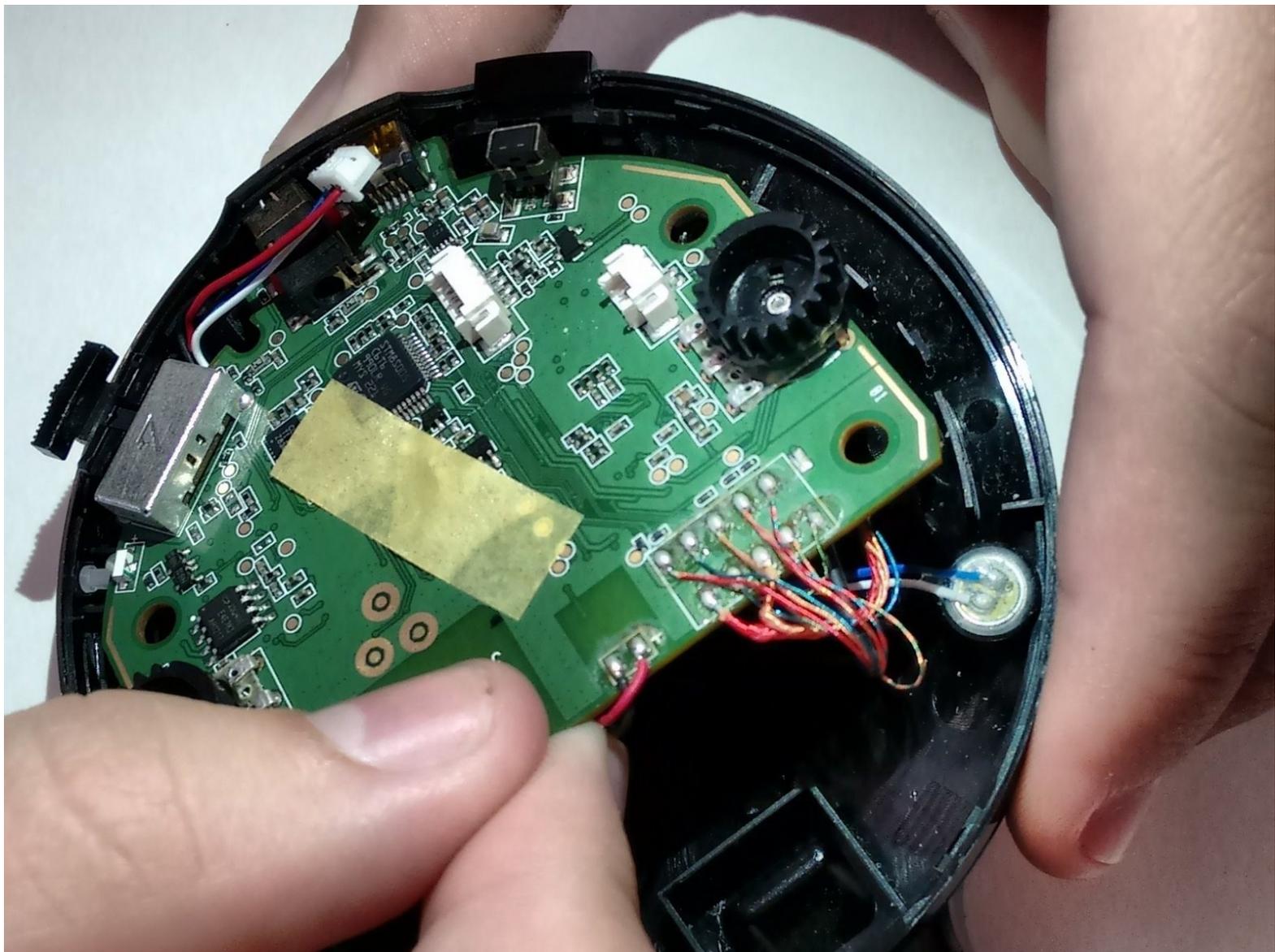




Sony Pulse Elite Edition Motherboard Replacement

This guide describes how to replace the motherboard in the Sony Pulse Elite Edition.

Written By: Chris Echter



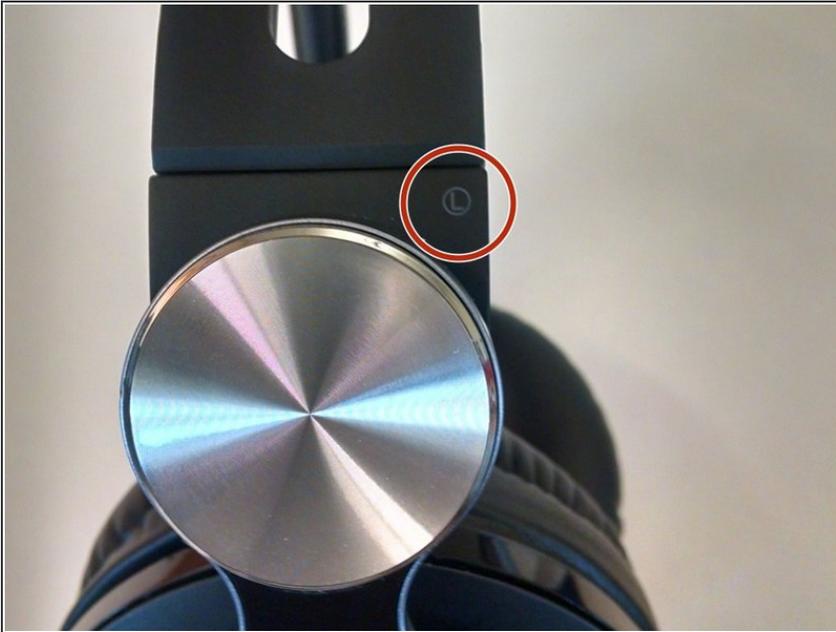
INTRODUCTION

If your Sony Pulse Elite Edition Headphones (99037) are not working properly and you have tried all other [troubleshooting methods](#), then look no further. This guide describes how to replace the motherboard in the Sony Pulse Elite Edition Headphones. If you are dealing with fuzzy or incorrect audio being played, you might only need to replace the speaker itself, or a [different piece](#). Note that [soldering](#) is required to complete this instruction set.

TOOLS:

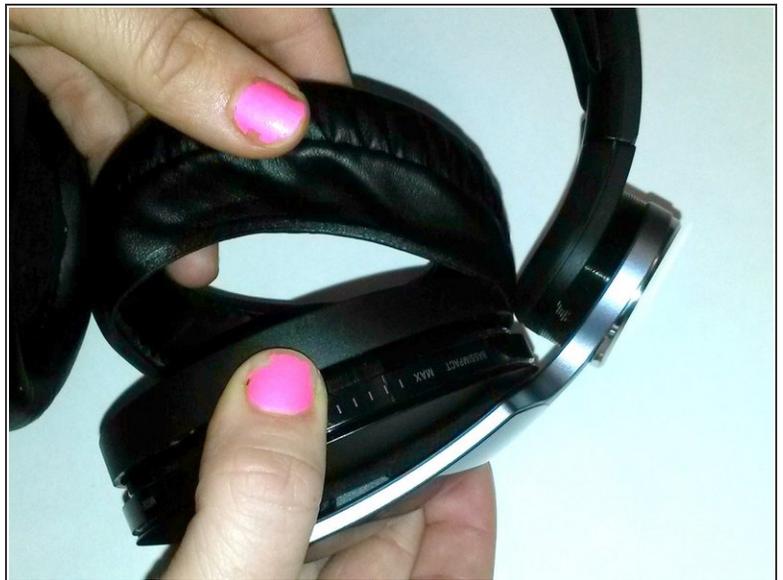
- [Phillips #00 Screwdriver](#) (1)
 - [Spudger](#) (1)
 - [Tweezers](#) (1)
 - [Soldering Workstation](#) (1)
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Step 1 — Identifying Earpiece



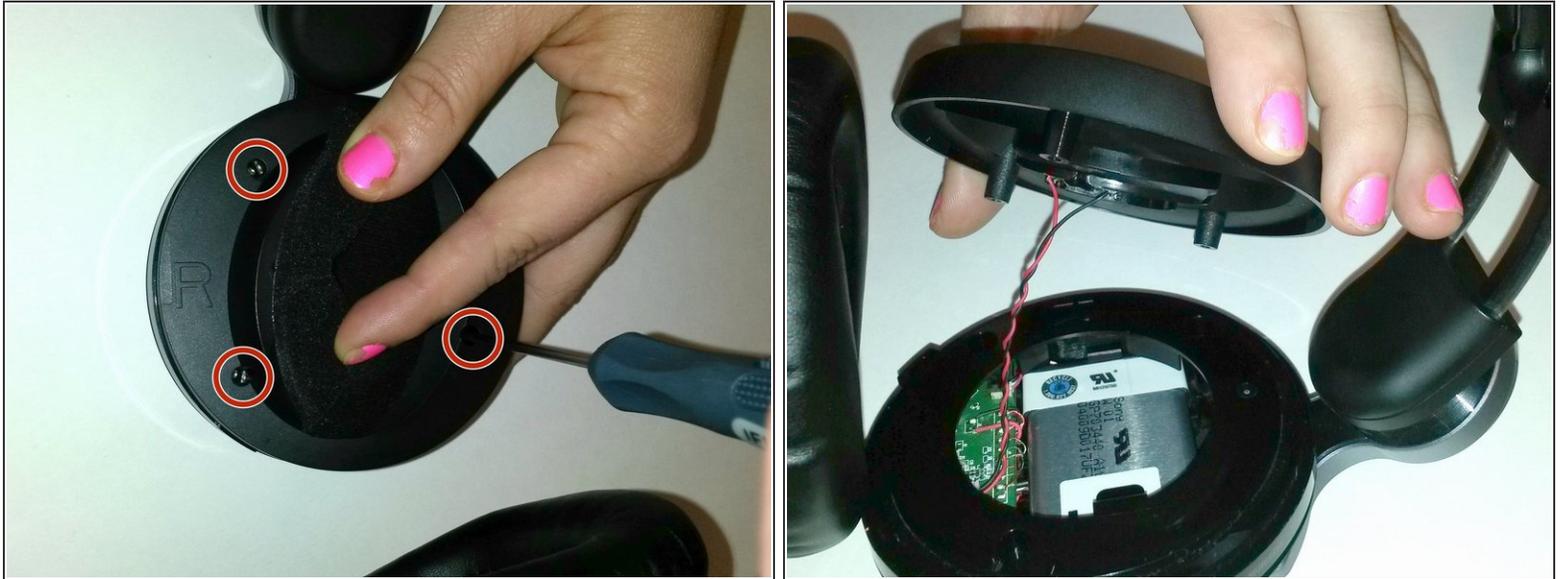
- Locate the left side designation on the headband-earpiece junction.
- The battery is in the right earpiece.
- The motherboard is in the left earpiece.

Step 2 — Ear Cushion Removal



- Gently pull around the perimeter of the left ear cushion until it comes off.

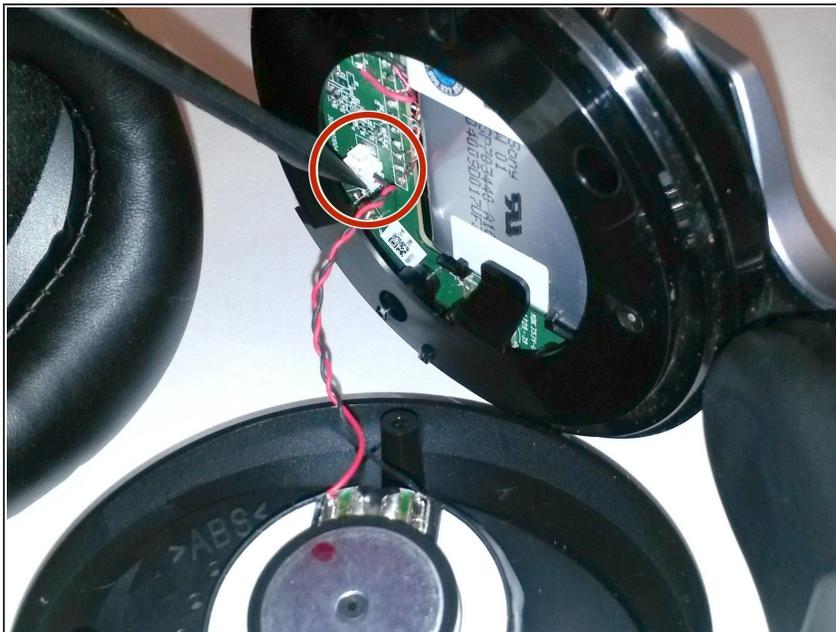
Step 3 — Outer Ear Rim Removal



- Use the PH00 Screwdriver to remove the three Phillips 6mm screws around the perimeter of the ear cup.
- Gently pull the outer ear rim off of the headset assembly.

⚠ Harsh removal may cause permanent damage to the speaker wires.

Step 4 — Remove Speaker Housing



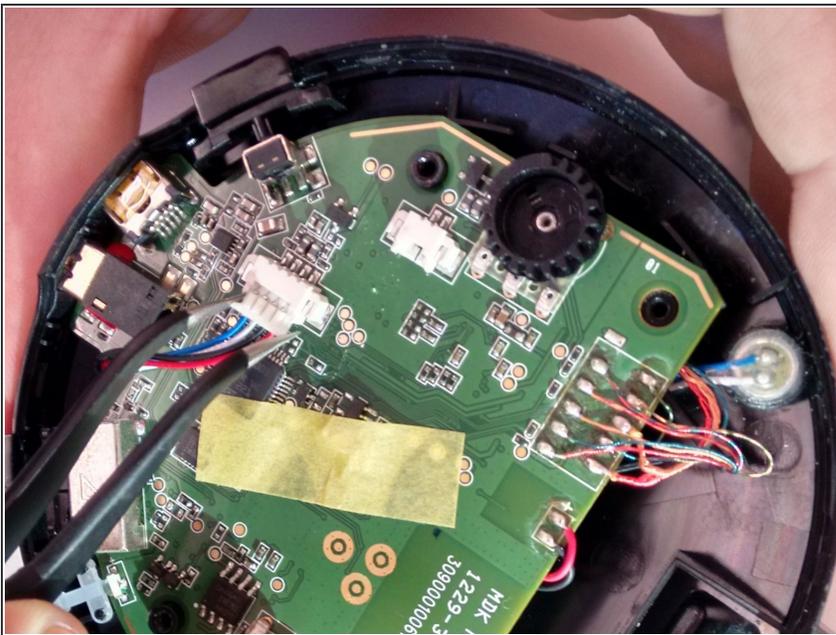
- Using tweezers, gently pry the red and black speaker wires from the attached socket.

Step 5 — Unscrew Motherboard Brackets



- Using the Phillips #00 screwdriver, remove the four Phillips 5 mm screws from the two motherboard brackets.
- Keep the two brackets and screws in a safe place.

Step 6 — Remove the Wires



- Using tweezers, unclip the blue, white, and red wire harness from the motherboard. This harness is for the microphone.
- Using the tweezers, unclip the red and black wire harness from the motherboard. This harness is for the speakers.

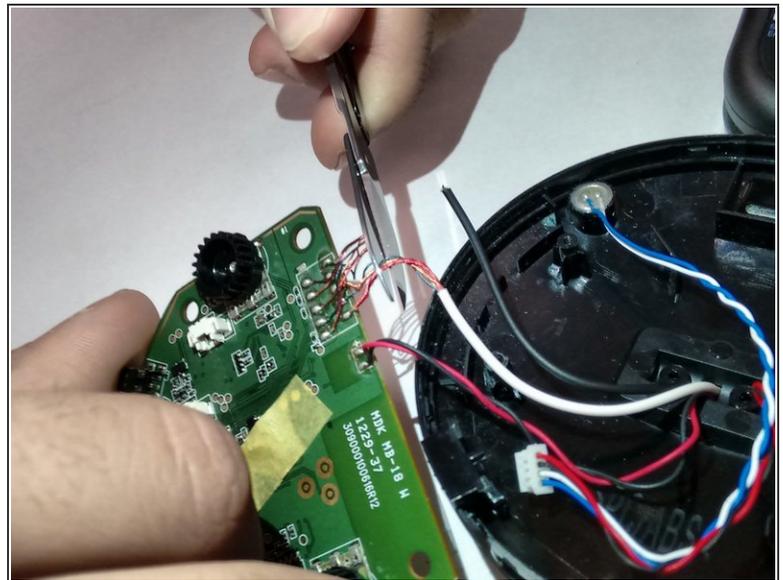
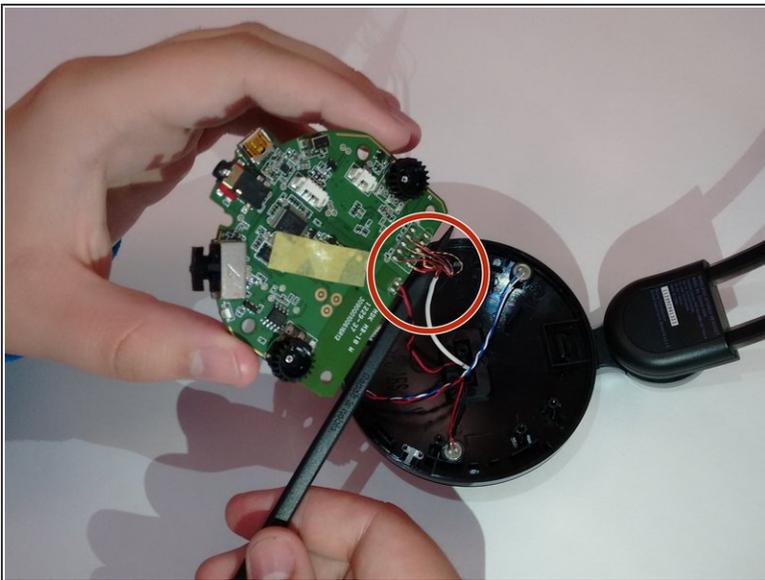
⚠ Make sure all wire harnesses are completely unclipped prior to motherboard removal. Failure to unclip completely risks permanent damage to the headset.

Step 7 — Initial Motherboard Removal



- Using a finger, gently tug up on the motherboard.
- ⚠️ **Make sure to only lift the motherboard up gently as there are still wires connecting the motherboard to the ear piece.**
- ⓘ Try and lift the motherboard up straight, as it will catch on the screw mounts otherwise.

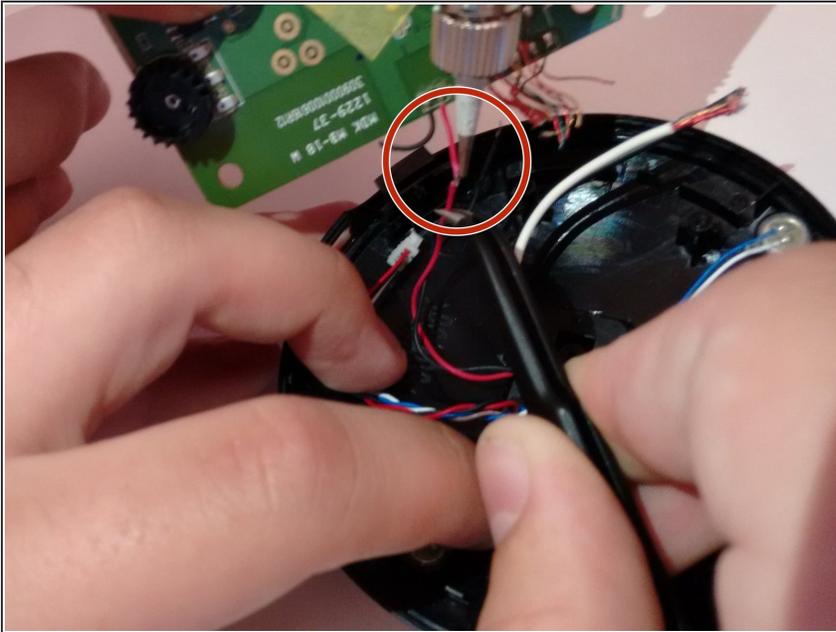
Step 8 — Fixed Wire Removal



- Using wire cutters, cut all of the permanent wires from the motherboard.
- Strip the wires on the ear piece portion about a quarter of an inch from their cut ends.
- ⓘ These will need need to be soldered to the new motherboard, so it will be easiest to cut the wires, 1/2" away from the motherboard.

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Step 9 — Solder New Motherboard



- Strip the wires on the ends of the new motherboard wires about a half inch from the end.
- Solder each individual wire from the new motherboard to the corresponding wire on the ear piece.
- Completely wrap each solder joint with electrical tape so that the exposed wires only contact their corresponding wires.

⚠ Unintentional contact of non-corresponding wires can result in electrical fire and the failure of the device.

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