replace a broken trigger assembly to return your RIDGID X4 18V Lithium-Ion Impact Driver to working condition.

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## INTRODUCTION

The trigger is a multi-speed switch and requires replacing the whole assembly. Soldering is necessary for this guide. Please familiarize yourself with the iFixit guide on [Soldering](#) before starting.

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### TOOLS:

- [Metal Spudger](#) (1)
  - [T10 Torx Screwdriver](#) (1)
  - [Soldering Workstation](#) (1)
  - [Wire Stripping/Crimping Tool](#) (1)
  - [Flush Wire Cutters](#) (1)
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## Step 1 — Disassembling Ridgid R86034 Housing



- Use the flat side of a metal spudger to peel the black rubber cover off of the casing.
- ⓘ Use some force; the rubber cover is securely attached to the housing.
- ★ Rotate the casing until it fits onto the housing with no gaps between it and the clear cover.
- ⓘ Orientation is important when putting the rubber cover on the casing.

## Step 2



- Remove the plastic cover with your hands.
- ⓘ There is no need to force off the plastic cover. The plastic cover should be much easier to remove than the rubber cover.



### Step 3



- Unscrew the four 16 mm long screws from the back panel with a T10 Torx Screwdriver.
- Use a firm grip to peel off the back panel. It is sealed tight and requires a good amount of force to remove.

### Step 4



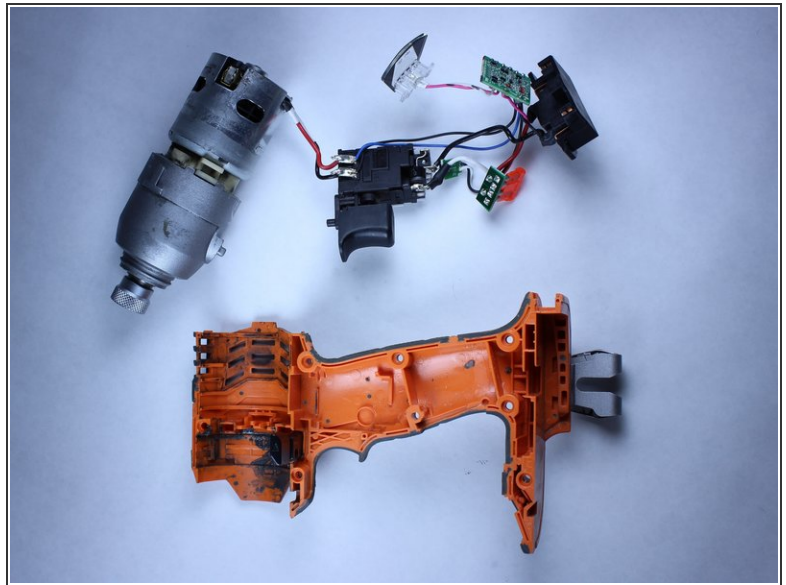
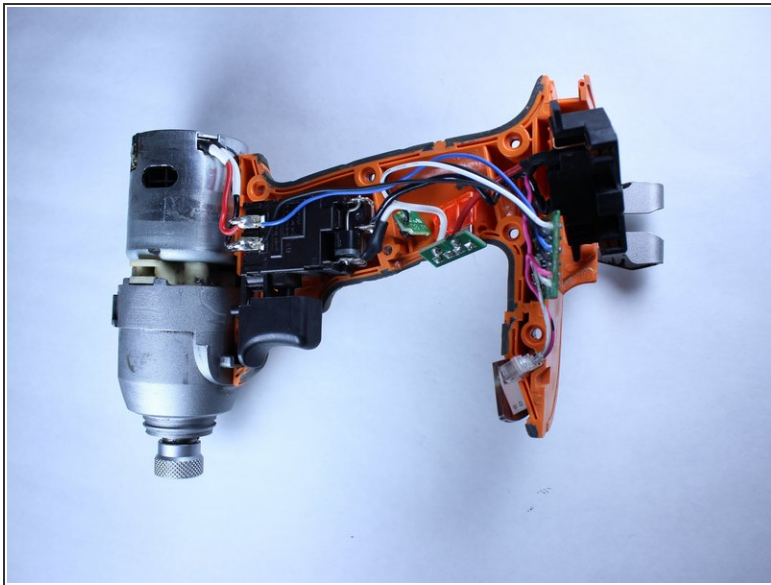
- Unscrew the eight 15 mm T10 Torx screws from the housing
- ⓘ The screw hole located nearest the battery port is deep and small. Most screwdrivers with replaceable bits will **not** fit into the hole. Instead, use a conventional screwdriver that fits.

## Step 5



- ⚠ Place the driver flat on a table before completely separating the two halves of the housing so components of the drill don't fall out during opening.
- Pry apart the two halves of the housing at the back side of the driver using the metal spudger.
- ⓘ The housing is easier to remove if you pry from multiple sides.

## Step 6

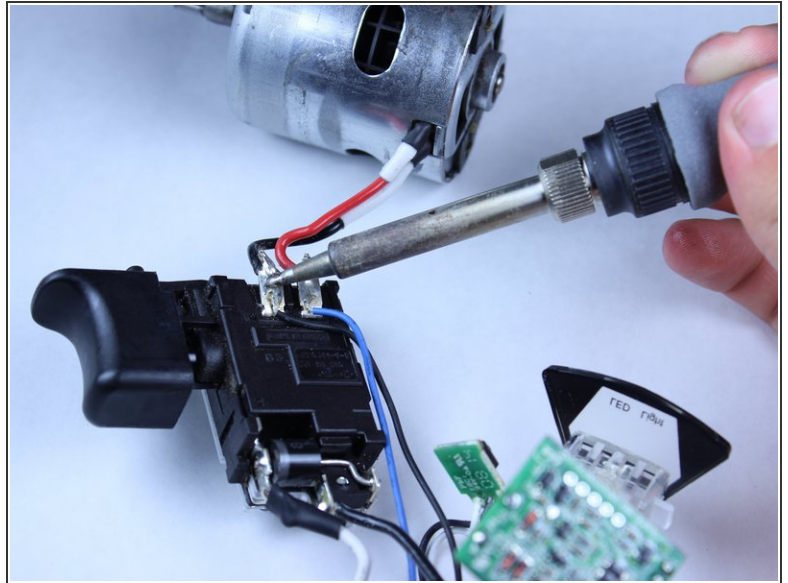
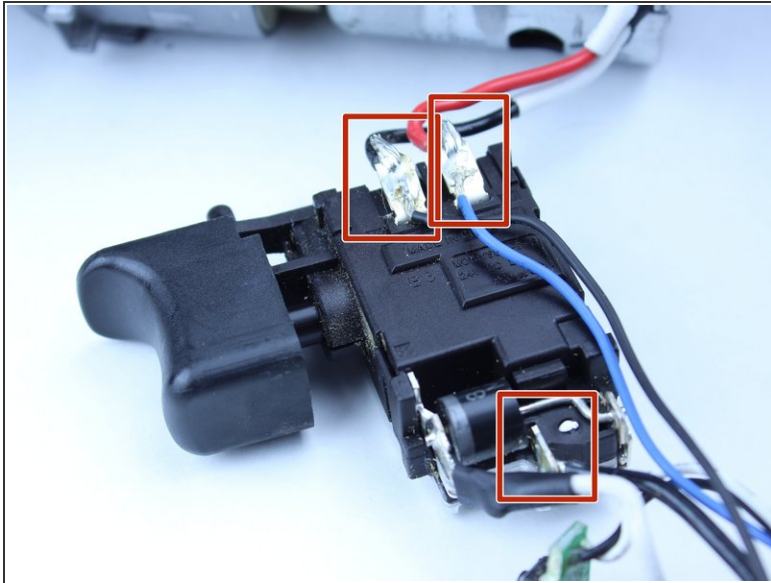






Do not remove the direction switch.

- Pull out **all** electrical components from housing by hand.
  - Lift out the motor.
  - Follow the wires.
- ⓘ The components should come out of their respective slots with ease and require little force to lift out.
- ⚠ The circuit board located nearest the battery pack and the LED light will be hard to pull out.
- 📌 Remember to precisely place all components in their correct slots with their correct orientations when reassembling.

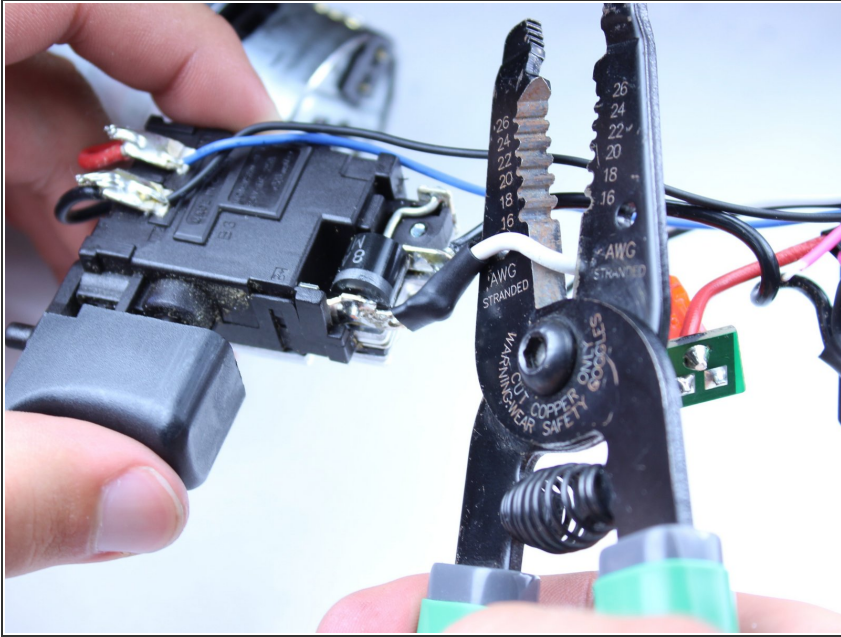


## Step 7 — Trigger Assembly



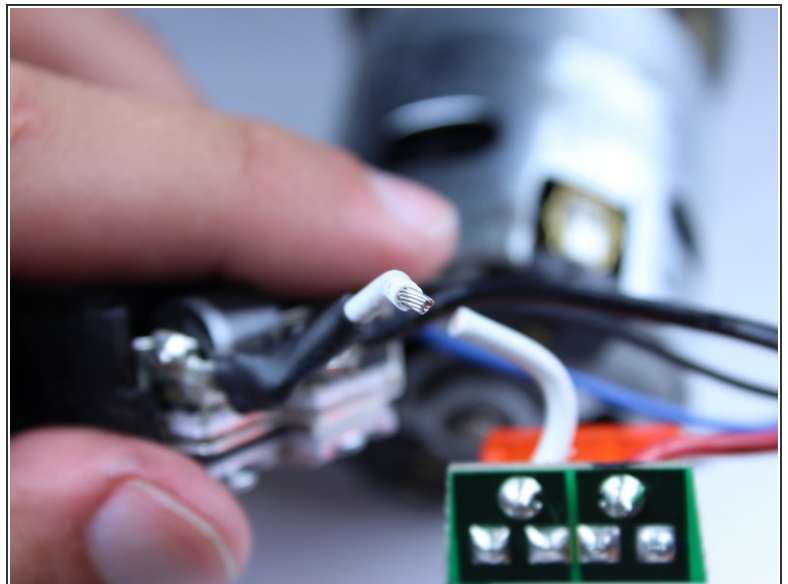
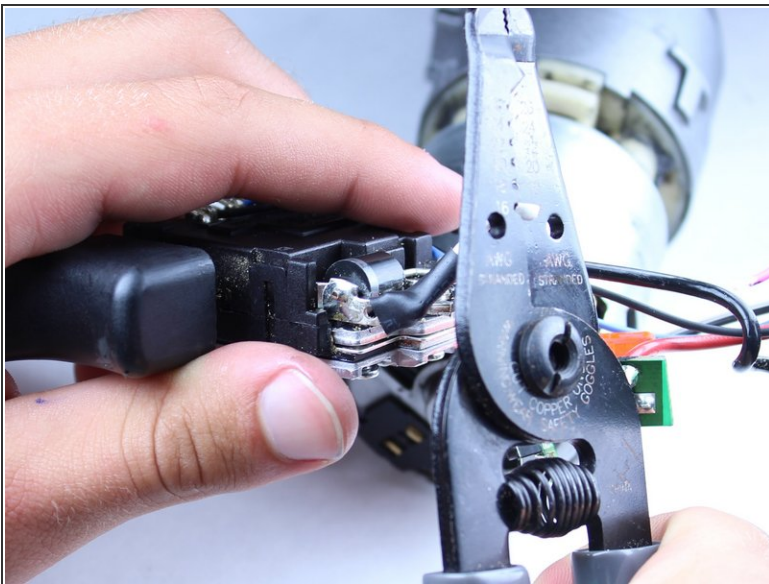
-  **DO NOT** attempt to desolder the white shrink wrapped wire located at the bottom left of the trigger assembly. It requires advanced soldering techniques and isn't necessary.
-  The soldering iron is hot and could burn you.
-  Take note of where each wire is attached to the trigger assembly for resoldering the new trigger.
  - Use the soldering iron to desolder and remove the red, blue, and three black wires.
-  If you don't know how to desolder, or need to brush up on your skills, iFixit posted a [How To Solder and Desolder Connections guide](#).

## Step 8




- Use the wire cutters to cut the white wire, as close to the terminal on the trigger assembly as possible.

## Step 9



 The following steps are for your new trigger assembly.

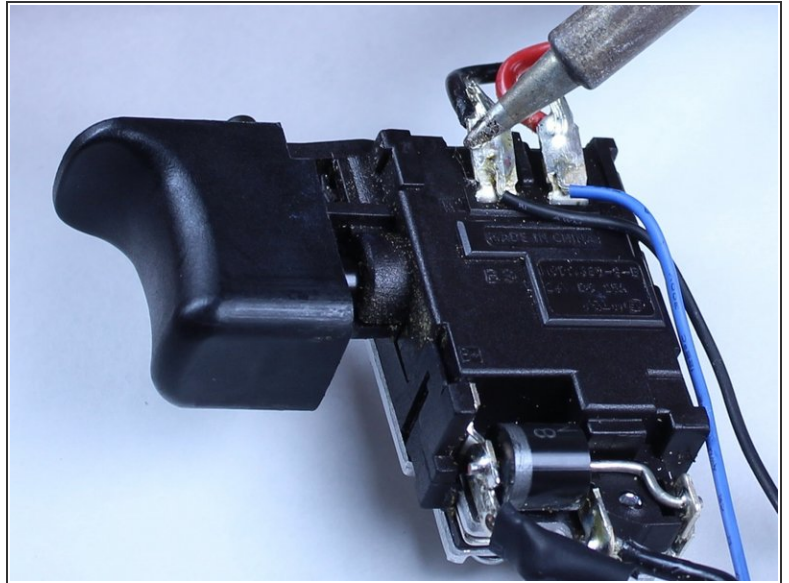
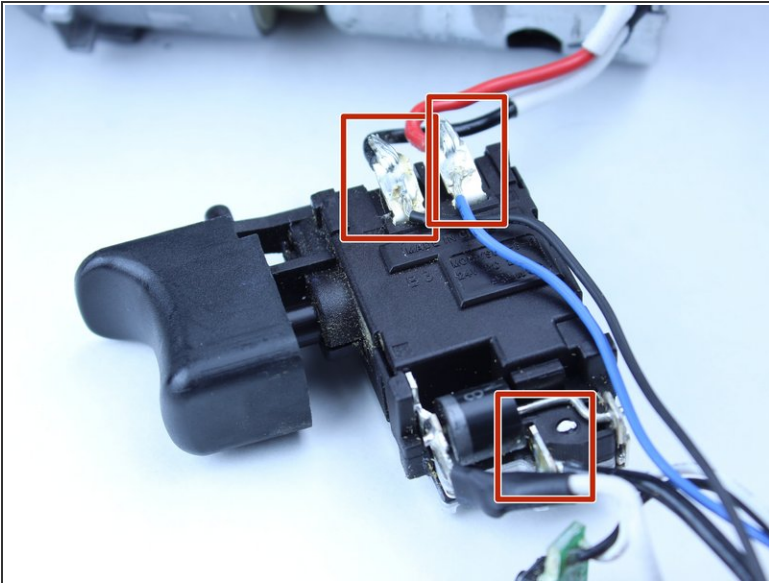
 Be careful not to cut the wire while stripping the insulation off.

- Using 16 gauge wire strippers, strip about one quarter inch off both the white wire of your **new** trigger assembly, and the white wire coming out of the translucent orange fuse.

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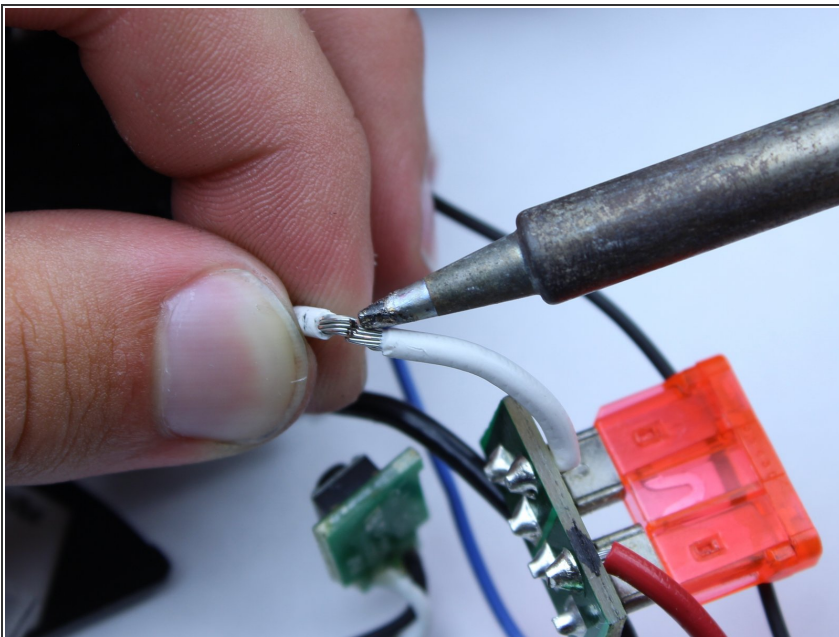
## Step 10



The soldering iron is hot and could burn you.

- Solder the red, blue, and three black wires to their respective spots on the new trigger assembly.
- ☑ Be sure to attach each wire to the same location on the new trigger assembly as it had been on the old the one.

## Step 11



The soldering iron is hot and could burn you.

- Solder the two loose ends of the white wires together.
- Wrap the joint with electrical tape, to ensure that the circuit doesn't short.

To reassemble your device, follow steps one through seven in reverse order.