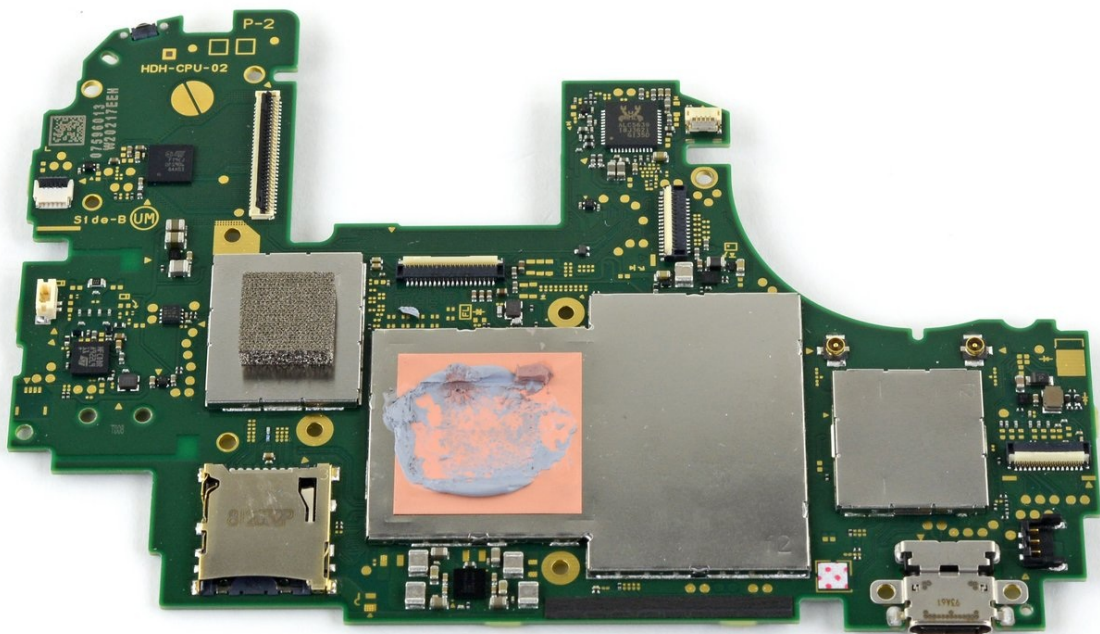




Nintendo Switch Lite Motherboard Replacement

Follow this guide to replace a faulty or...

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INTRODUCTION

Follow this guide to replace a faulty or damaged motherboard in the Nintendo Switch Lite.

The Switch Lite uses JIS screws, but you can use a Phillips screwdriver in a pinch. Be very careful not to strip the screws. iFixit's Phillips bits are designed to be cross-compatible with JIS-style screws.


Note: This procedure requires removing the shield plate and heat sink. The thermal paste will need to be cleaned off of both components—as well as the CPU—and reapplied before reinstalling the shield plate and heat sink.


TOOLS:

- Tri-point Y00 Screwdriver (1)
 - Phillips #00 Screwdriver (1)
 - iFixit Opening Tool (1)
 - Spudger (1)
 - Microfiber Cleaning Cloths (1)
 - Isopropyl Alcohol (1)
 - Thermal Paste (1)
 - Nylon Tipped Tweezers (1)
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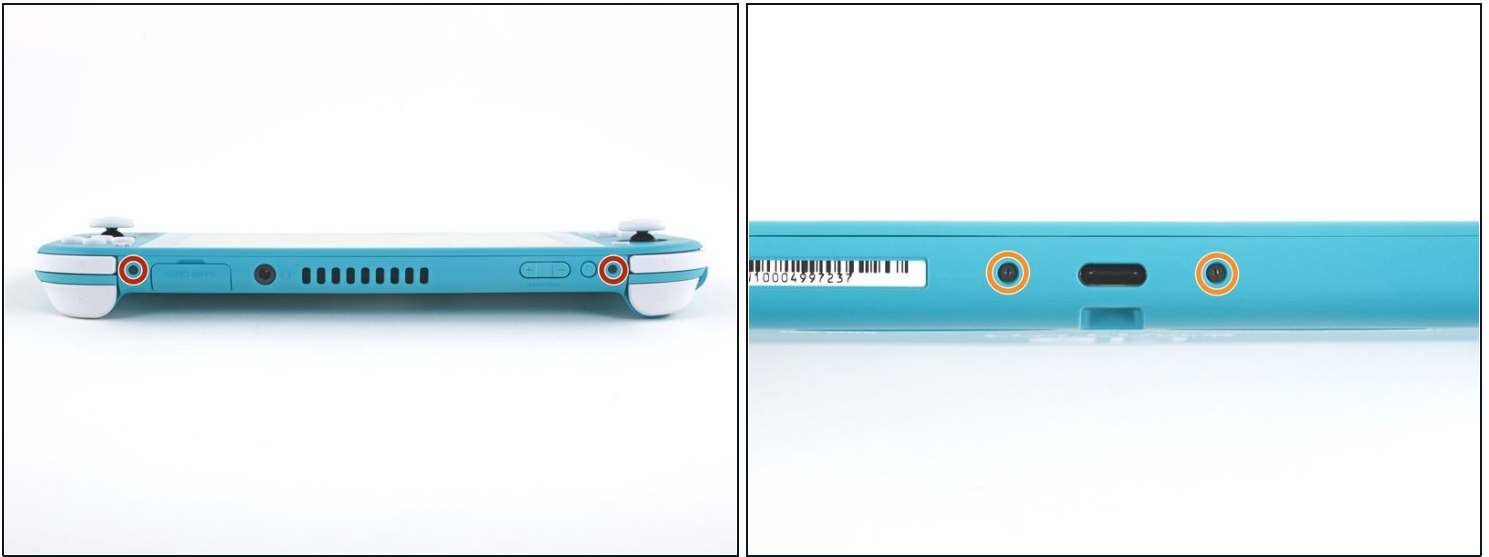
Step 1 — Remove the back panel screws



 Before beginning this repair, make sure that the device is completely turned off.

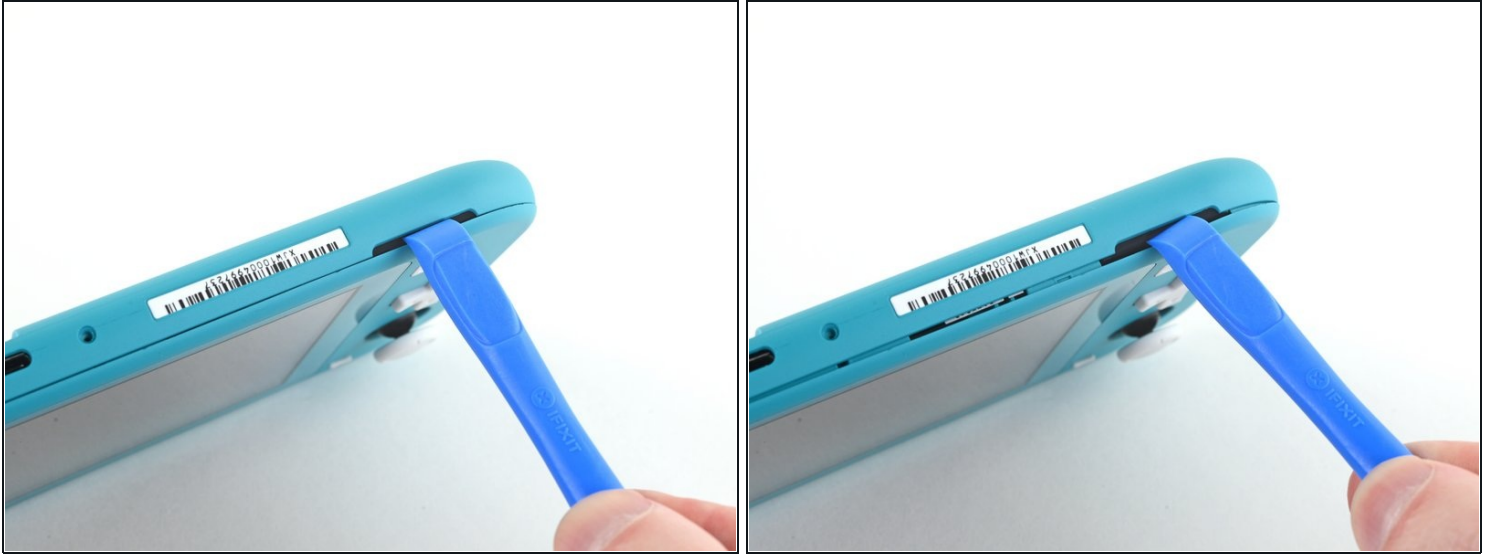
- Use a Y00 screwdriver to remove the four 6.3 mm-long screws securing the back panel.
-  Throughout this repair, [keep track of each screw](#) and make sure it goes back exactly where it came from.

Step 2 — Remove the top and bottom back panel screws



- Use a JIS 000 driver or an official iFixit PH 000 driver to remove the following screws securing the back panel:
 - Two 3.6 mm-long screws on the top of the device
 - Two 3.6 mm-long screws on the bottom of the device
- ① To prevent these tight screws from [stripping](#), apply firm downward force, work slowly and try a different screwdriver if the screws won't come out.

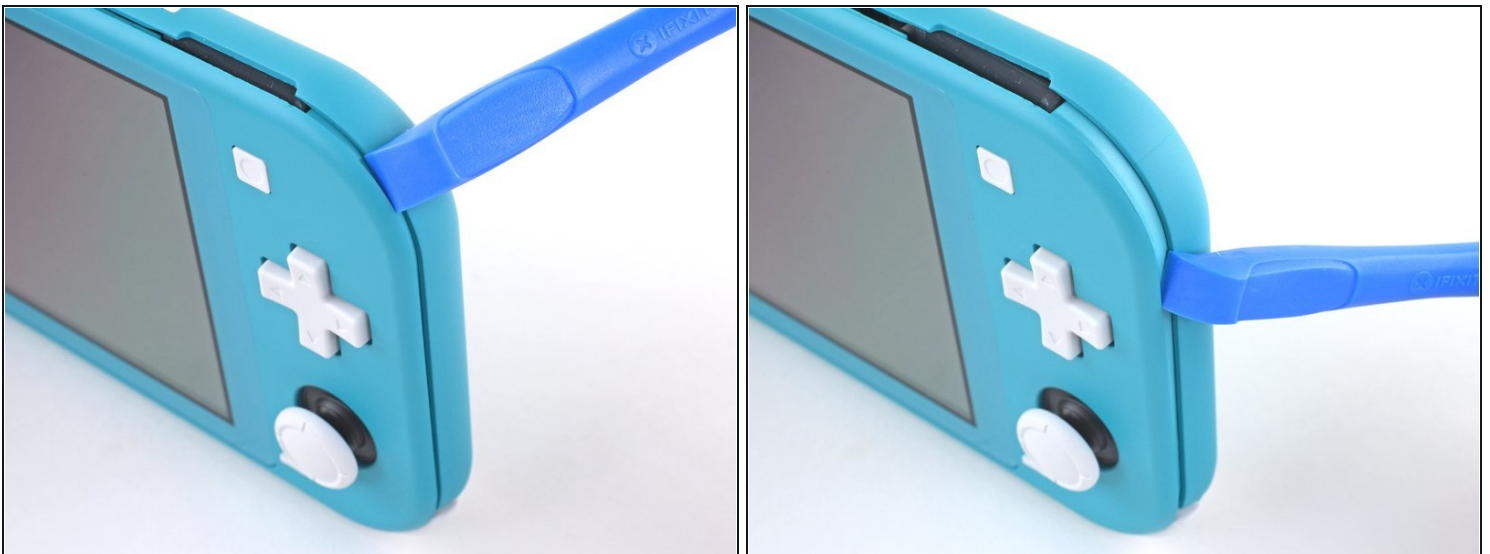
Step 3 — Release the clips securing the back panel



- Insert an opening tool into the left speaker grille on the bottom of the device.
- Twist the opening tool to release the clips securing the back panel.

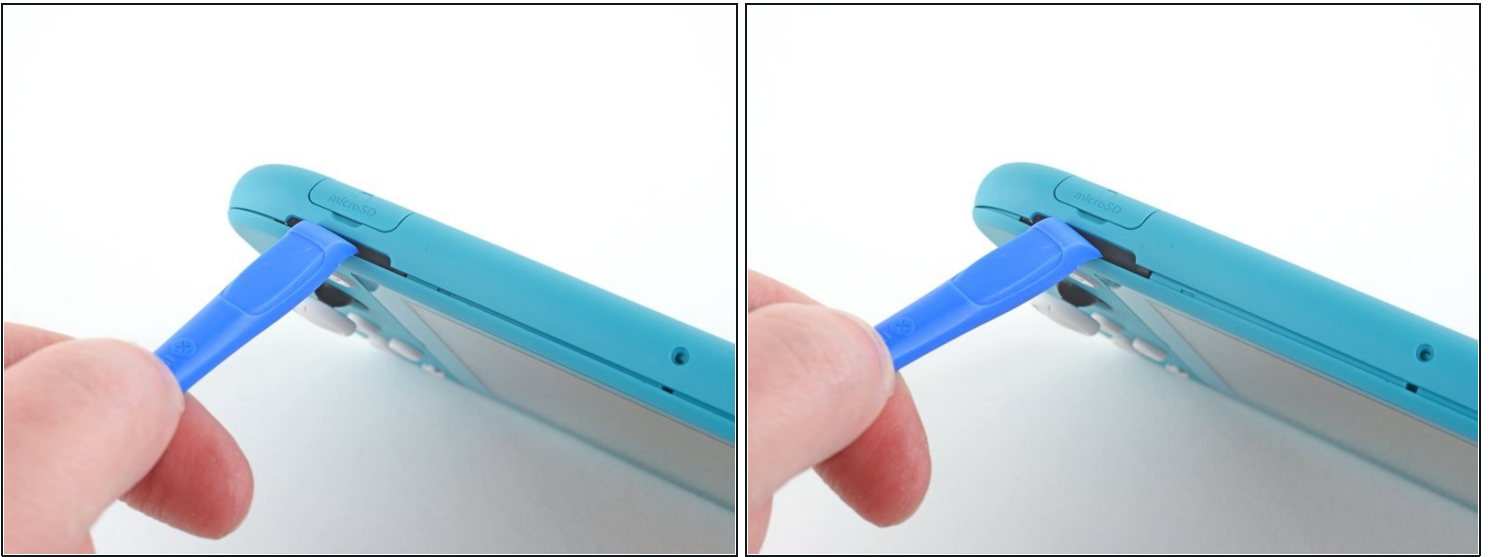
⚠ Avoid inserting the opening tool further than required to prevent damage to the speaker module.

Step 4 — Continue releasing the clips around the device



- Slide the opening tool around the bottom-left corner to release the clips on the left side of the device.

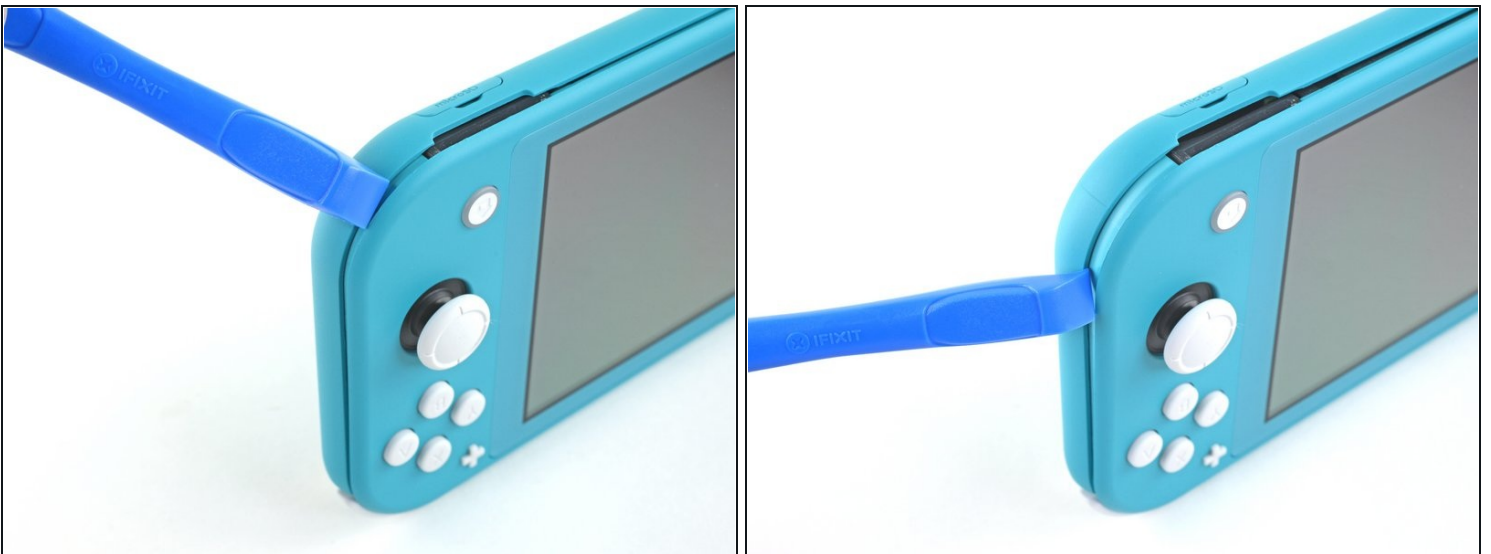
Step 5 — Twist to release the clips



- Insert an opening tool into the right speaker grille on the bottom of the device.
- Twist the opening tool to release the clips.

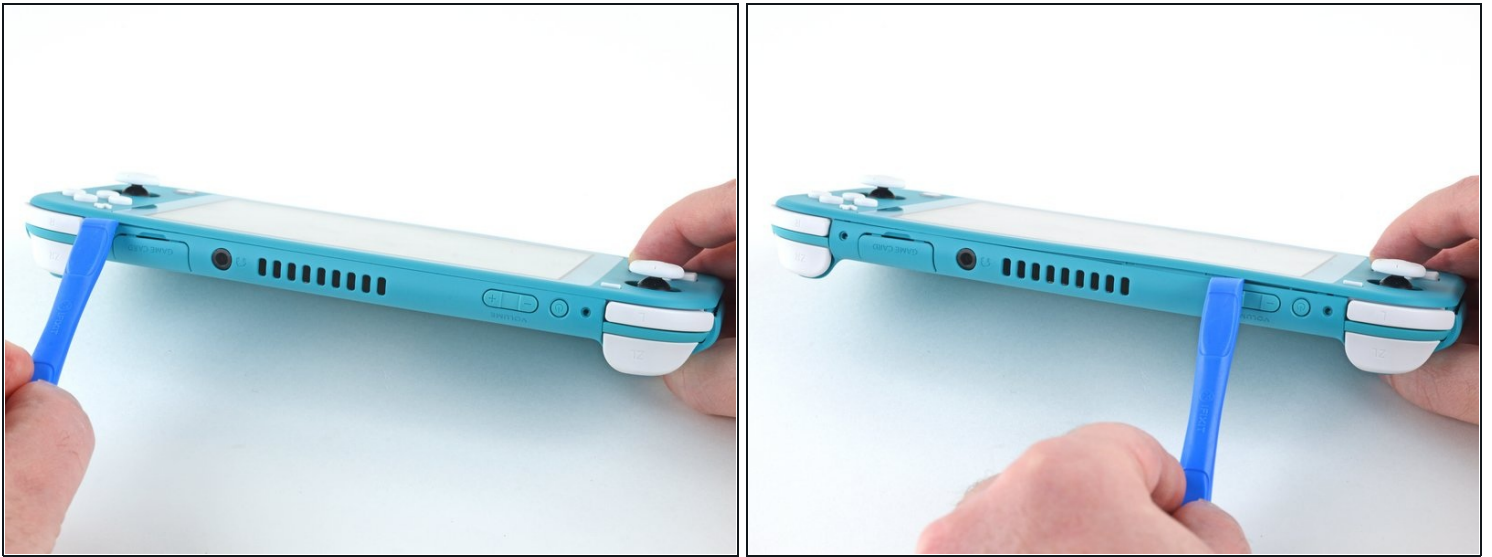
⚠ Avoid inserting the opening tool further than required to prevent damage to the speaker module.

Step 6 — Slide and pry around the corners



- Slide and pry the opening tool around the bottom-right corner to release the clips on the right side of the device.

Step 7



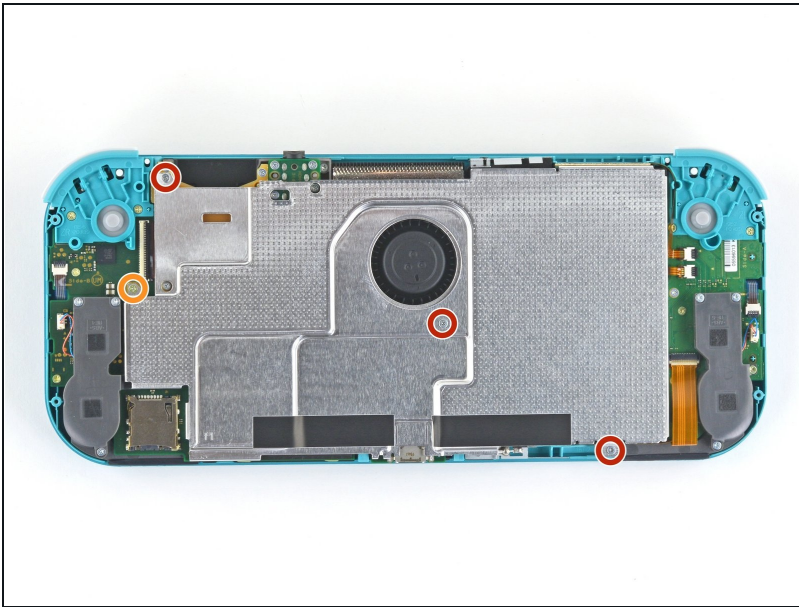
- Continue sliding and prying the opening tool along the gap on the top of the device to release the clips.

Step 8 — Remove the back panel



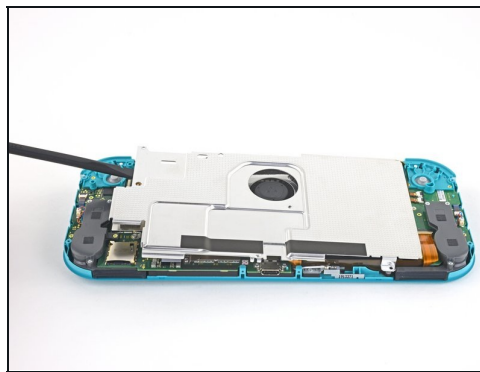
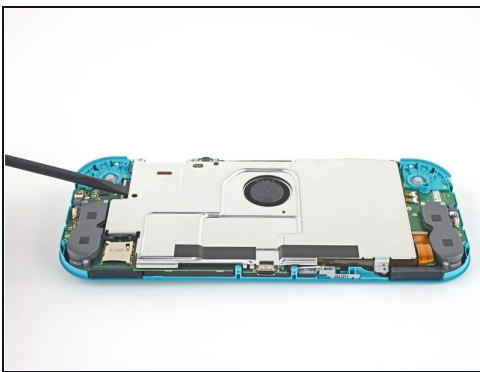
- Lift the bottom edge of the back panel, opening it like a book.
- Remove the back panel.

Step 9 — Remove the shield plate



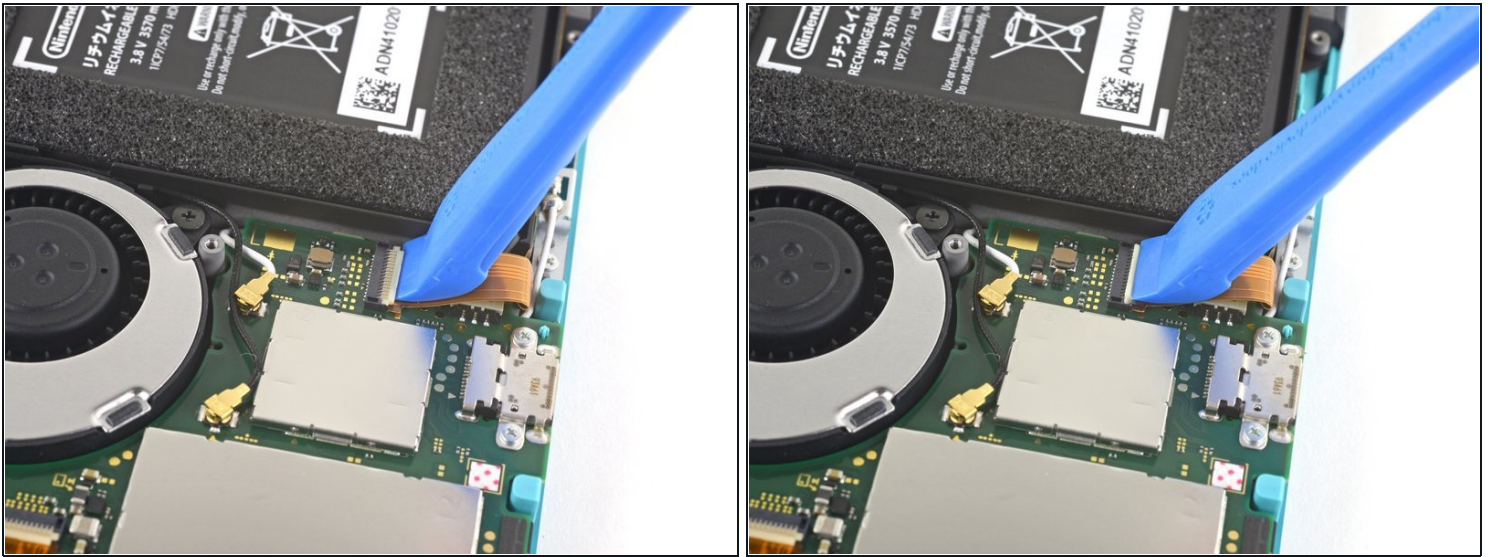
- Use a JIS 000 driver or an official iFixit PH 000 driver to remove the following four screws:
 - Three 3.1 mm screws
 - One 4.5 mm screw

Step 10



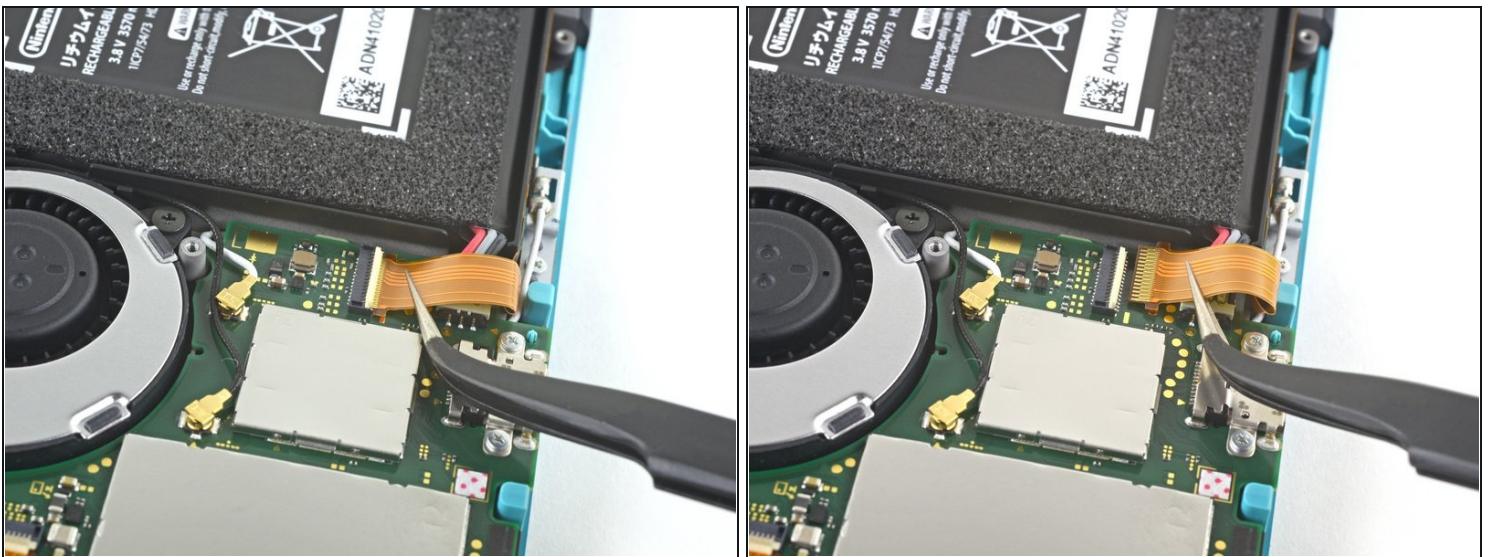
- Use a spudger or your fingers to lift the shield plate up and out of the device.
 - ⓘ You may feel a bit of resistance. This is normal, since the shield plate is slightly bonded to the heat sink with thermal paste.
- Remove the shield plate.
 - ☑ Clean off the old thermal paste from the shield plate and heat sink using isopropyl alcohol and a microfiber cloth. [Apply new thermal paste](#) to the heat sink before reassembly.

Step 11 — Disconnect the battery



- Use an opening tool or your fingernail to flip up the small, hinged locking flap on the motherboard interconnect cable's [ZIF connector](#).

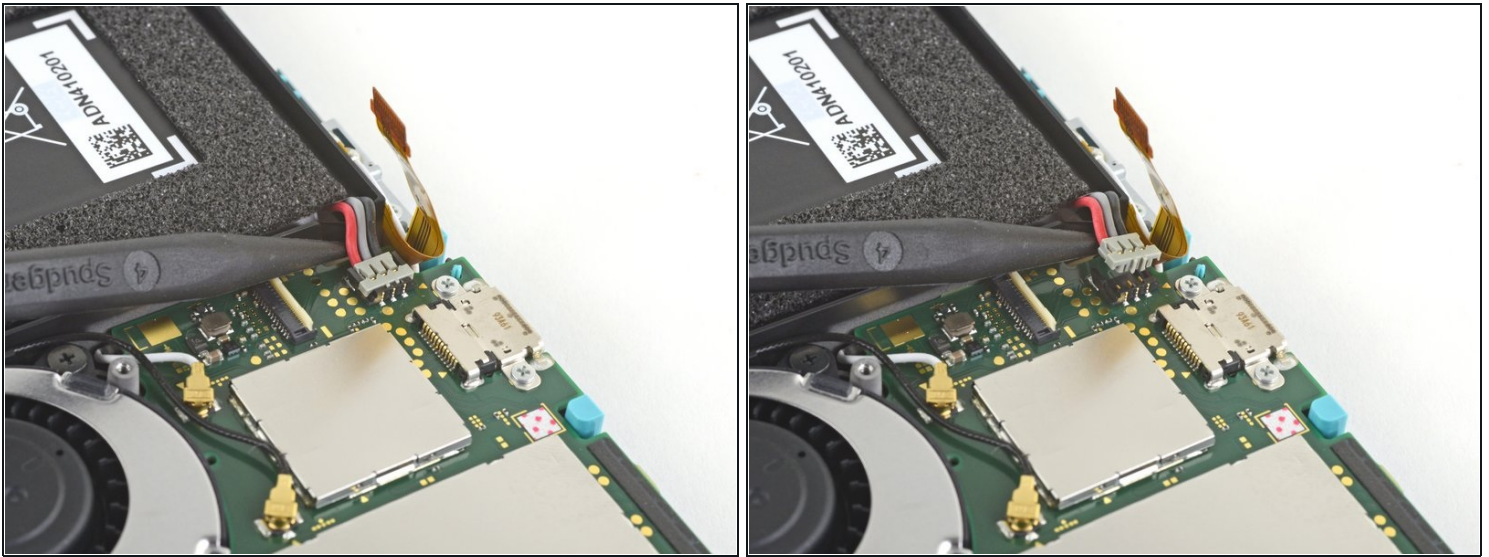
Step 12



⚠ Do Not Use Metal Tweezers! Some fixers state that metallic tweezers can short circuit the ribbon cable/connector. It might be safer to just use nylon-tipped or ceramic-tipped tweezers.

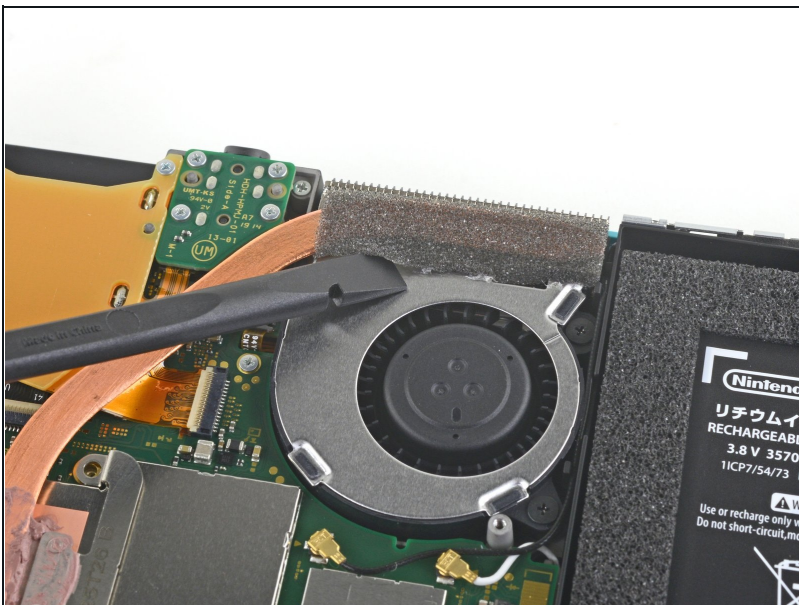
- Use a pair of tweezers to slide the interconnect cable out of its connector on the motherboard.

Step 13



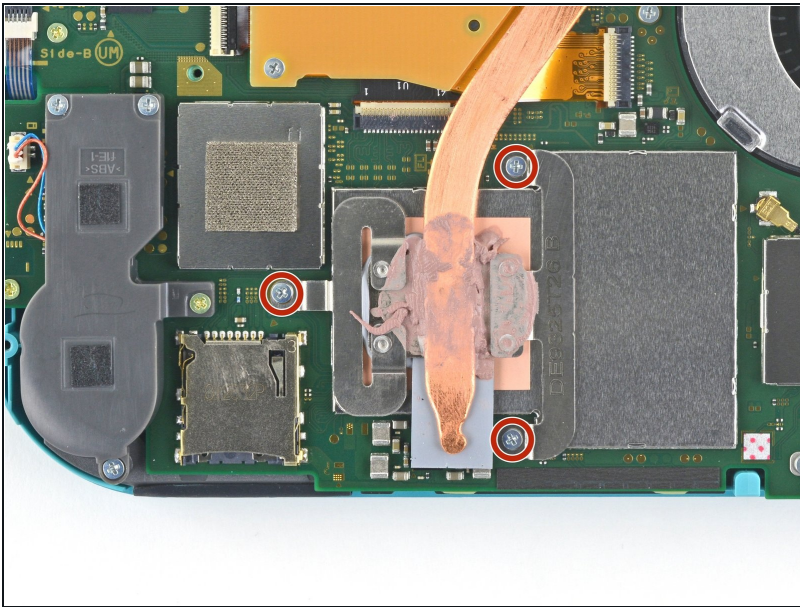
- Use the point of a spudger to pry the battery connector straight up and out of its socket on the motherboard.

Step 14 — Remove the heat sink



- Use the flat end of a spudger or your fingers to carefully peel up the foam that's lightly adhered to the fan.
- ① The foam only needs to be peeled back enough to clear the fan.

Step 15



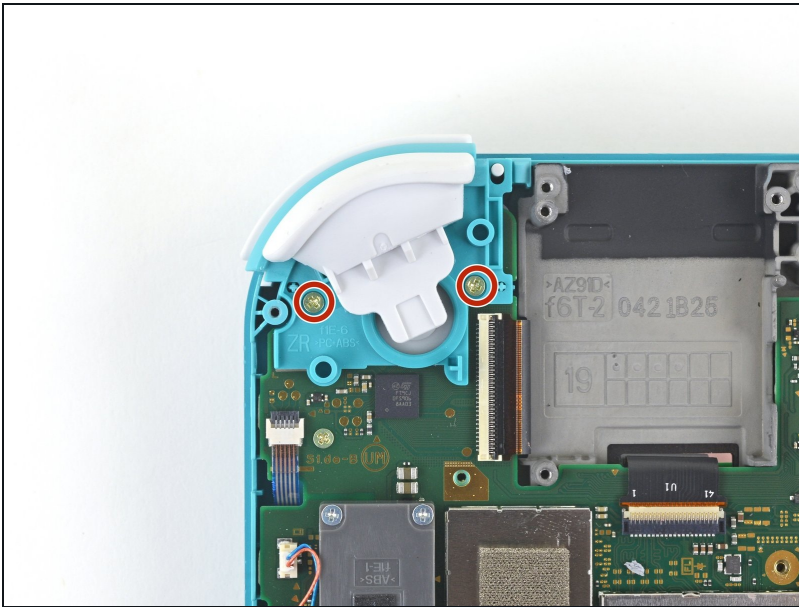
- Use a JIS 000 driver or an official iFixit PH 000 driver to remove the three 3 mm screws securing the heat sink to the motherboard.

Step 16



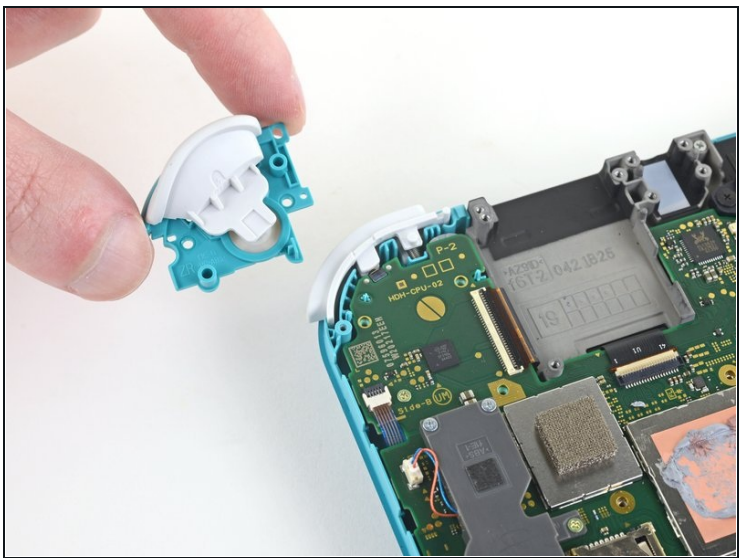
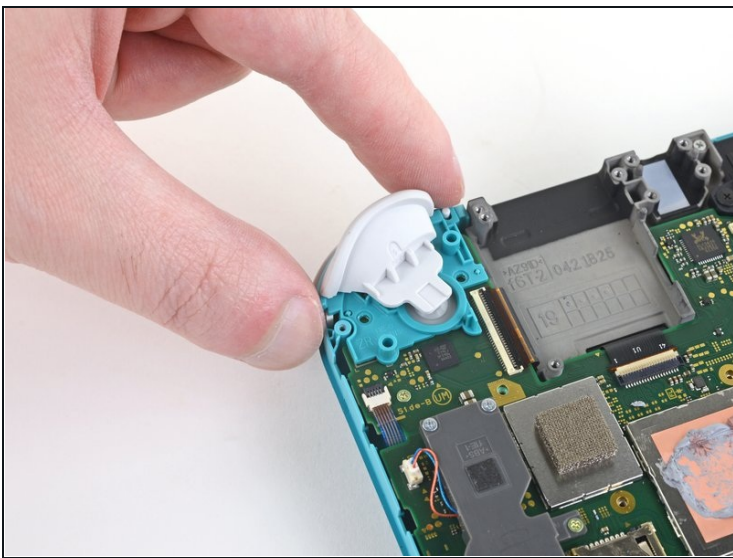
- Use a spudger or your fingers to lift the heatsink up and off of the motherboard to remove it.
 - ① You may feel a bit of resistance. This is normal, since the heat sink is slightly bonded to the CPU with thermal paste.
- ☑ Clean off the old thermal paste from the heat sink and CPU using isopropyl alcohol and a microfiber cloth. [Apply new thermal paste](#) to the CPU before reassembly.

Step 17 — Remove the right trigger button assembly



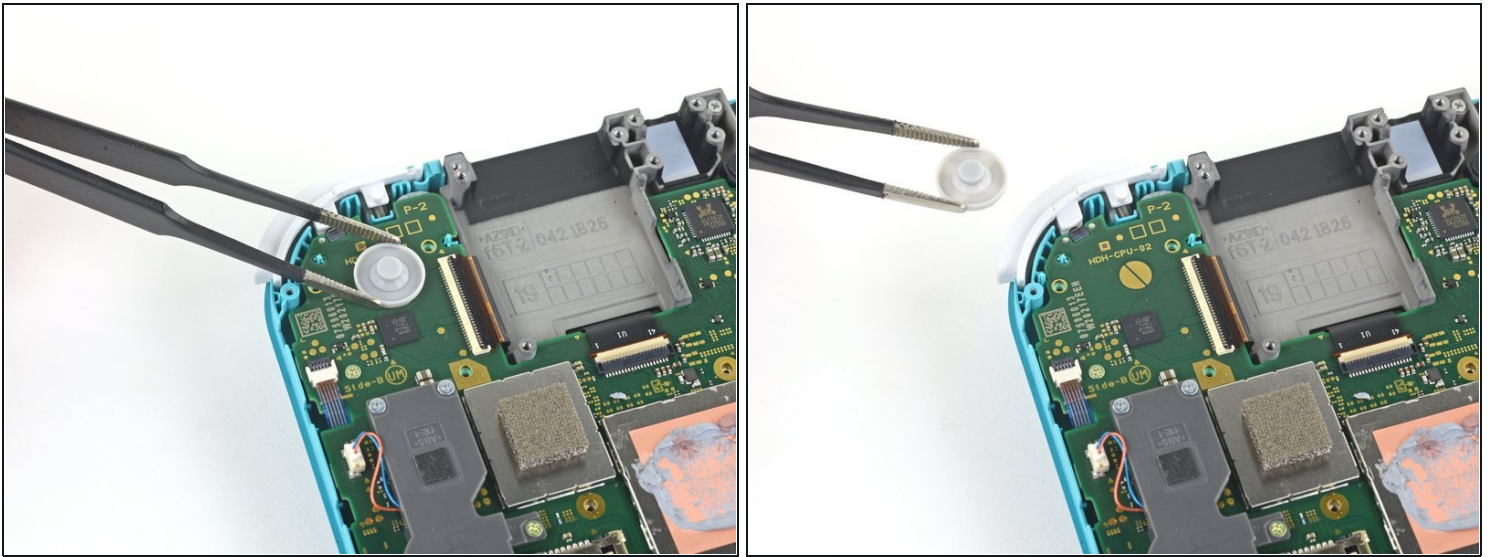
- Use a JIS 000 driver or an official iFixit PH 000 driver to remove the two 4.5 mm screws securing the right trigger button assembly to the motherboard.

Step 18



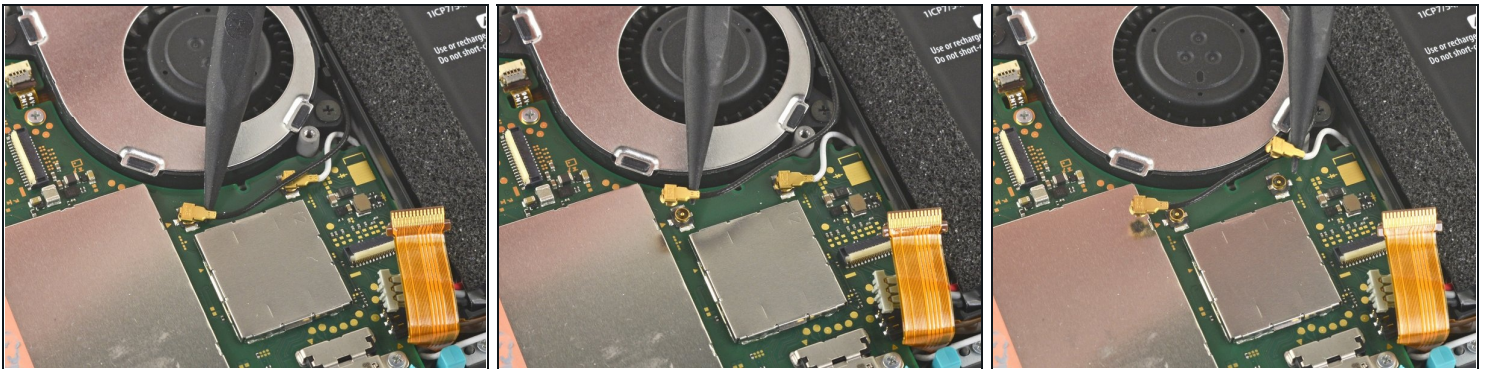
- Remove the right trigger button assembly.

Step 19



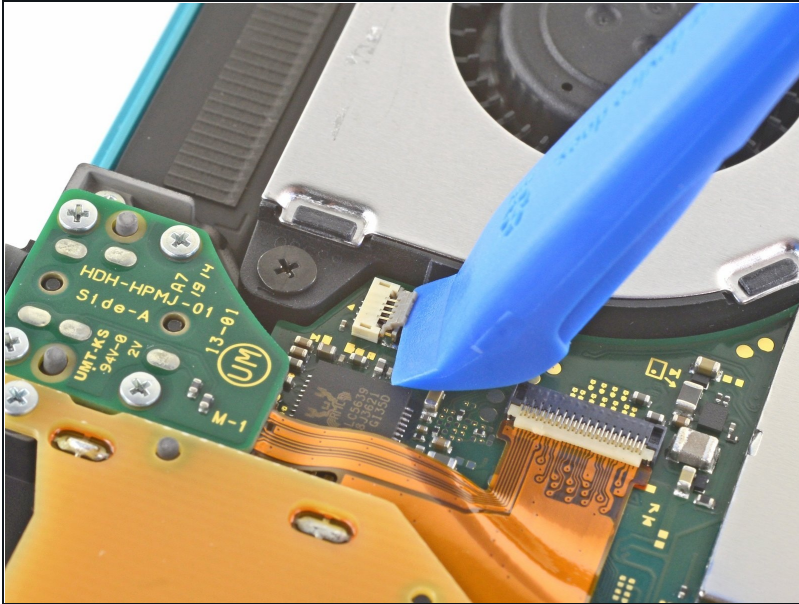
- Use a pair of tweezers or your fingers to remove the right trigger button assembly's rubber pad if it didn't stay attached to the button assembly.

Step 20 — Disconnect the antenna cables



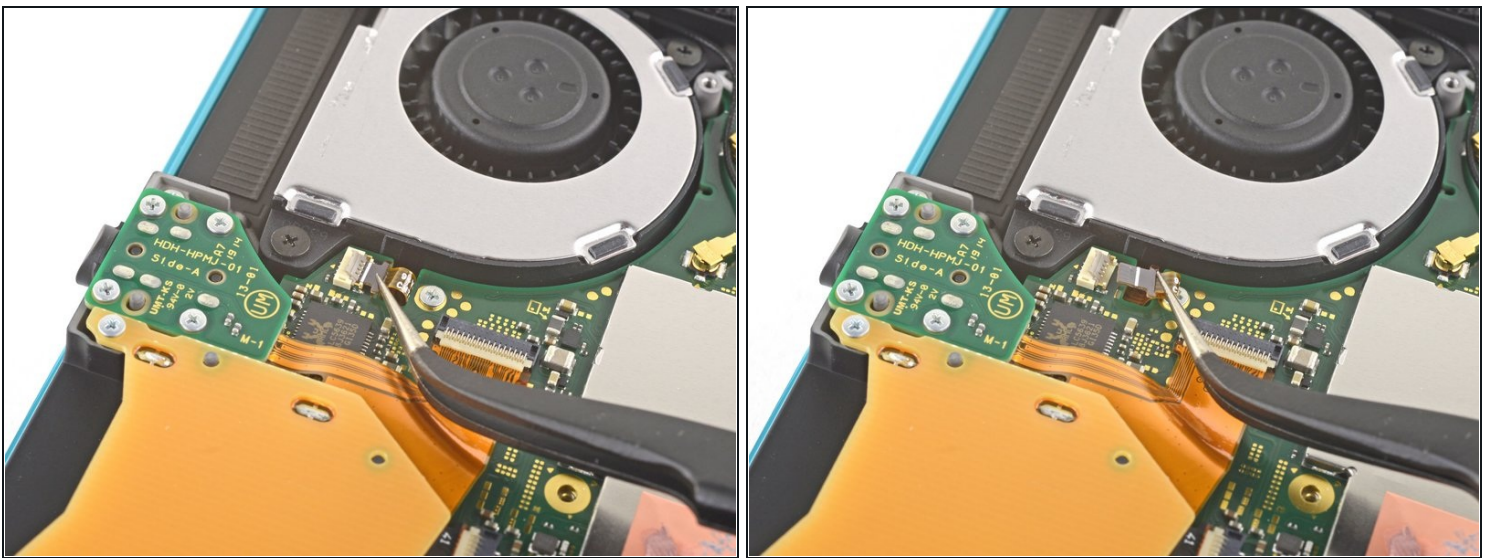
- Use the point of a spudger to pry the black antenna cable straight up out of its socket on the motherboard.
- Repeat the same process for the white antenna cable.

Step 21 — Disconnect the fan cable



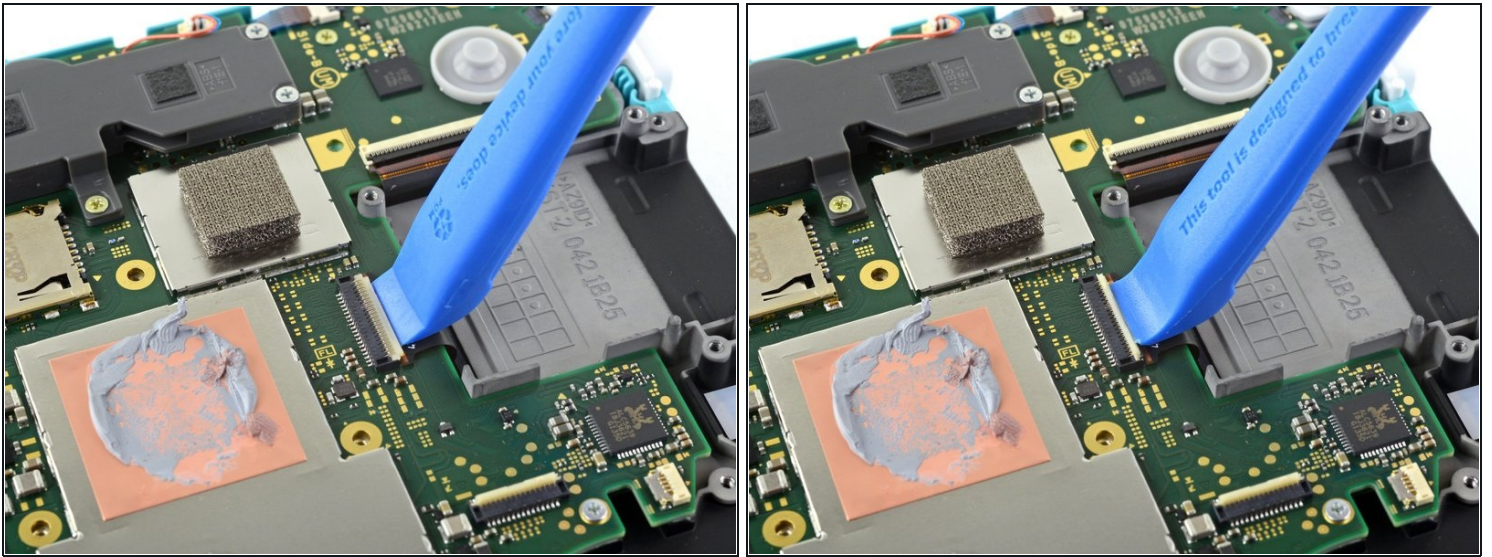
- Use an opening tool or your fingernail to flip up the small, hinged locking flap on the fan cable's ZIF connector.

Step 22



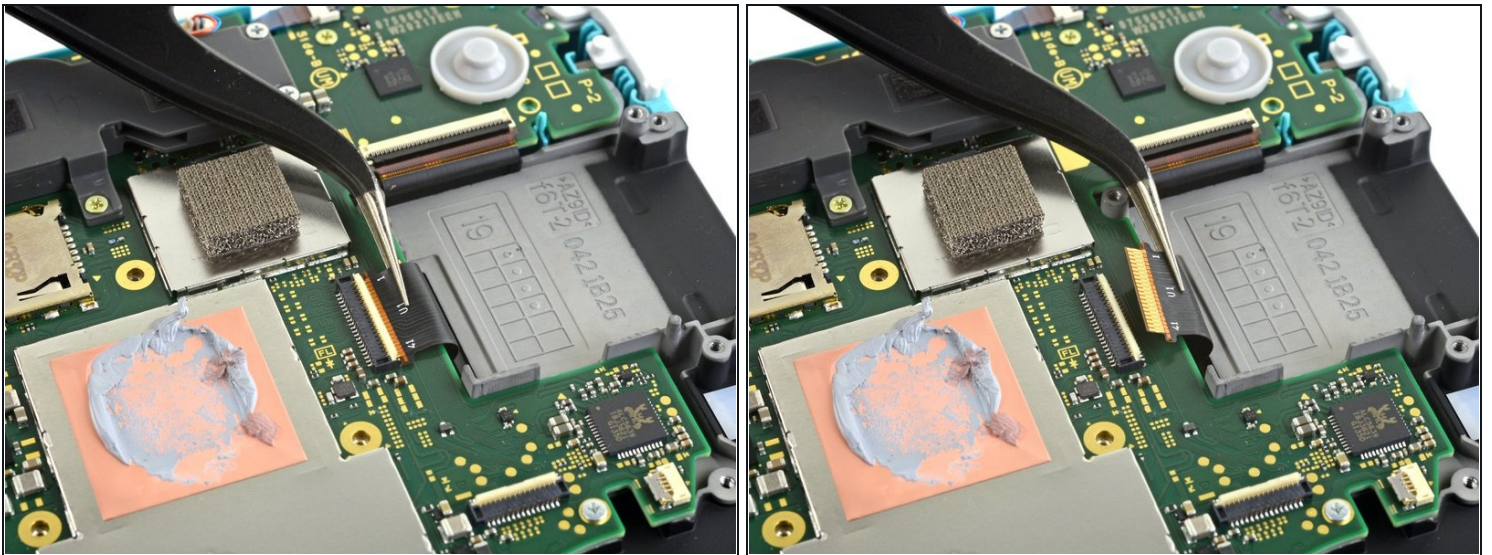
- Use a pair of tweezers to slide out the fan cable from its connector on the motherboard.

Step 23 — Disconnect the screen cable



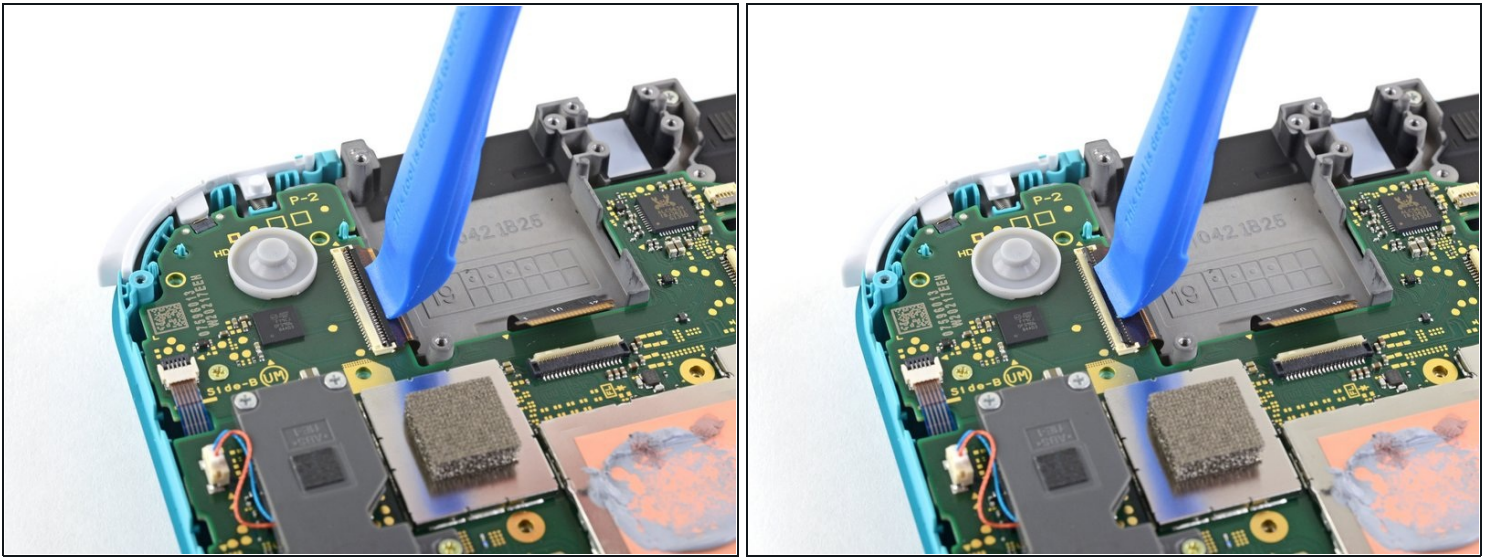
- Use an opening tool or your fingernail to flip up the small, hinged locking flap on the screen cable's ZIF connector.

Step 24



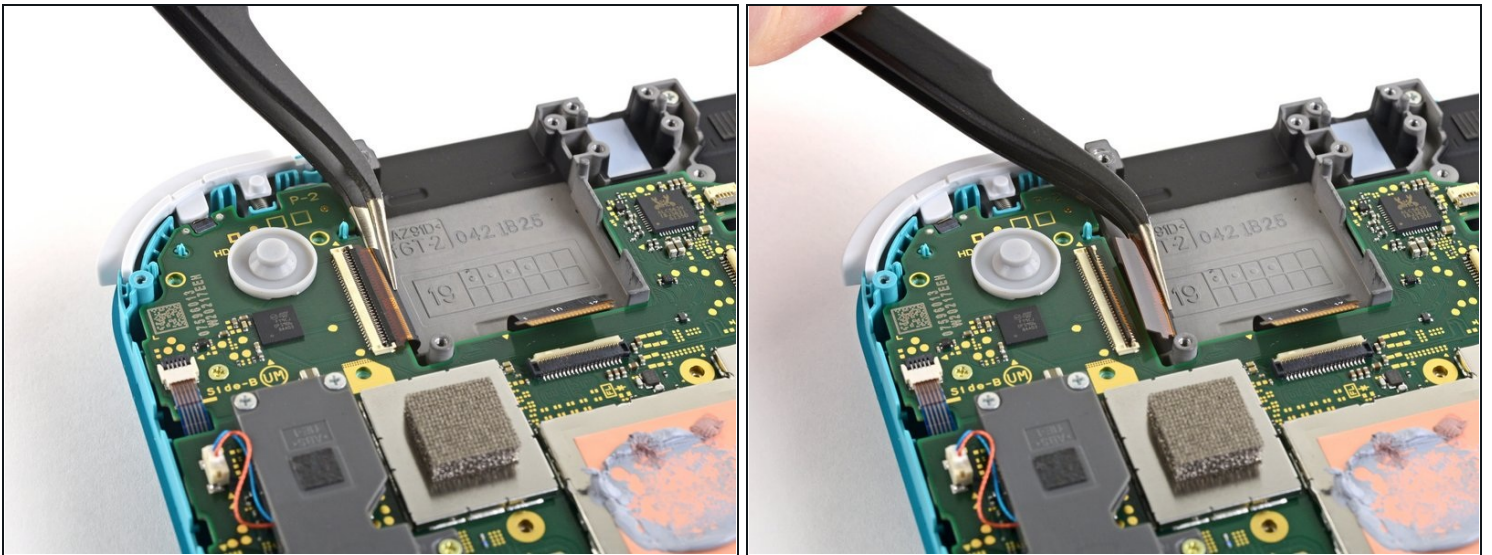
- Use a pair of tweezers to slide the screen cable out of its connector on the motherboard.

Step 25 — Disconnect the digitizer cable



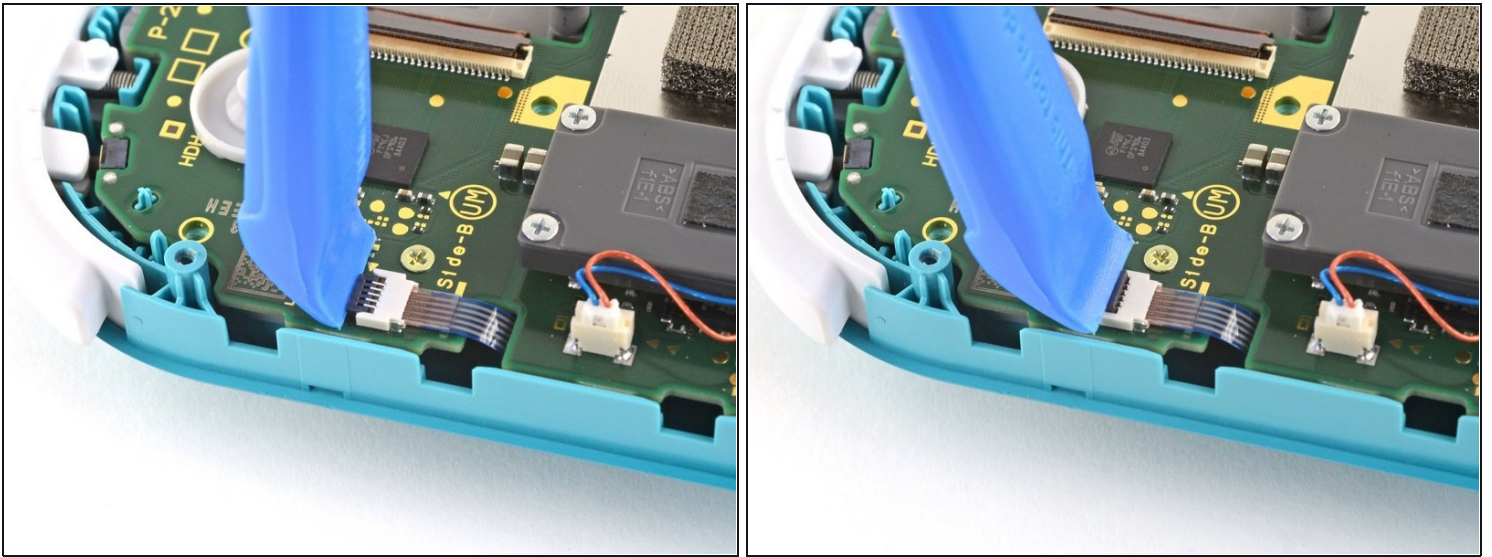
- Use an opening tool or your fingernail to flip up the small, hinged locking flap on the digitizer cable's ZIF connector.

Step 26



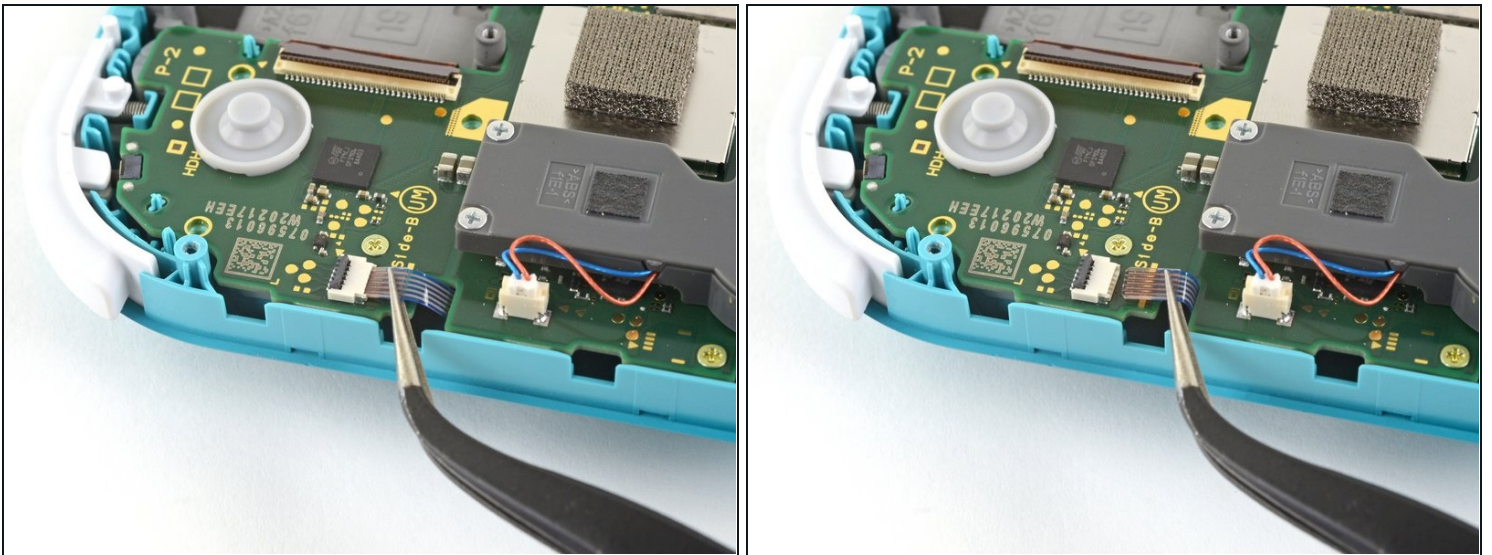
- Use a pair of tweezers to slide the digitizer cable out of its connector on the motherboard.

Step 27 — Disconnect the right joystick cable



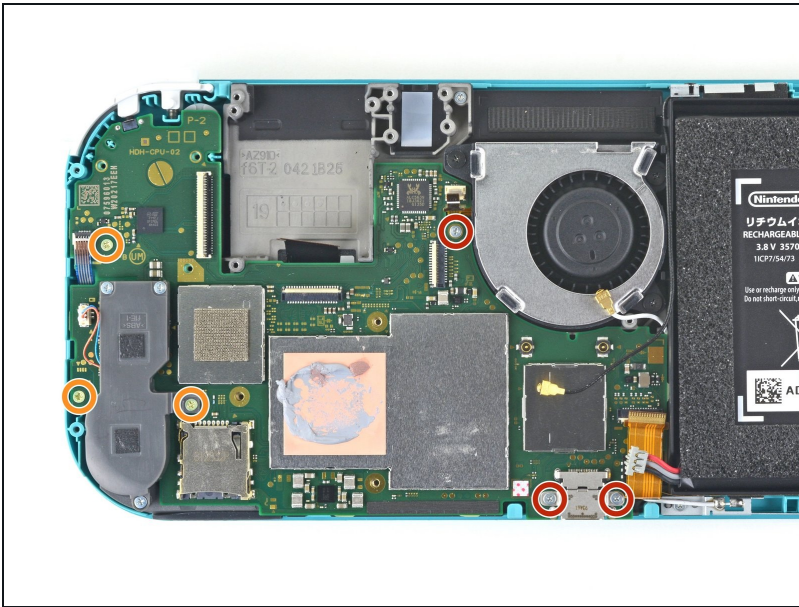
- Use an opening tool or your fingernail to flip up the small, hinged locking flap on the right joystick cable's ZIF connector.

Step 28



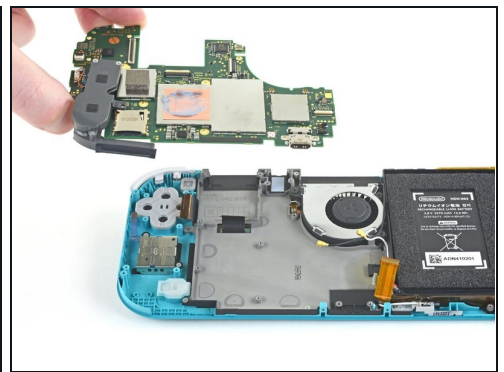
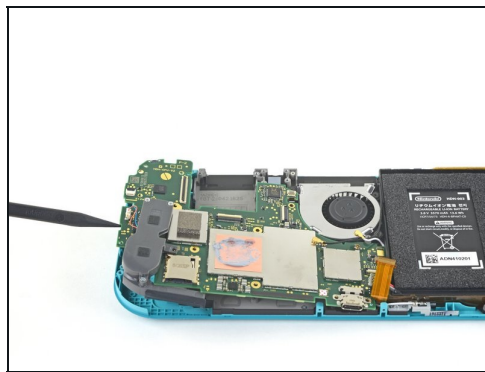
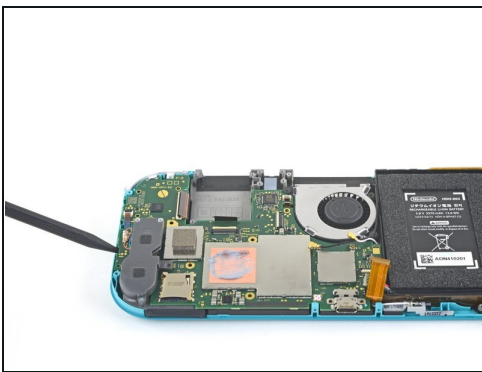
- Use a pair of tweezers to slide the right joystick cable out of its connector on the motherboard.

Step 29 — Remove the motherboard assembly



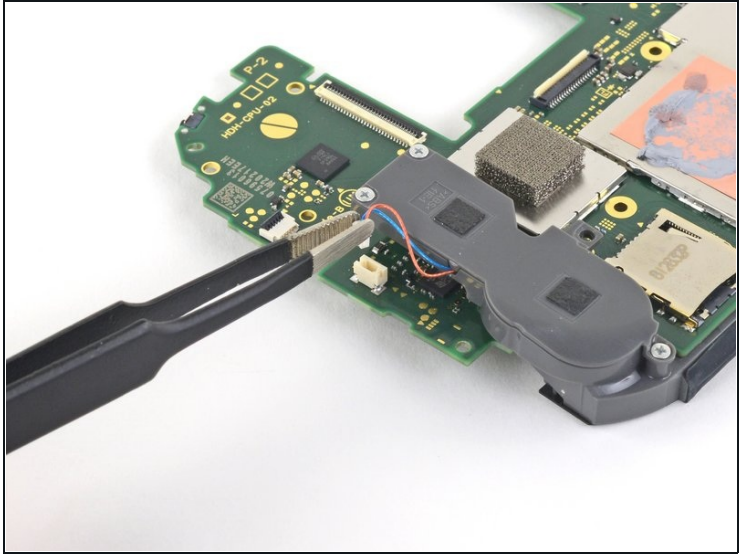
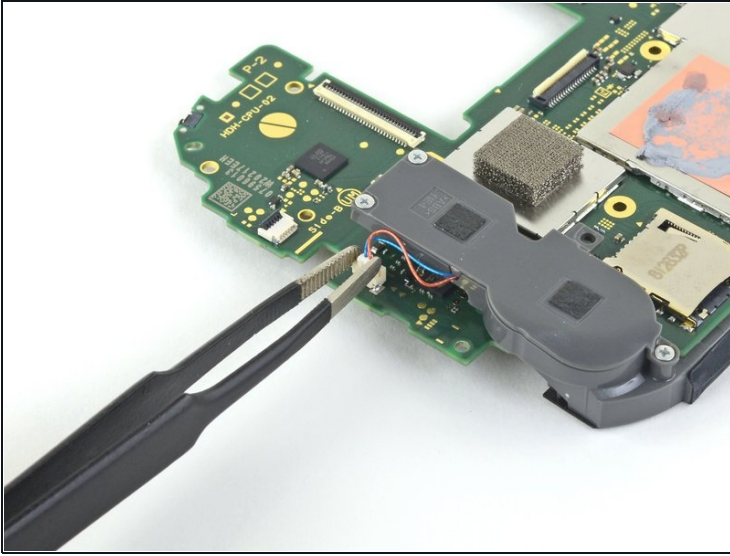
- Use a JIS 000 driver or an official iFixit PH 000 driver to remove the following six screws securing the motherboard:
 - Three 3.1 mm screws
 - Three 4.5 mm screws

Step 30



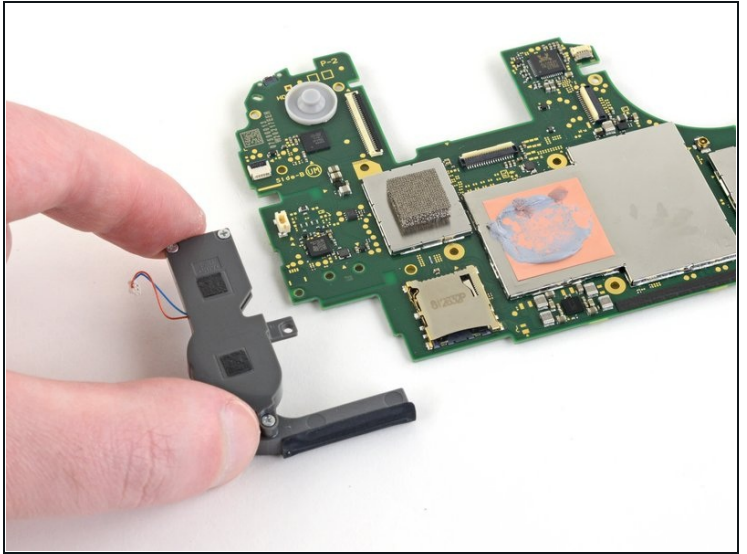
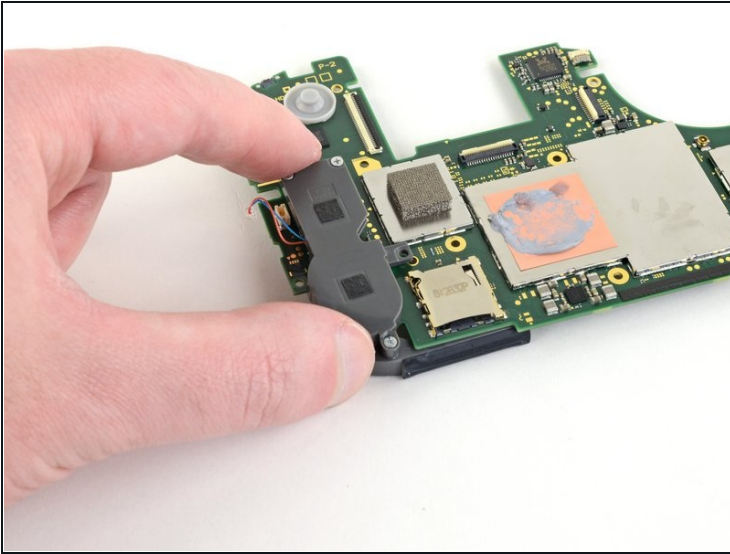
- Insert a spudger in the gap between the frame and the motherboard and lift the motherboard up and out of its recess.
- Remove the motherboard assembly.

Step 31 — Remove the right speaker module



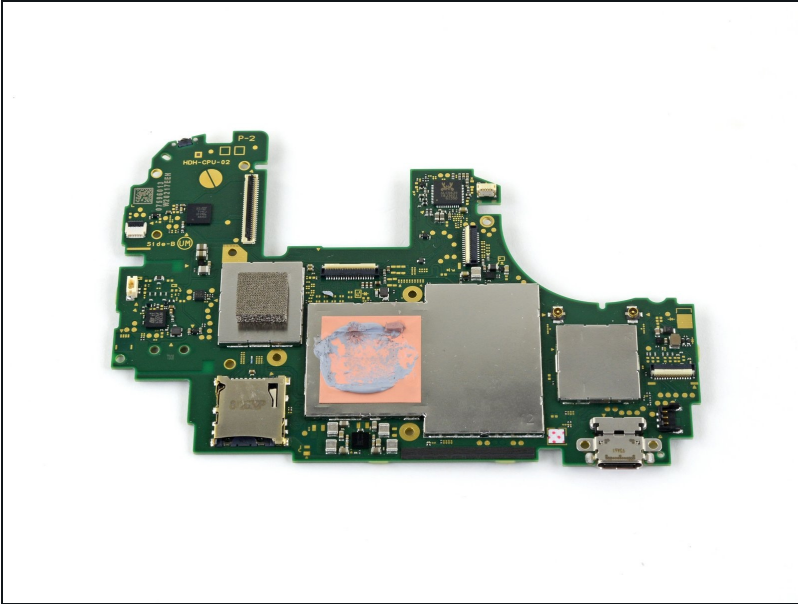
- Use a pair of tweezers or your fingers to pull the right speaker cable straight up and out of its socket on the motherboard.

Step 32



- Remove the right speaker module from the motherboard.

Step 33



- Only the motherboard remains.

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

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Nintendo Switch Lite Answers community](#) for help.