HP Officejet Pro L7580 Teardown

Disassembling HP L7580 step by step.

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INTRODUCTION

L7580 is a great multifunction printer from HP. Here we will discover what's inside the printer and take apart it's sensors and DC motors.

⚙ TOOLS:

- T20 Torx Screwdriver (1)
- T8 Torx Screwdriver (1)
- Tweezers (1)
- Flush Wire Cutters (1)

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Step 1 — HP Officejet Pro L7580 Teardown

- Remove the 3 T8 Torx screws from the paper feeder.

- Lift the white surface to reveal the two notches.

- Push the notches to detach the paper feeder mechanism.

Step 2

- After removing the paper feeder, you will notice the slotted opto switch.

- Remove the back cover to demount cable jacks.

- Pull and detach the paper feeder mechanism.
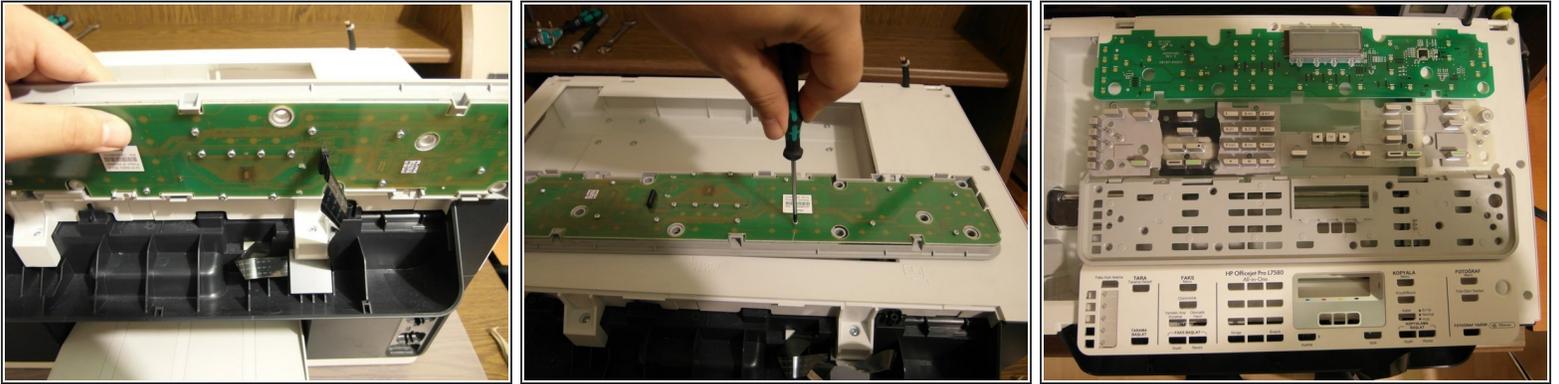
Step 3

- Remove the T8 Torx screws from the right cover.

- You will see the feeder's mechanics after removing the cover.

- Remove the top cover, and here is the first DC motor and its encoder.

Step 4

- Pull the scanner cover up to detach it from the main body. Then, remove the T8 Torx screws around the scanner window.

- Remove the control panel by pulling it.

- Finally, remove the inner layer of the control panel by forcing the notches.

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Step 5

- Remove the flat cable from the control panel.

- Remove the T8 Torx screws to see what's inside the control panel.

- Then, we will see the 4 layers of the control panel.

Step 6
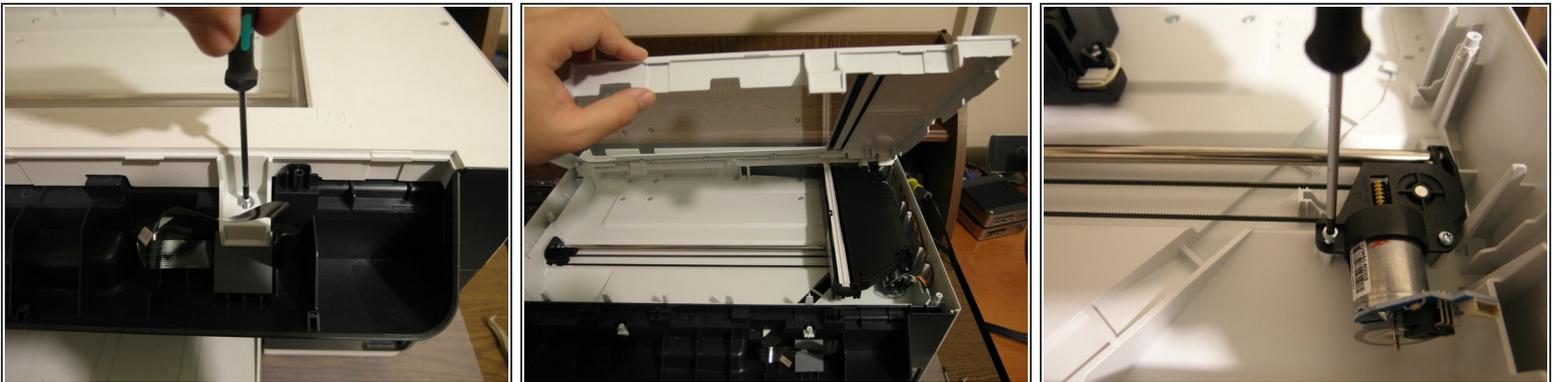
- Remove the two T8 screws to detach the scanner cover.

- Lift the cover up to reveal scanner mechanism.

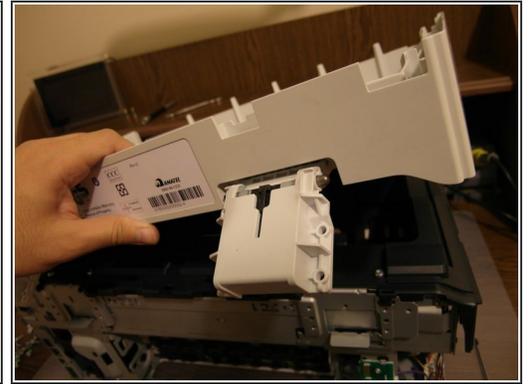- And we have our second DC motor and encoder. Plus, a carrier mechanism.

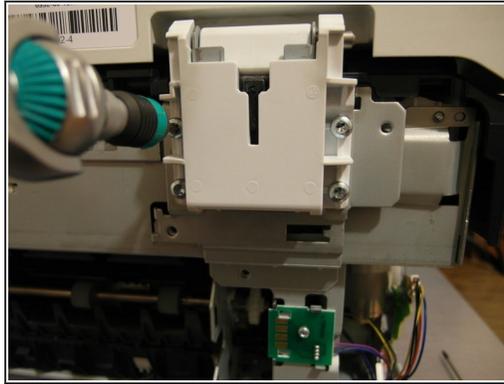This document was generated on 2019-09-28 05:30:28 PM (MST).

Step 7
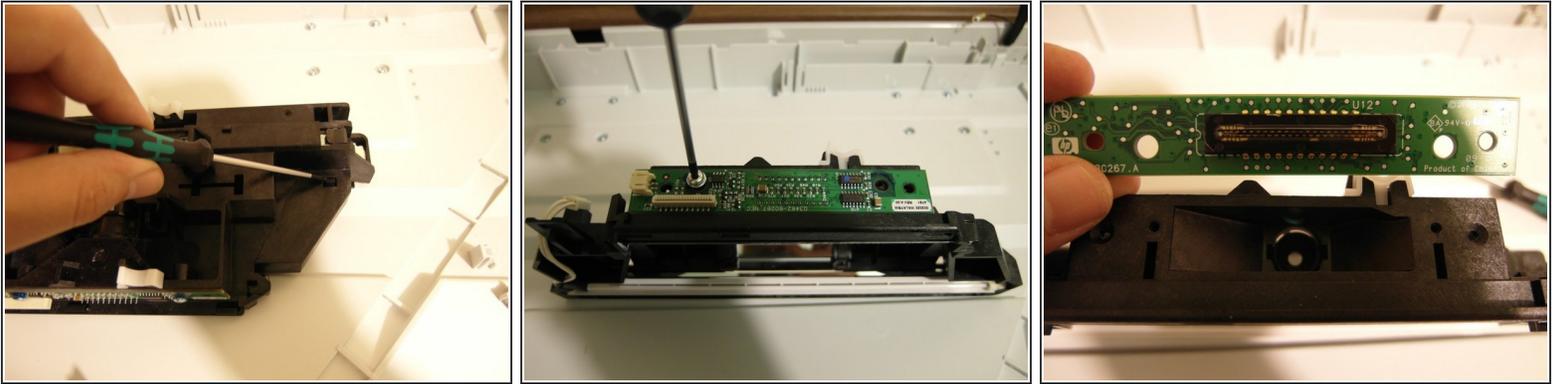
- Remove the scan head's top cover by pressing the two notches on the back.

- Remove the T8 screws of the circuit board.

- Here is the scanner sensor and the objective.

Step 8

- Remove all the screws from the back, including the ones inside the 3 covers.

- Remove the two screws from the top of cartridge change cover.

- Detach the two side covers by pulling them.

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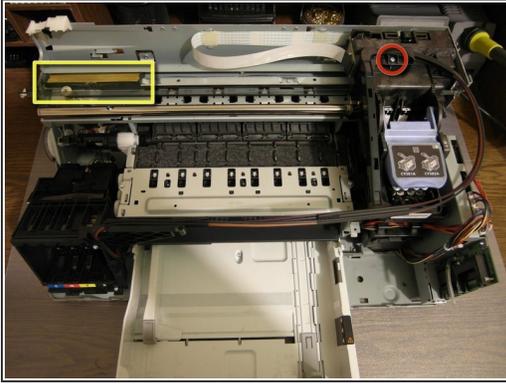
Step 9

- Detach the back cover.

- Remove the 4 screws from the both hinges.

⚠ The hinges can pop-up suddenly, so be careful.

- Then, remove the scanner cover to reveal printing mechanism.

Step 10
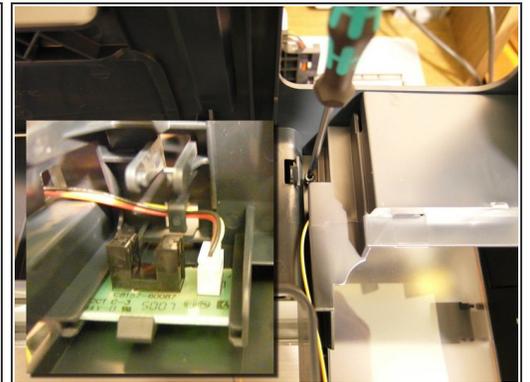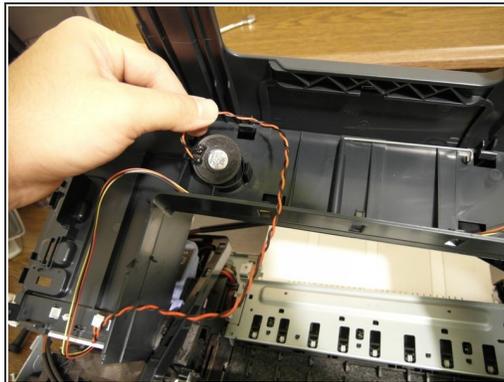
- Remove the screws of the cover.

- You will notice the speaker below the cover.

- Remove the screws of cartridge door. There is another slotted opto switch here.

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Step 11

- There is an extra weight block on the print mechanism to prevent vibration.

- Remove the red marked screw to detach ink hose.

- Remove the green marked screw to detach ink cartridge slot.

- Finally, we have the ink hose and the nozzles.

Step 12
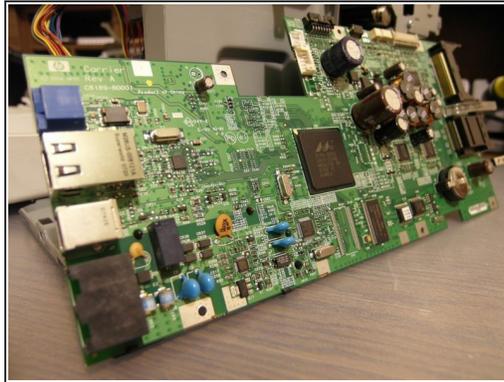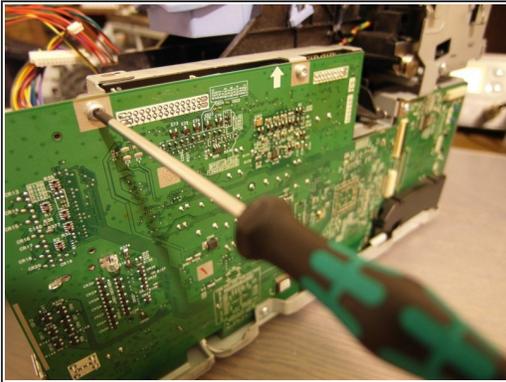
- Remove the screws to detach the mainboard of the printer.

- The board has a power input, an Ethernet connector, a USB device port, phone line input and outputs, memory card slots, a USB host port, various internal connectors and a CR2032 RTC battery.

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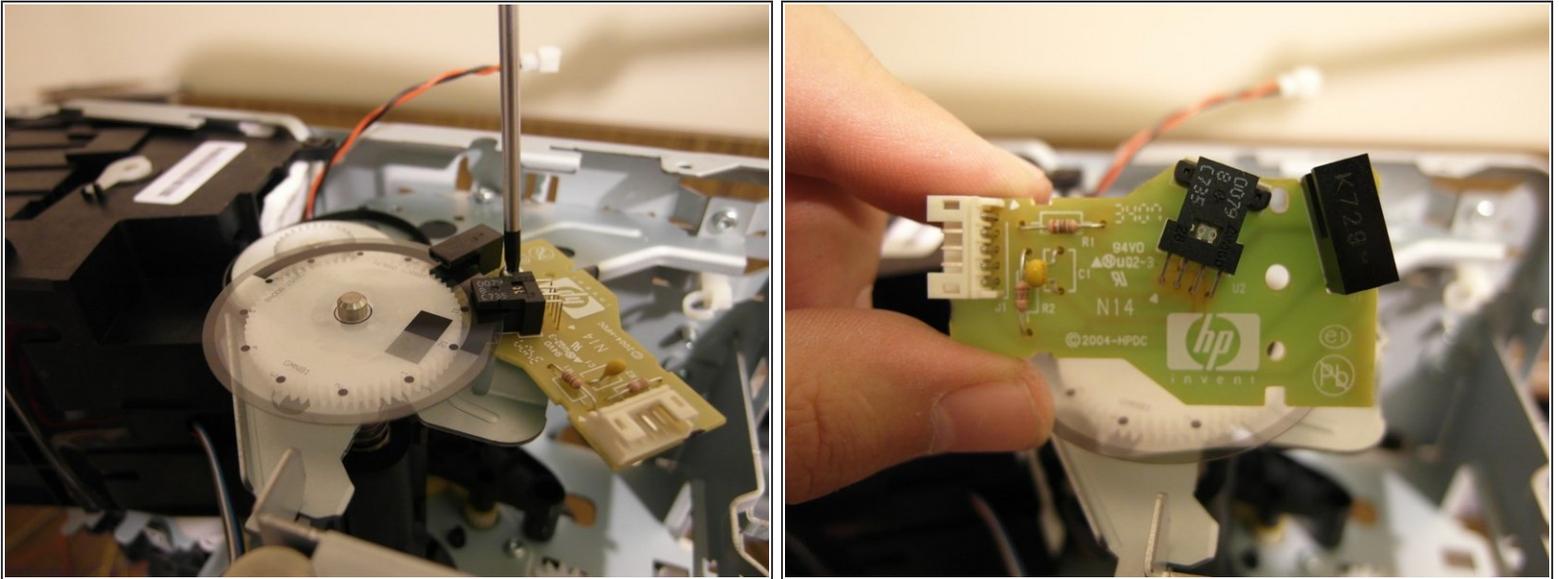
Step 13

- Remove the screws of print head's motor.
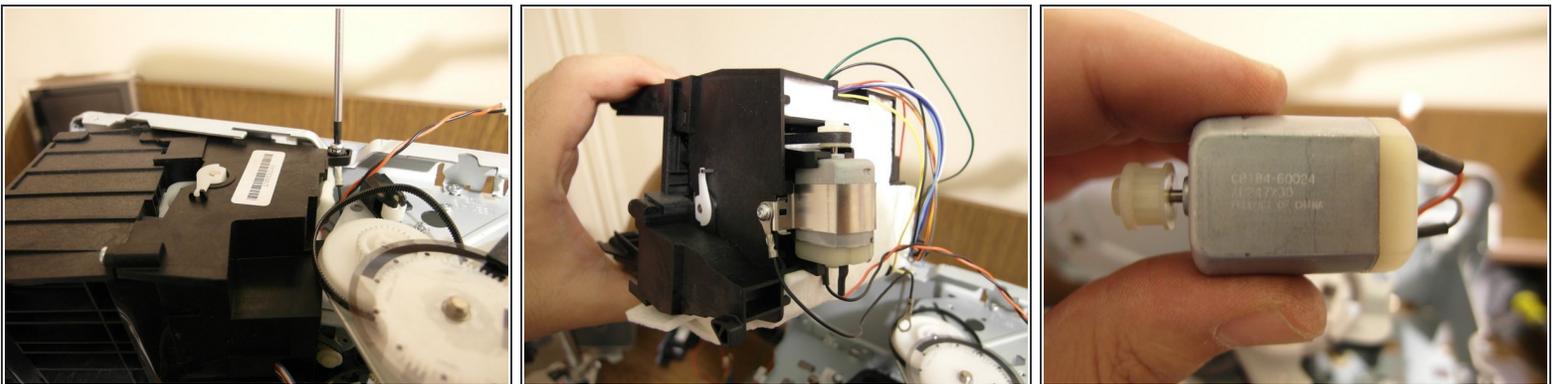
- And we have a DC motor here.

Step 14
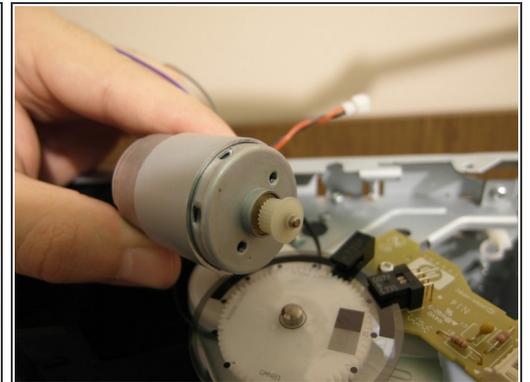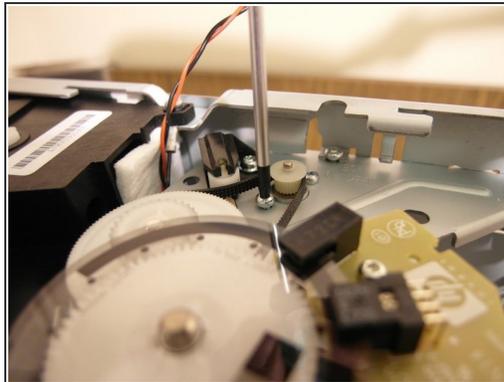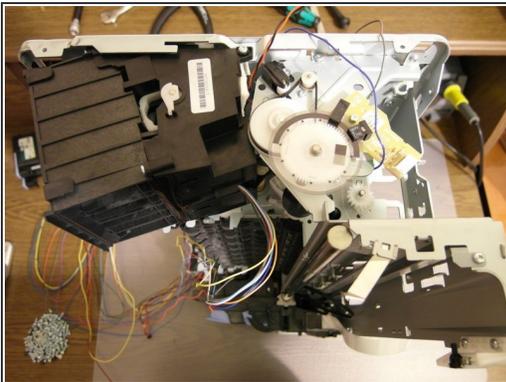
- Rotate the printer right to reach the other DC motor.

- Remove the two screws connecting the motor to the body.

- We will have another DC Motor.

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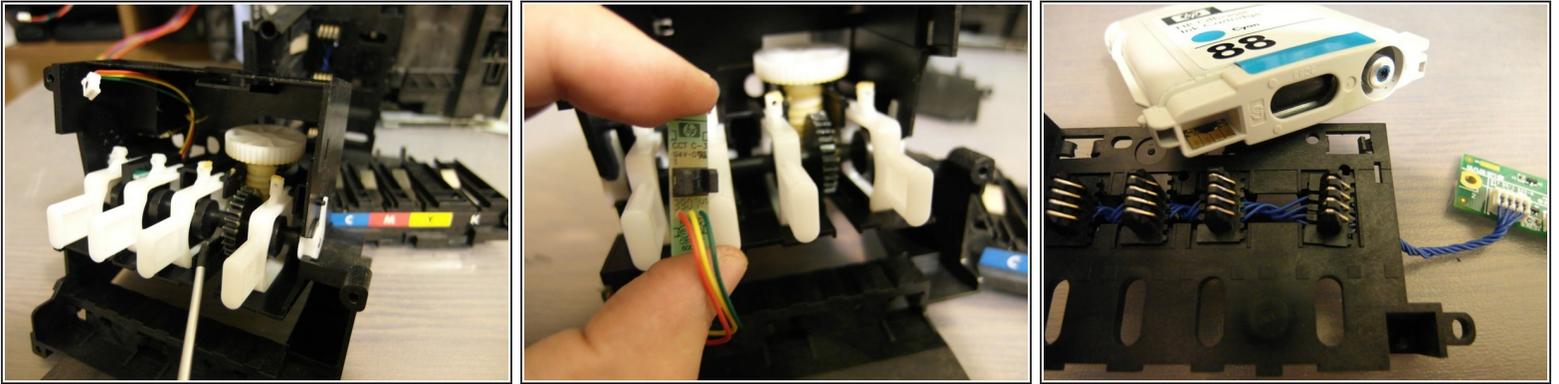
Step 15

- Remove the screw to get slotted opto switches.

Step 16

- L7580 has a lot of DC motors inside. Detach the ink cartridge slots by removing the screws to discover another DC one.

Step 17

- This is the ink cartridge pumping mechanism. The last DC motor we detached controls this mechanism.

- The opto switch reports the mechanism's position.

- Communication between the board and cartridges is being established by serial data line as I guess.

Step 18
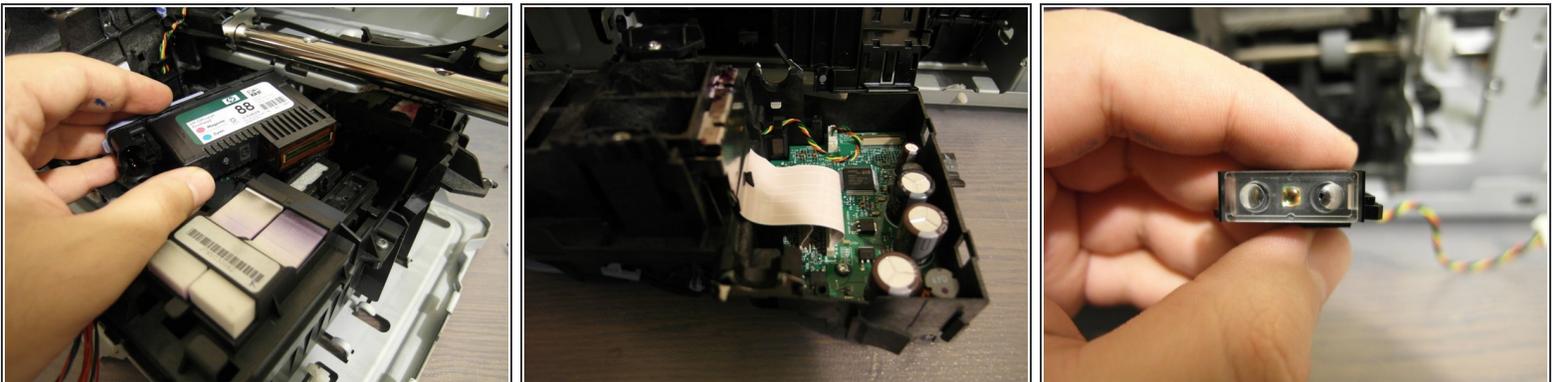
- Then, we see here the print head cleaning mechanism.

- The master print head (which includes two removable heads) has a circuit board inside.

- And this is the paper type detector. It has been compacted a bit when comparing to previous versions.

Step 19
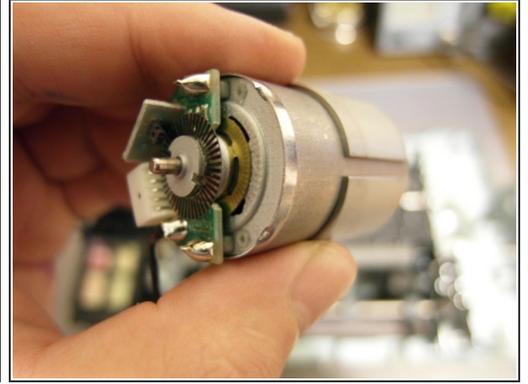
- Reaching to the bottom layer, this is the paper feeding mechanism.

- By removing the top cover, we discover the sixth and the last DC motor with an encoder.

Step 20
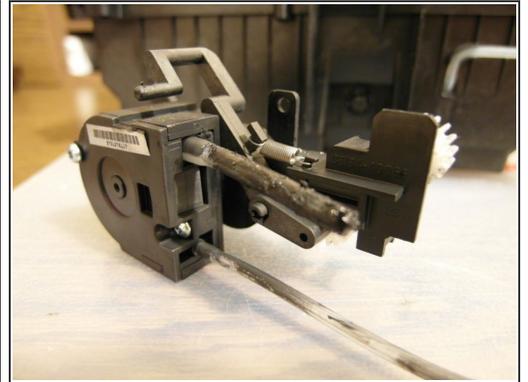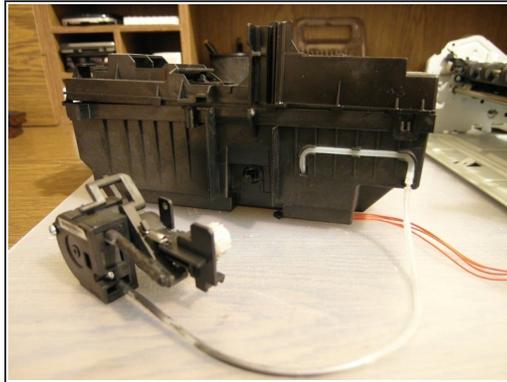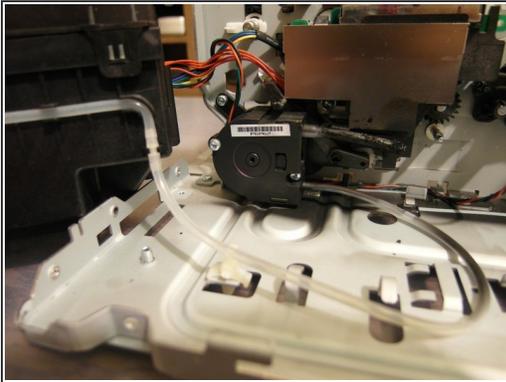
- At the final step, we are discovering an air pump for the print head cleaning mechanism. It's surprising!

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

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