



Zenbre SoundBank Z3 Control Interface Circuit Board Replacement

If your Zenbre SoundBank Z3 speaker isn't...

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INTRODUCTION

If your Zenbre SoundBank Z3 speaker isn't working properly and is not responding to your touch, then there is most likely an issue with the internal circuit board that connects the buttons to the motherboard. The motherboard is custom to the device, so you will need to get a replacement from a similar device in order to repair your speaker.

TOOLS:


[Essential Electronics Toolkit](#) (1)

[Soldering Iron 60w Hakko 503F](#) (1)

Step 1 — Bottom Cover



 **Power off the SoundBank Z3.**

- Turn over the device.
- Peel the silicone feet up to remove.
 -  No extra adhesive is needed to reapply the feet as long as the sticky side is not touched.

Step 2



- Remove all eight of the 11 mm Phillips screws from the bottom of the device.

Step 3



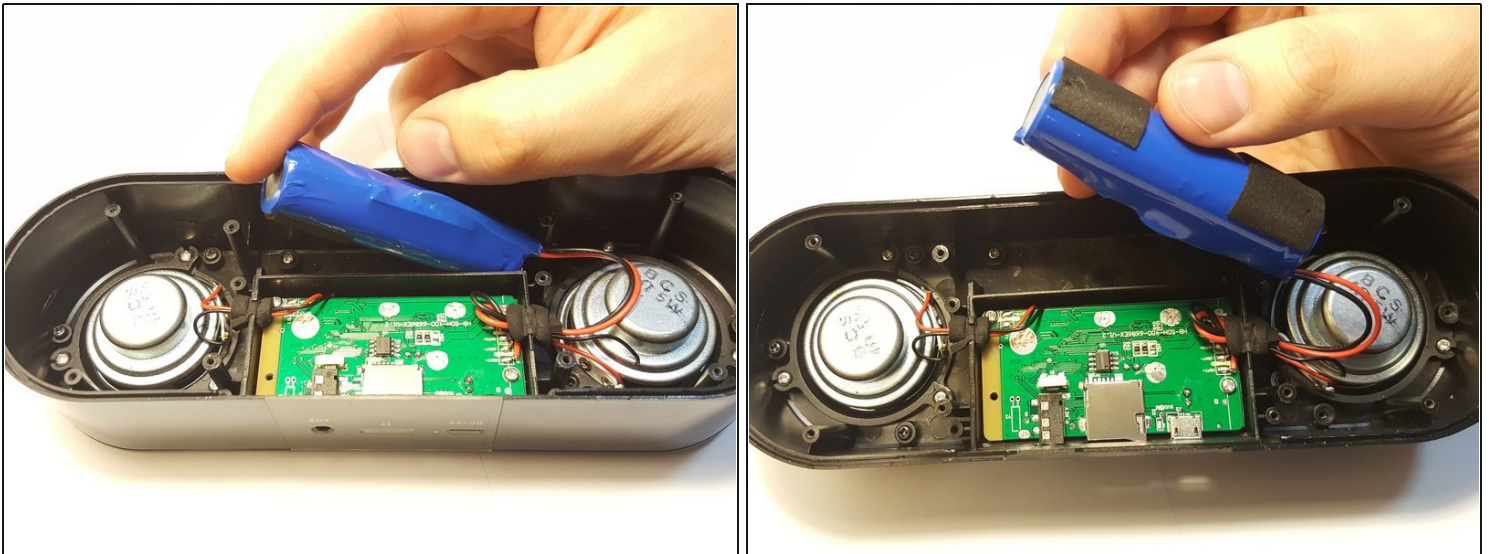
- Remove the bottom panel speaker using an iFixit opening tool.

Step 4 — Motherboard Cover



- Remove the four 4.5 mm silver Phillips screws that secure the plastic panel covering the motherboard.
- Remove the plastic panel.

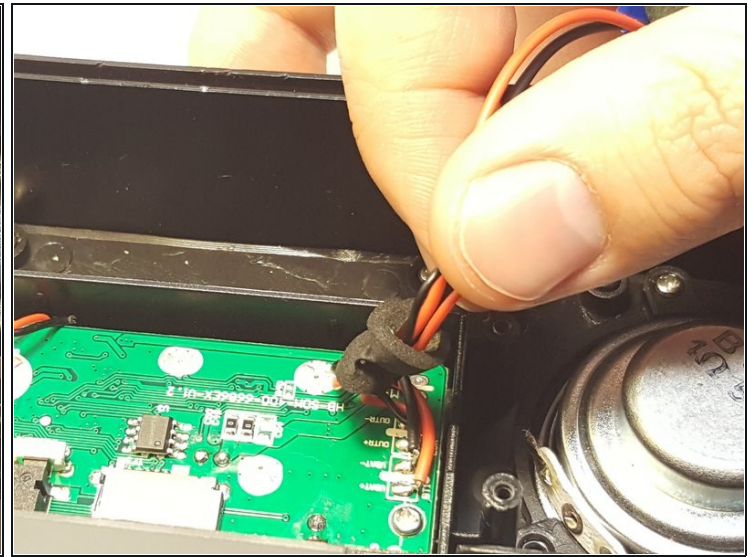
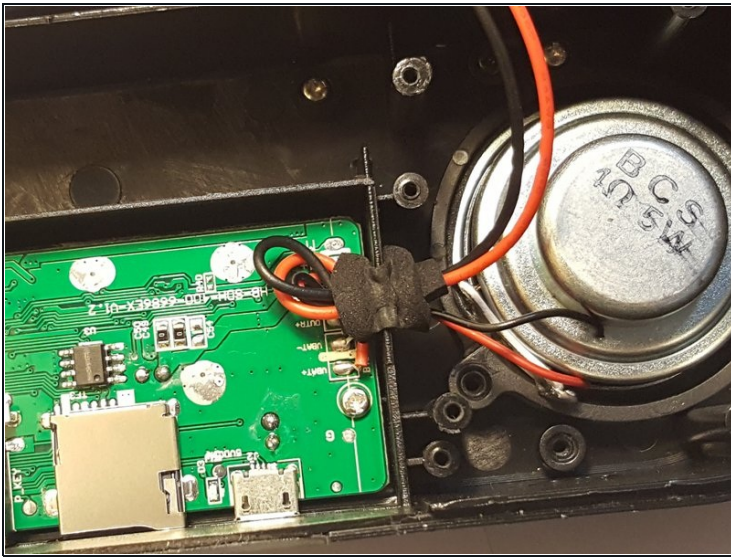
Step 5 — Battery



- Remove the battery from the holder. It may be difficult the first time.
 - ❗ Use a spudger between the battery and speaker wall to loosen it from its surroundings.

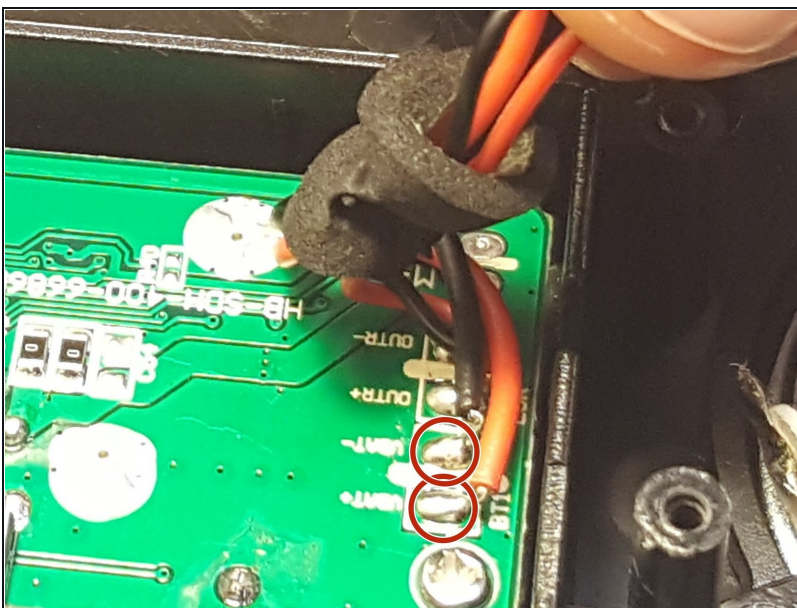
⚠ If the battery is punctured, leaking, or bloated/puffy, it may be hazardous and should be properly disposed of.

Step 6



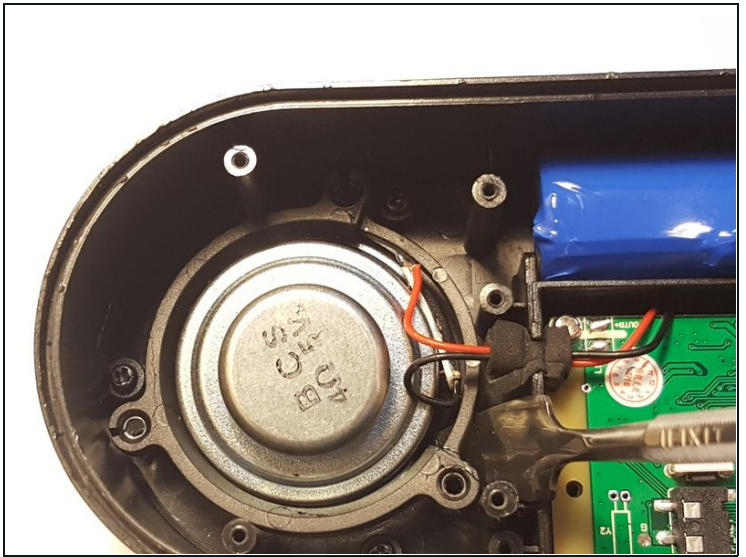
- Remove the pressure-fitted foam from the slot by hand.
 - Unravel and remove foam from the wires.
- ☒ When reassembling, the foam can be re-wrapped if care is taken when handling it.

Step 7



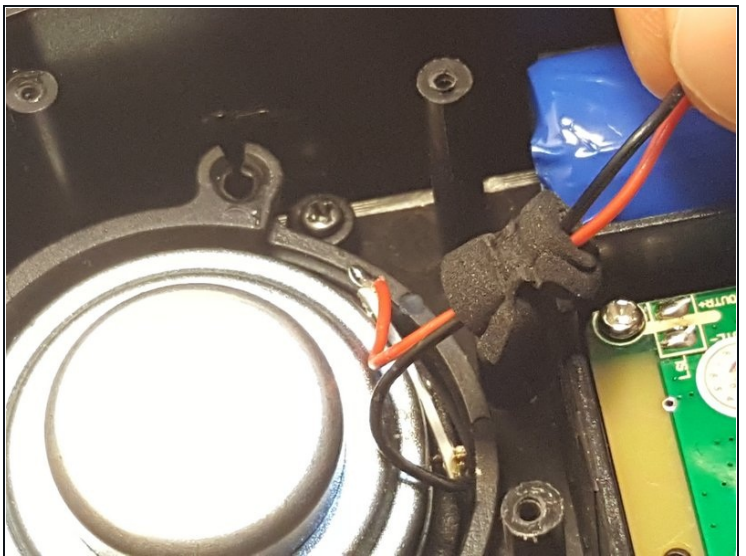
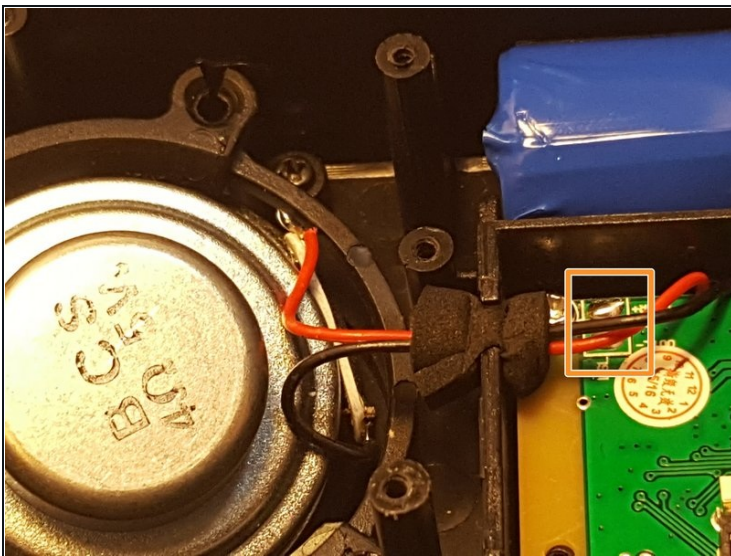
- Using a soldering iron, remove the leads, separating the battery from motherboard.
- i** Follow [this guide](#) to help you remove the wires from the motherboard if you are unfamiliar with soldering.

Step 8 — Speakers



- Remove the three screws that are holding the speaker down.
⚠ Be careful not to rip out the speaker while taking out the screws.

Step 9



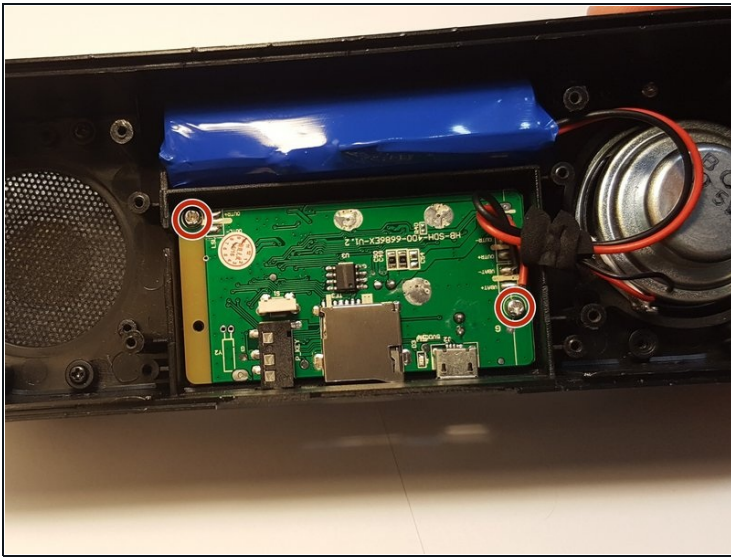
- Desolder the speaker joints from the motherboard. Follow this [How To Solder](#) guide for help with desoldering.

Step 10



- Remove the speaker from the motherboard.
- Remove the speaker ring.
⚠ Be careful not to remove other components in the speaker.
- Repeat Steps 5-7 with the other speaker.

Step 11 — Control Interface Circuit Board

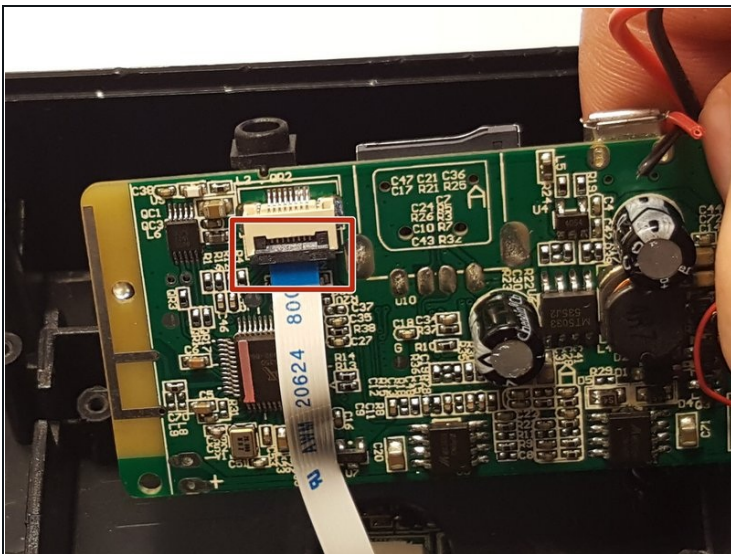


- Remove the two 4.5 mm Phillips silver screws holding down the motherboard.

⚠ Note the ribbon that connects the motherboard to the control interface. Be careful with this while removing the motherboard, as it can tear easily.

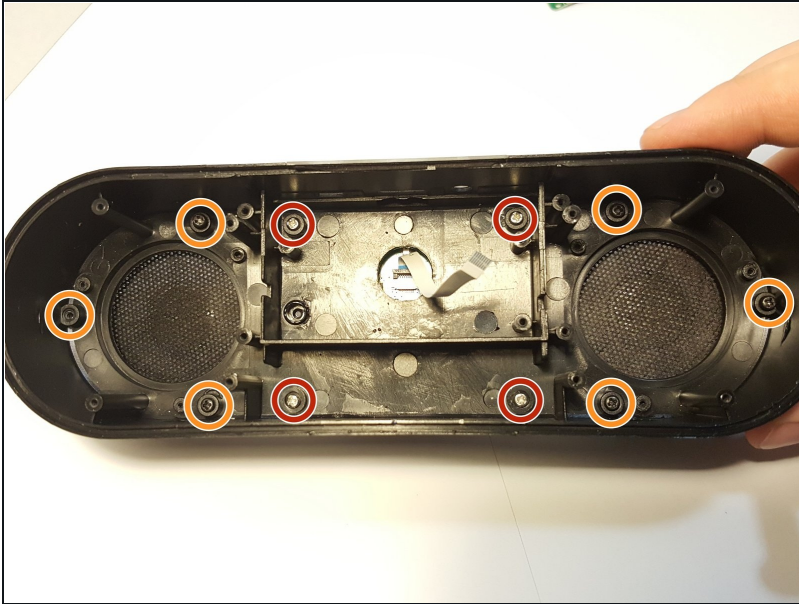
- Lift the motherboard out of its housing.

Step 12



- Use an iFixit opening tool to lift up the ribbon connector.
- Slide the ribbon cable out of its connector.

Step 13



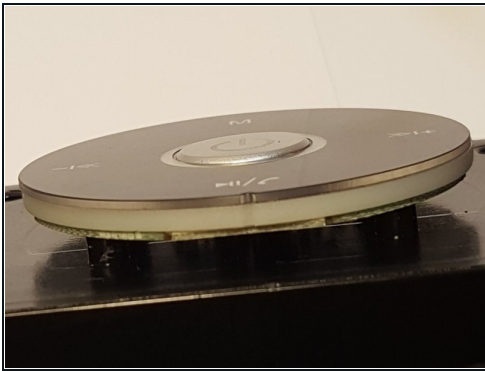
- Remove the four 4.5 mm Phillips silver screws.
- Remove the six 7 mm Phillips black screws.

Step 14



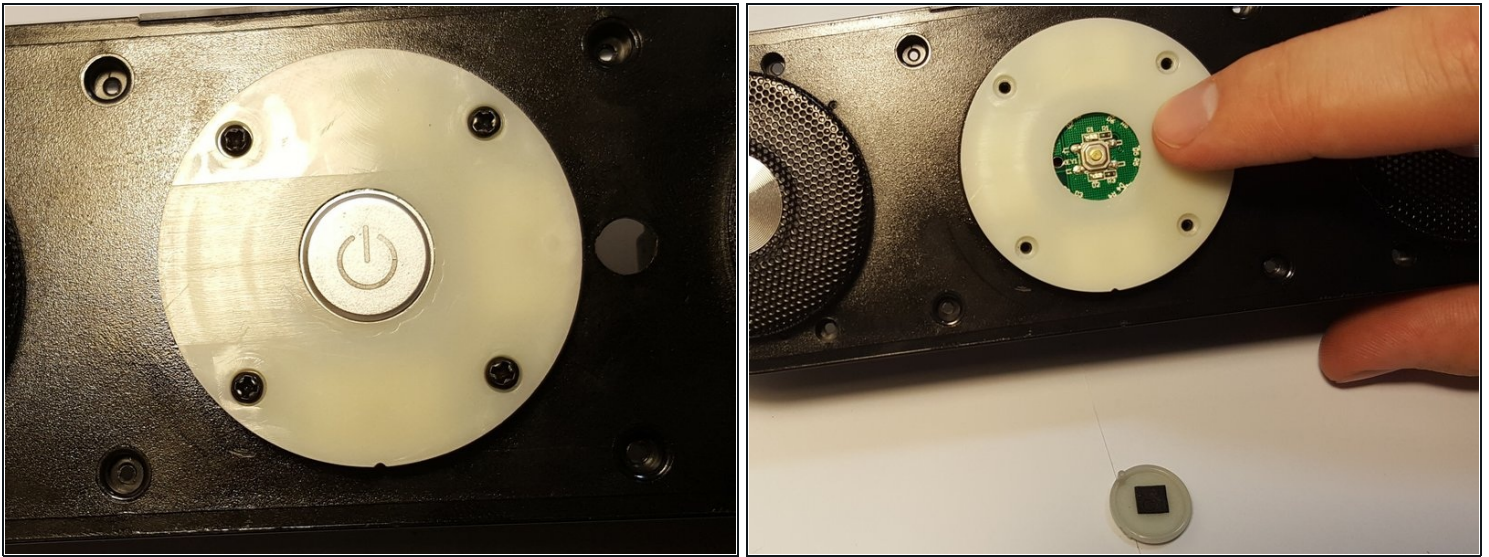
- Remove the top plastic cover by prying around the edges with an iFixit opening tool.

Step 15



- Carefully remove the round black cover of the circuit board by using a spudger to pry it upward.
 - ⚠ When working with electronics, it's important to choose a tool that is electrostatic discharge (ESD) safe in order to avoid accidental damage to the device. A metal spudger is great when you need serious prying power, but a regular black nylon spudger or a plastic tool should be used whenever possible.
 - ☑ Handle the cover plate carefully. Just like with the feet from before, it can be replaced if care is used when handling it.
- Remove the four screws.

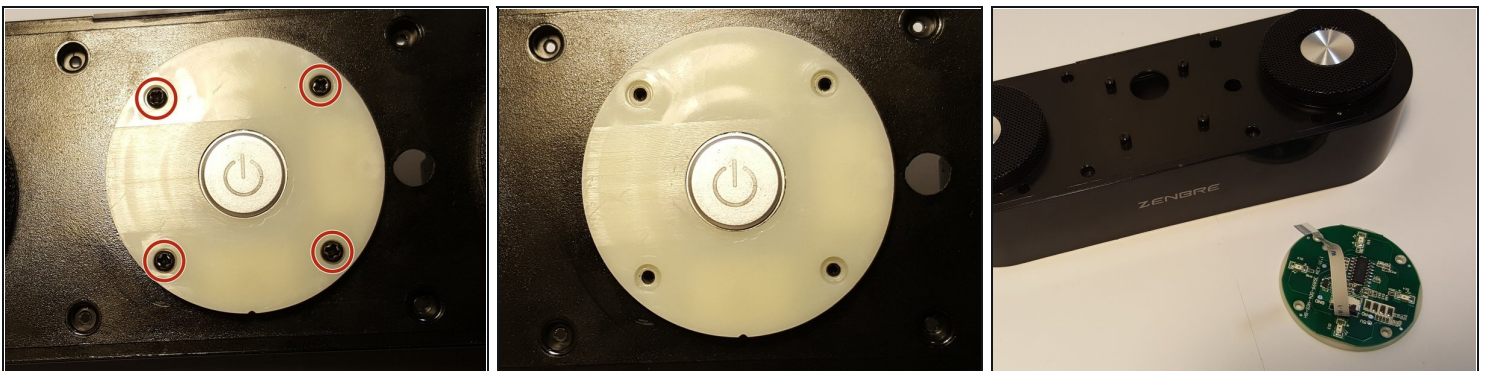
Step 16



- Pick up the center power button and remove it. Place it in a safe location.

⚠ When you pick up the power button, the board will come right off. Be sure not to lose it.

Step 17



- Remove these four 7 mm black screws.
- This will free the circuit board, which can now be lifted away from the housing.
 - ① If you wish to remove the ribbon here, use the same method used to remove the ribbon from the motherboard earlier in this guide.

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