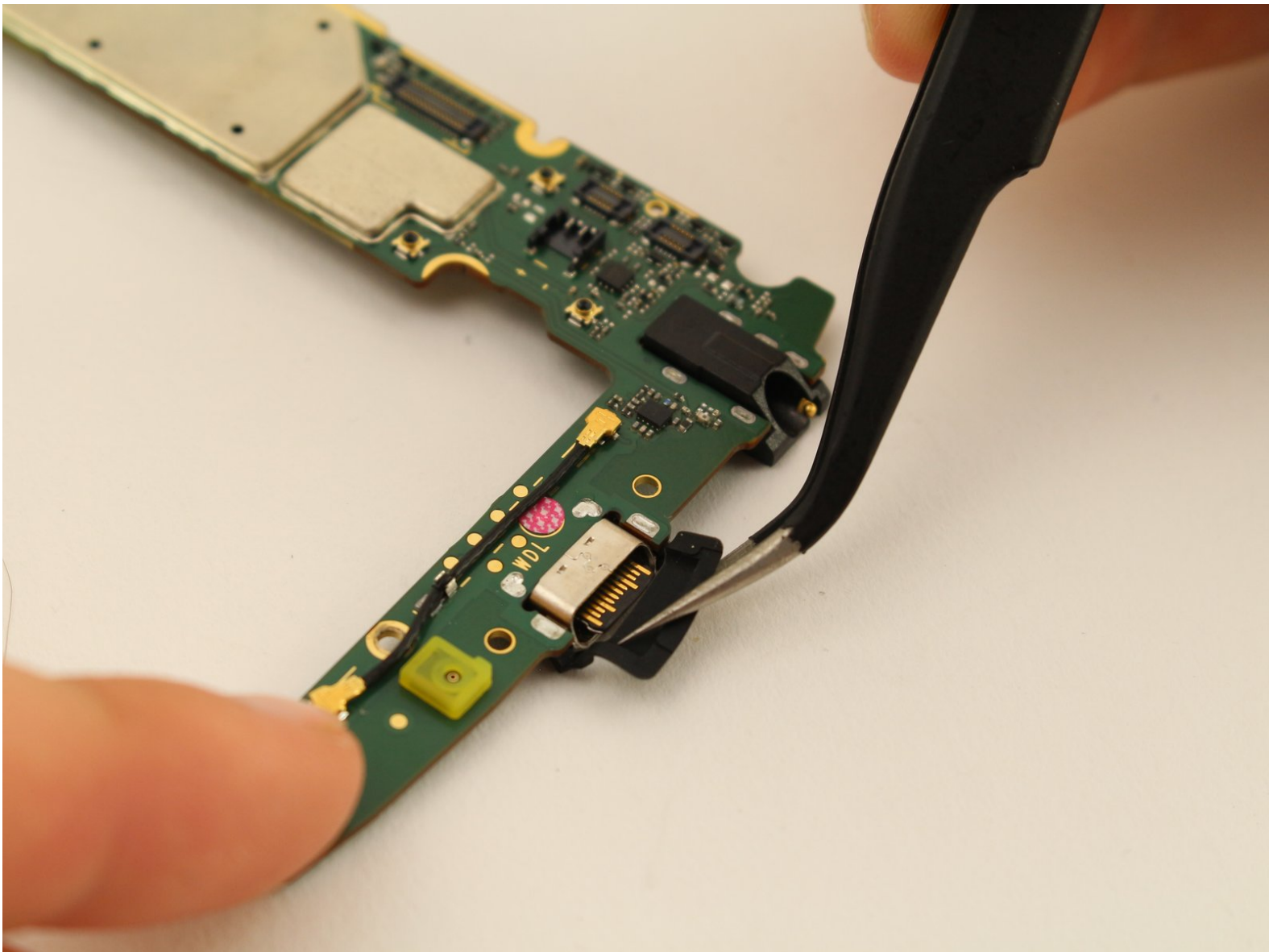# Motorola Moto G6 Charging Port Replacement

This step by step guide will guide the reader towards fixing their device's charging port.

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INTRODUCTION

The Motorola Moto G6 features a USB type C charging port. The charging port allows the battery to recharge through an external power source. If the charging port is damaged, it may lead to a damaged battery, or a nonchargeable device. This will require a charging port replacement.

This guide teaches how to perform a charging port replacement. No repair experience is required. However, this replacement will require tools to pry the back shell open, unscrew plates within the device, remove interior pieces, and solder inside of the device. The specific device model in this guide is XT1925-12. Other model numbers include: XT1925-4, XT1925-5, XT1925-6, and XT1925DL.

Before beginning the repair, make sure the device is turned off and disconnected from an external power source. Gather the suggested tools listed below and a new Motorola Moto G6 charging port.

TOOLS:

- Spudger (1)
- Suction Handle (1)
- Phillips #000 Screwdriver (1)
- Tweezers (1)
- iFixit Opening Picks set of 6 (1)
- iOpener (1)
- Soldering Iron (1)

PARTS:

- Precut Adhesive Card (1)

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Step 1 — Remove the Rear Glass

⚠ Power your phone off before you begin.

● If possible, drain the battery before disassembly. When the battery is charged, there's an increased risk of a dangerous thermal event if the battery is overheated or damaged during repairs.

ⓘ If the rear glass is cracked, completely cover it with packing tape to contain the glass shards and avoid injury.

● Prepare an iOpener and heat the back of the phone along its bottom edge for about two minutes, or until it's slightly too hot to touch. This will help soften the adhesive securing the rear glass.

ⓘ You may need to reheat and reapply the iOpener several times to get the phone warm enough. Follow the iOpener instructions to avoid overheating.

⚠ A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the phone —the display and internal battery are both susceptible to heat damage.

Step 2

- Apply a suction cup to the bottom edge of the rear glass.

- Pull up on the suction cup with firm, constant pressure to create a slight gap between the rear glass and the frame.

  - ⓘ If the glass is cracked, the suction cup may not stick. Try lifting it with strong tape, or superglue the suction cup in place and allow it to cure so you can proceed.

  - ⓘ This may require a significant amount of force, but you only need to open a very slight gap with the suction cup to insert your tool.

  - If you have trouble, apply more heat to further soften the adhesive, and try again. The adhesive cools quickly, so you may need to heat it repeatedly.

- Insert an opening pick into the gap you created under the rear glass.

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Step 3

- Slide the pick all along the bottom edge of the phone to slice through the adhesive securing the rear glass.

⚠ Slow down and slice very carefully as you get to the corners. The curved part of the glass along the left and right edges can crack very easily if the pick pushes up against the curved glass.

ⓘ After being cut, the adhesive will sometimes stick back together as it cools. To prevent this you can leave the pick in this edge after cutting, and continue the next steps with a new pick. Repeat this with each edge, leaving a pick and continuing with a new one.

Step 4

- Heat the right edge of the back of the phone to soften the adhesive underneath.

Step 5

- Slide the pick along the right edge of the rear glass to separate the adhesive underneath.

Step 6

- Heat the top edge of the back of the phone to soften the rear glass adhesive.

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Step 7

- Slide the pick all along the top edge of the phone to slice through the adhesive securing the rear glass.

- ⚠️ Slow down and slice very carefully as you get to the corners. The curved part of the glass along the left and right edges can crack very easily if the pick pushes up against the curved glass.
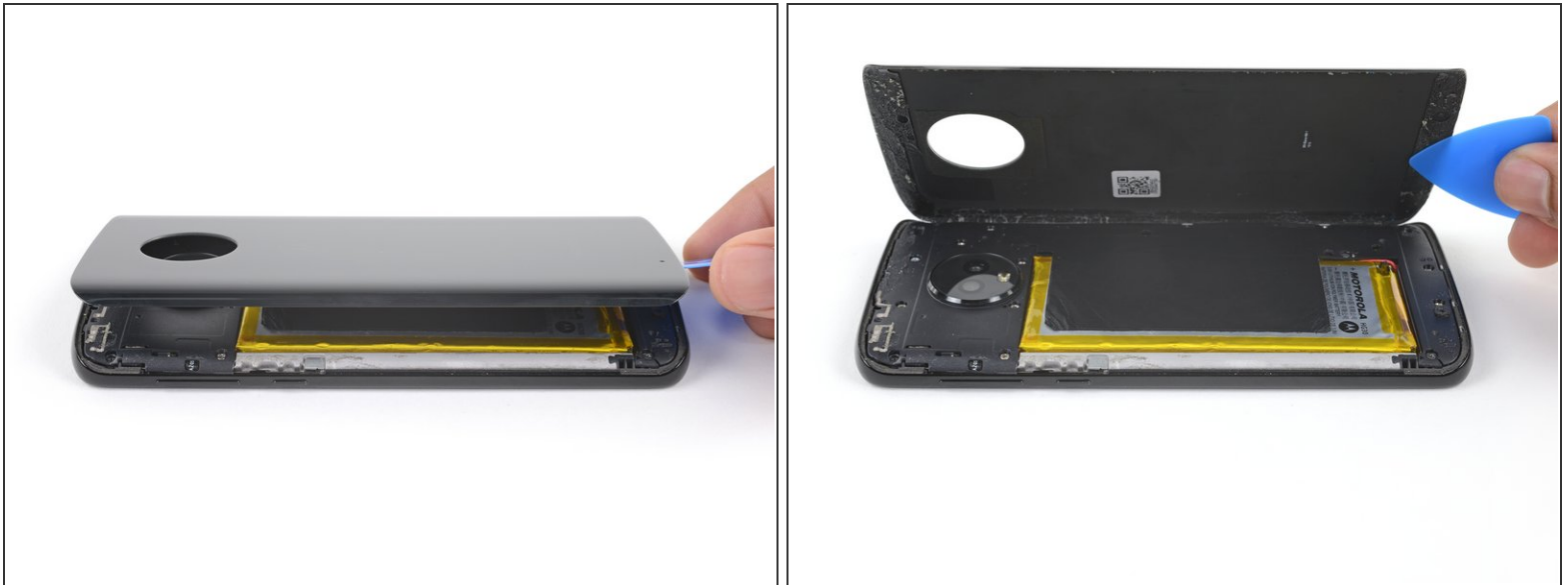
Step 8

- Heat the left edge of the back of the phone to soften the adhesive underneath.

Step 9

- Slide a pick along the left edge of the phone to slice through the rear glass adhesive.

Step 10

- If the glass remains stuck, re-heat and slice the adhesive repeatedly as needed.

- Lift the rear glass carefully, making sure it's fully separated from any adhesive.

- Remove the rear glass.

- 📌 During reassembly, pause here to replace the adhesive on the rear glass using a precut adhesive card or high-strength double-sided adhesive tape, such as Tesa 61395.

- 📌 After closing your device back up during reassembly, stack something heavy, like a textbook or two, on top of the device for 30-60 minutes. This ensures a strong adhesive bond.

Step 11 — Remove the Battery Tape

- Use a pair of tweezers to carefully peel up the black tape covering the battery.

- Remove the tape.
  - (i) If possible, keep the tape intact so it can be reused during reassembly.

## Step 12 — Remove the Plastic Cover

- Use a Phillips driver to remove seventeen screws securing the plastic cover:

  - Eleven grey 3 mm-long screws

  - Five black 2.5 mm-long screws

  - One silver 3.5 mm-long screw

Step 13

- Insert the pointed end of a spudger into the notch at the top left edge of the plastic cover.

- Pry up with the spudger to lift the upper edge of the cover and release the clips holding the cover down.

- Remove the plastic cover.

Step 14 — Motherboard
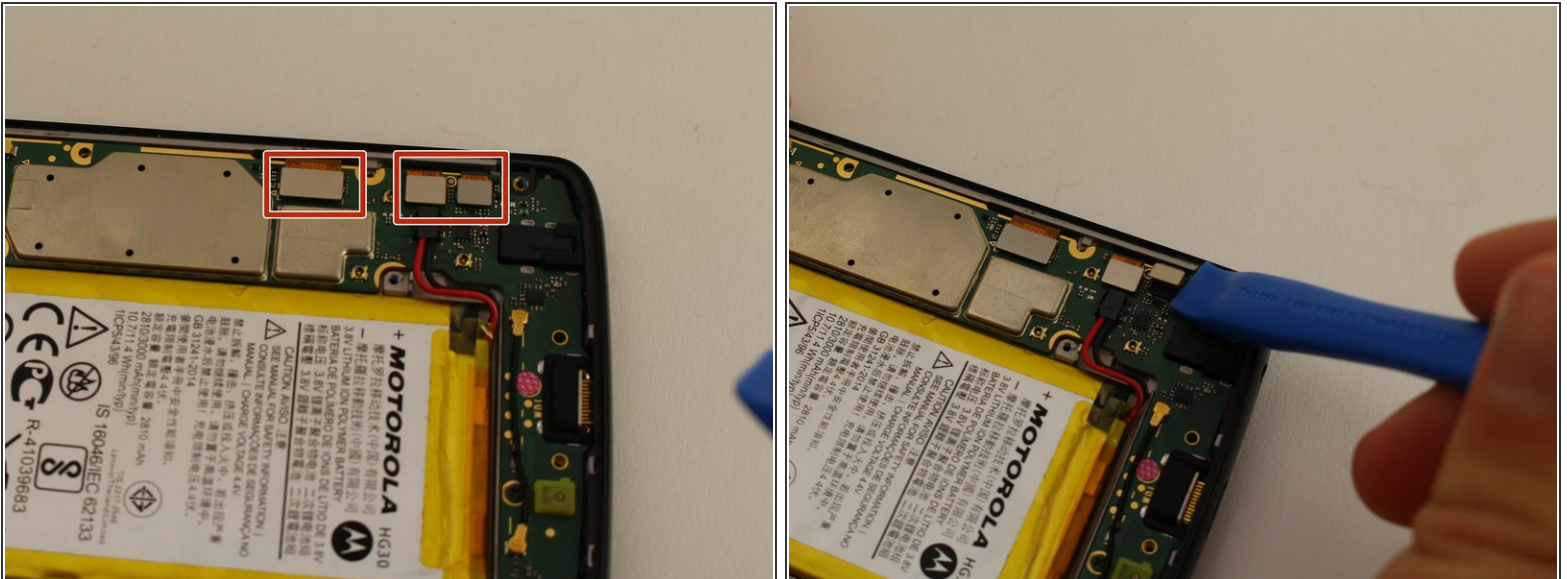
- Using the iFixit opening tool, pop up the three press-fit connectors in the bottom right corner of the motherboard.

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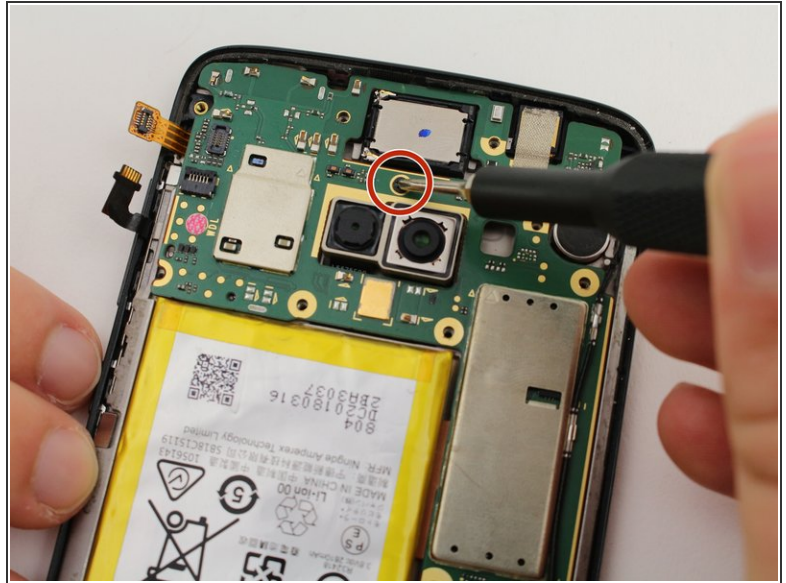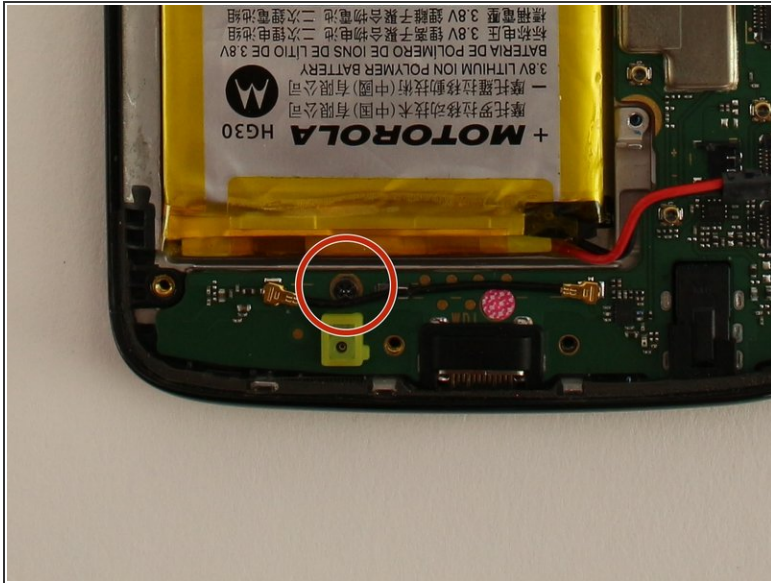
Step 15

- Using tweezers, pull up the battery connector to remove it from its port in the motherboard.

- ⭐ Before moving on ensure your device has all four the connections undone from the third picture.

Step 16
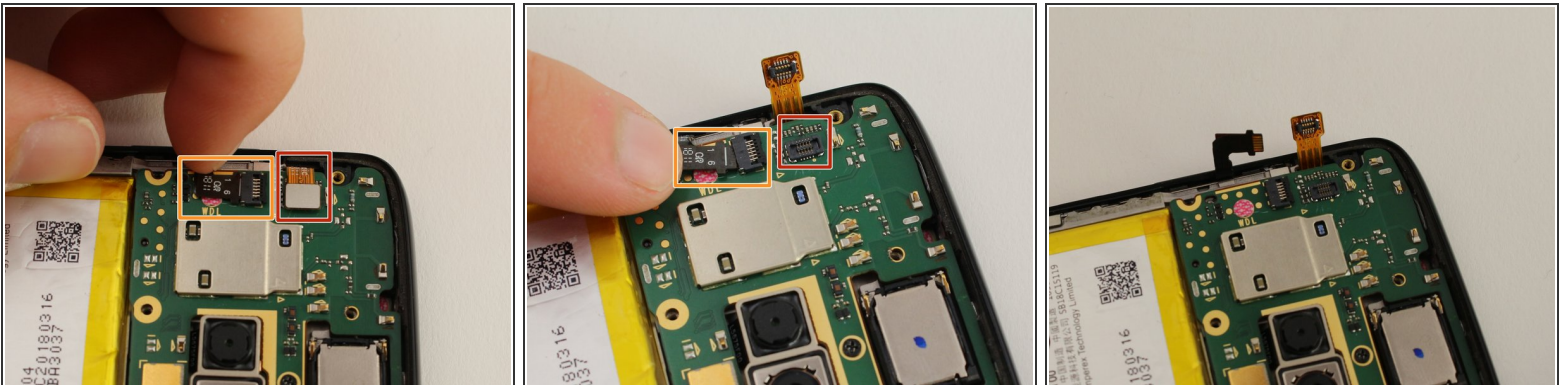
- Use the opening tool to disconnect the press-fit connection on the top left of the motherboard, similar to the previous step.

- Use either your fingernail or tweezers to pull the orange boxed connector out. Unlike the other connections, this one is pulled down and not up from the device.
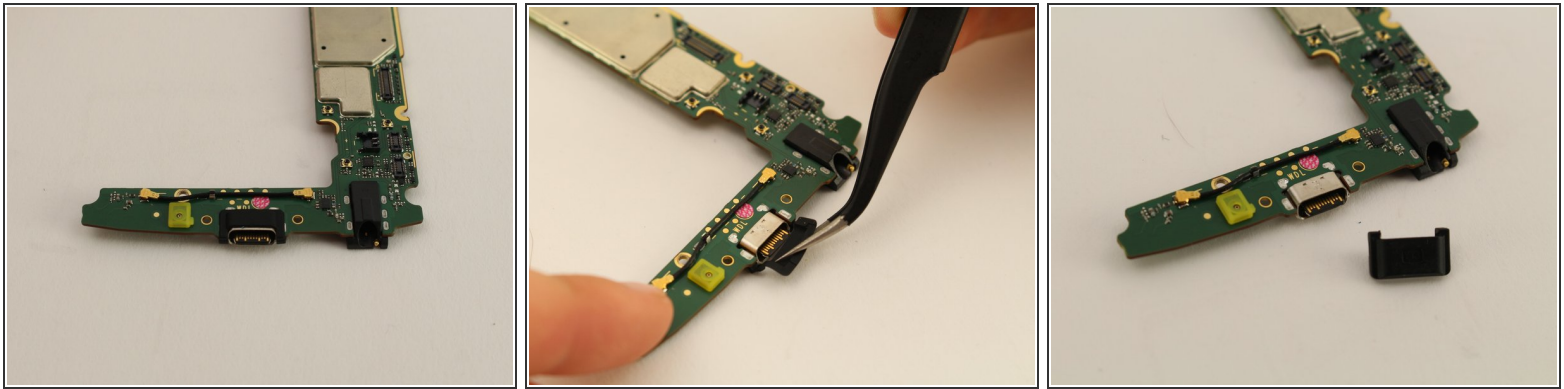
Step 17

- Remove the two black 2.7 mm screws from the motherboard.

Step 18

- Remove the motherboard out of place.

- When reassembling your device ensure you set the mother board under all of the connectors and make sure the cameras and the marked red piece remain in place.

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Step 19 — Charging Port

- Take off the black rubber cover around the charging port with a pair of tweezers.

Step 20
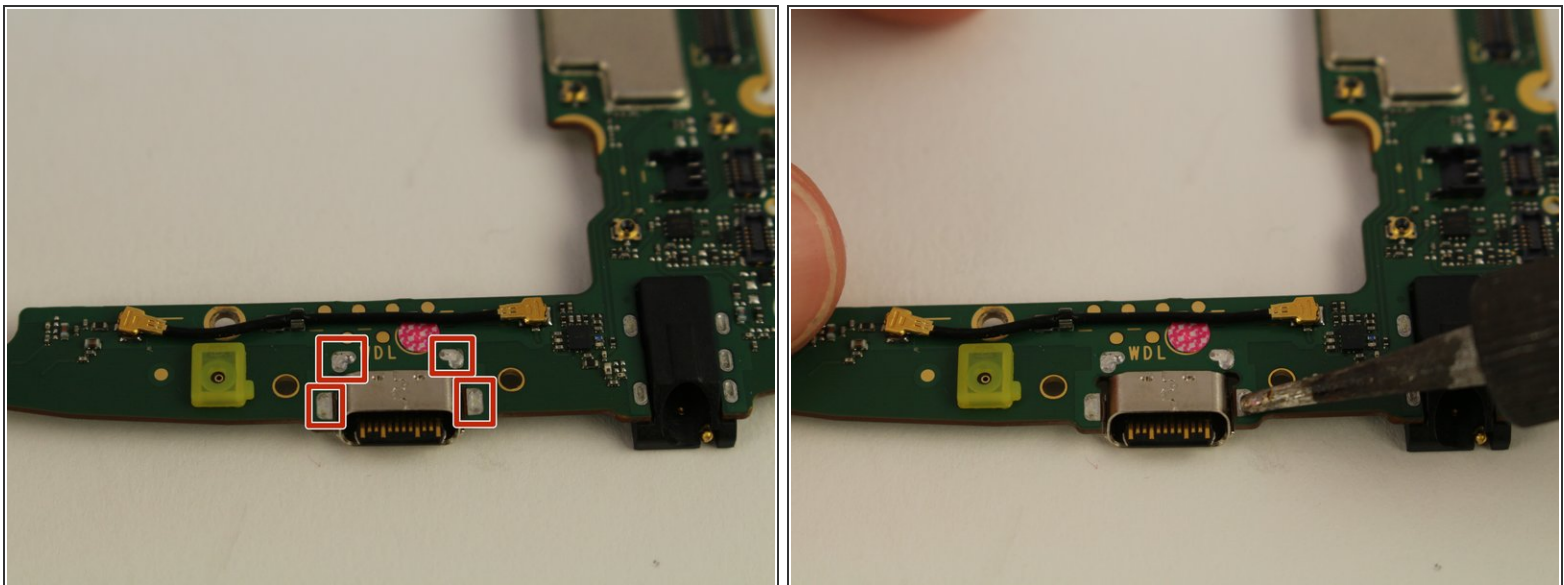
- Carefully desolder the four pins which physically hold the port in place.

- Carefully de-solder the electrical pins which connect the port to the circuit board.

- For assistance soldering, check out this soldering guide.

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

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