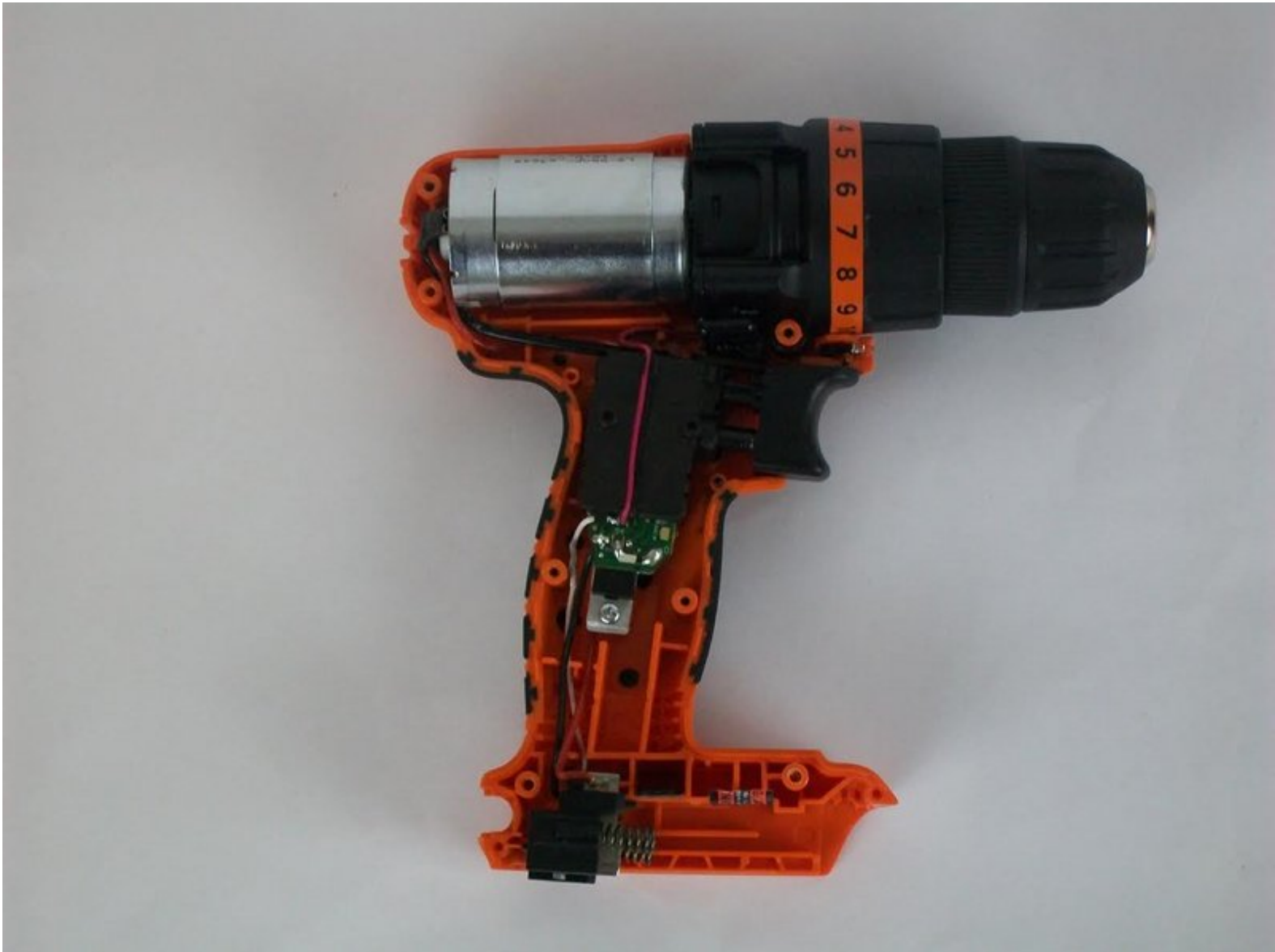




Black and Decker LDX 120C Safety switch and trigger chip Replacement

Replacement of safety switch and trigger chip on Black and Decker LDX 120C drill.

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INTRODUCTION

Guide to replacing a stuck or jammed safety switch or trigger chip.



TOOLS:

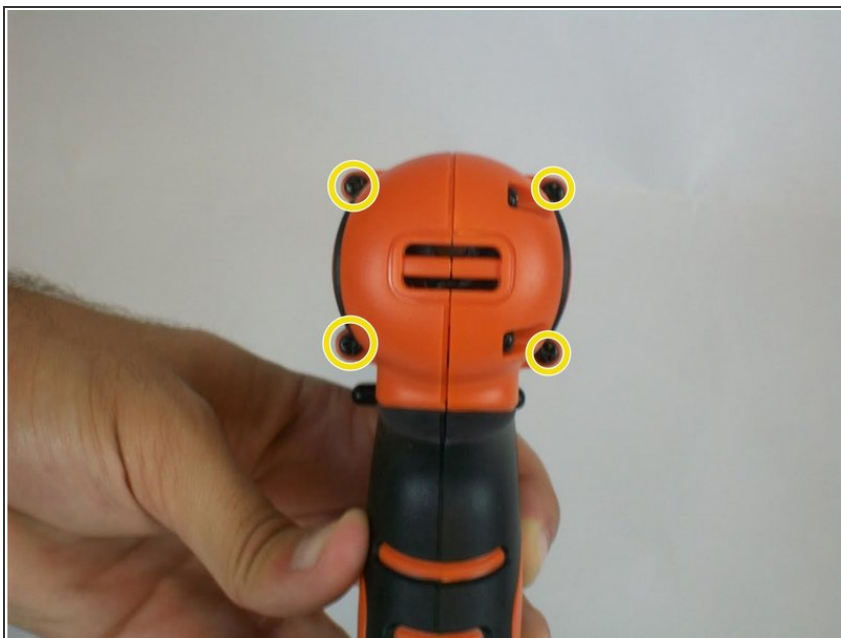
- [iFixit Pro Tech Toolkit](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Wire cutters/side cutters](#) (1)
-

Step 1 — Outer Case



- For this guide we will need to use a 1.0 mm phillips #1 screw.
- There are a total of thirteen screws that need to be removed in order to open the drill and access the interior components.

Step 2



- Remove the four screws on the back top side of the drill.

Step 3



- Remove the four screws that connect the chuck to the drill.

Step 4



- Remove the five screws on the front side of the drill.

Step 5



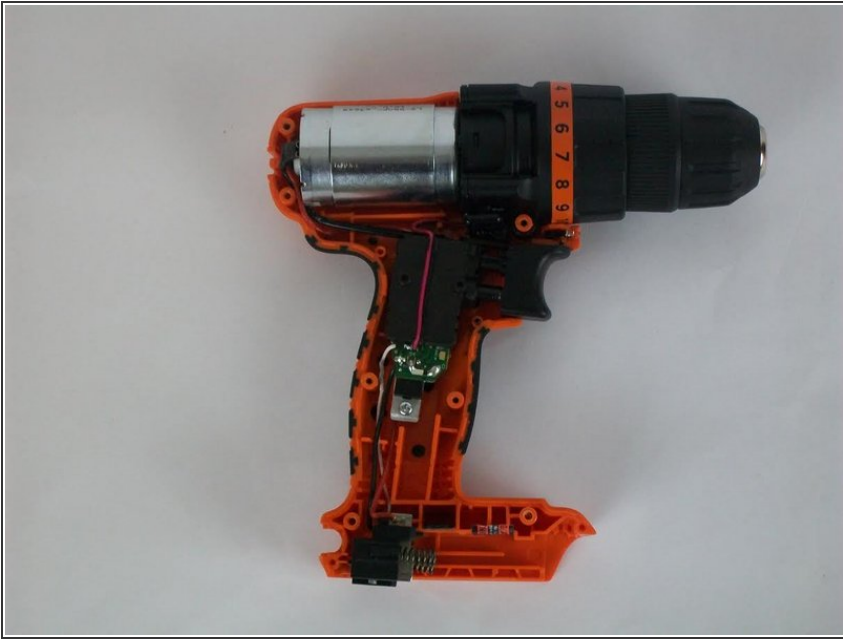
- Gently grab both sides of the drill casing, and separate both sides from each other.

Step 6



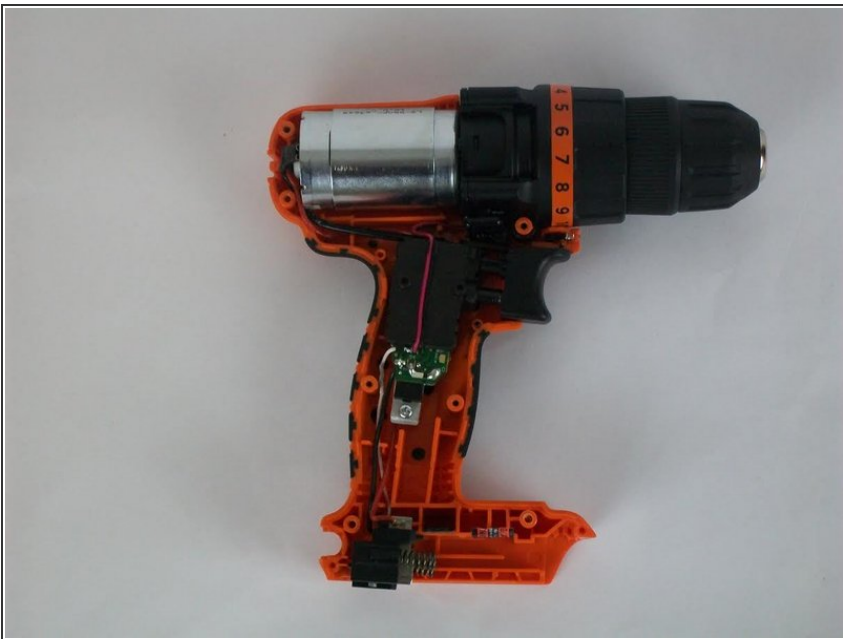
- At this point you should be able to separate both as illustrated.

Step 7



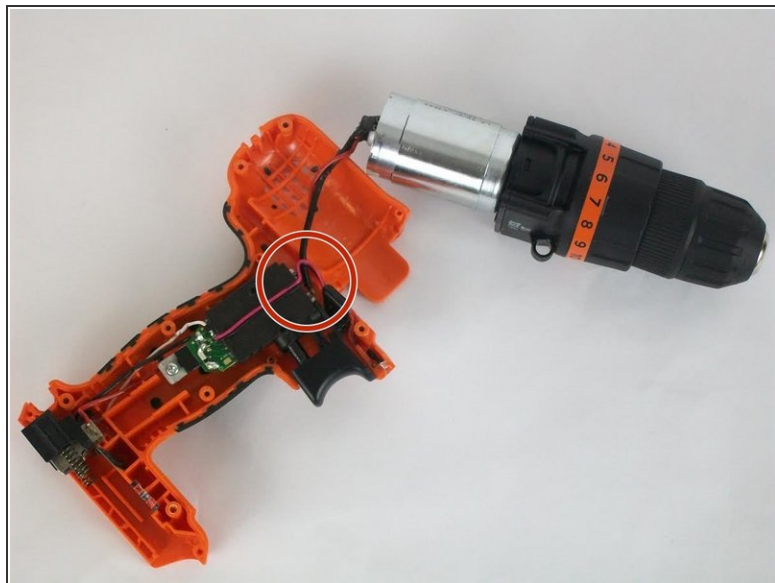
- Now all the components of the drill are visible and can be accessed.

Step 8 — Safety switch and trigger chip



- After following the prerequisite guide, the interior components of the drill can now be accessed.

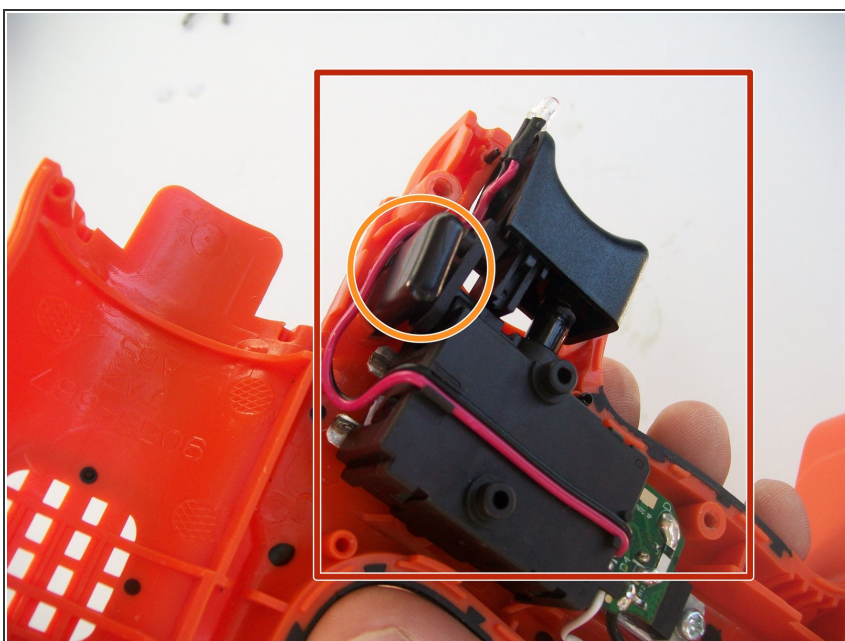
Step 9



- Gently remove the chuck and motor assembly from the drill case.
- Disconnect the wire connecting the motor and trigger chip.

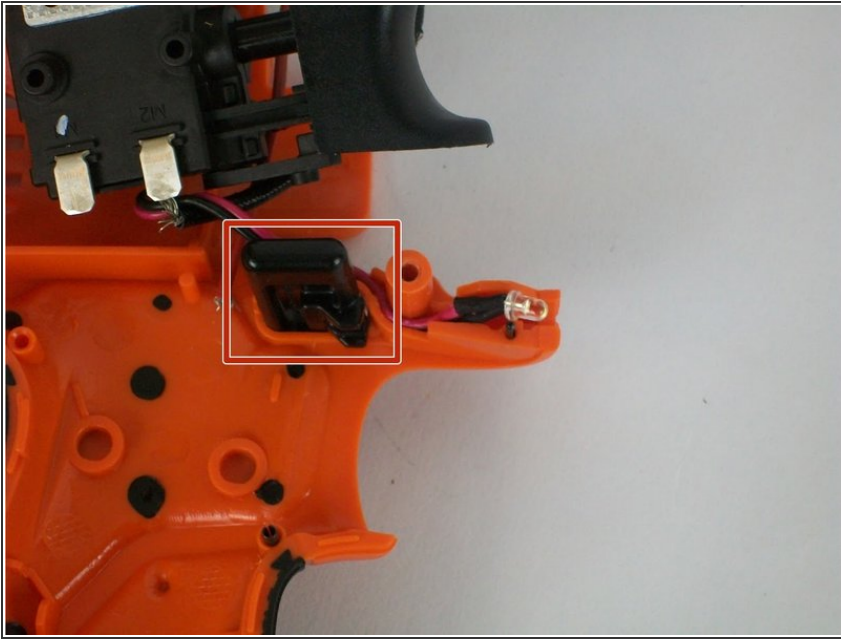
 **Do not damage wire connections**

Step 10



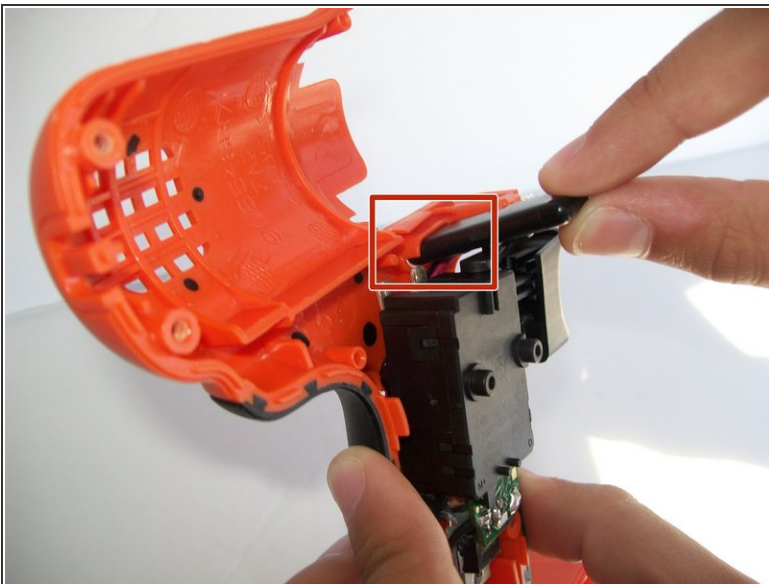
- Remove the trigger chip assembly from the drill.
- Do not remove the safety switch yet.

Step 11



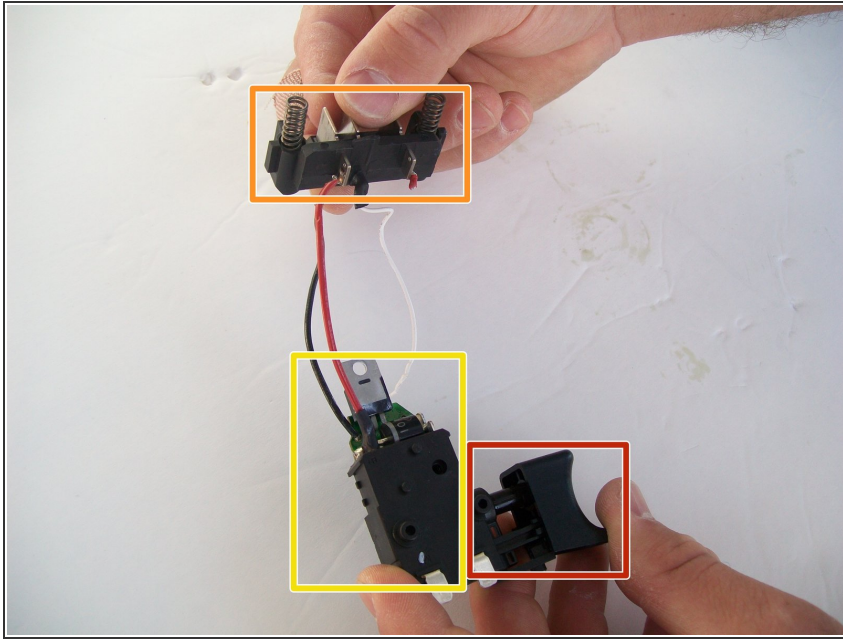
- Check if the safety switch is jammed or broken.
- If jammed, move any wires or other objects blocking the switch's path.
- If broken, replace the safety switch.

Step 12



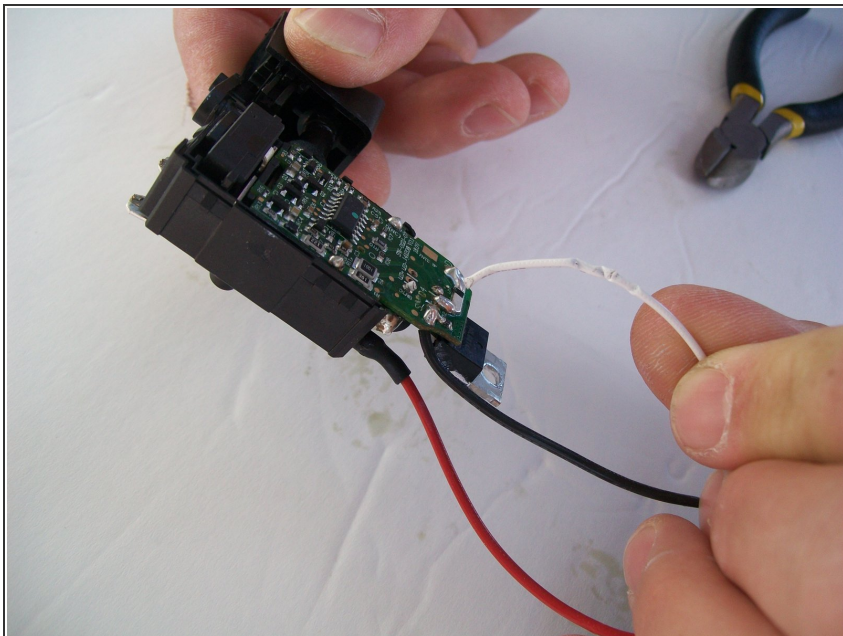
- To replace, gently remove the old safety switch from the drill casing.
- After the old safety switch has been removed, a new one may be inserted.

Step 13



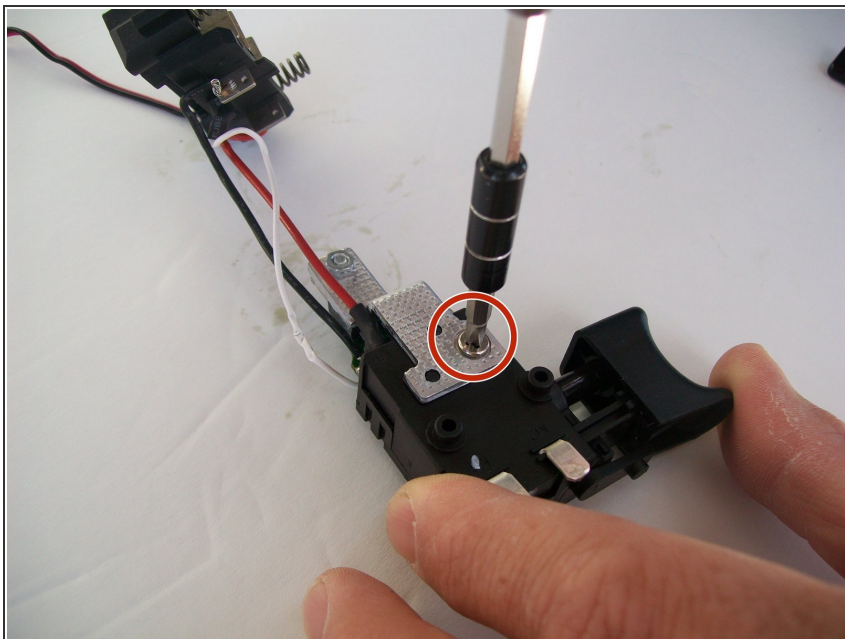
- The trigger is indicated by the red box.
- The battery connector is indicated by the orange box.
- The trigger chip is indicated by the yellow box.

Step 14



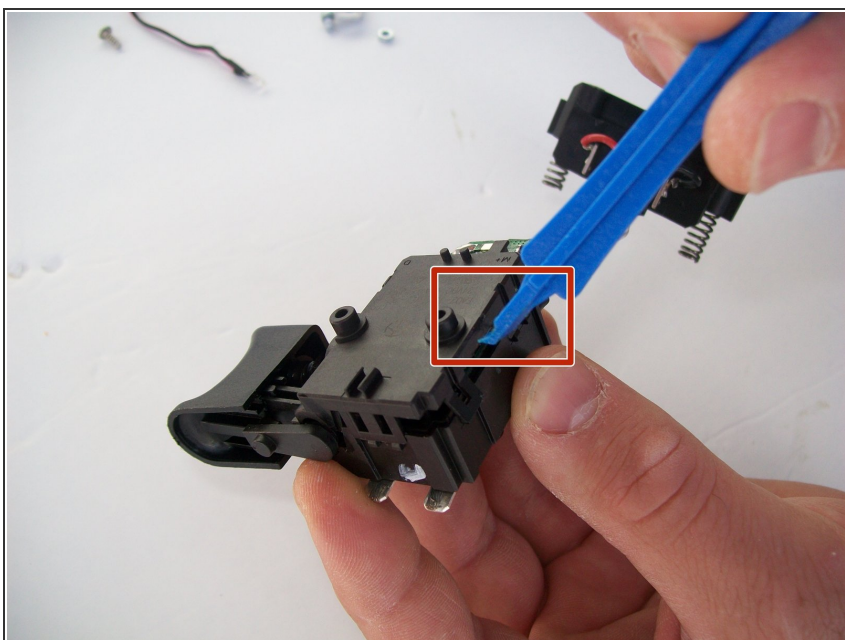
- Check that all visible wire connections are intact.

Step 15



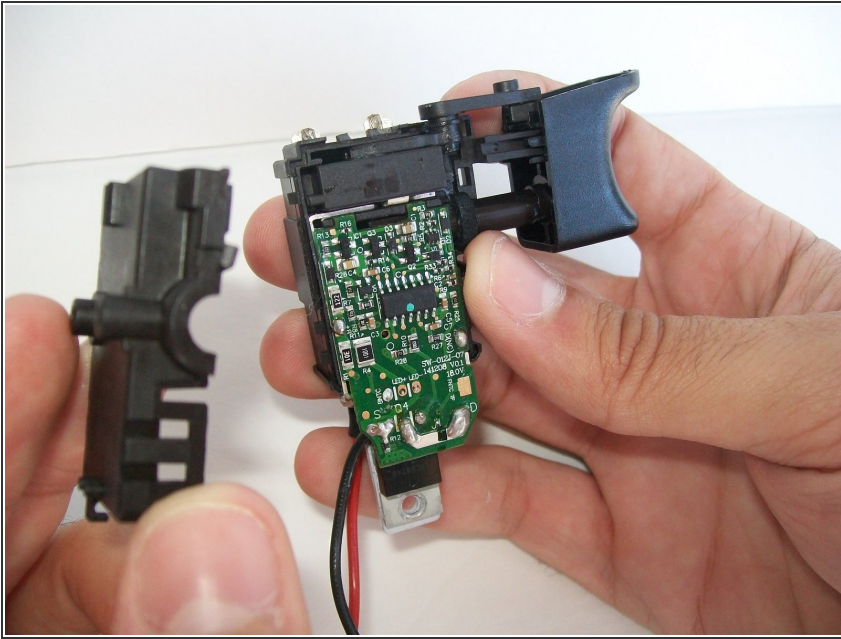
- Remove trigger chip panel to access wire connections to the chip.
- Using a Phillips head screwdriver, remove the screws as indicated.

Step 16



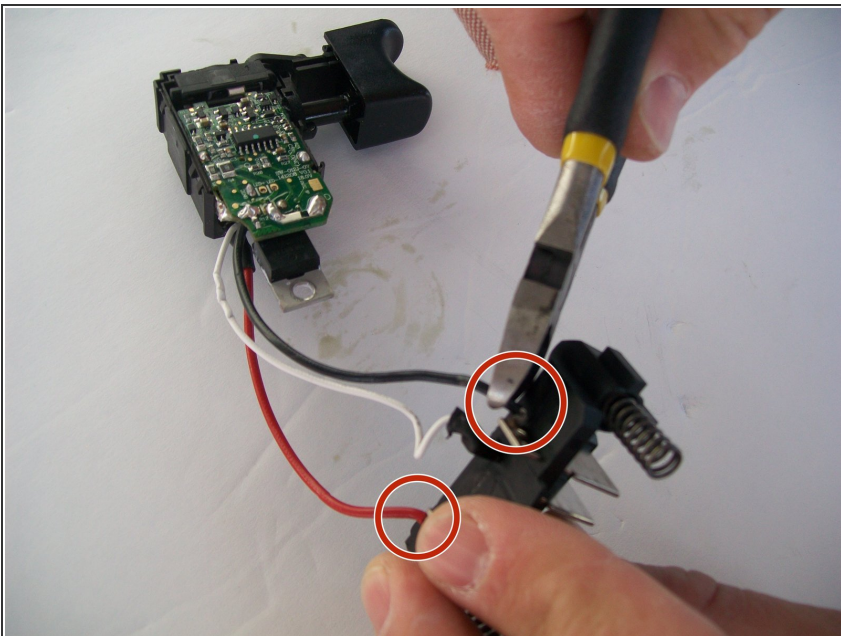
- Use a plastic pry tool to gently pry open the trigger chip compartment.

Step 17



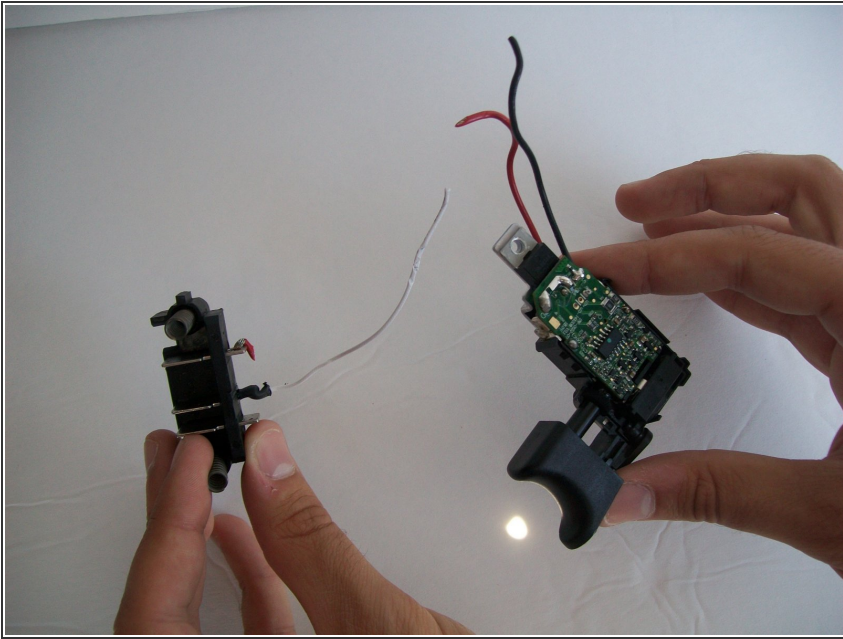
- After prying open the chip compartment, the connections will be visible.
- Check the connections for damage or disconnection. Reattach as necessary.
- If the connections do not seem to be damaged, the chip itself may be broken and must be replaced.

Step 18



- To replace trigger chip, remove wire connections between battery connector and trigger chip using a pair of sidecutters.
- ⓘ To prevent damage to the trigger chip, desolder the wires instead of cutting them. Learn more about desoldering [here](#).

Step 19



- With wires removed, the trigger chip may be replaced.

To reassemble your device, follow these instructions in reverse order, re-soldering wires where necessary.