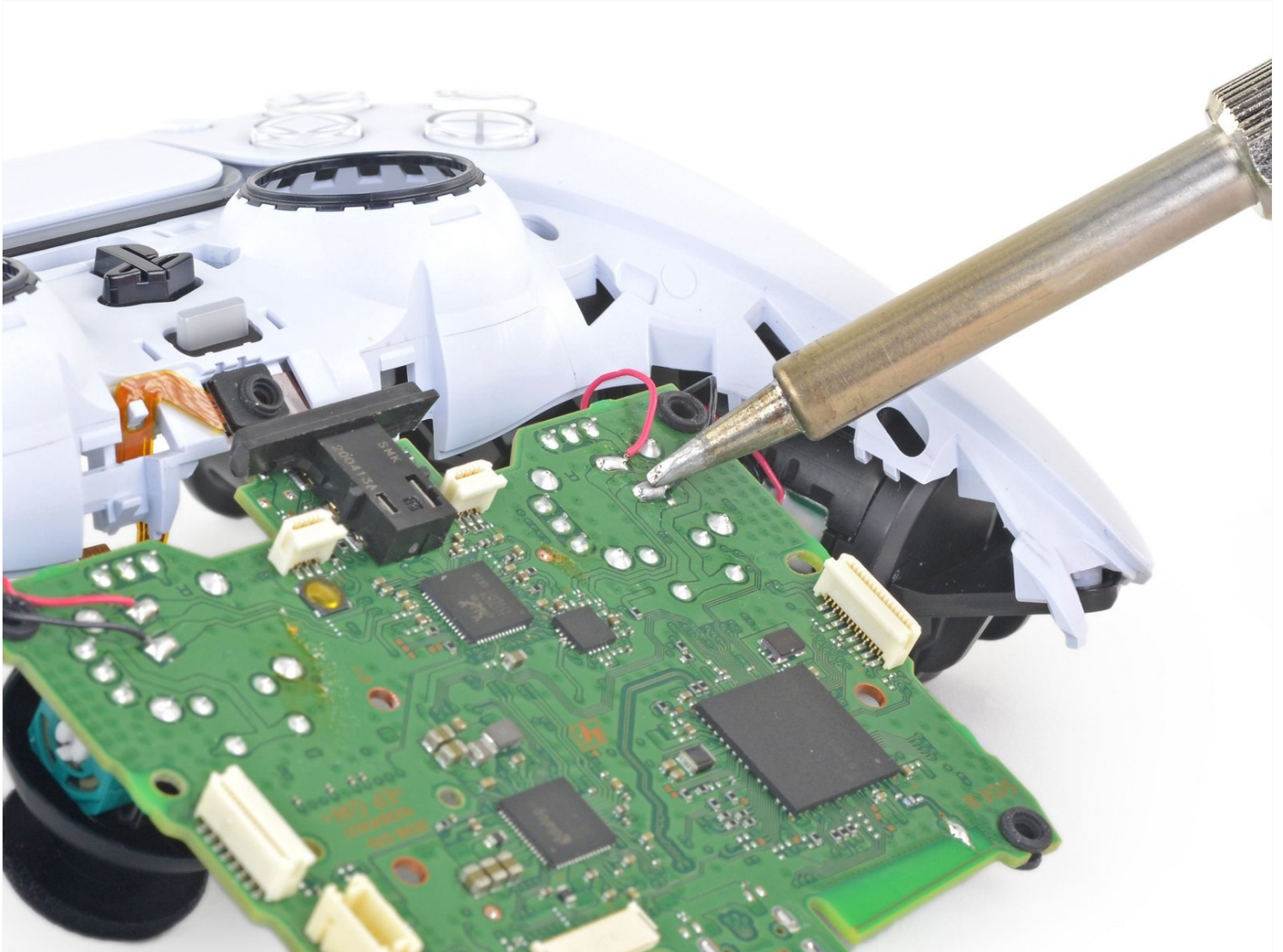




# Motherboard Desoldering

Follow this guide to desolder the motherboard...

Written By: Sam Omiotek



# INTRODUCTION

Follow this guide to desolder the motherboard from the vibration motors on a Sony DualSense controller.

**This is a prerequisite-only guide! This guide is part of another procedure and is not meant to be used alone.**

---

## TOOLS:

1 x Opening Picks (1)  
Spudger (1)  
Phillips #00 Screwdriver (1)  
Tweezers (1)  
Soldering Workstation (1)

---

### Step 1 — Unclip the right end of the middle trim



 **Disconnect and power down your controller before you begin.**

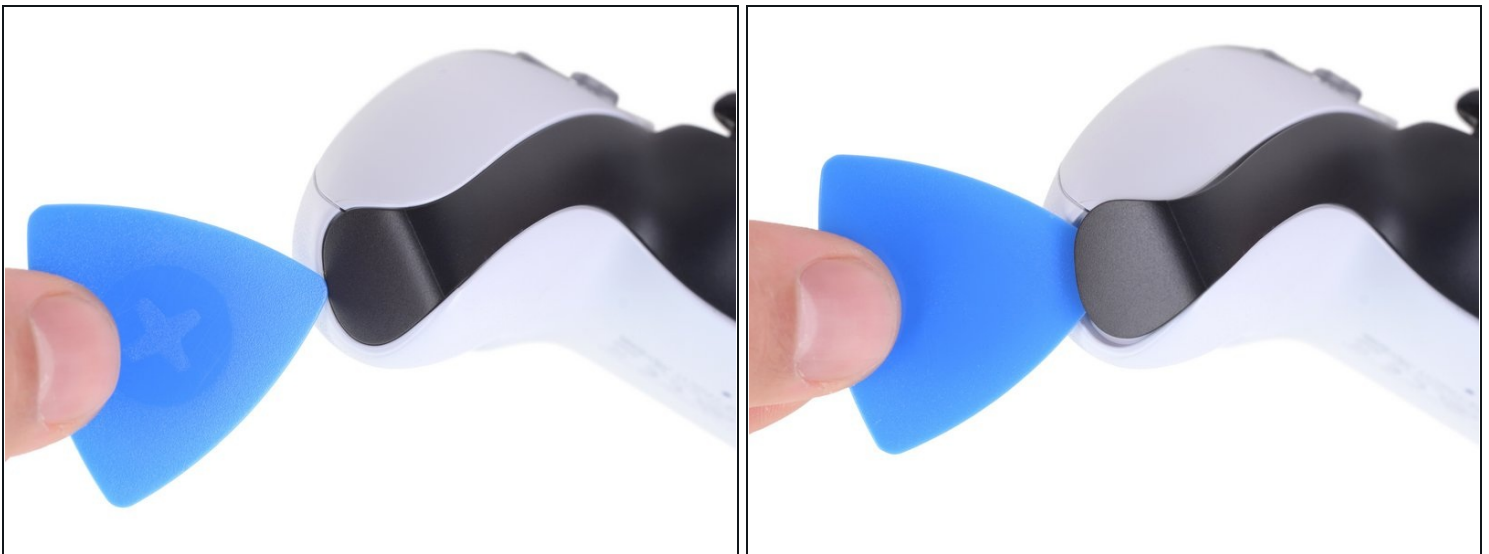
- Insert an opening pick underneath the middle trim at the bottom-right corner of the controller to release the clips securing it to the case.

## Step 2 — Unclip the lower-right edge of the middle trim



- Slide the opening pick along the lower-right edge of the middle trim to release the clips securing it to the case.

## Step 3 — Unclip the left end of the middle trim



- Insert an opening pick underneath the middle trim at the bottom-left corner of the controller to release the clips securing it to the case.

#### Step 4 — Unclip the lower-left edge of the middle trim



- Slide the opening pick along the lower-left edge of the middle trim to release the clips securing it to the case.

#### Step 5 — Remove the middle trim



- Use your fingers to lift up the bottom edge of the middle trim to release the remaining clips.
- Lift the middle trim over the joysticks to remove it.



## Step 6 — Remove the L1 button



- Insert the flat end of a spudger into the gap above the **L1** button.
  - ① Cover the button with your [thumb](#) to prevent it from ejecting across the room.
- Pry upward to remove the **L1** button.

## Step 7 — Remove the R1 button



- Insert the flat end of a spudger into the gap above the **R1** button.
  - ① Cover the button with your [thumb](#) to prevent it from ejecting across the room.
- Pry upward to remove the **R1** button.

## Step 8 — Remove the rear case



- Use a Phillips screwdriver to remove the two 6.4 mm screws securing the bottom corners of the lower case.

## Step 9



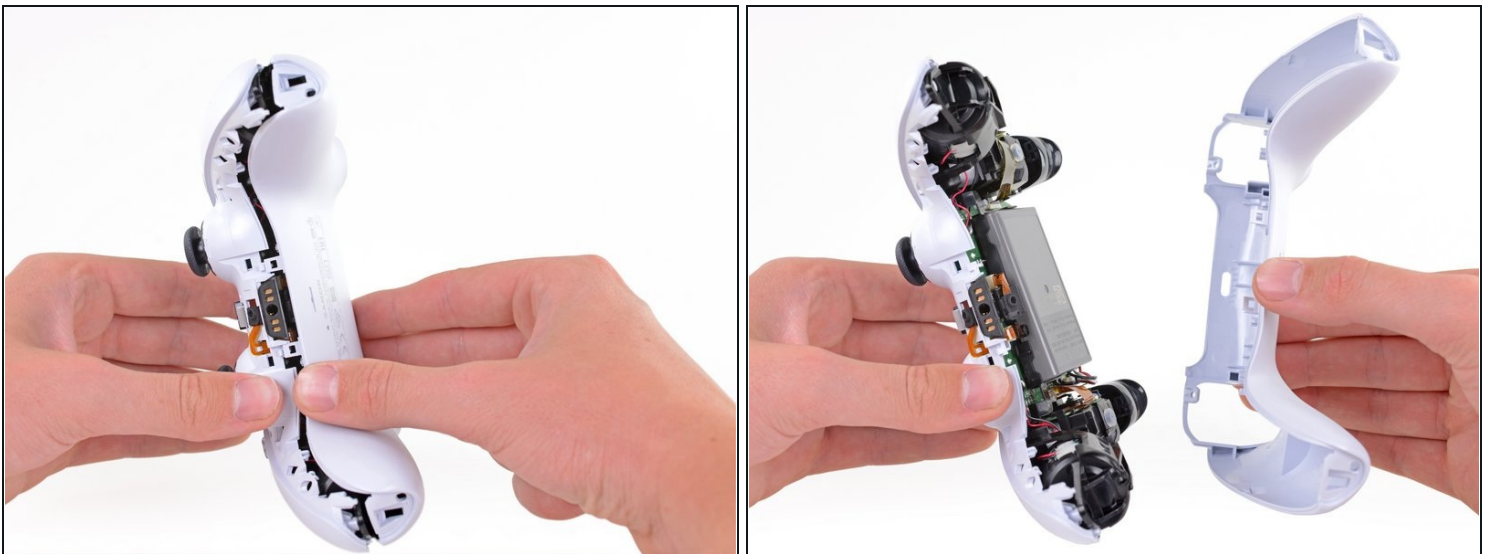
- Use a Phillips screwdriver to remove the two 6.4 mm screws behind the **L1** and **R1** buttons.

## Step 10



- Use the pointed edge of a spudger to unclip the two clips on either side of the headset jack.

## Step 11



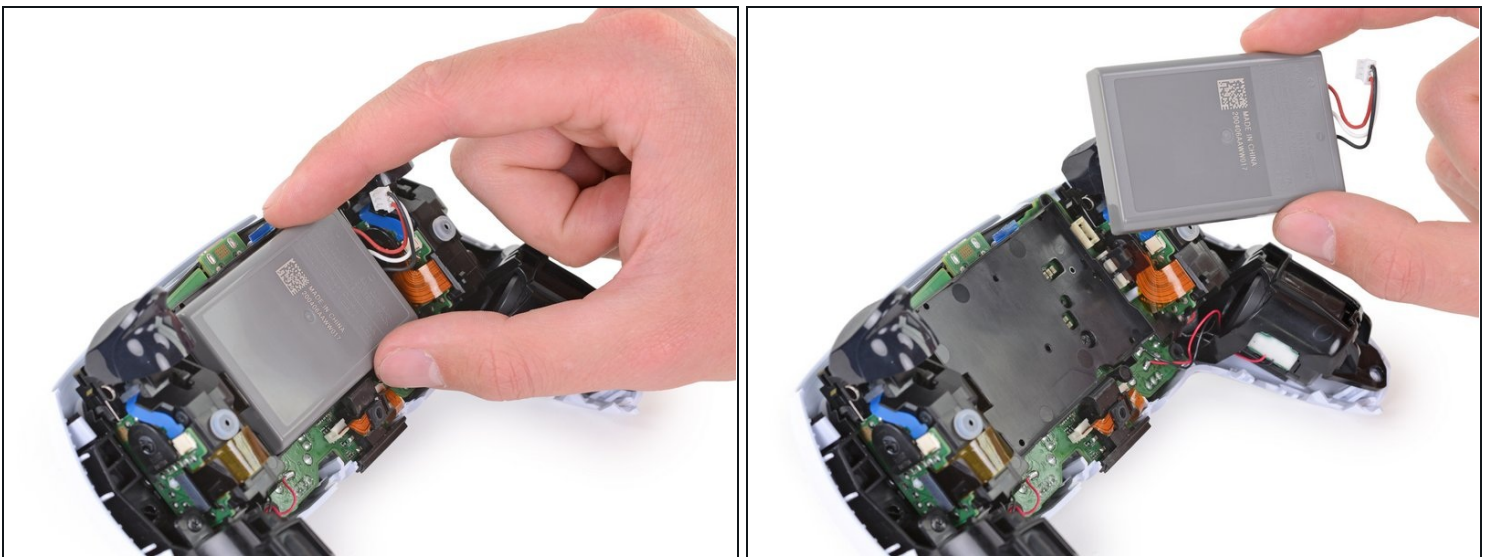
- Remove the rear case.
- ⓘ On some revisions, the rear case is held with two more clips next to the previously removed bumpers. If the rear case doesn't open without force, check for those clips.

## Step 12 — Disconnect the battery



- Use a pair of [tweezers](#) or your fingers to disconnect the battery from the motherboard.  
⚠ Grip the connector, not the wires, when disconnecting.

## Step 13 — Remove the battery



- Lift the battery straight out of the battery bracket.

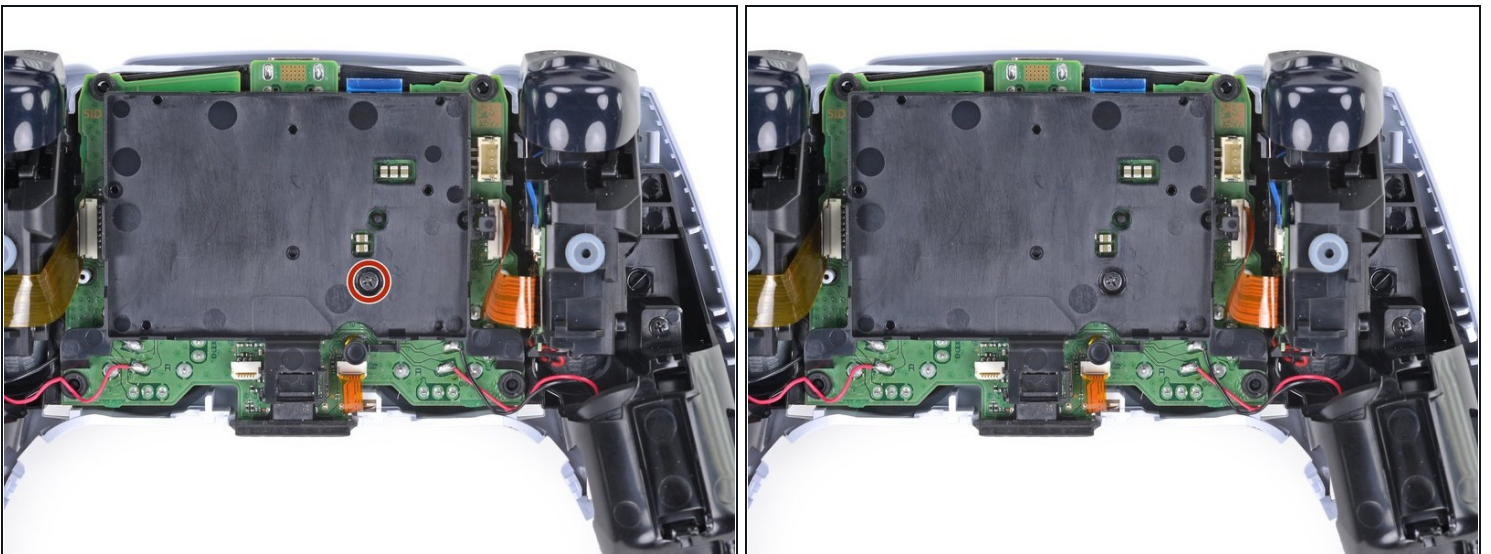


## Step 14 — Remove the lower microphone



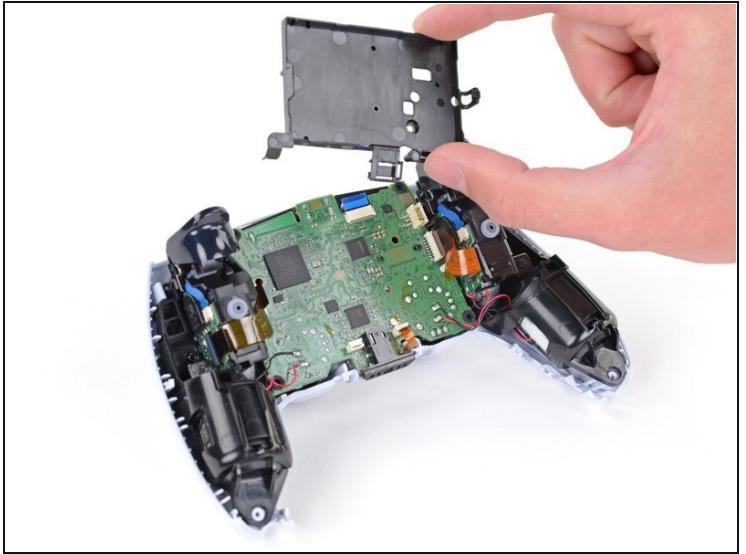
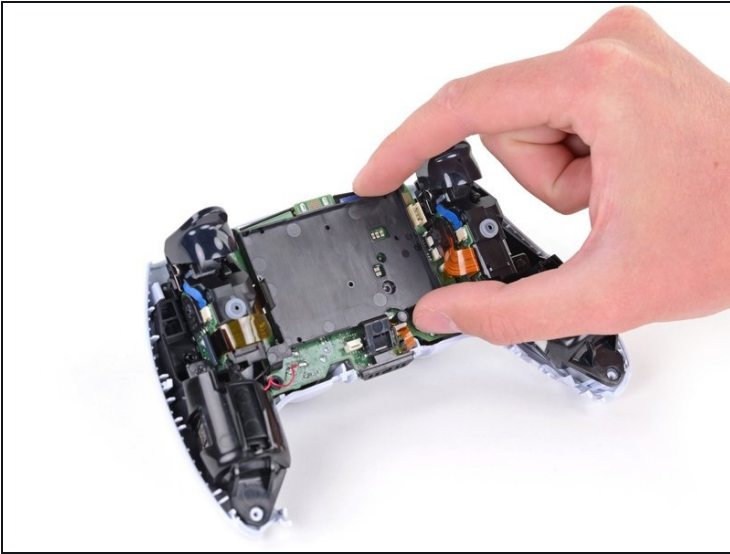
- Grab the lower microphone ribbon cable pull tab with your fingers or a pair of [tweezers](#) and disconnect it from the motherboard.

## Step 15 — Remove the battery bracket



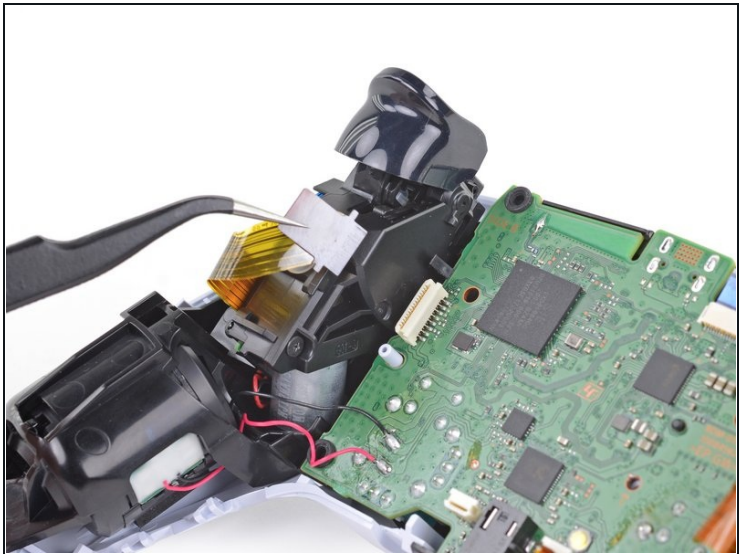
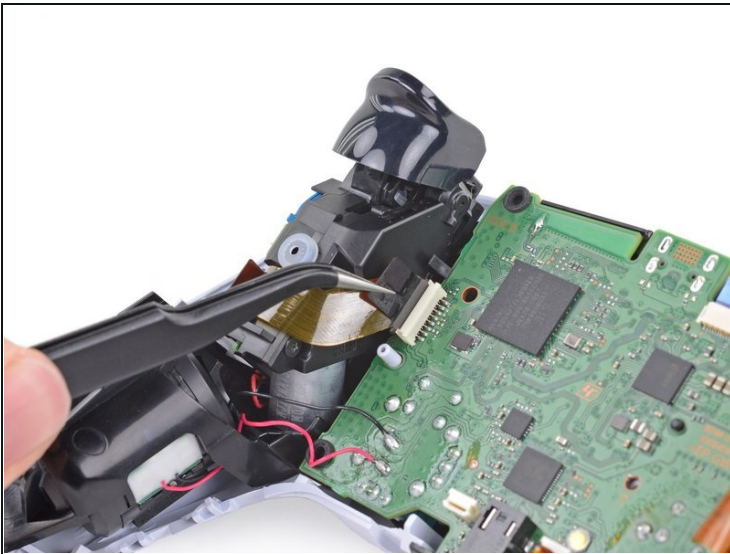
- Use a Phillips screwdriver to remove the 6.4 mm screw securing the battery bracket.

## Step 16



- Lift the battery bracket out of the motherboard.

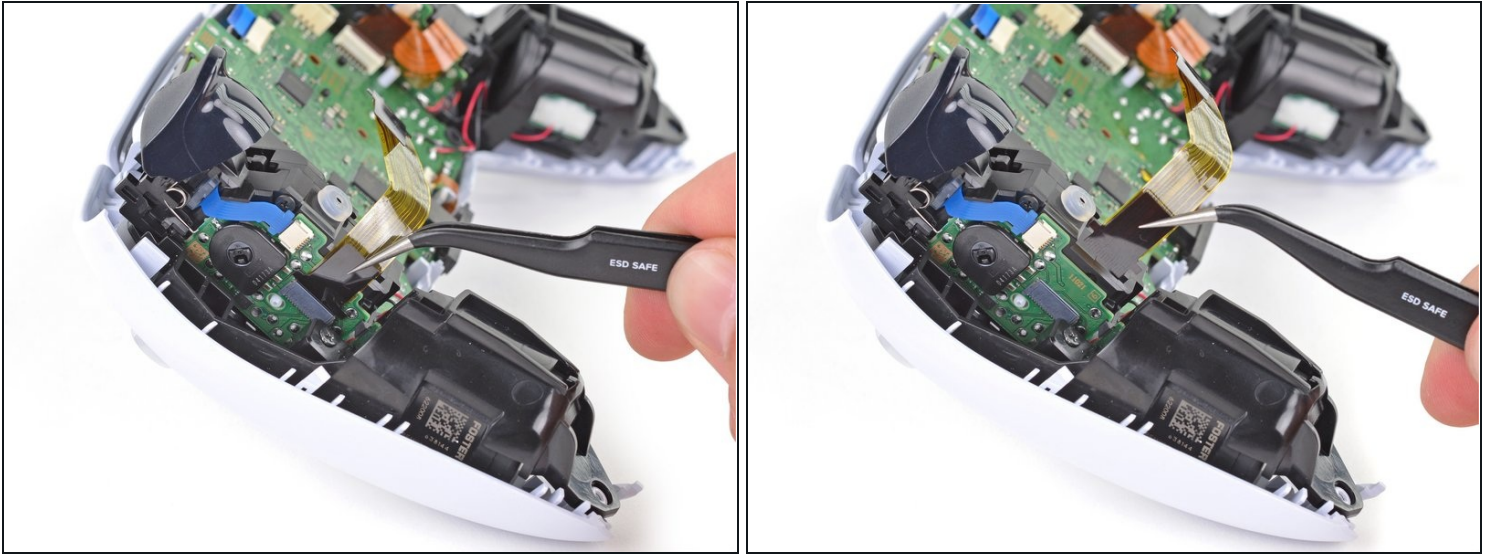
## Step 17 — Disconnect the right trigger assembly



- Grip the right trigger assembly ribbon cable pull tab with a pair of tweezers or your fingers and pull up to disconnect it from the motherboard.
  - ⓘ Do not completely remove the ribbon cable yet.

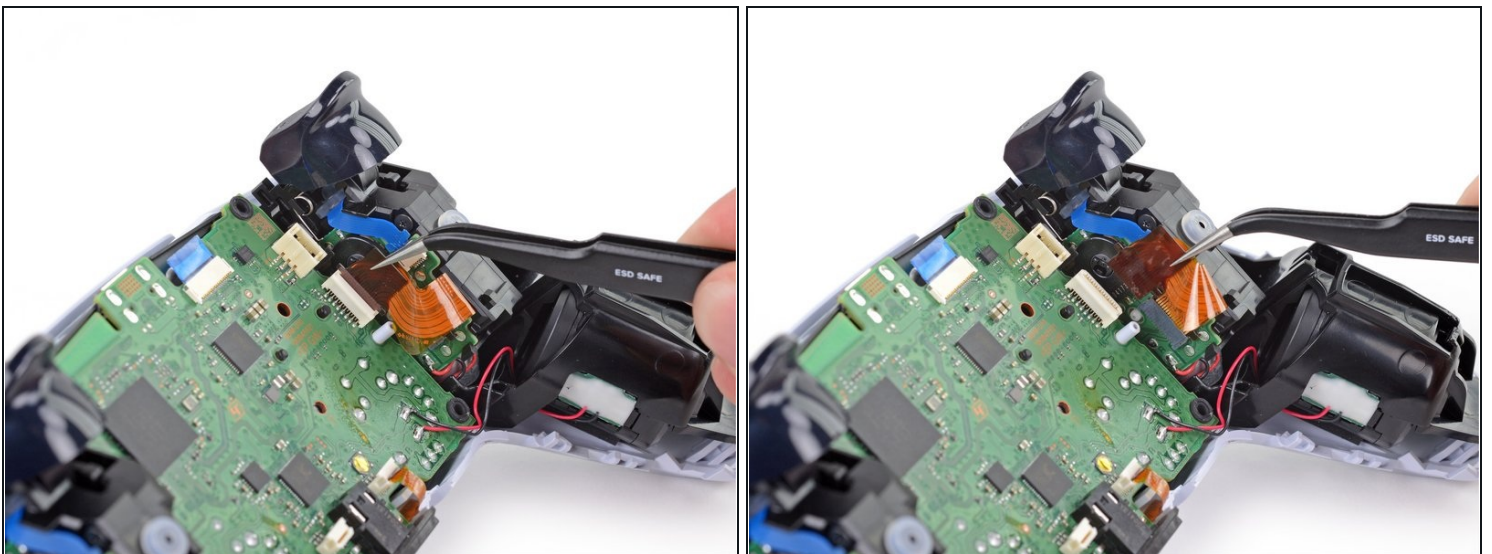


## Step 18



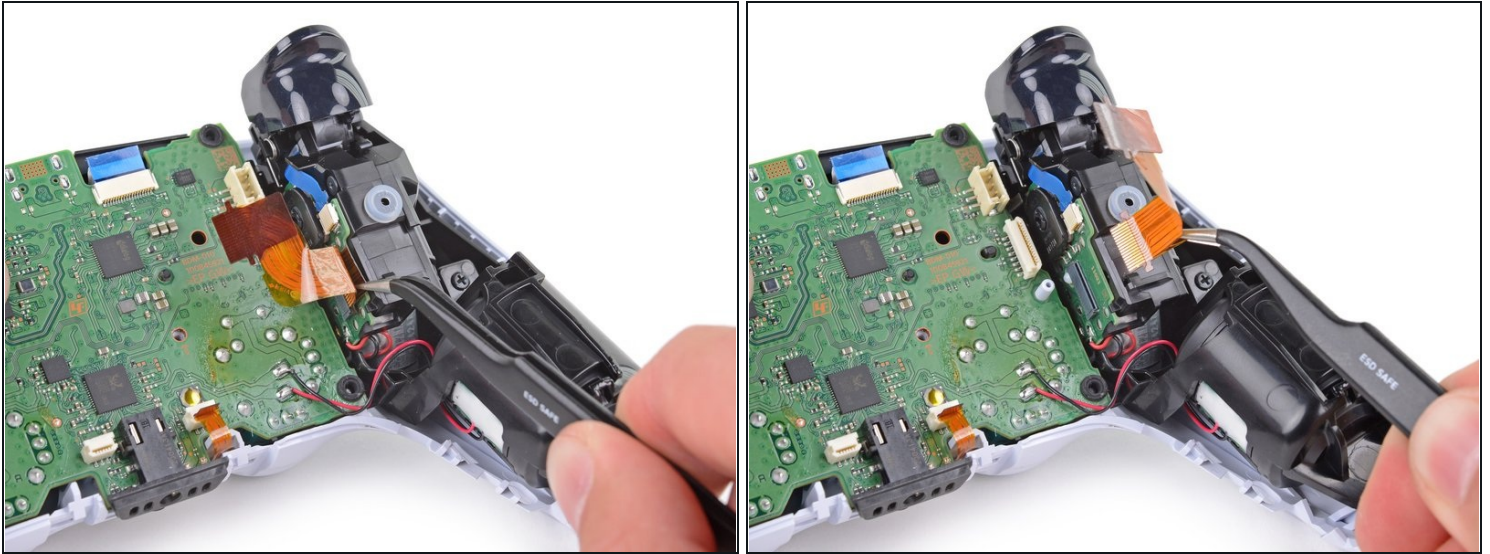
- Grip the right trigger assembly ribbon cable pull tab with a pair of tweezers or your fingers, and pull up to disconnect it from the trigger assembly.
- Remove the ribbon cable.

## Step 19 — Disconnect the left trigger assembly



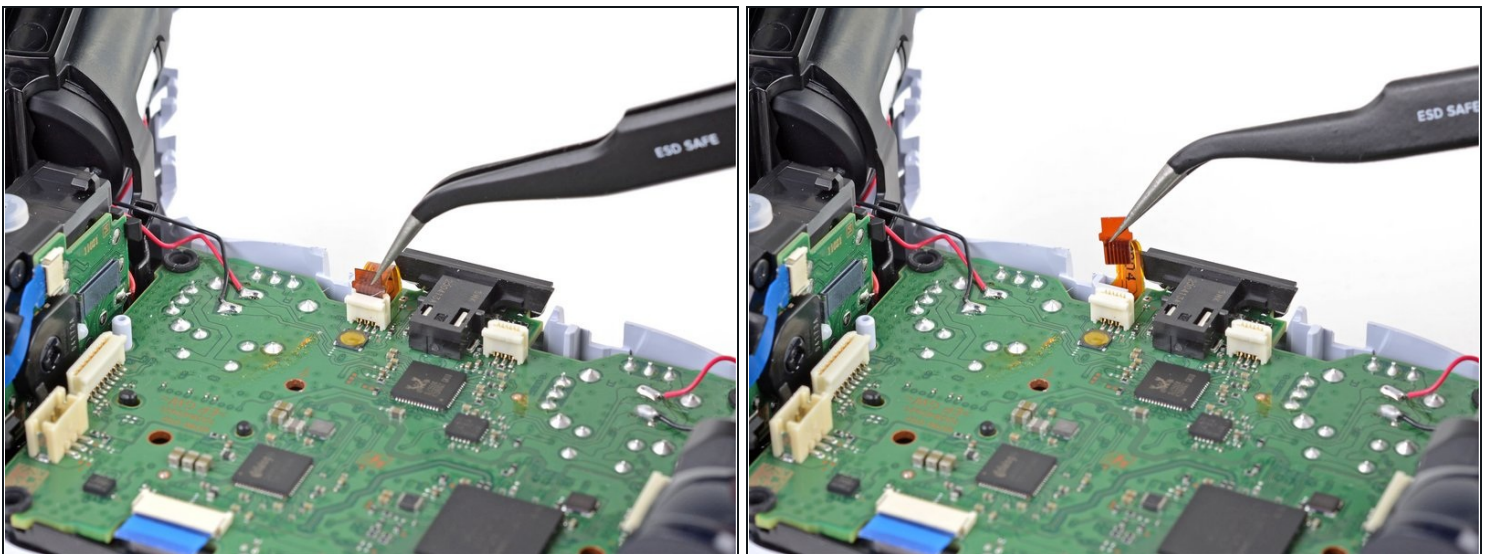
- Grip the left trigger assembly ribbon cable pull tab with a pair of tweezers or your fingers and pull up to disconnect it from the motherboard.
- ① Do not completely remove the ribbon cable yet.

## Step 20



- Grip the left trigger assembly ribbon cable pull tab with a pair of tweezers or your fingers, and pull up to disconnect it from the trigger assembly.
- Remove the ribbon cable.

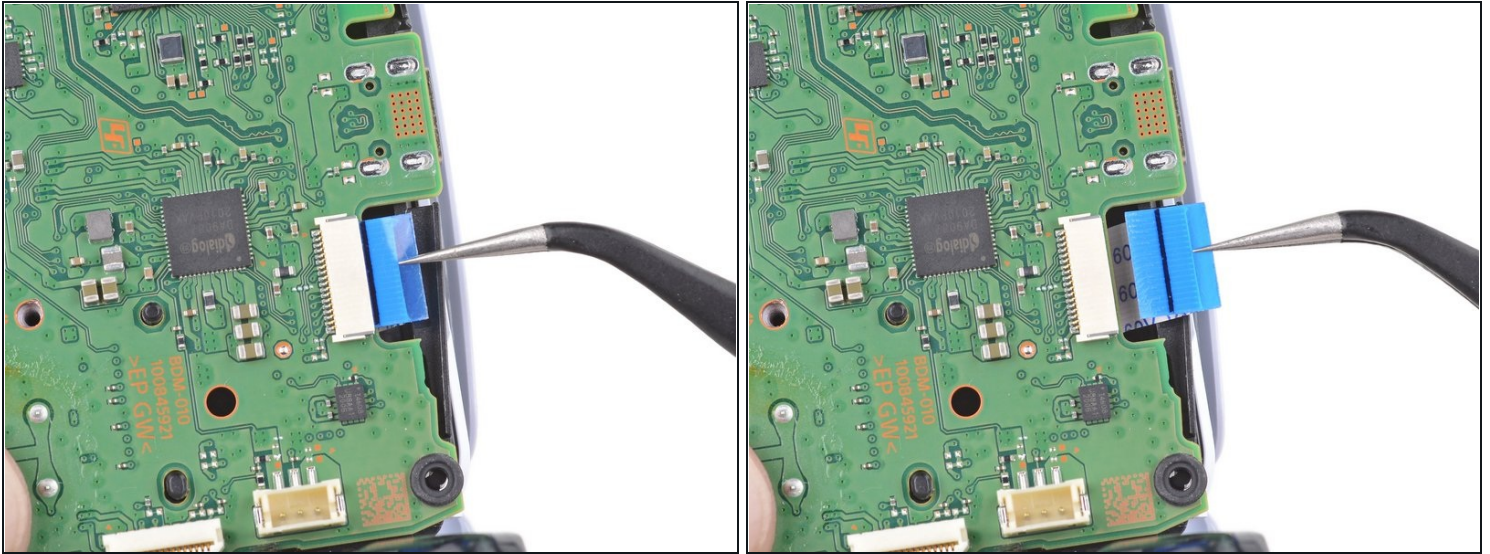
## Step 21 — Disconnect the upper microphone



- Use a pair of tweezers or your fingers to grip the upper microphone ribbon cable pull tab, and pull up to disconnect it from the motherboard.

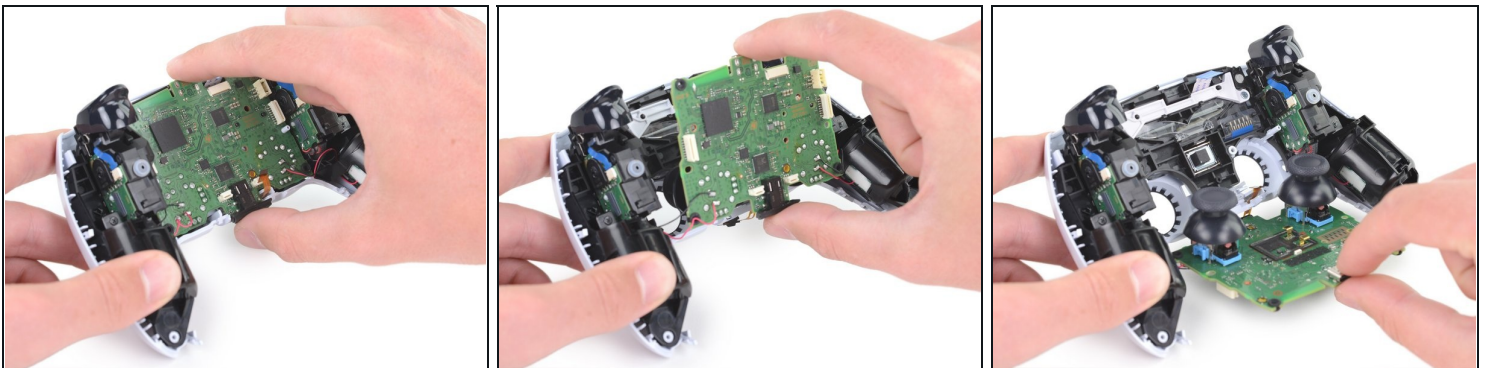


## Step 22 — Disconnect the touchpad



- Use a pair of tweezers or your fingers to grip the touchpad ribbon cable pull tab, and pull it straight out of the motherboard connector.

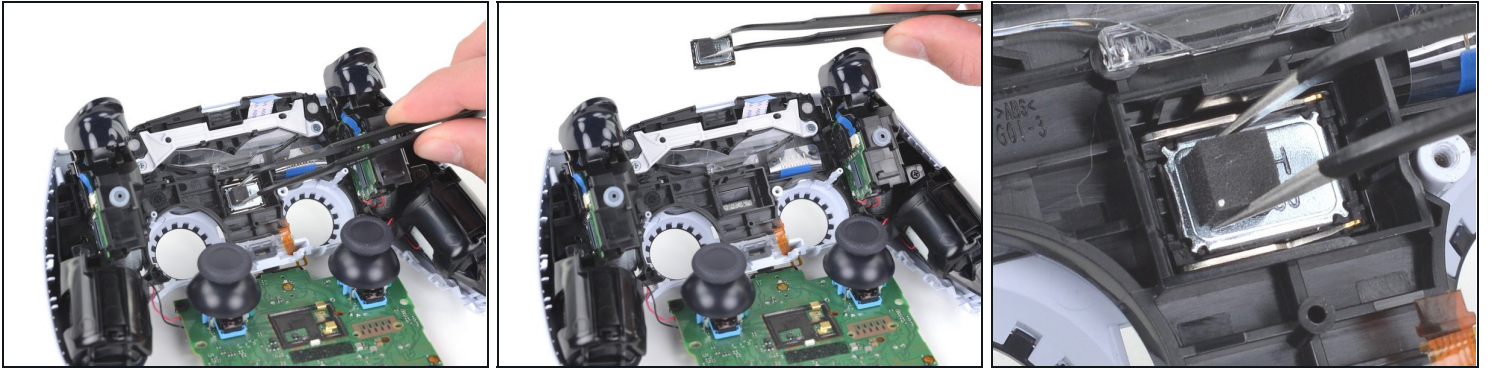
## Step 23 — Lift out the motherboard



- Carefully guide the joysticks through the front case and lift the motherboard out.

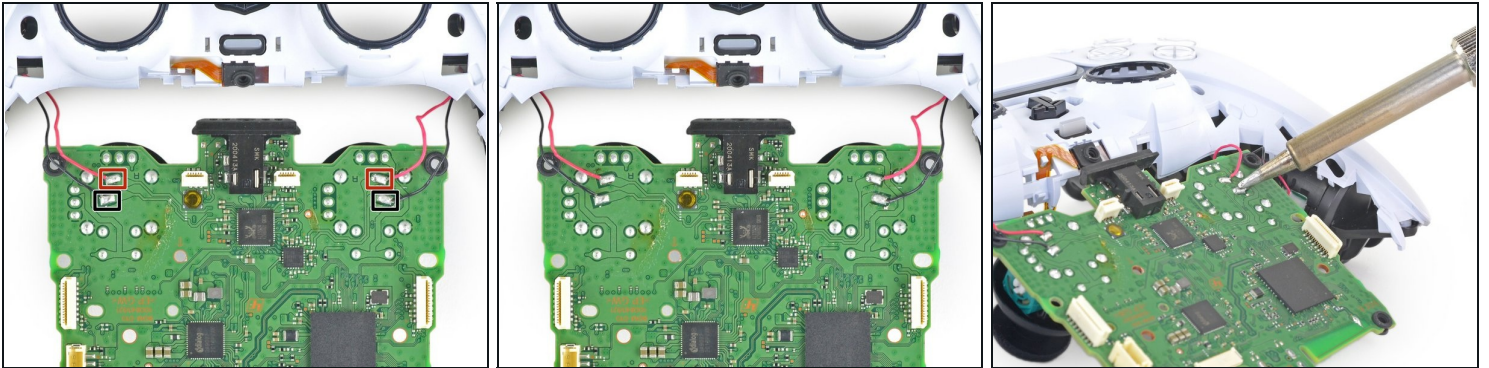
**⚠ Do not completely remove the motherboard.** There are four soldered wires tethering the motherboard to the vibrator motors.

## Step 24 — Remove the speaker



- Use a pair of [tweezers](#) or your fingers to remove the speaker from the controller midframe.
- ☑ Be sure to reinstall the speaker in the correct orientation with the foam pad on the left side and the gold [contact points](#) on the right.

## Step 25 — Desolder the vibration motors



- Flip over the controller and motherboard.
- Use a soldering iron to desolder the vibration motor wires from the motherboard:
  - Two red wires
  - Two black wires
- ☑ During reassembly, remember to solder the wires back into the same position. The red wires belong closest to the edge and next to the **Rs** on the motherboard.

## Step 26



- Separate the controller from the motherboard.

---

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