



Havoc Heli IR LED Replacement

This guide shows how to replace an Infrared LED in the remote control for a Havoc Heli remote helicopter.

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INTRODUCTION

Before beginning this repair, you should be familiar with soldering a circuit board. The soldering skills needed aren't very in-depth, but you'll be working very close to some other components.



TOOLS:

- [Soldering Iron](#) (1)
- [Solder](#) (1)
- [Small Phillips Head Screwdriver](#) (1)
- [Masking Tape](#) (1)
- [Desoldering Braid](#) (1)



PARTS:

- [Infrared LED](#) (1)

Step 1 — Havoc Heli IR LED



i Power off the controller before disassembly.

- Place a small piece of tape over the Light button to prevent it from falling out in later steps.
- Flip the controller over so the back is facing up.

Step 2



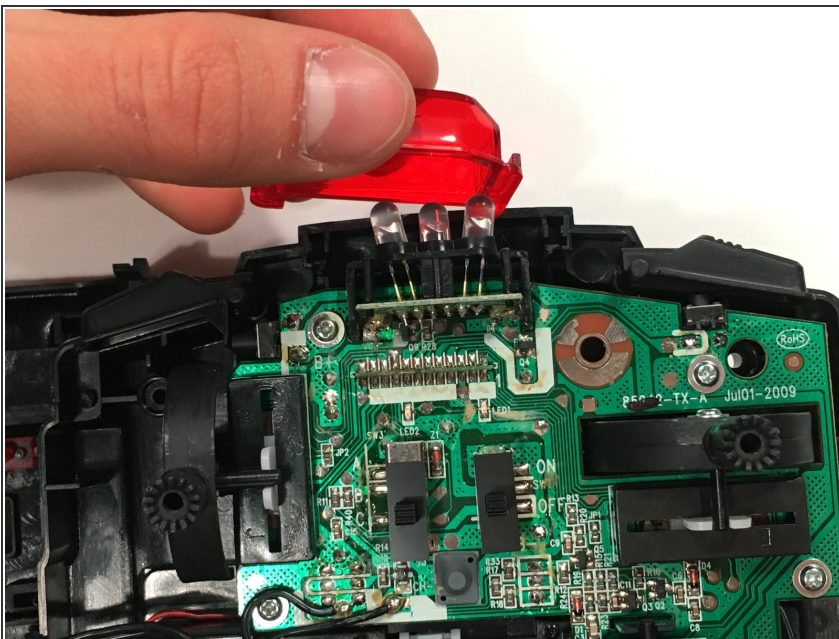
- Remove the battery compartment screw with a small Phillips screw driver.
- Lift off the battery cover.
- Remove the six AA batteries from the compartment.

Step 3



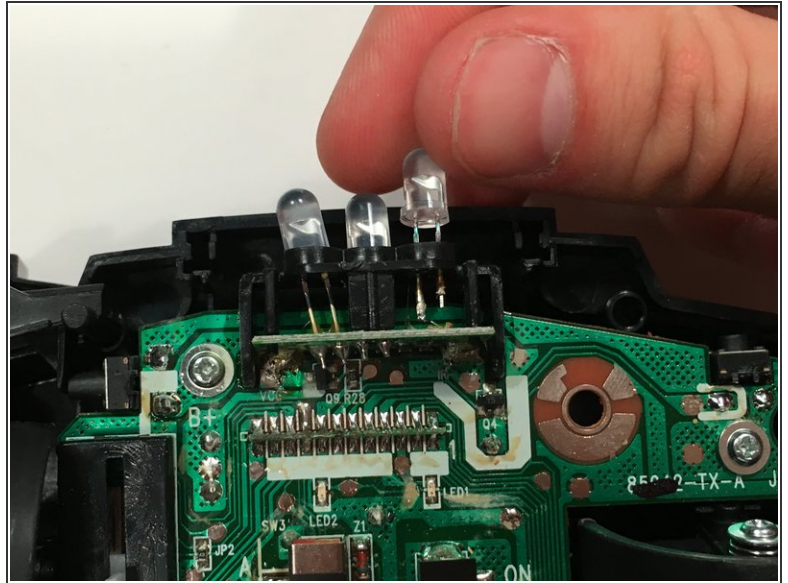
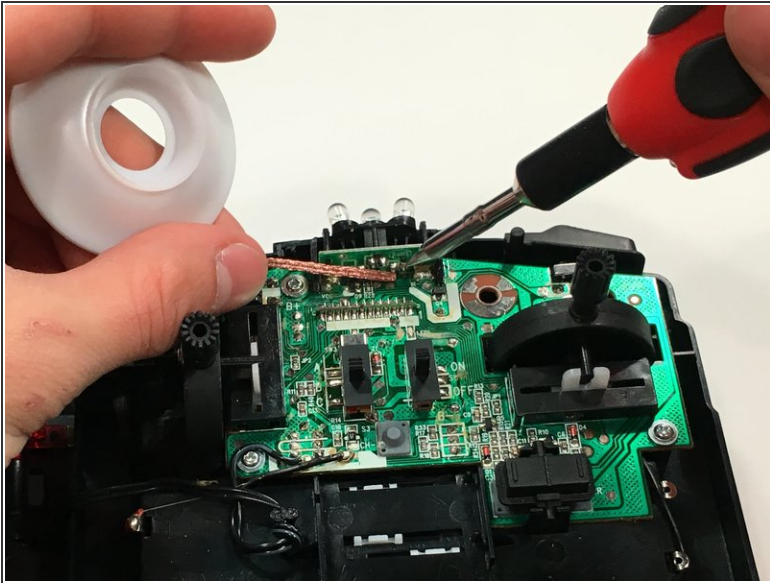
- Remove the remaining four screws with a small Phillips screw driver.
 - Flip the device over so the front is facing up.
 - Remove the front cover and place it to the left side.
- ⚠ Make sure to note the locations of the joysticks and other controls in case they fall out of place during this or future steps.

Step 4



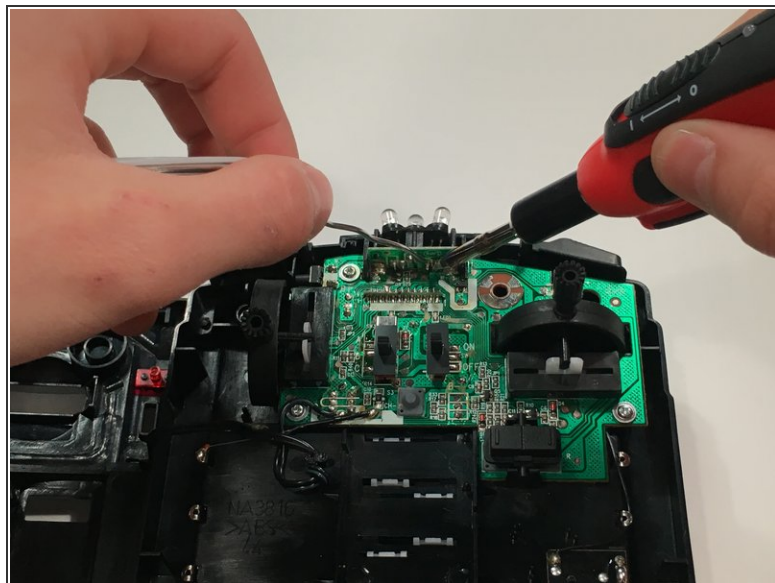
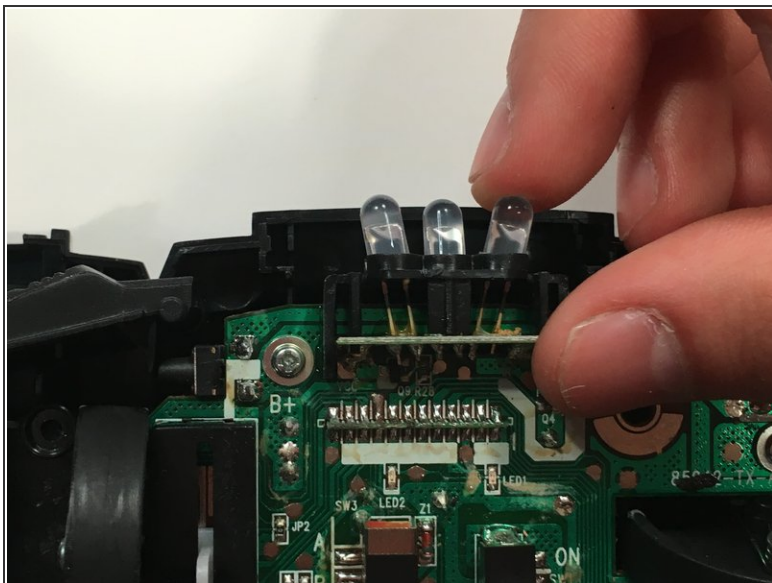
- Lift up the red IR LED cover to remove it.

Step 5



- Use the soldering iron and solder wick to remove the solder from the IR LED you're replacing.
- Pull the LED out through the top.

Step 6



- Insert the new LED into the slot.
- ⓘ Make sure that the short lead of the LED is on the right.
- Use the soldering iron and solder to connect the new LED.

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