



# Ridgid R86034 LED 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.

### TOOLS:

- [T10 Torx Screwdriver](#) (1)
- [T15 Torx Screwdriver](#) (1)
- [Soldering Workstation](#) (1)
- [Metal Spudger](#) (1)
- [Wire stripper/crimping tool](#) (1)
- [Flush Wire Cutters](#) (1)

## Step 1 — Disassembling Ridgid R86034 Housing



- Use the flat side of a metal spudger to peel the black rubber cover off of the casing.
  - The rubber cover is securely attached to the housing so some force is necessary.
- When putting the rubber cover back, remember that its orientation is important. Rotate the casing until it fits onto the housing with no gaps between it and the clear cover.

## Step 2



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

## Step 3



- Unscrew the four 16 mm long screws from the back panel with a T10 Torx Screwdriver.
- Use a firm grip to peel the the back panel off. 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

*(i)* 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.

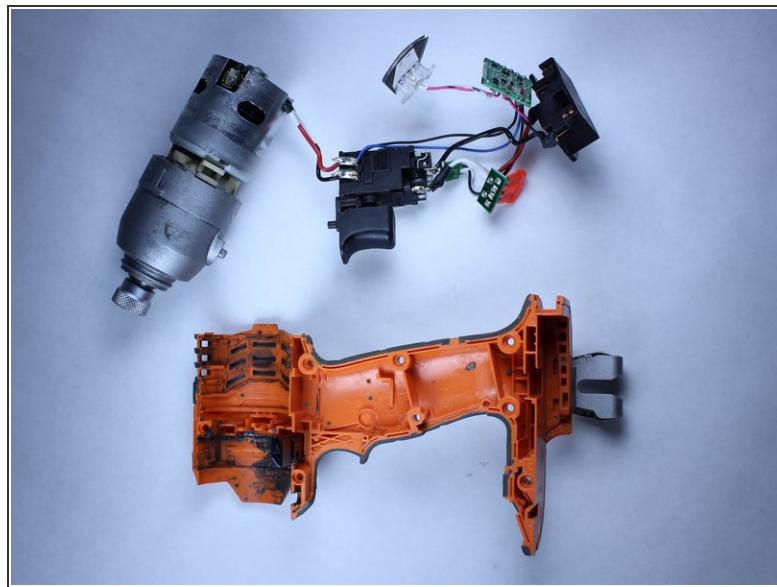
## Step 5



**⚠** Place the driver flat on a table before completely separating the two halves of the housing so components 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.

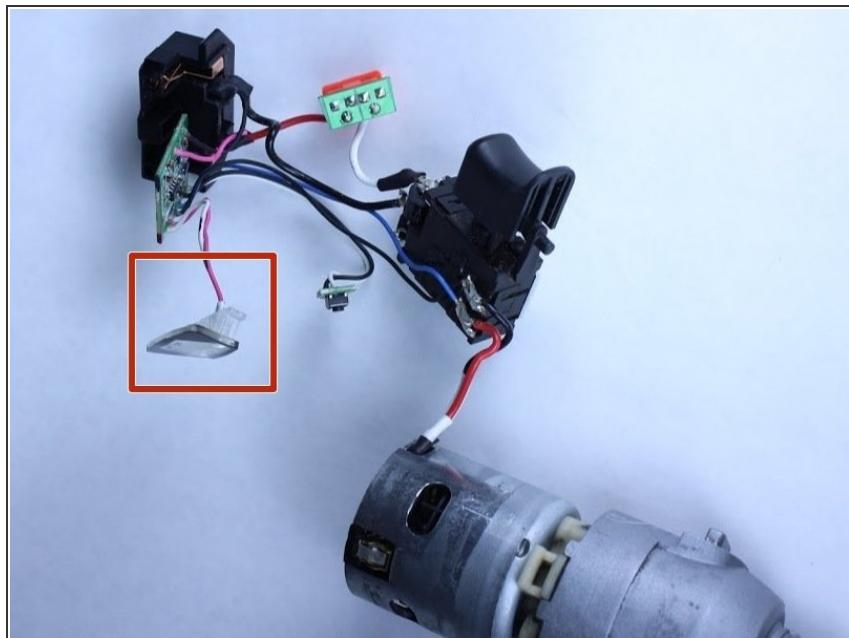
## Step 6



⚠ Do not remove the direction switch. It isn't necessary.

- Pull out **all** electrical components from housing by hand. First, lift out the motor. Next, follow the wires, lifting out components until all components are outside of the housing.
- With two exceptions all of 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.
- When reassembling remember to precisely place all components in their correct slots with their correct orientations.

## Step 7 — LED



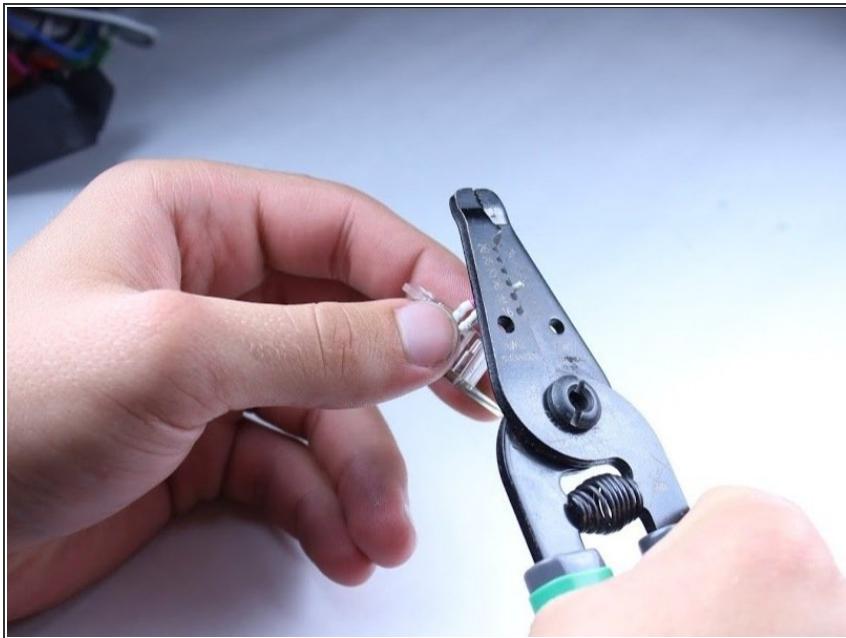
- Identify the LED light. Look for the component with clear casing with two wires attached located toward the bottom of the driver.

## Step 8



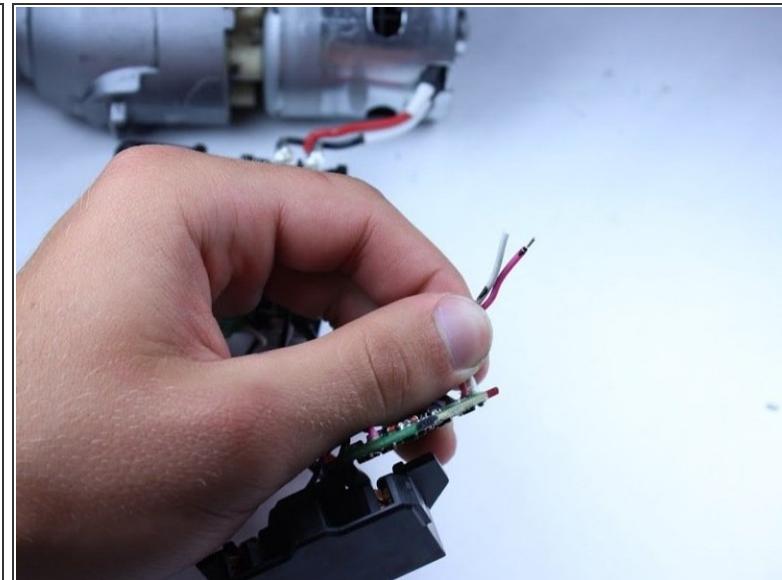
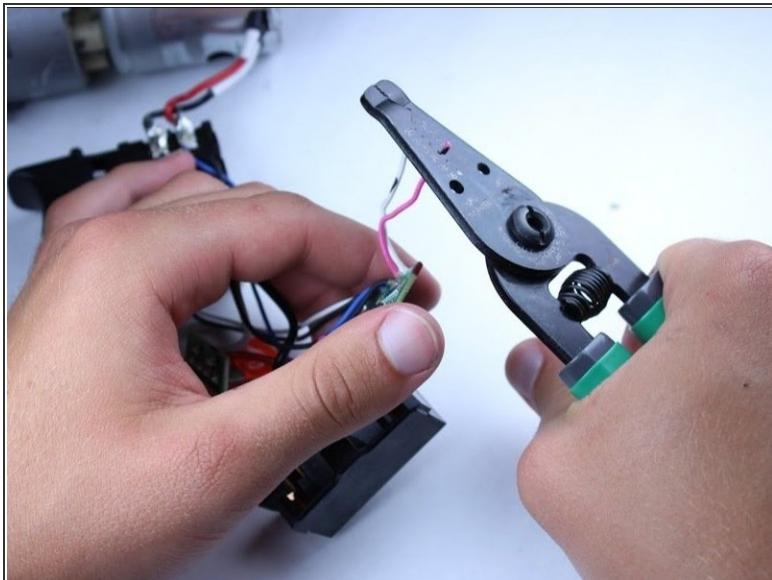
- Cut the pink and white wire attached to the LED as a little more than a quarter inch from the LED.

## Step 9



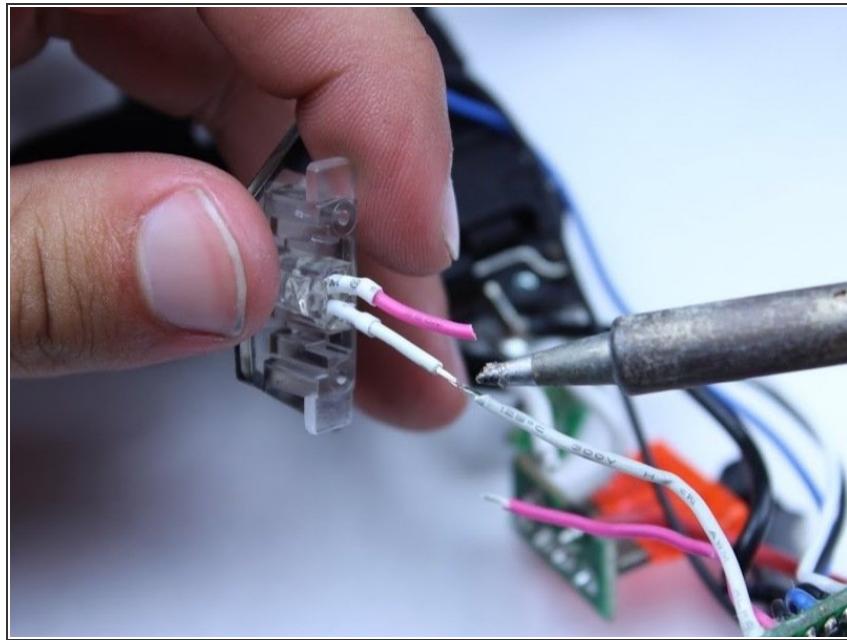
- Strip the wires on the LED by a quarter inch.

## Step 10



- Strip the wires that were connected to the LED on the circuit board about a quarter inch.

## Step 11



- Solder the new LED with striped wires to the wire attached to the circuit board.
- Wrap the newly soldered connection with electrical tape to ensure that the circuit isn't shorted.

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