Optoma HD20 Fan Replacement

How to replace a Optoma HD20 fan.

Written By: Trever

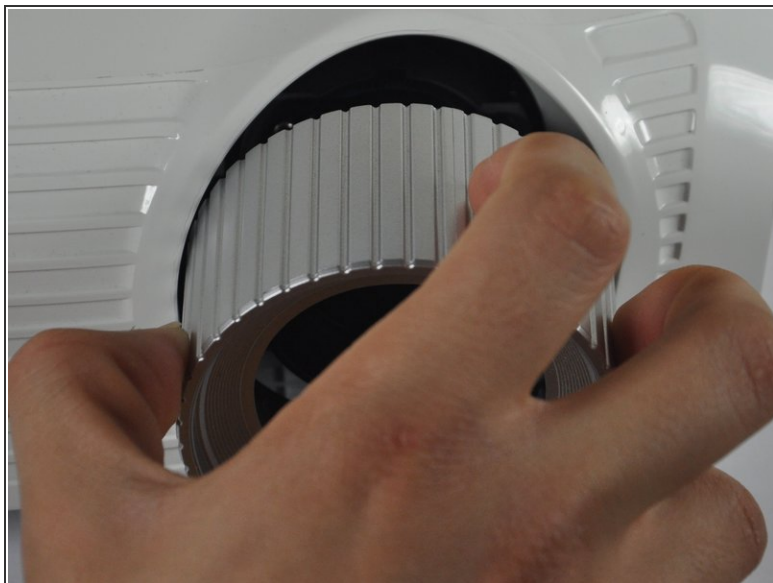This document was generated on 2019-11-14 03:44:01 PM (MST).
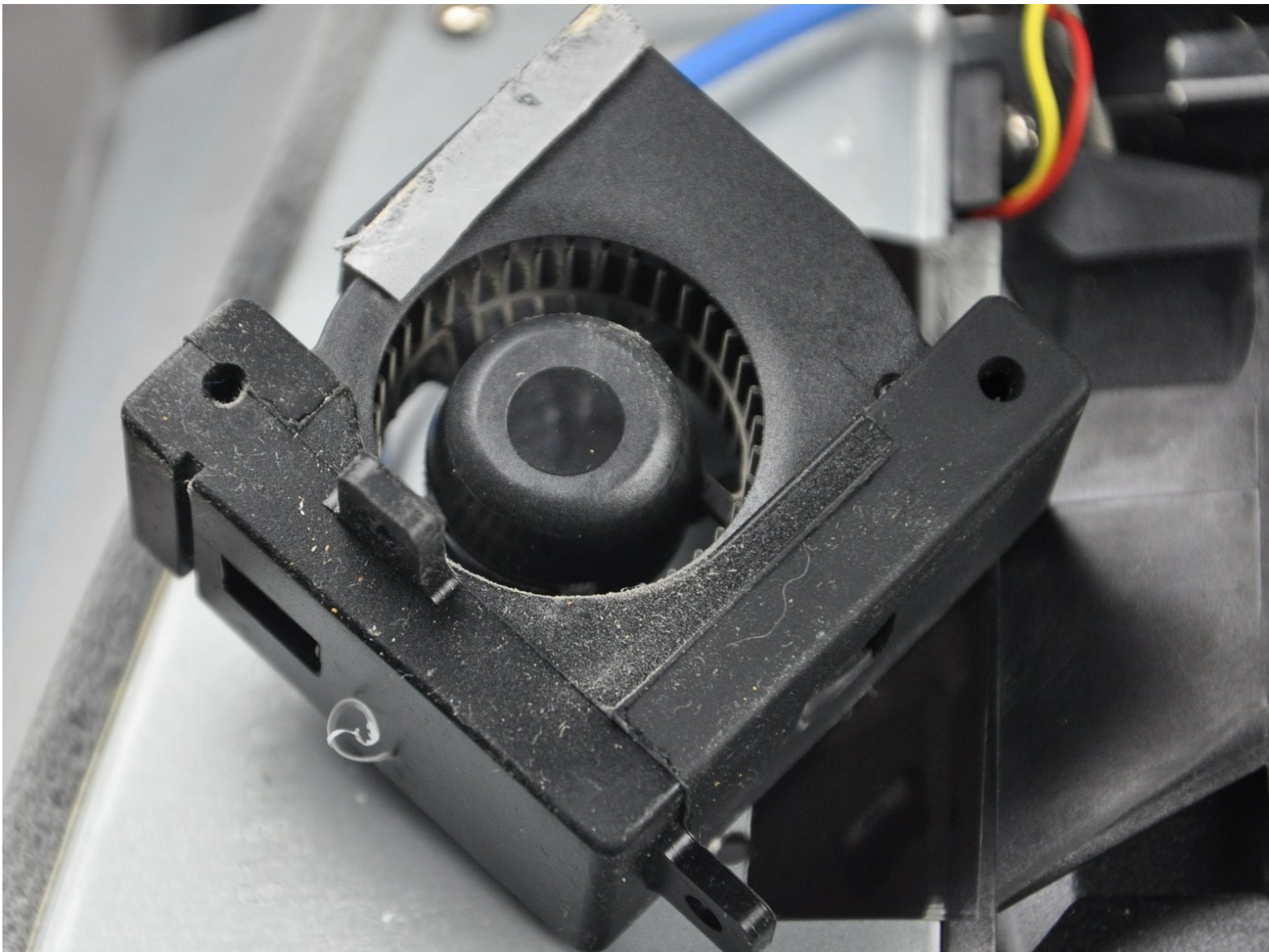
INTRODUCTION

Use this guide to remove the fan from your Optoma HD20.

🔧 TOOLS:

- iFixit Opening Tools (1)
- Phillips #0 Screwdriver (1)
- Phillips #1 Screwdriver (1)
- 5mm Nut Driver (1)

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Step 1 — Disassembling Optoma HD20 Cover

- Twist the focal cap clockwise until it is fully extended.

- Remove the focal cap by pulling it straight out.

Step 2

- Use a Phillips #1 screwdriver to remove the three 7.5mm screws on the bottom of the device.
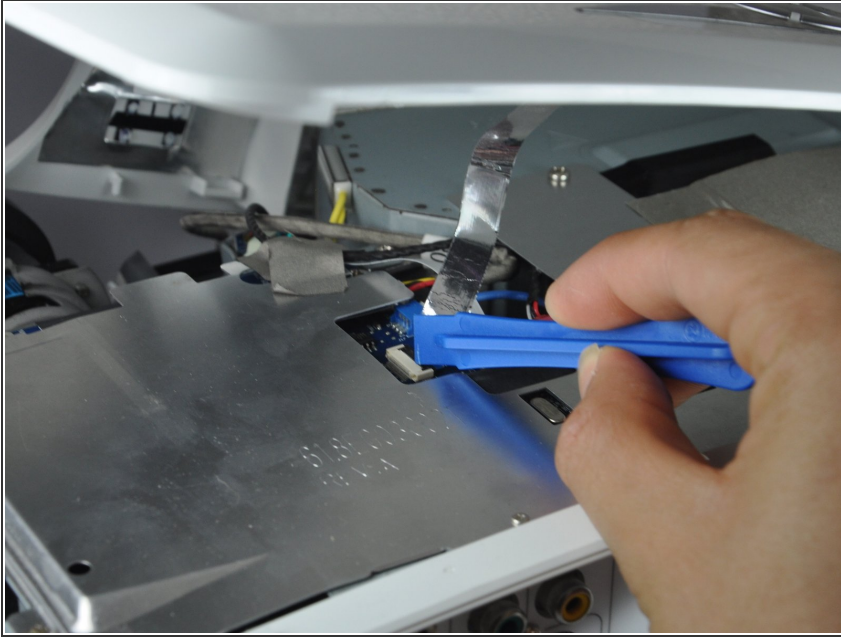
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Step 3

- Use a plastic opening tool to gently pry the top cover off of the device.

- (i) It is easier to pry off the cover from the back side just above the HDMI ports.

Step 4

⚠️ When removing the cover, be cautious of the ribbon connecting the top buttons to the main circuit board. The ribbon must be disconnected before proceeding.
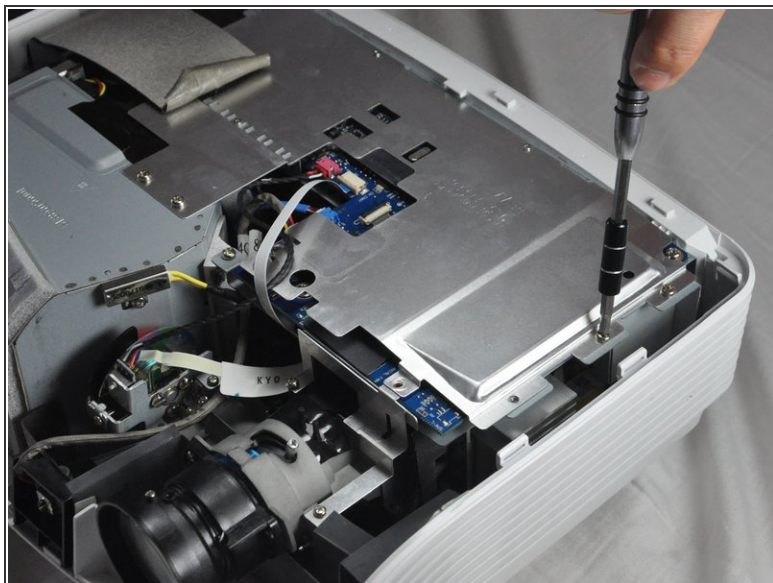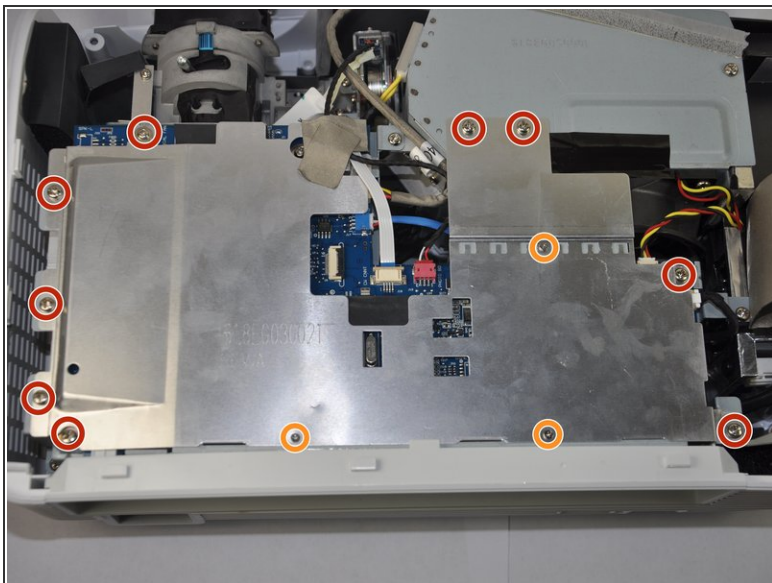
- Remove the ribbon by disconnecting it from the main circuit board.

- Lift up the clip holding it down and pull the ribbon out.
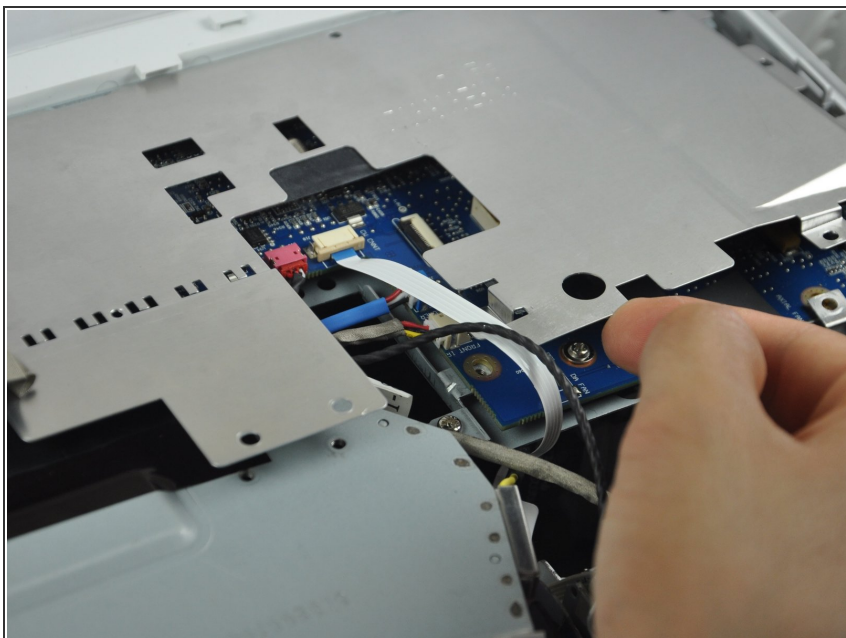
Step 5 — Fan
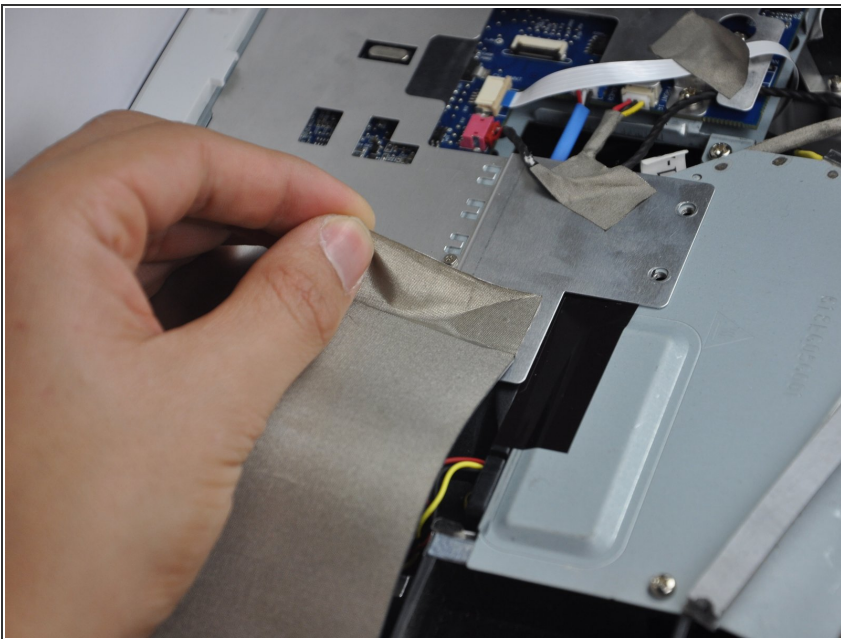
- Peel off the tape that is holding the metal casing down.

Step 6

- Use a Phillips #1 screwdriver to unscrew the nine 4.5mm screws.

- Use a Phillips #0 screwdriver to unscrew the three 2.5 mm screws. This will allow you to remove the metal casing.
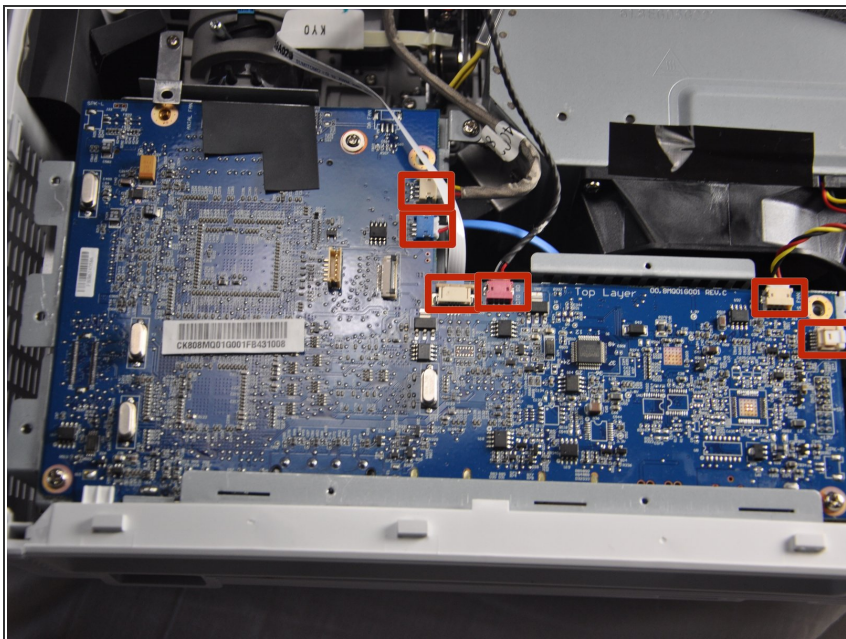
Step 7

- Remove the metal casing by lifting it up off of the circuit board.

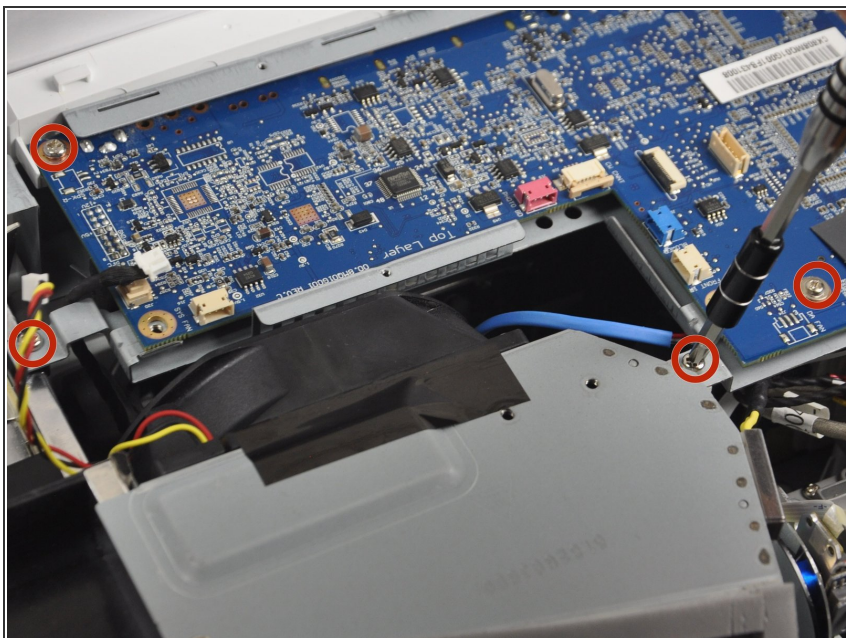This document was generated on 2019-11-14 03:44:01 PM (MST).

Step 8

- Unplug the six wires stemming from the circuit board.

Step 9

- Use a Philips #1 screwdriver to remove the four 4.5 mm screws

Step 10

● Remove the three 4.5 mm screws using the Philips #1 screwdriver.
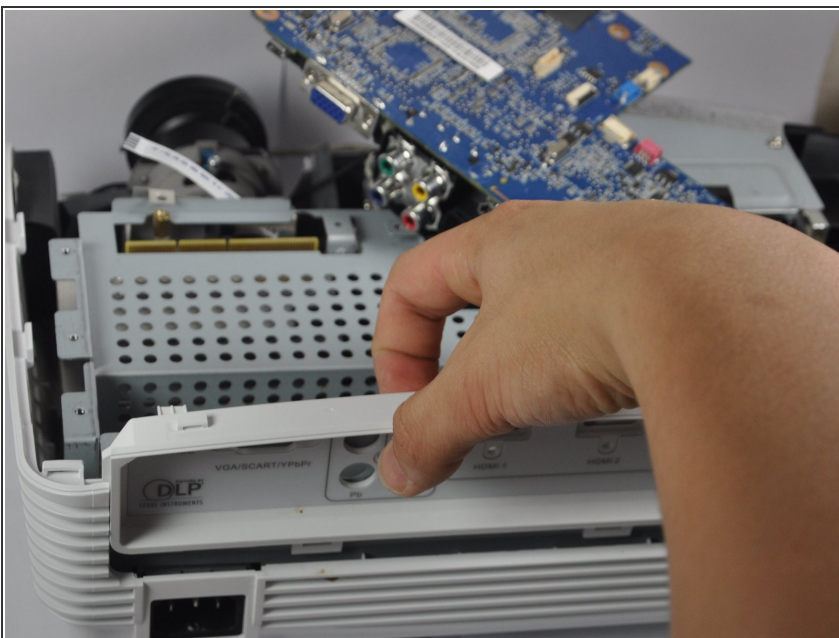
Step 11

- Remove the two 4.5 mm screws located on either side of the VGA/SCART port using a 5 mm nut driver. This will further release the plastic backing from the motherboard.
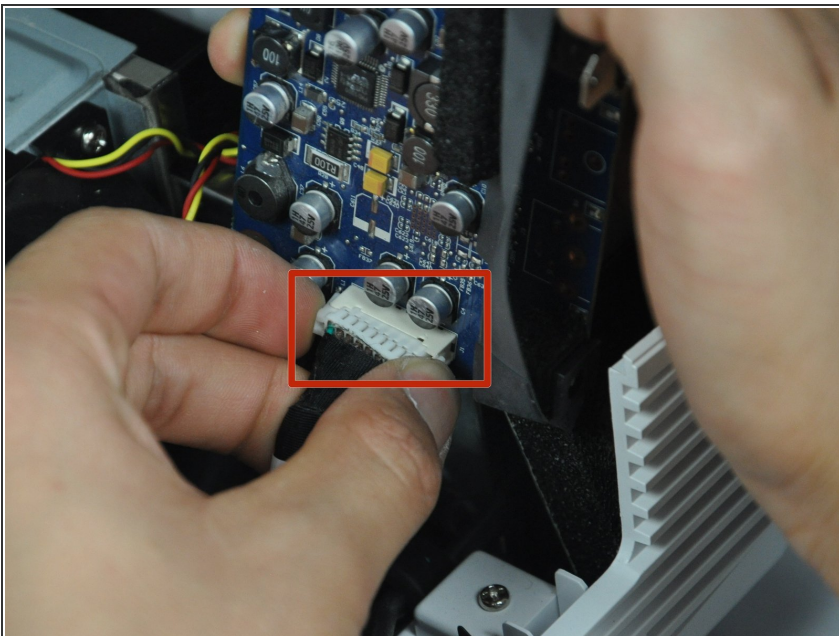
Step 12

- Slightly rotate the motherboard clockwise. This will prevent ports from getting caught on the plastic backing.

- Lift the plastic backing to remove it.

Step 13

📌 Ensure all screws are removed

● Lift up the motherboard and take out the metal container beneath it.

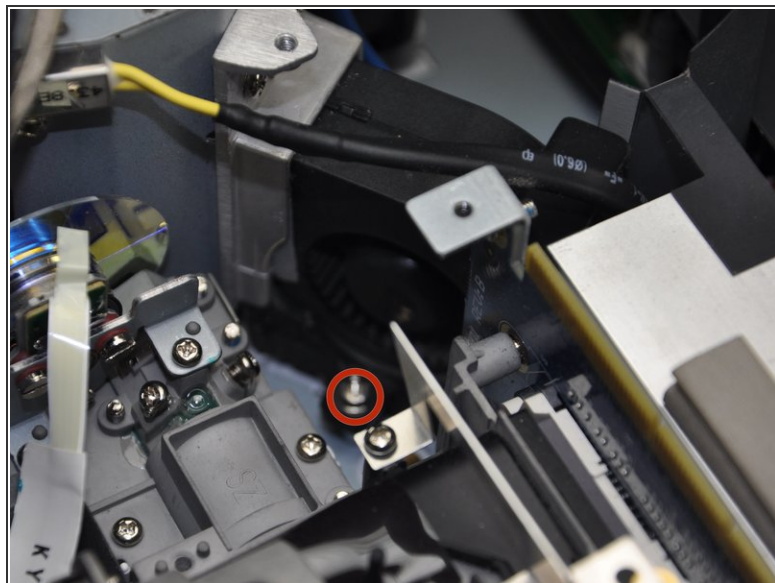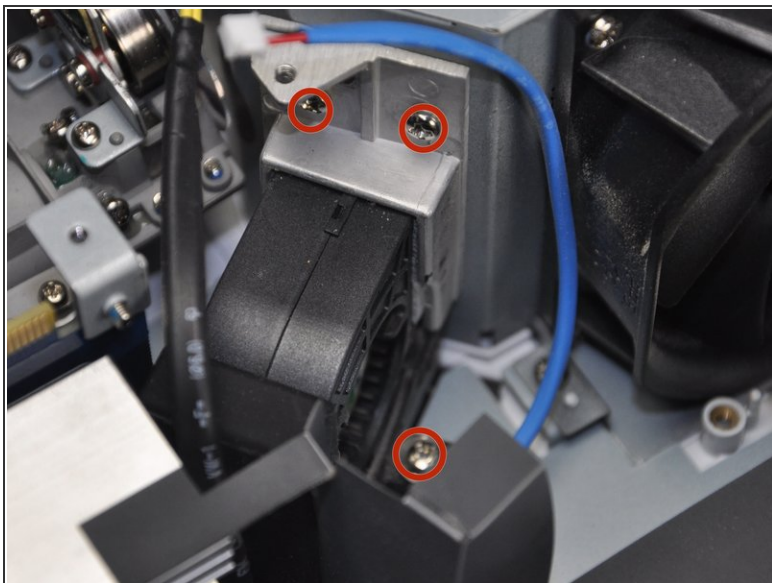ⓘ Do this very carefully as there is still one cable attached.

Step 14

● Unplug the white connector underneath the right side of the circuit board.

ⓘ To remove, pinch both sides of the connector and pull it away from the circuit board.
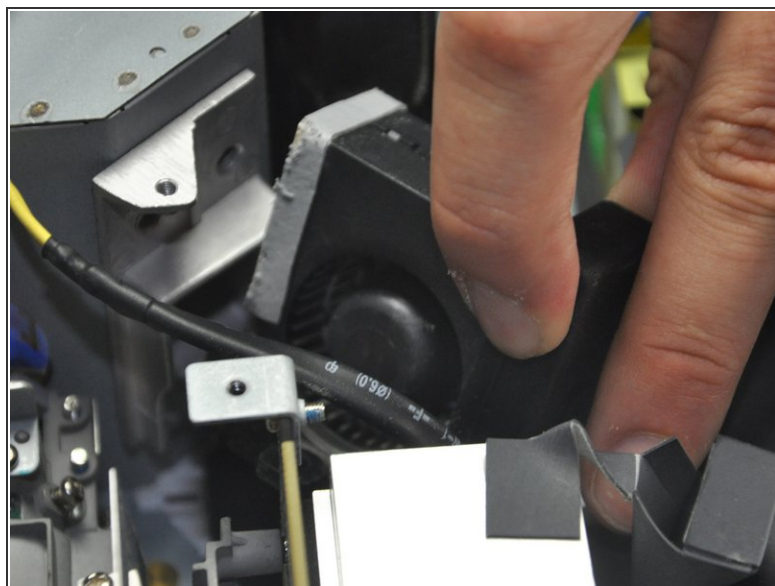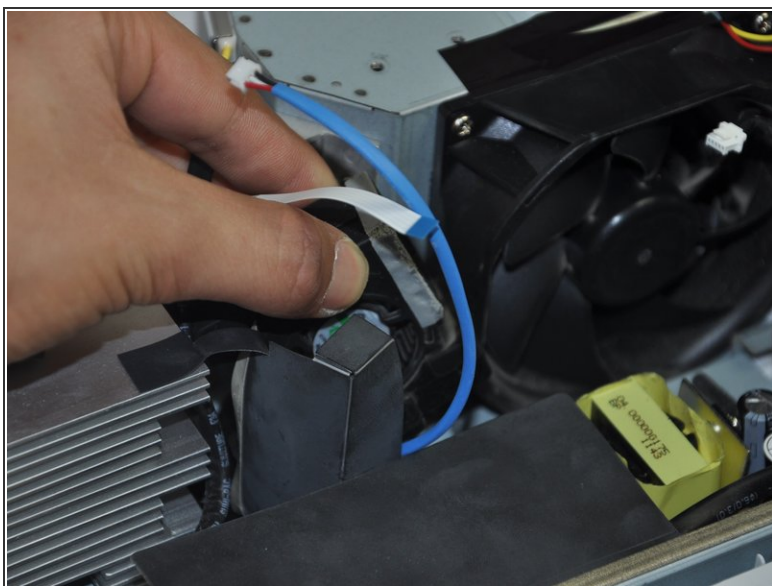
Step 15

- Use a Phillips #1 screwdriver to remove four 5 mm screws. This will release the fan.

Step 16

- Pull the fan away from the metal housing unit.

- Gently lift the fan up and out of the device. The fan is now removed.

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

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