Brother MFC-490CW Print head Replacement

Use this guide to remove a malfunctioning print head.

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INTRODUCTION

The print head may need replacing if failed attempts at cleaning the print head still produces faded or spotted prints or documents.
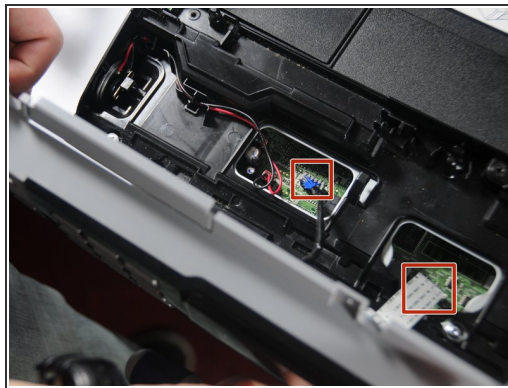
TOOLS:

- Phillips #2 Screwdriver (1)
- Spudger (1)

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Step 1 — Remove screws holding the front panel

- Unscrew these three 12.1mm screws holding the control panel in place.

Step 2 — Unplug the panel from the rest of the printer

- Lift up the front panel from the device.

- Gently lift up and pull out the data cables that attach the panel to the printer.

## Step 3 — Separate the arm holding scanner unit

- (i) Before removing the unit, apply 2 or 3 pieces of tape to secure the top and bottom of the unit.

- Lift the scanner unit.

- Gently twist the top portion of the arm. The top portion should release from the scanner unit.

- Rotate the arm approximately 45 degrees to remove the bottom portion of the arm from the device.

Step 4 — Remove the scanner unit from the device

- Slide the unit either to the left or right and begin the push the unit away from the device.

- Once one hinge is separated from the device, begin to remove the other hinge from device.

- Gently place the unit on the work surface.

- ⚠ Be careful not to pull too hard. The wires connecting the unit from the device must be removed.

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Step 5 — Remove left wire panels
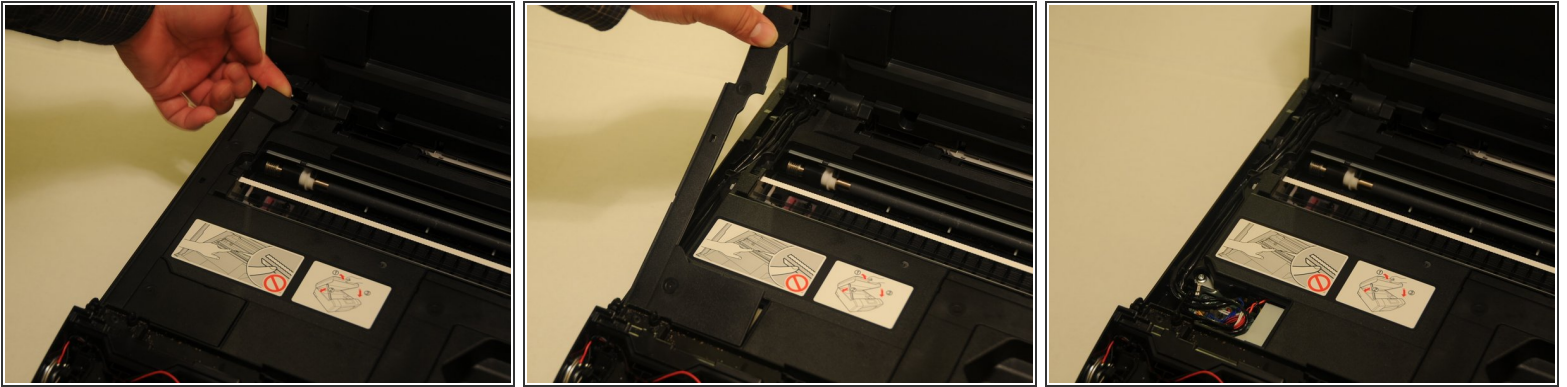
ⓘ While it is not necessary to use a prying tool, using one may make it easier to lift the panels.

● Starting from the back of the printer, use the exposed portion of the panel to gently pry the panel up from the printer.

Step 6 — Remove right wire panel

● From the back of the device, use the exposed portion of the panel to begin to lift the panel away from the device.

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Step 7 — Removing left set of power cables

ⓘ Before removing the cables, create a diagram of the locations of the different cables. Then, label the cables with some tape or Post-Its.
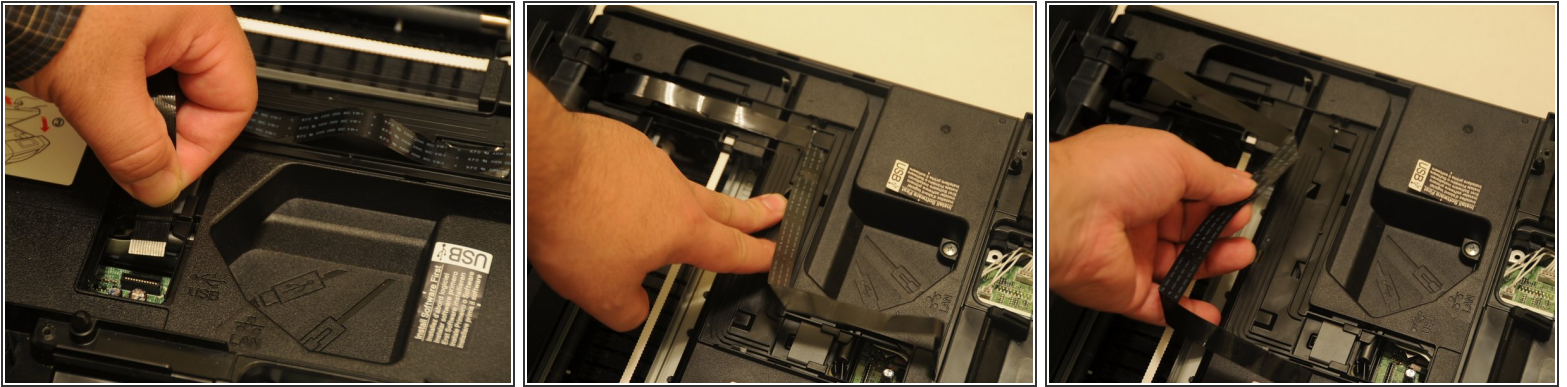
● Remove the three power cables that connect the scanner to the motherboard.

Step 8 — Remove the ground wire

● Unscrew the 12.1mm screw to remove the ground wire.

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Step 9 — Remove data cable

- Gently pull the data cable away from the motherboard.

- Slide the cable out of the slots to remove the cable from the device.

- The scanner unit is now separated. Place the unit and ground screw in a safe part of the workspace until needed for re-assembly.

Step 10 — Remove front screws of the device cover
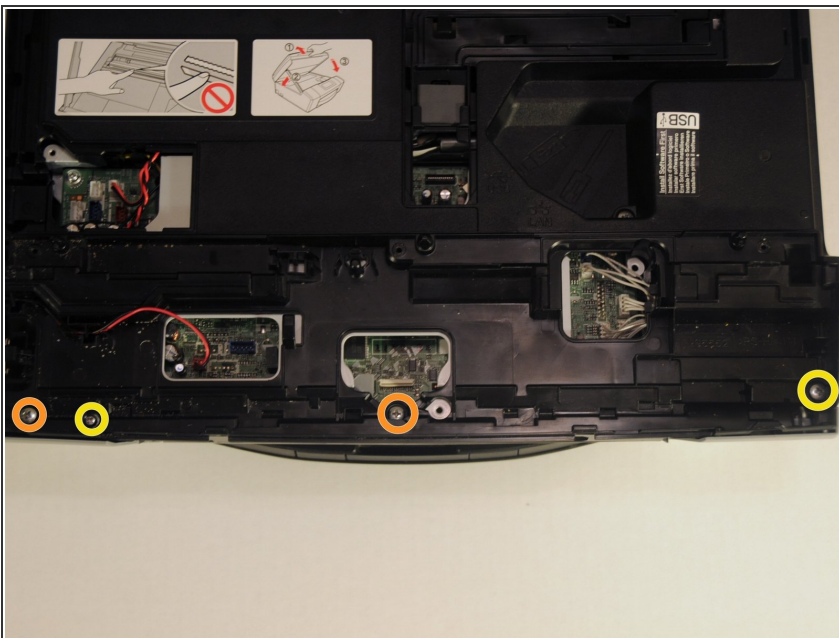
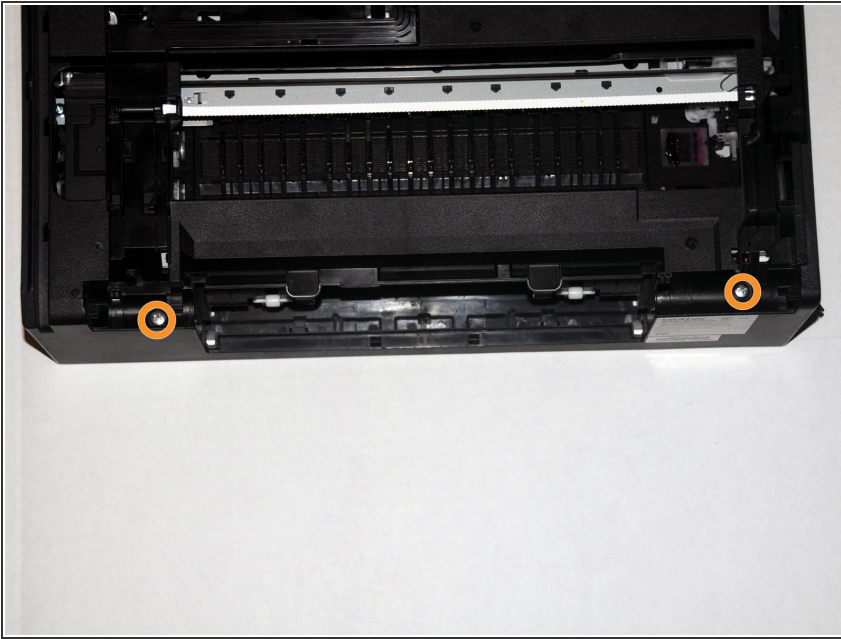- Unscrew the three 14.1mm screws.

- Unscrew the 12.1mm screw.

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Step 11 — Remove the paper tray

- Pull the paper tray away from the device.

Step 12 — Remove center screw near the USB and ethernet ports


- Unscrew the 8mm screw at the center of the device.

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Step 13 — Remove rear panel screws

- Unscrew the two 14.1mm screws holding the panel in place.

## Step 14 — Remove red power cable
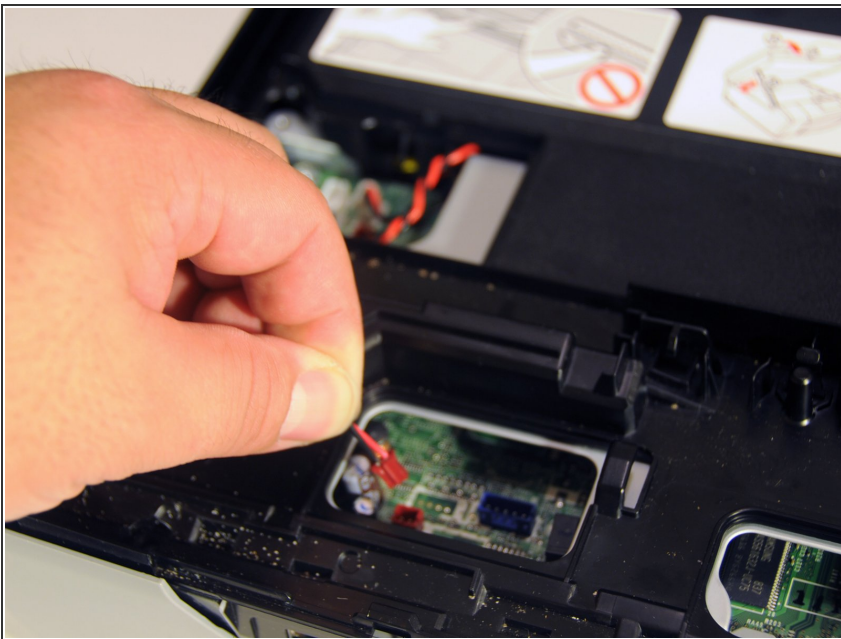
- (i) This cable needs to be removed to allow the removal of the device cover.

- Gently remove the red power cable from the motherboard.

Step 15 — Remove paper jam clear cover
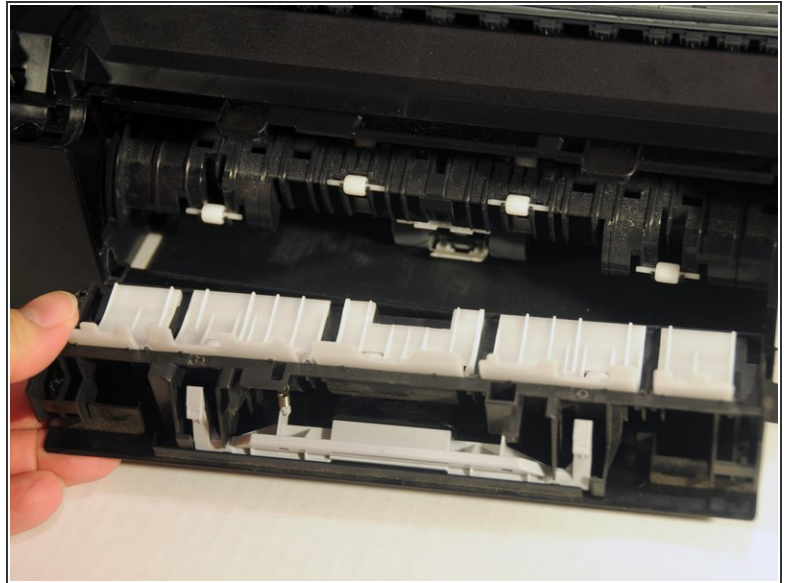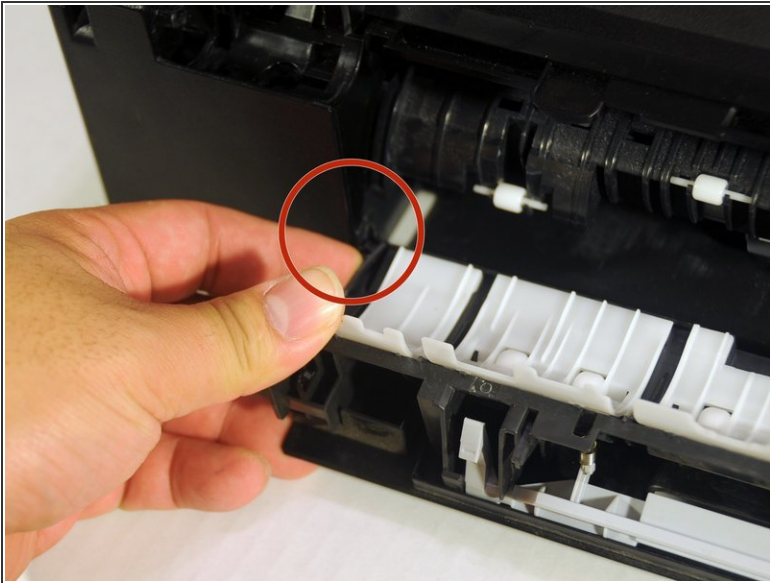
- Gently push the upper-left tab of the cover and separate the hinged portion of the cover from the rest of the device.

- Once one side is free, slide the other side away from the device.

- Pull the cover away from the device.

Step 16 — Remove the device cover
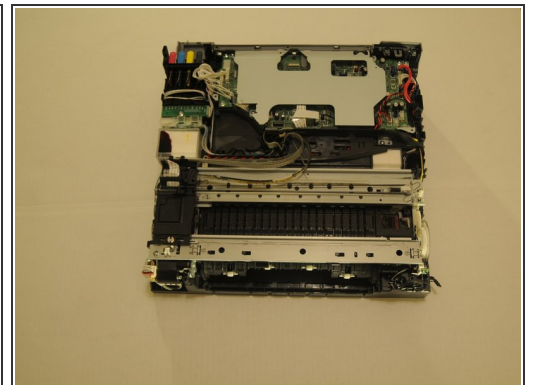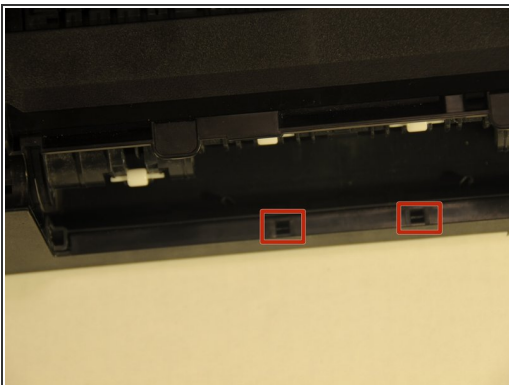
- Using a spudger, loosen the two clipped portions of the cover located at the back-center of the cover.

- Once the clips are free the rest of the cover can be lifted up and away from the device.

## Step 17 — Release the clear print head guide wire
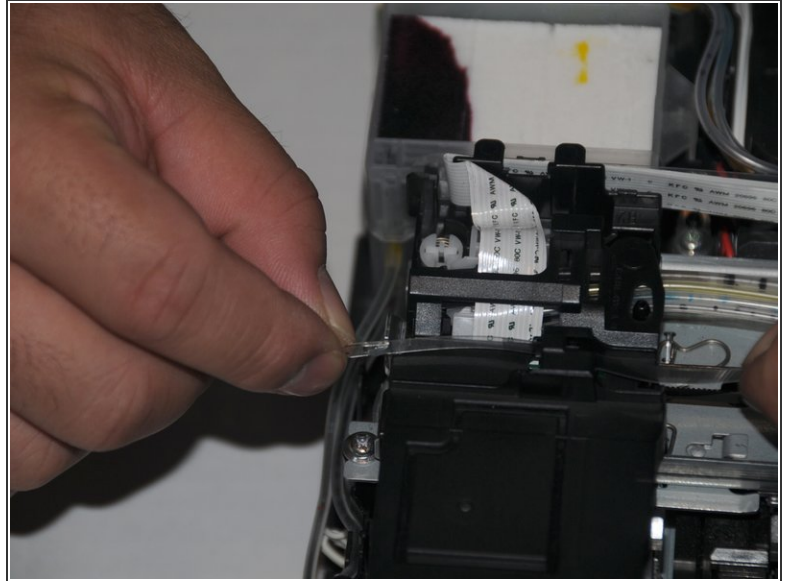
- Gently pull the wire to the left so the end of the wire is released.

- Slide the wire away from the top of the print head unit.

## Step 18 — Releasing the print head from the carriage
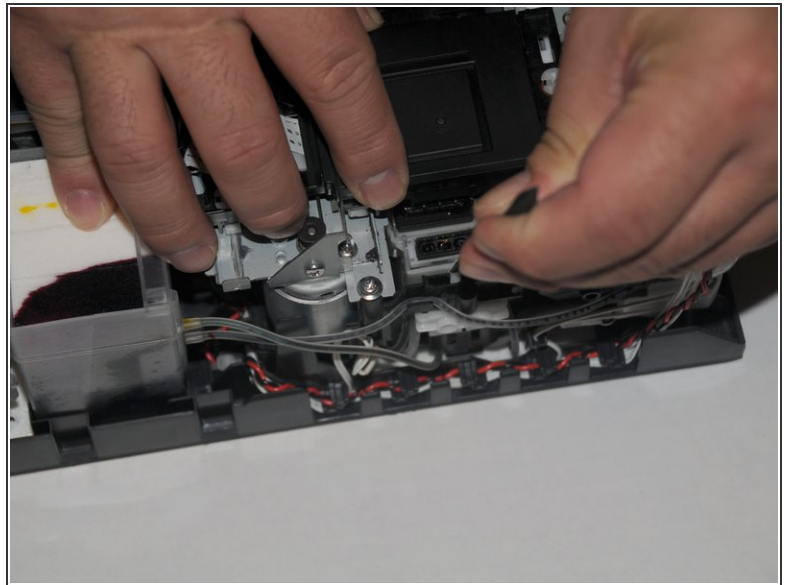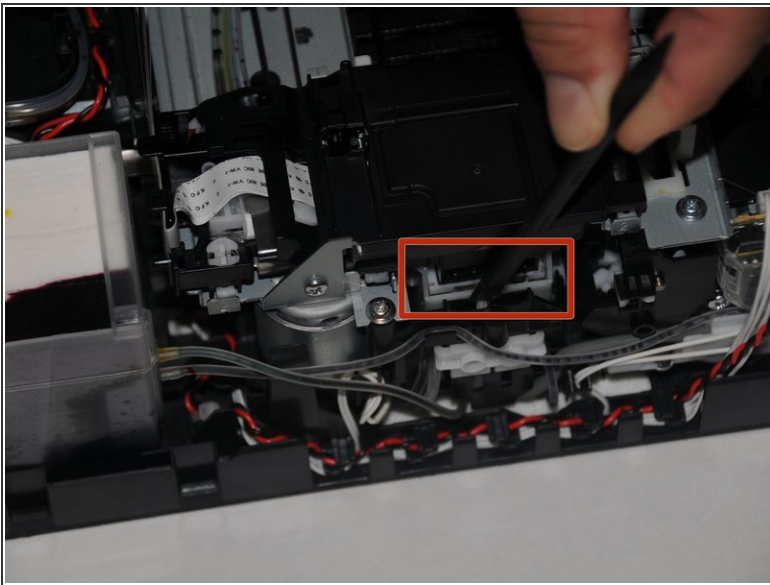
- Using a spudger, press down on the plastic housing of the carriage that the print head rests on.

- Slide the print head to the left of the device.

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## Step 19 — Removing the print head from the rails.
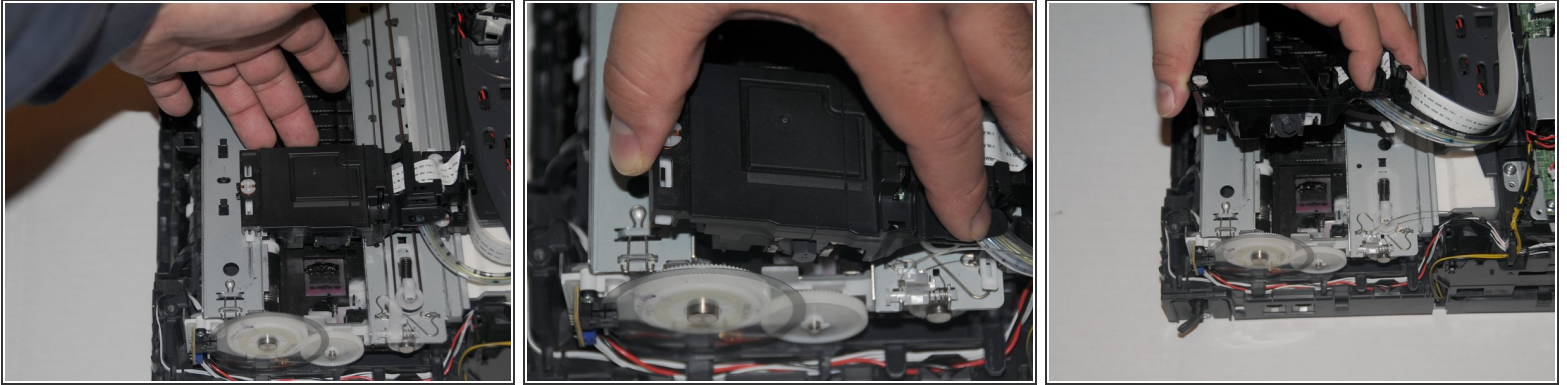
- Slide the print head until it is at the end of the rail.

- Push the print head unit towards the back of the device and lift the unit from the back rail.

- Gently, release the other end of the print head to release it from the front rail.

Step 20 — Release the print heat conveyor
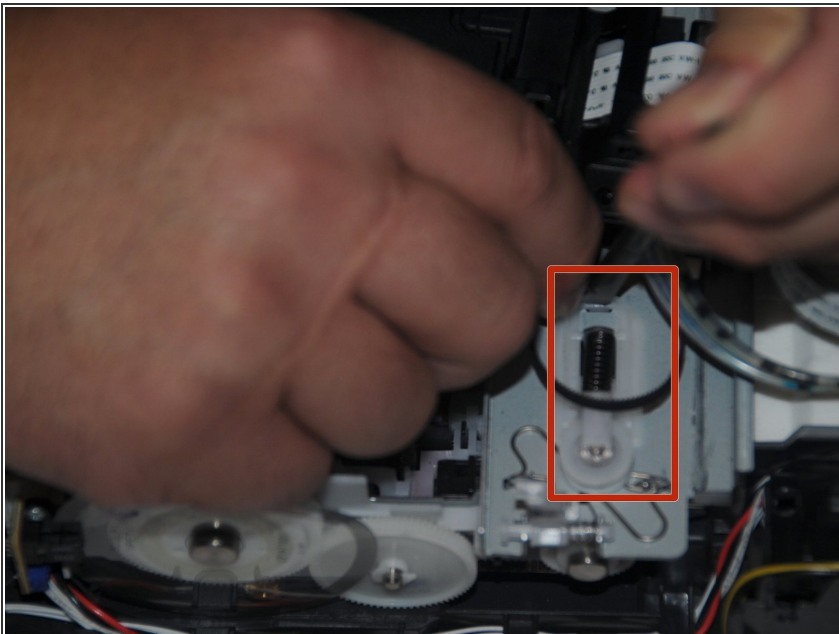
- Using the spudger, press the spring section of the white pulley.

- Release the conveyor from the pulley while the spring is still compressed.

- Remove the conveyor from the gear on the other side of the device.

- ⓘ Optional: Slide the conveyor off the print head.

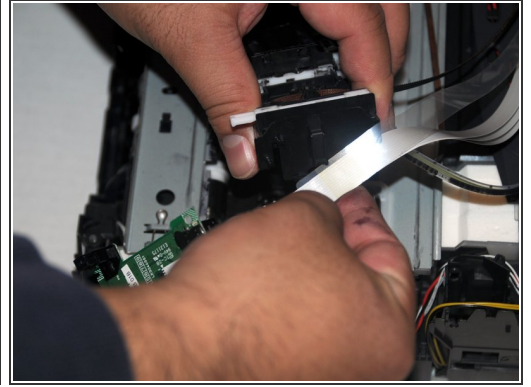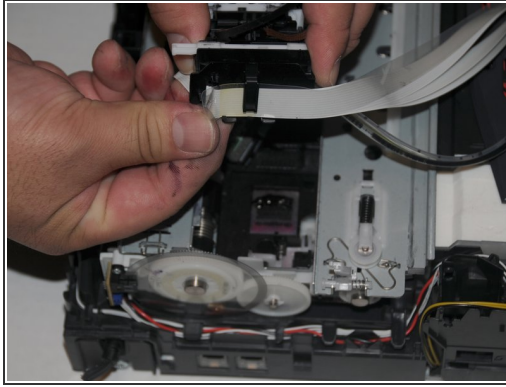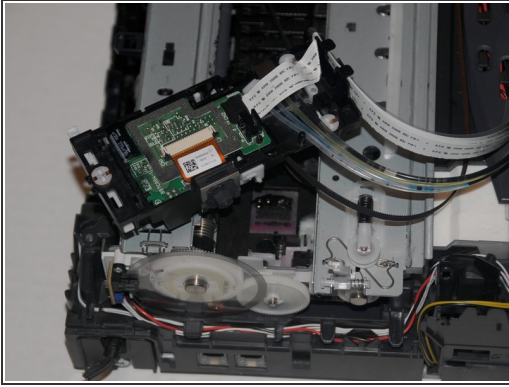## Step 21 — Opening the top print head cover.
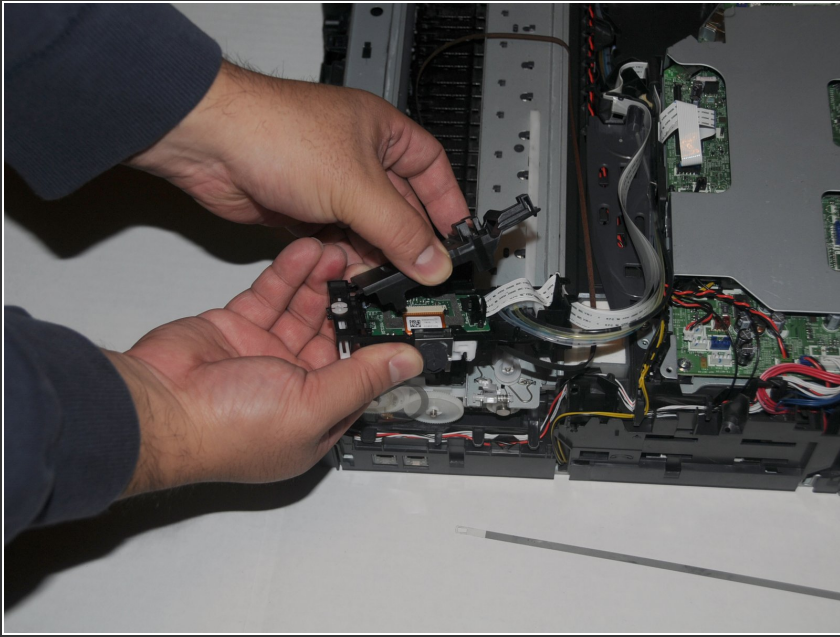
- Squeeze the ends of the cover, then release the cover, revealing the processor unit.

## Step 22 — Remove the data cable from the print head processing unit.
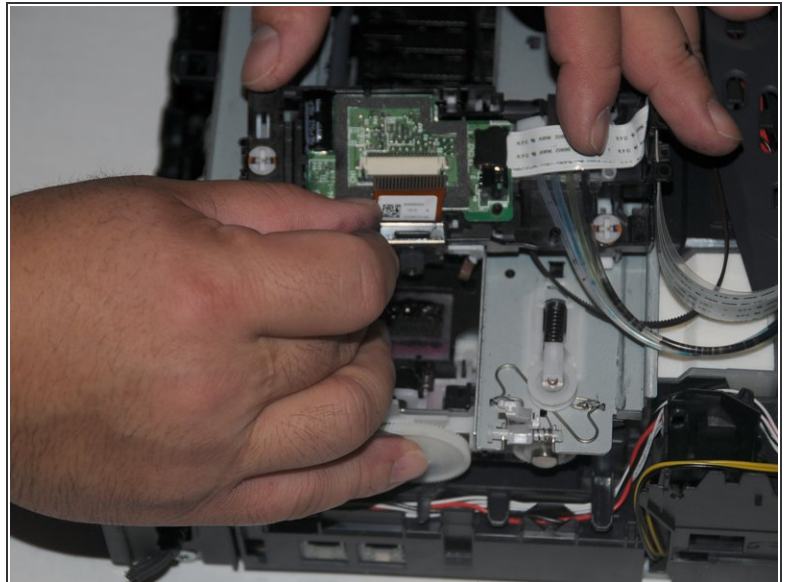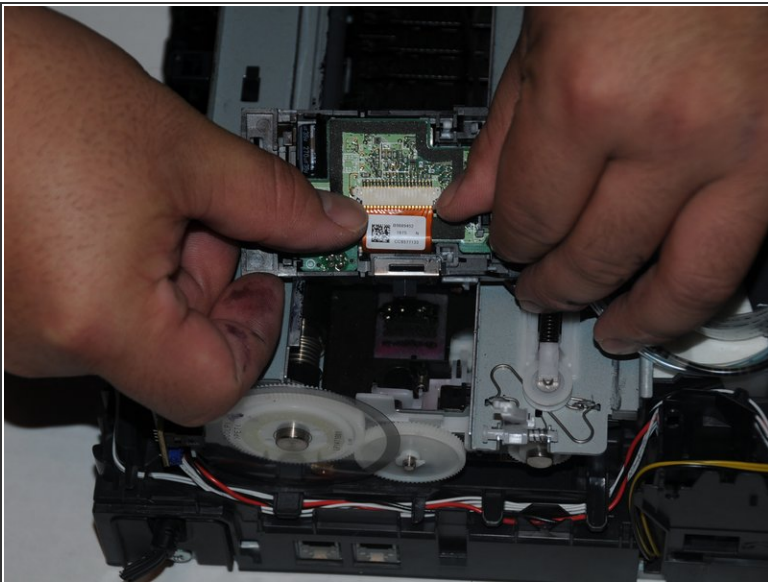
- Slide the black cap away from the port.

- Slide the data cable out of the port.

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Step 23 — Remove print head processor unit

- Lift the processor out of the print head.

- Slide the cables attached to the processor away from the print head unit.

Step 24 — Remove the inkjet nozzle unit.
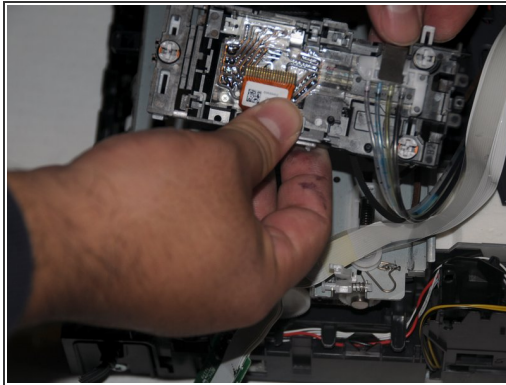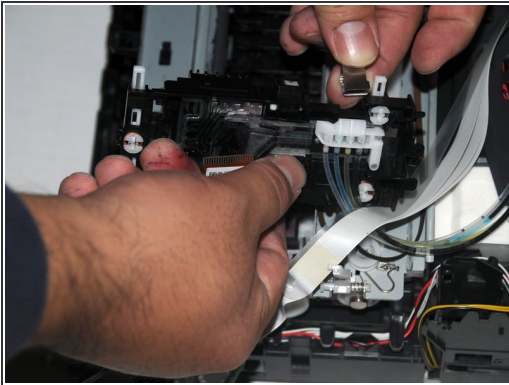
- Remove the metal clip holding the nozzle unit.

- Lift the unit from the rest of the print head unit.

To reassemble your device, follow these instructions in reverse order

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