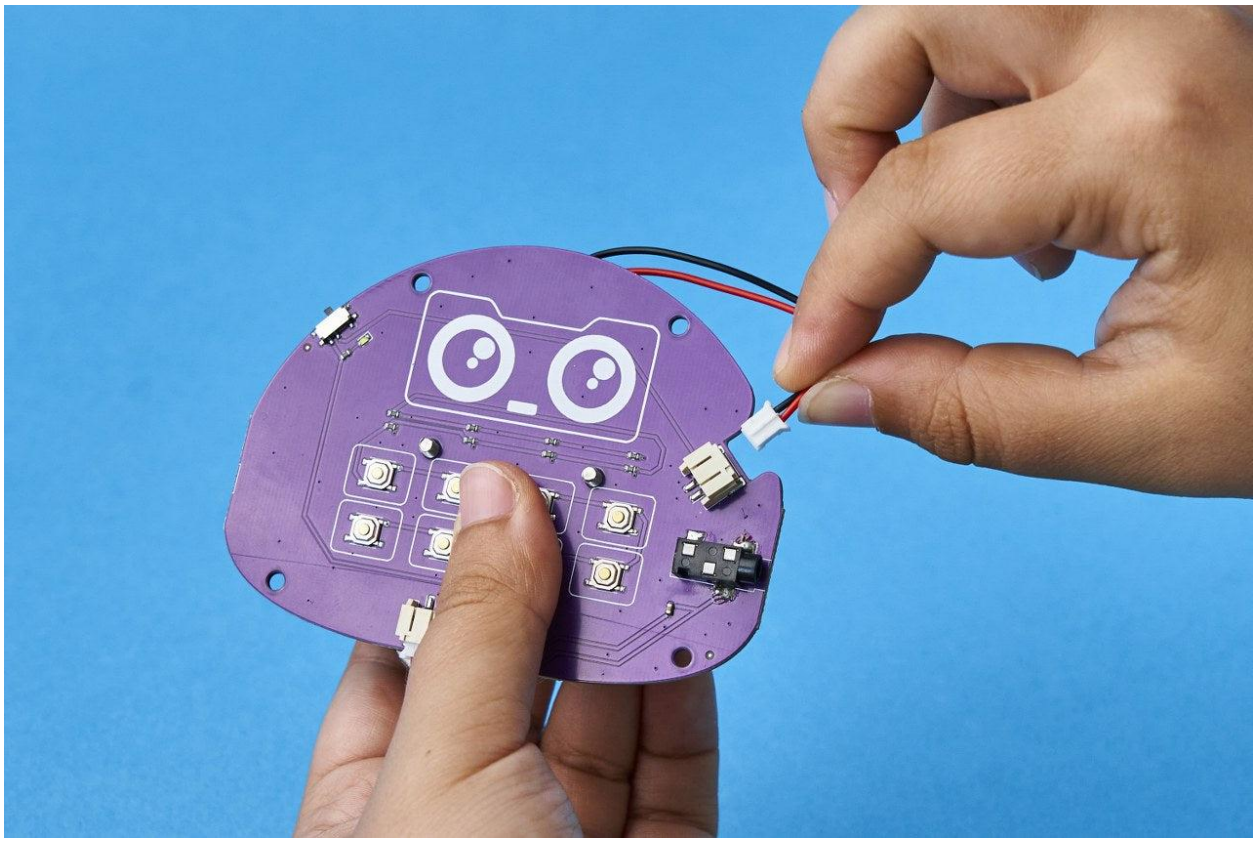
Introduction

Welcome to CircuitMess Buttons, the Wacky Robot build guide!

By following this build guide, you'll learn how to assemble your Wacky Robot Buttons!



Buttons is a beginner-friendly **10-piece kit**.

With Buttons, you'll learn about different electronic components and oscillators and synthesizers.

After you finish building Buttons, you'll be able to play fun sounds on it.

Age group

This product is **7+**.

Make sure to have an adult helping you with the assembly process. It's okay to ask for help.

Assembly time

It should take you approximately **1 hour** to fully assemble your Artemis.

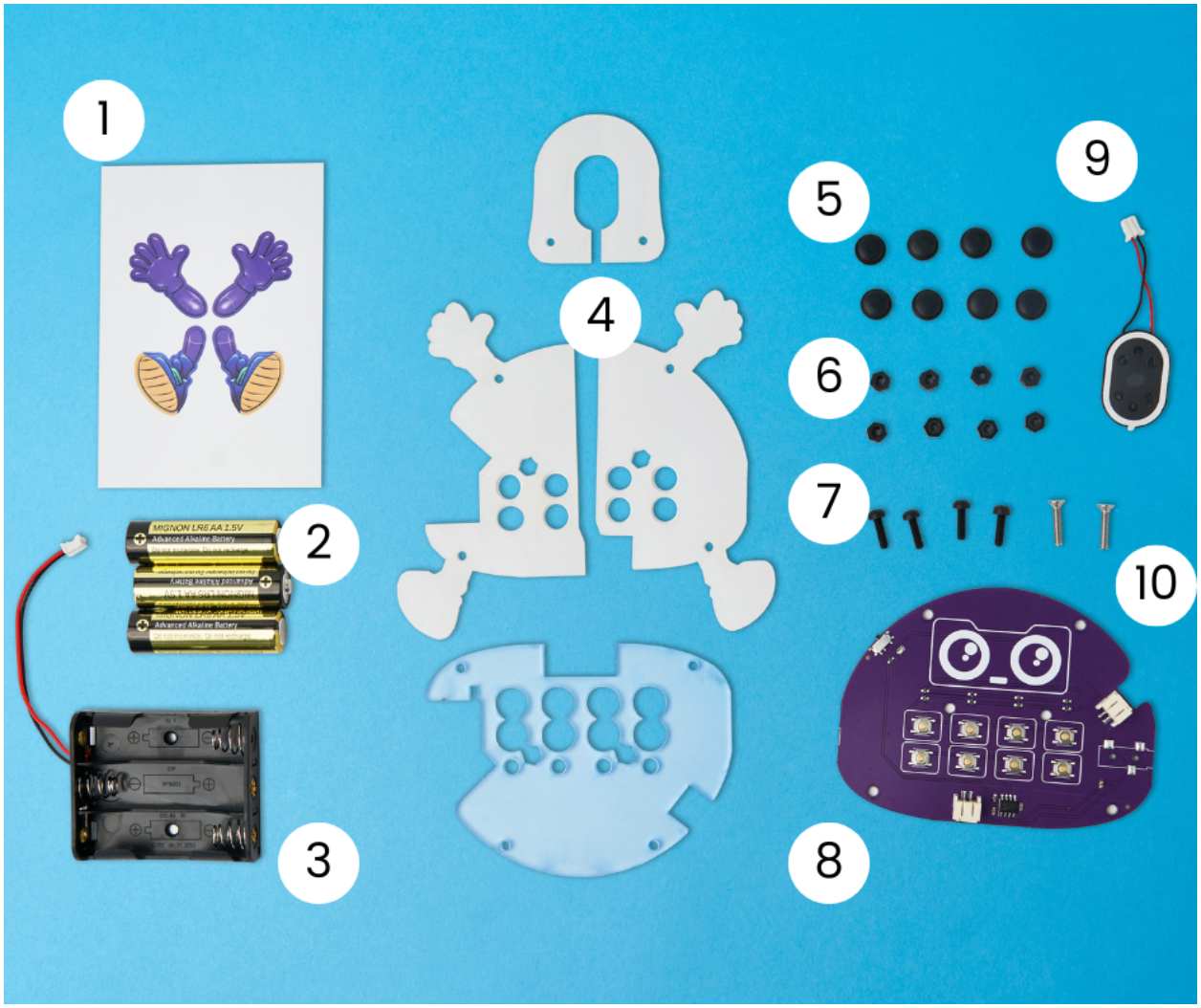
Skills

You don't need any specific skills before getting your hands dirty with this DIY project.

The main objective here is to have fun and learn something new.

What's in the box?

Let's meet all the components that arrived!



In case something is missing, please contact us at contact@circuitmess.com. Send us a photo of everything that came in the box, and we'll get back to you as soon as possible to resolve the issue.

Here's the list of components:

1. Stickers
2. 3x AA batteries
3. Battery holder
4. Acrylic casing
5. Pushbuttons
6. 8x standoffs
7. 4x black bolts
8. PCB

9. Speaker
10. 2x metal screws

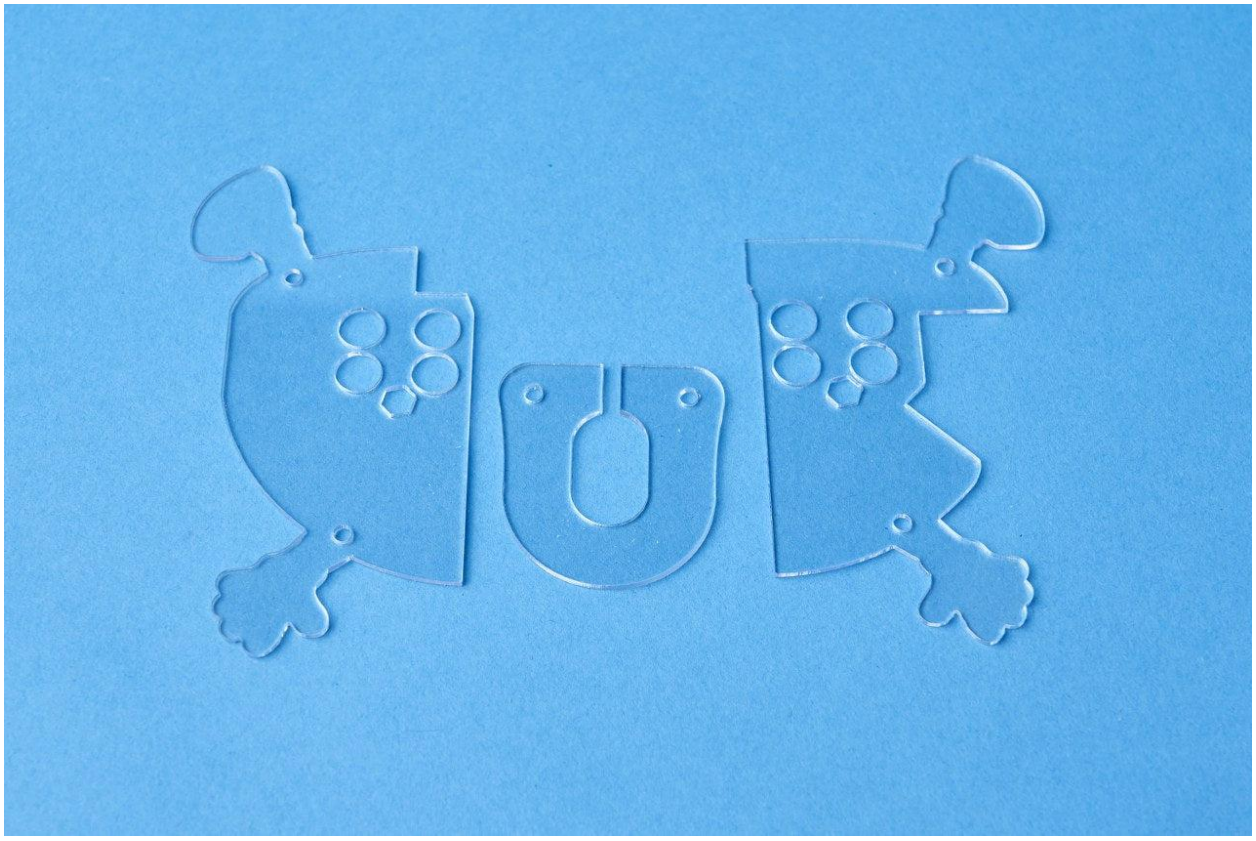
Buttons, meet your maker!

Part one - Removing the protective foil

The first step is to peel off the protective foil from all of the acrylic casings.

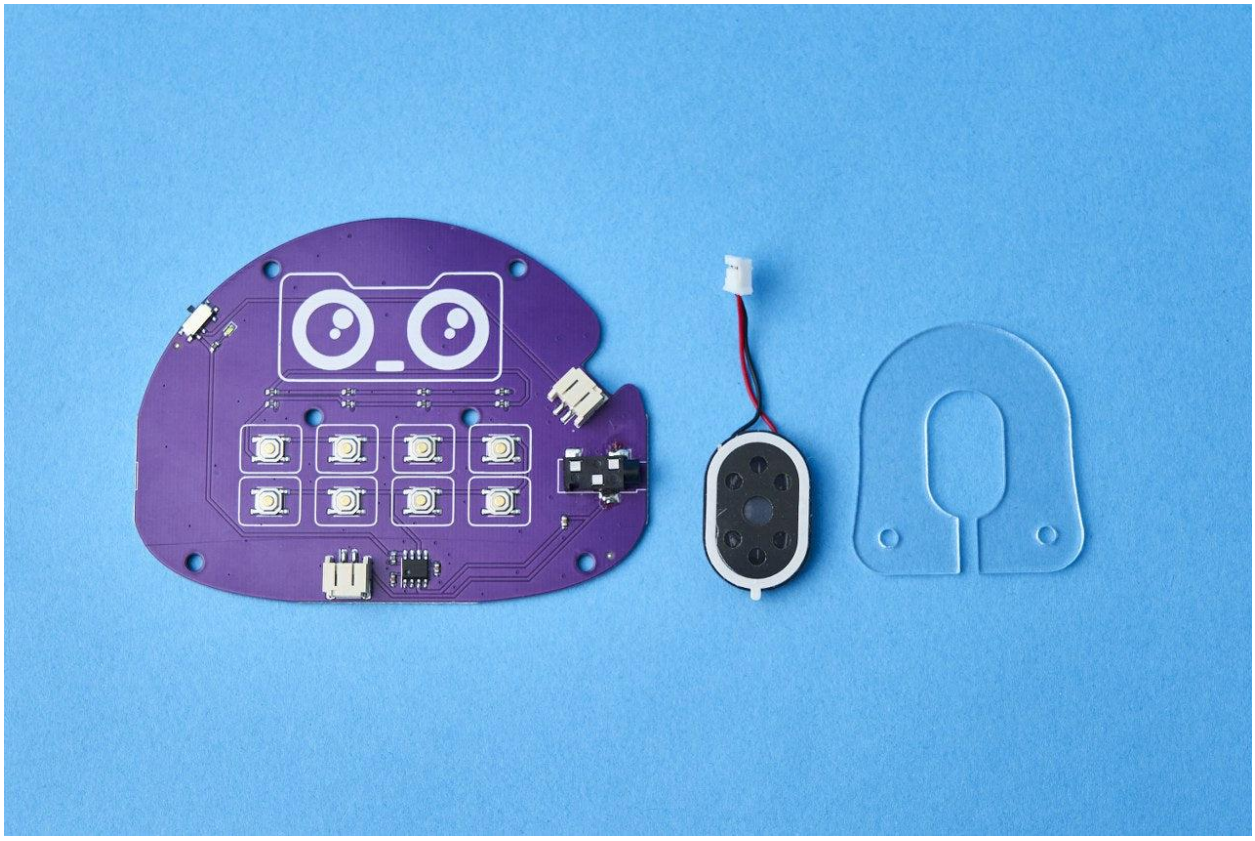
Remember to remove the foil from the other side as well.

Once you remove the foil from both sides, the casing should be completely transparent.

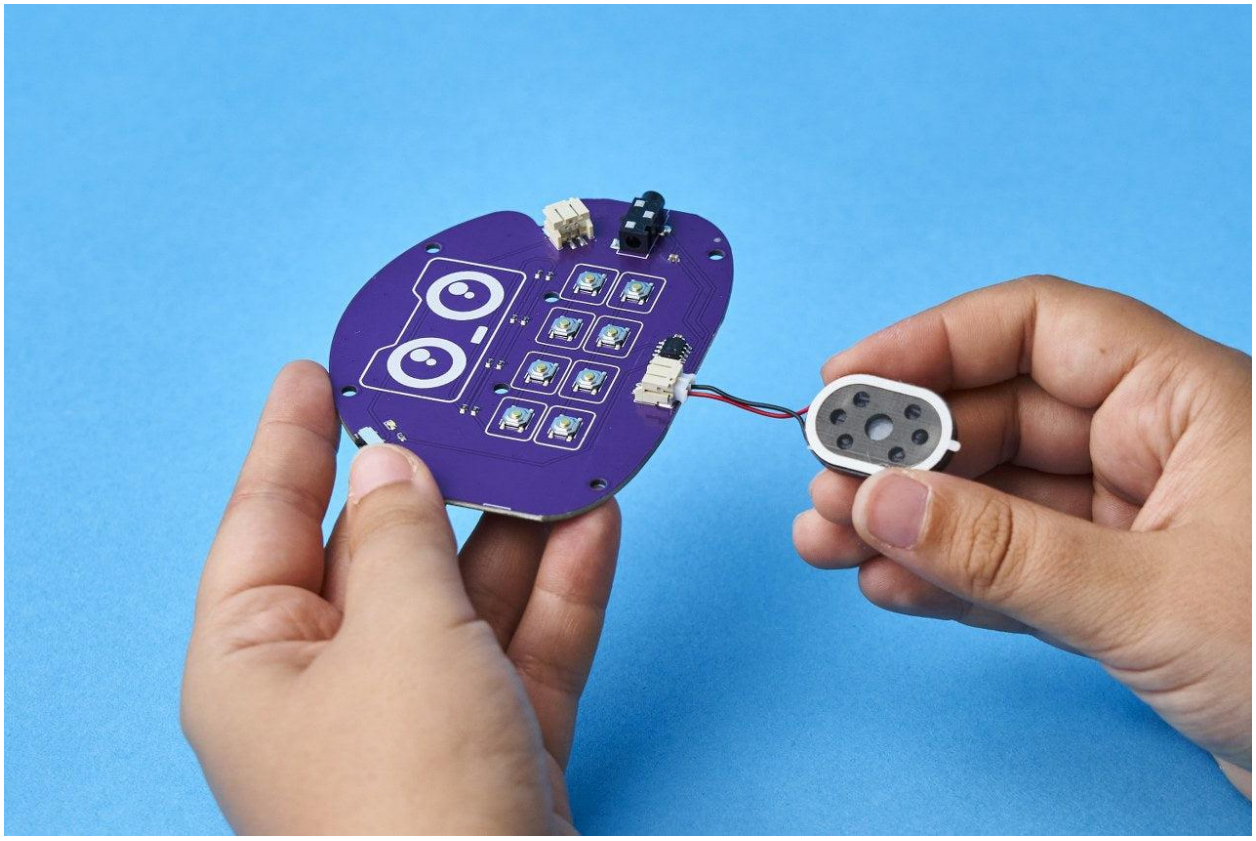


Part two - Speaker

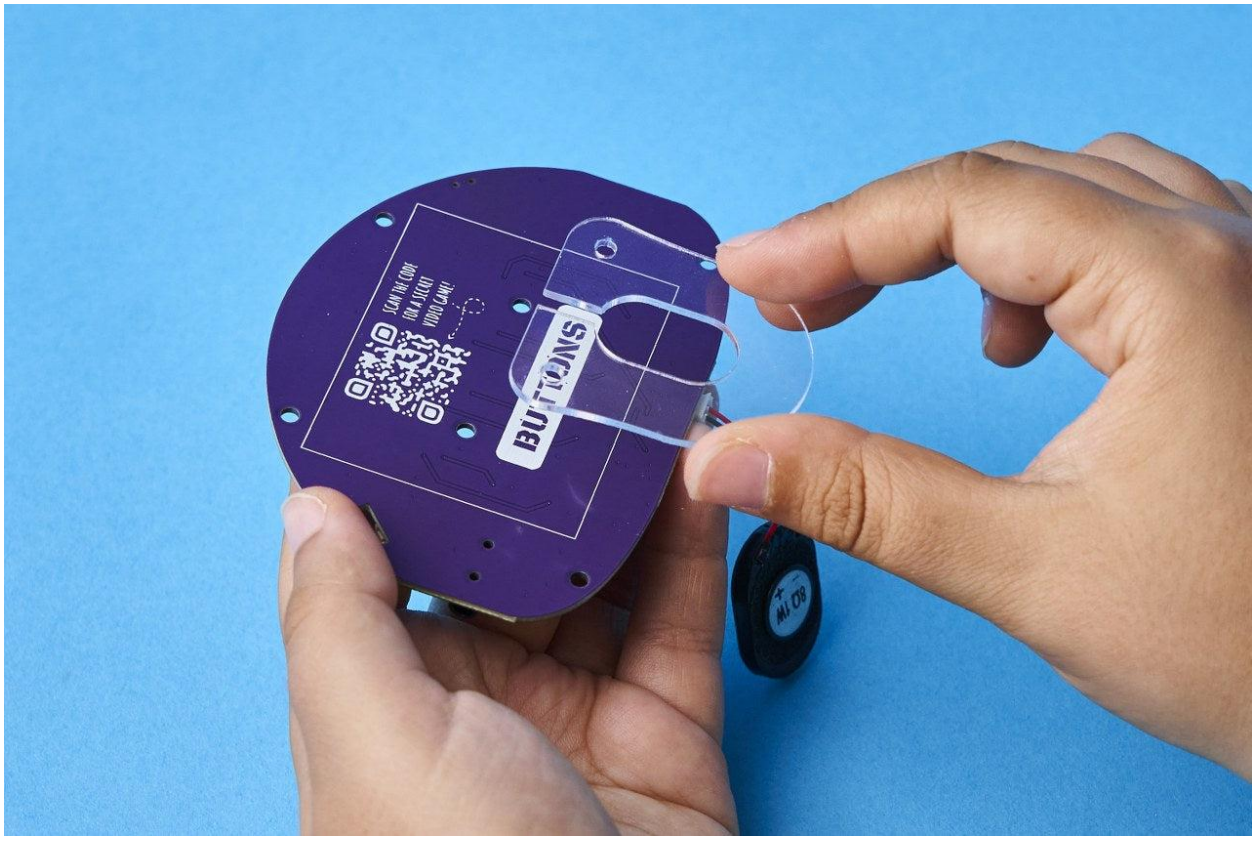
For the next step, take the speaker, PCB and the smallest acrylic casing:



Take the connector on your speaker, and connect it here:



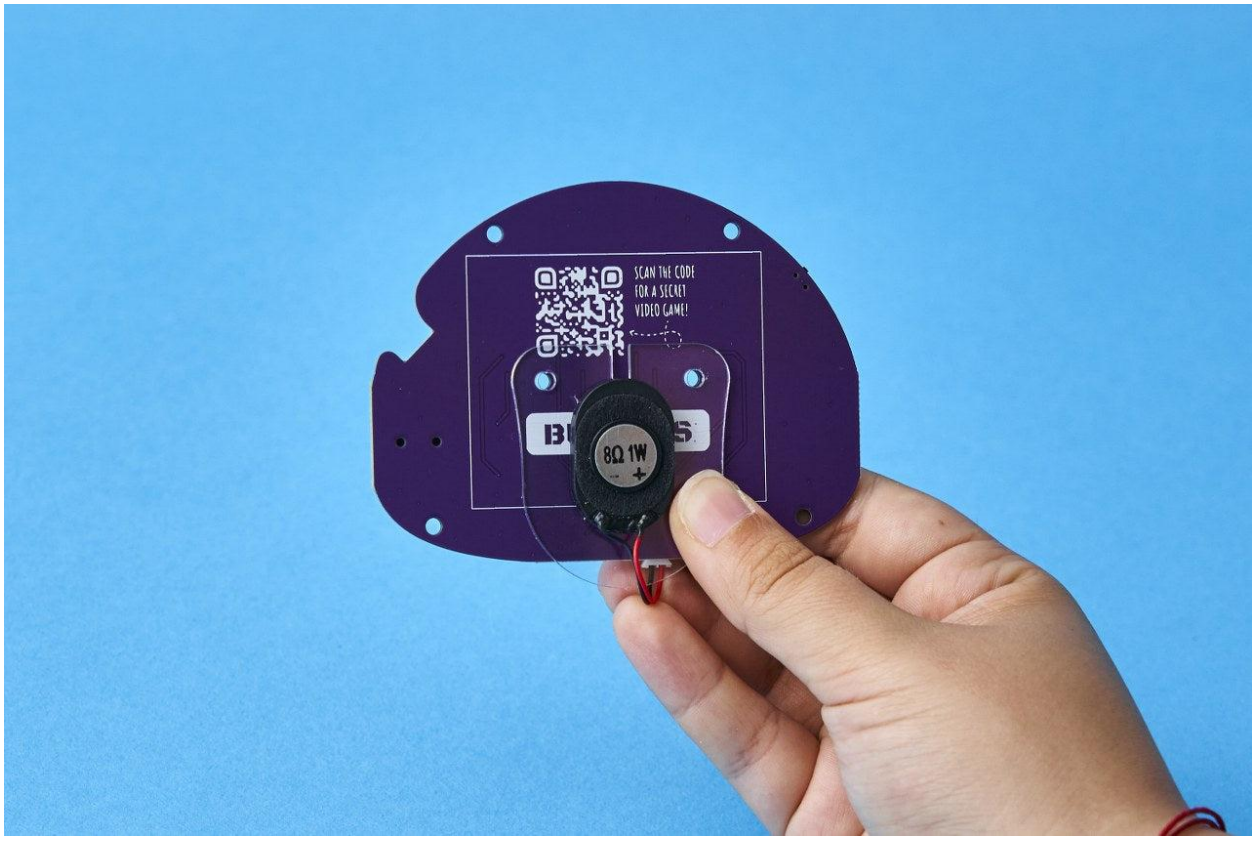
This is how the casing should be put on the board:



But first, make sure you remove the speaker's sticky protection:

Stick the sticky side of the speaker to the casing, like this:

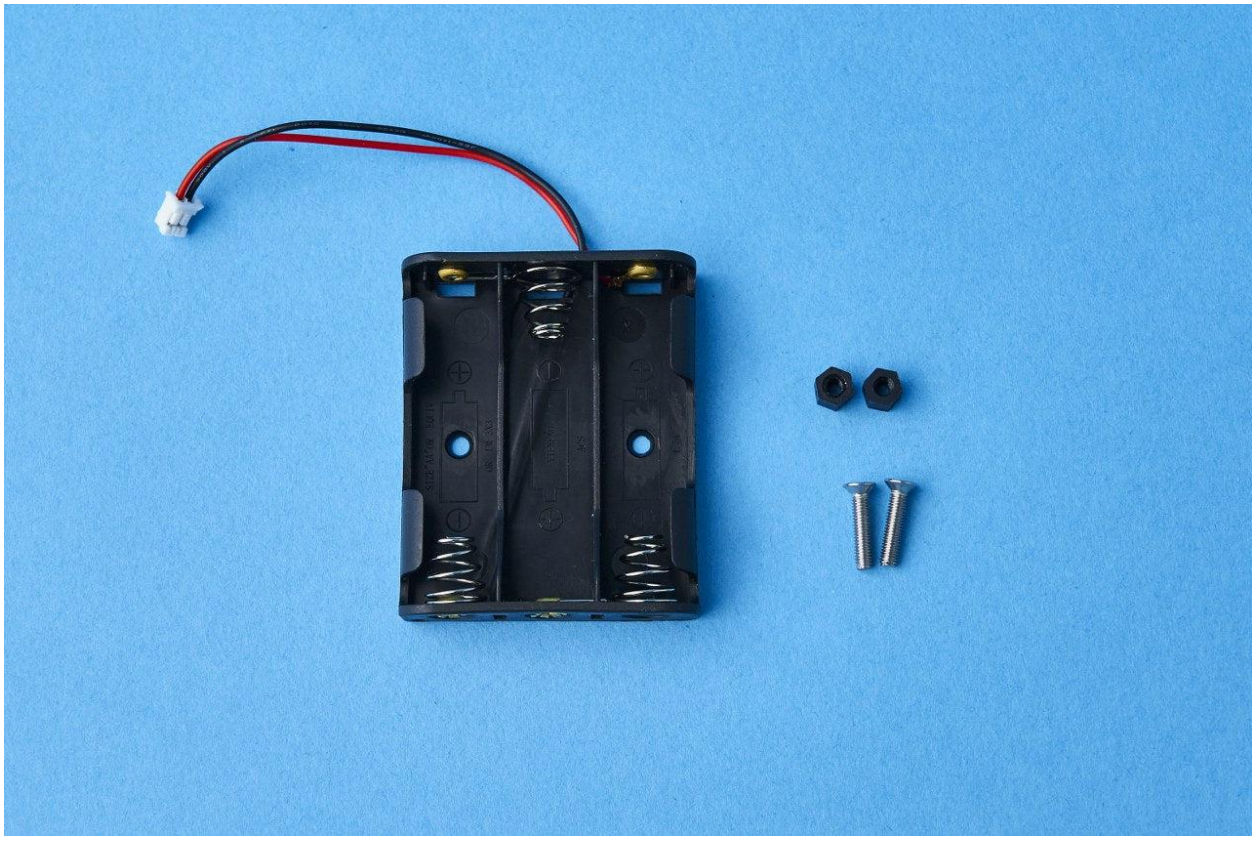
Attach everything on the board so that the holes in the casing and the PCB line up:



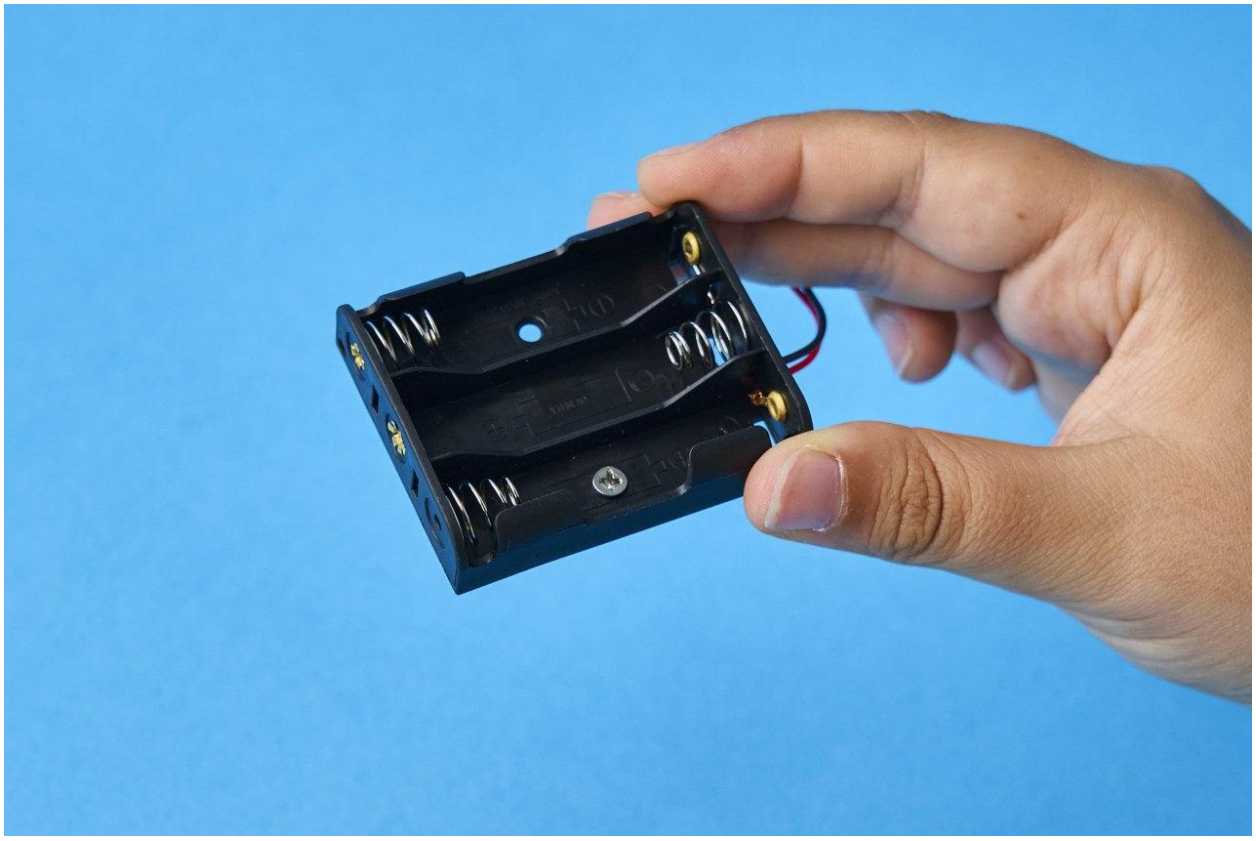
Put this aside for a moment.

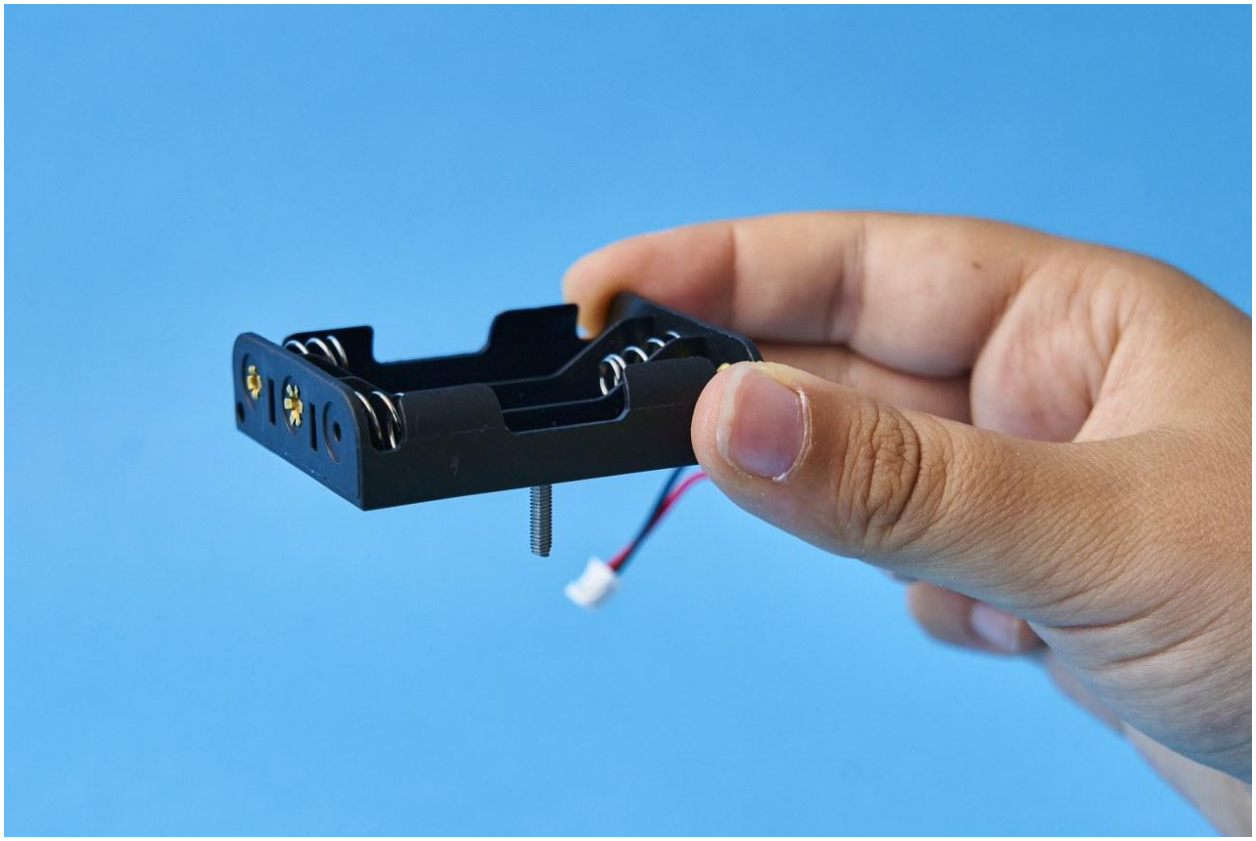
Part three - Battery holder

Now, take the battery holder, two metal screws and two standoffs.

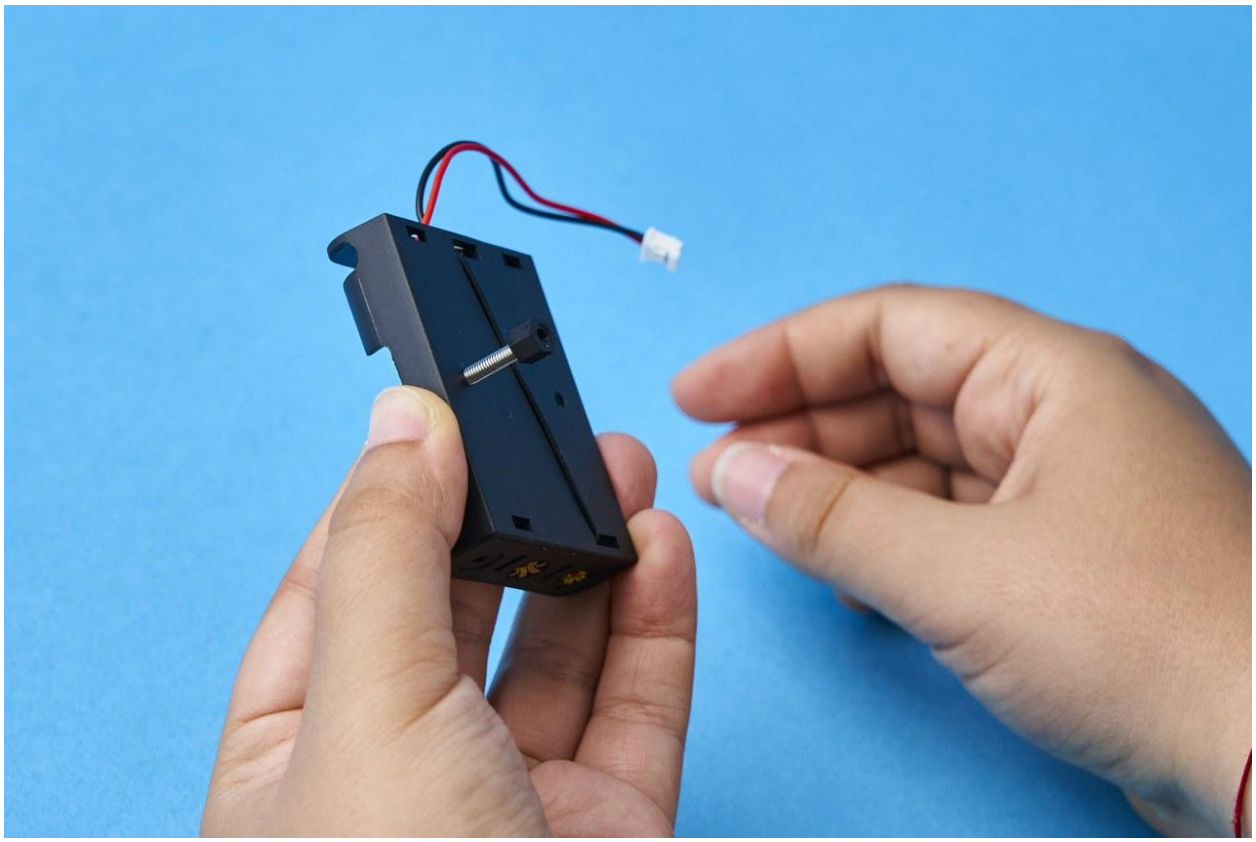


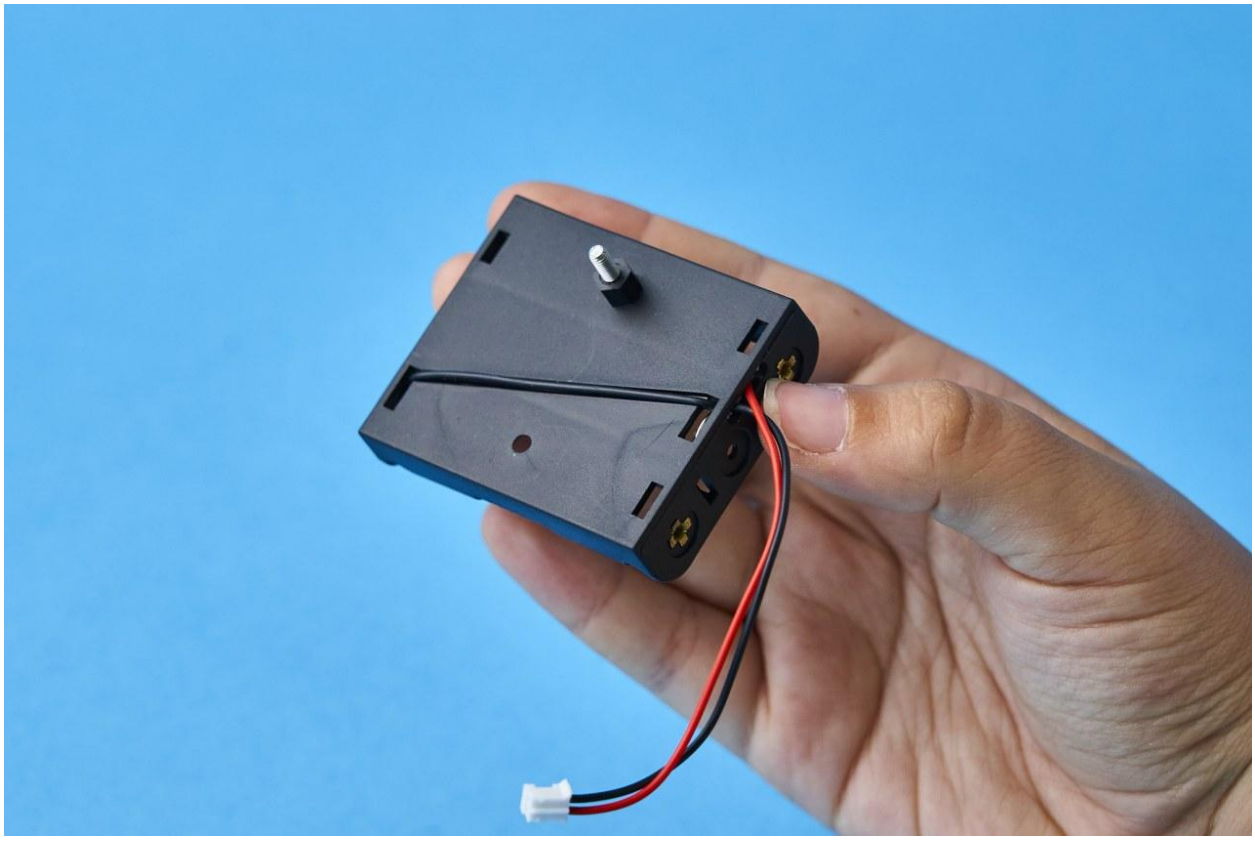
Put the metal screws into the battery holder like this:



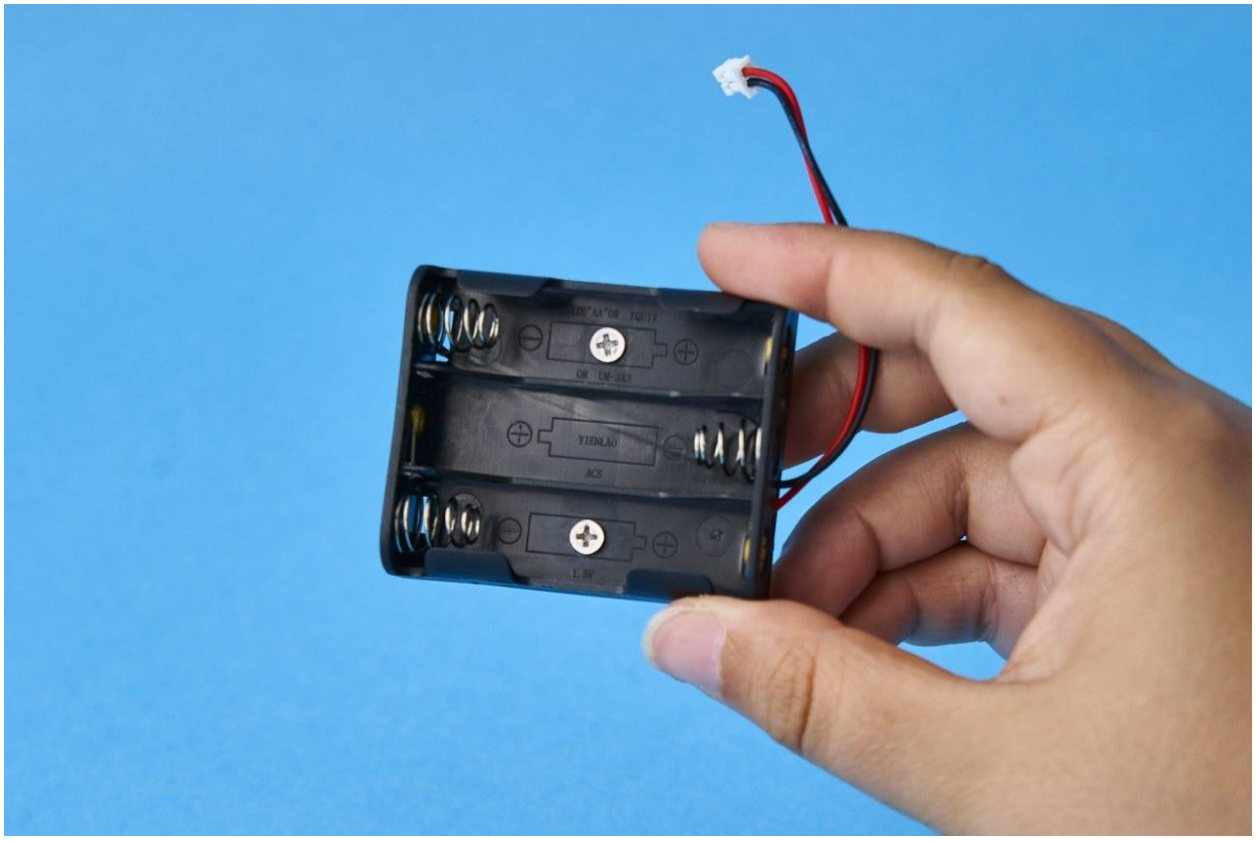


The next step is to take the standoffs and fasten the screws with them.





This is what your battery holder should look like right now: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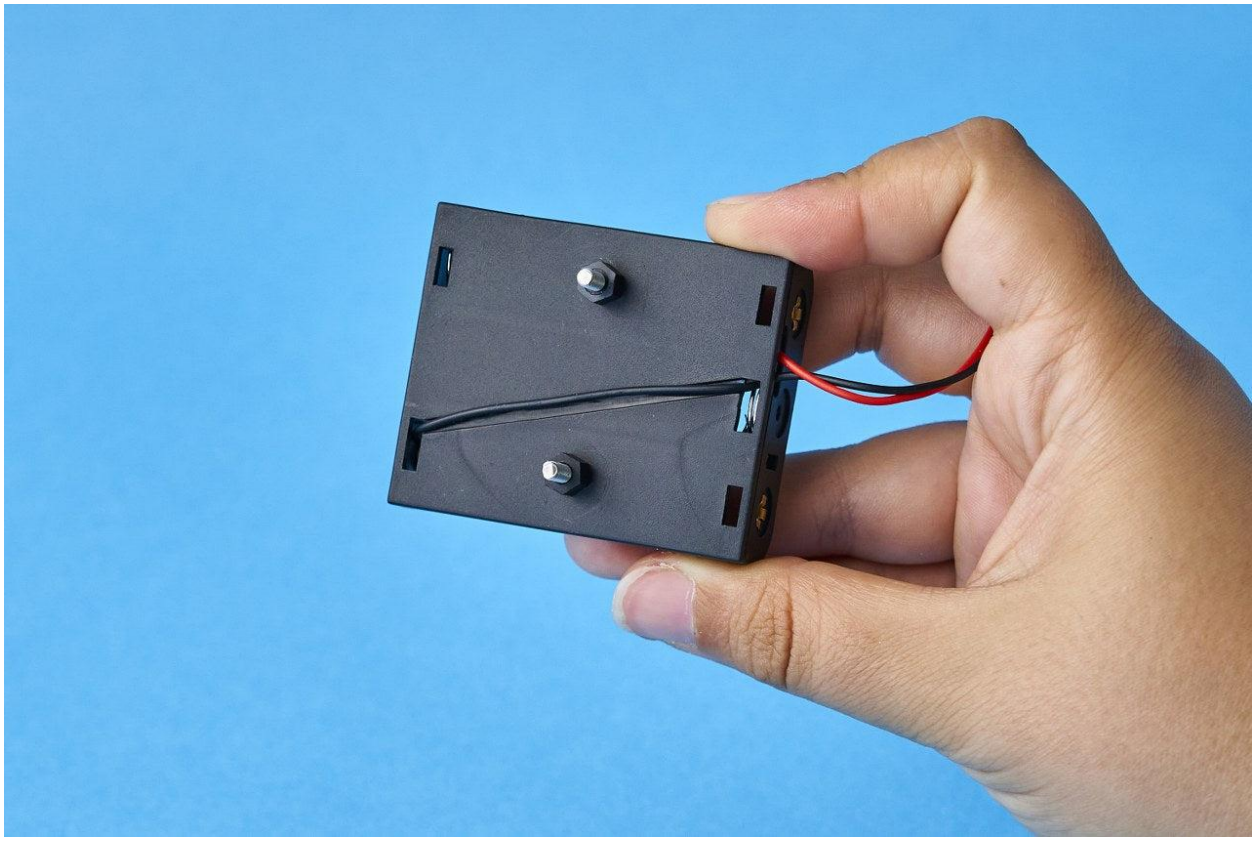
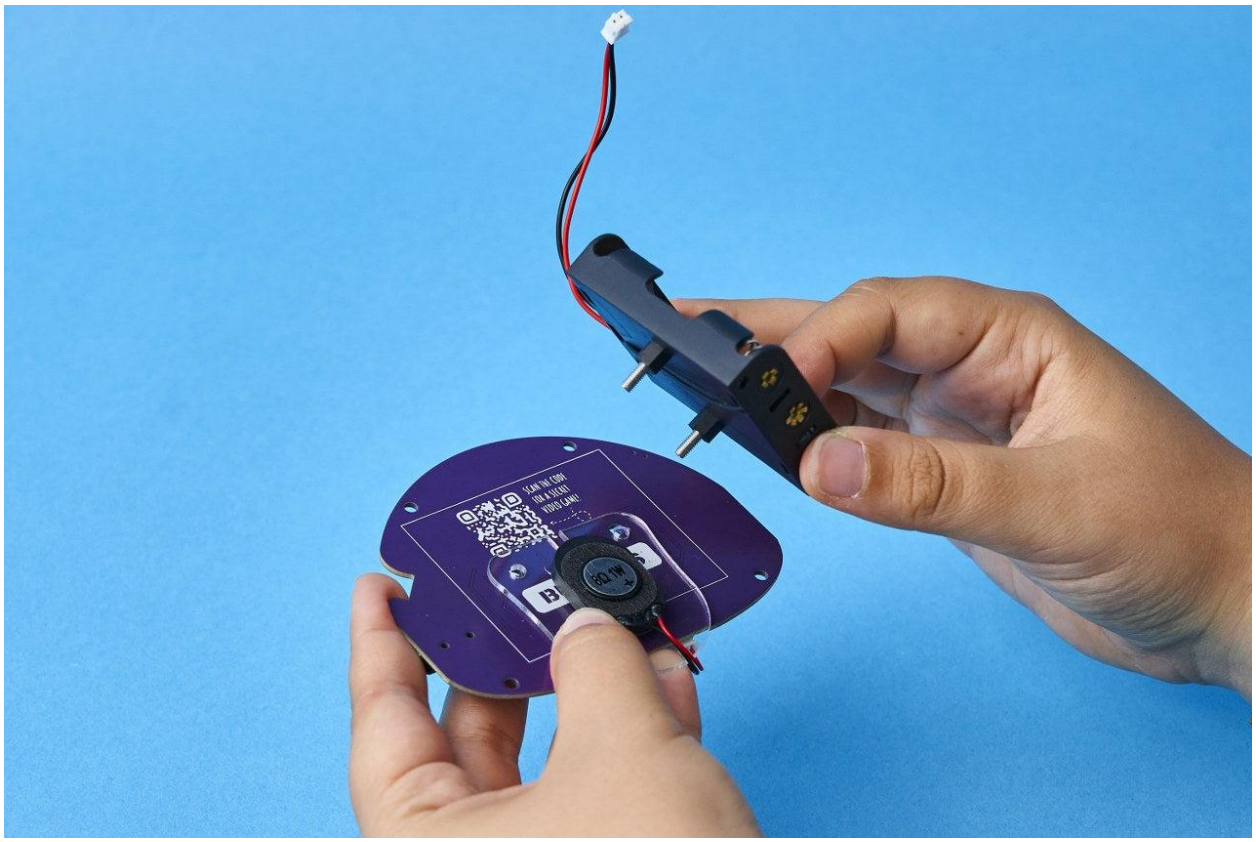
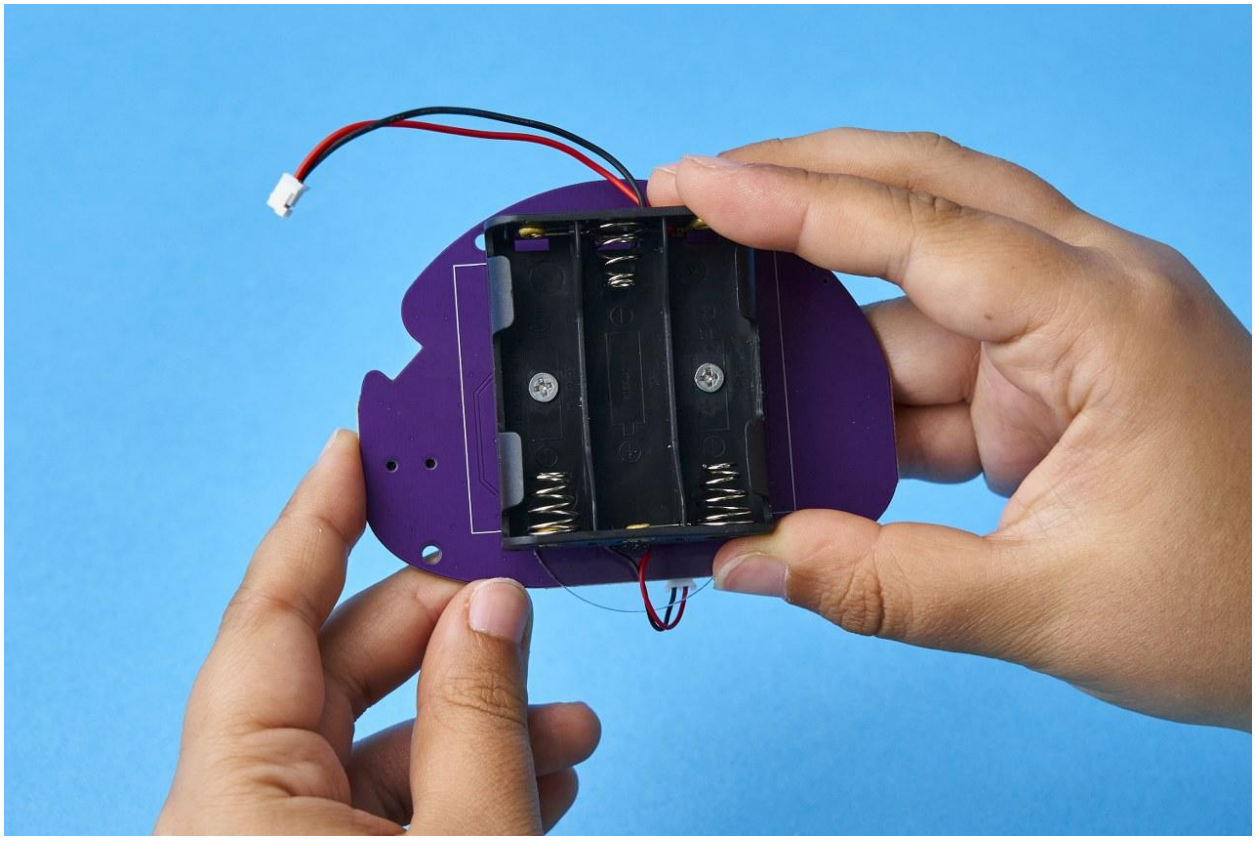


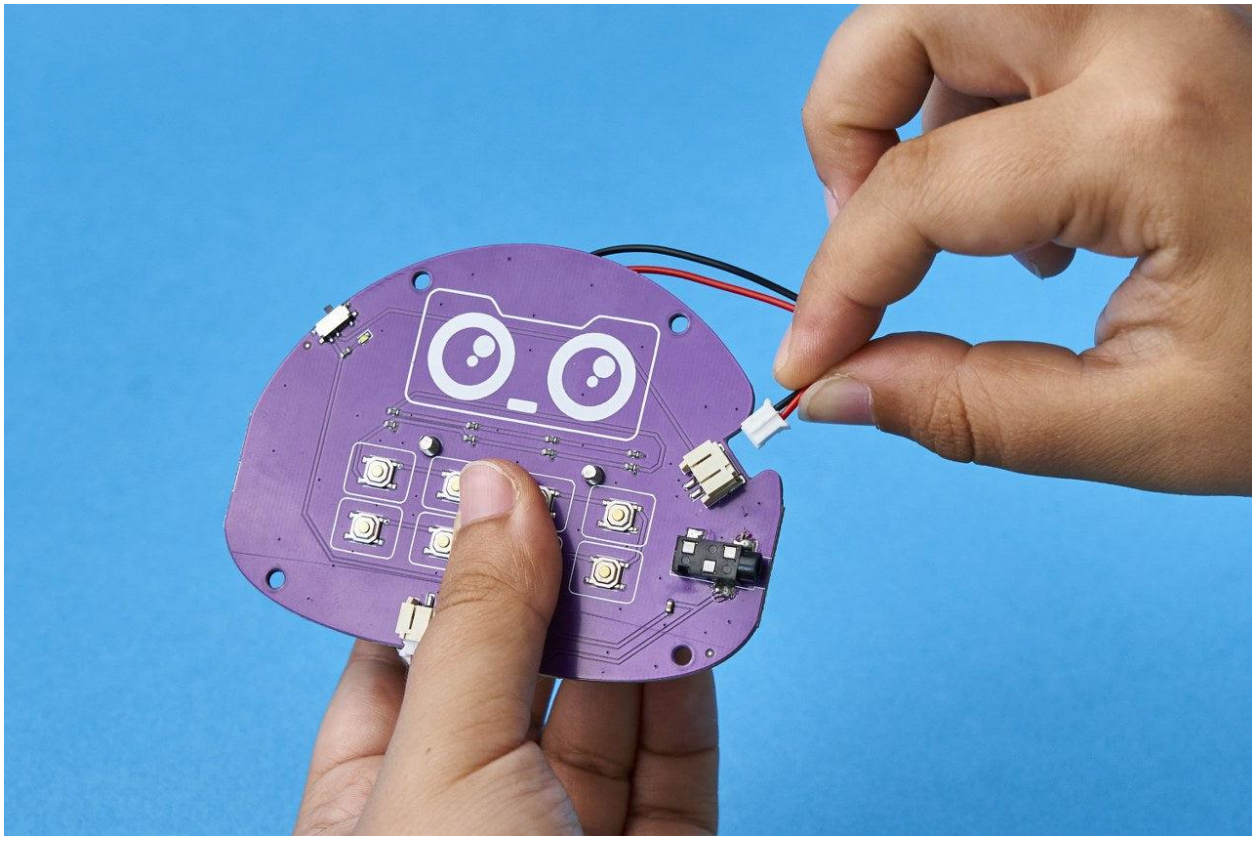
Take the PCB and the speaker you put aside and connect it with the battery holder like this:

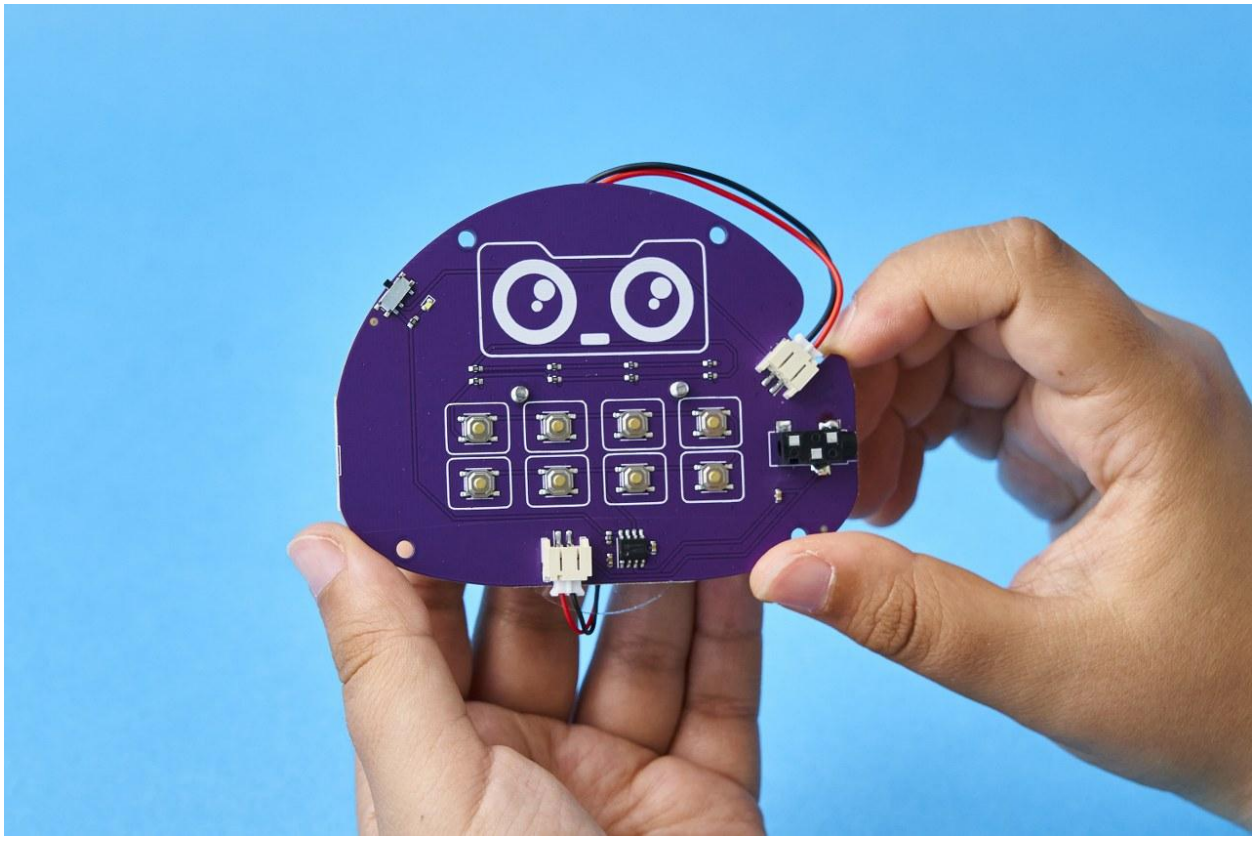


Make sure to turn the battery holder this way (so that the wire is turned up) so you can easily attach it to the battery connector.

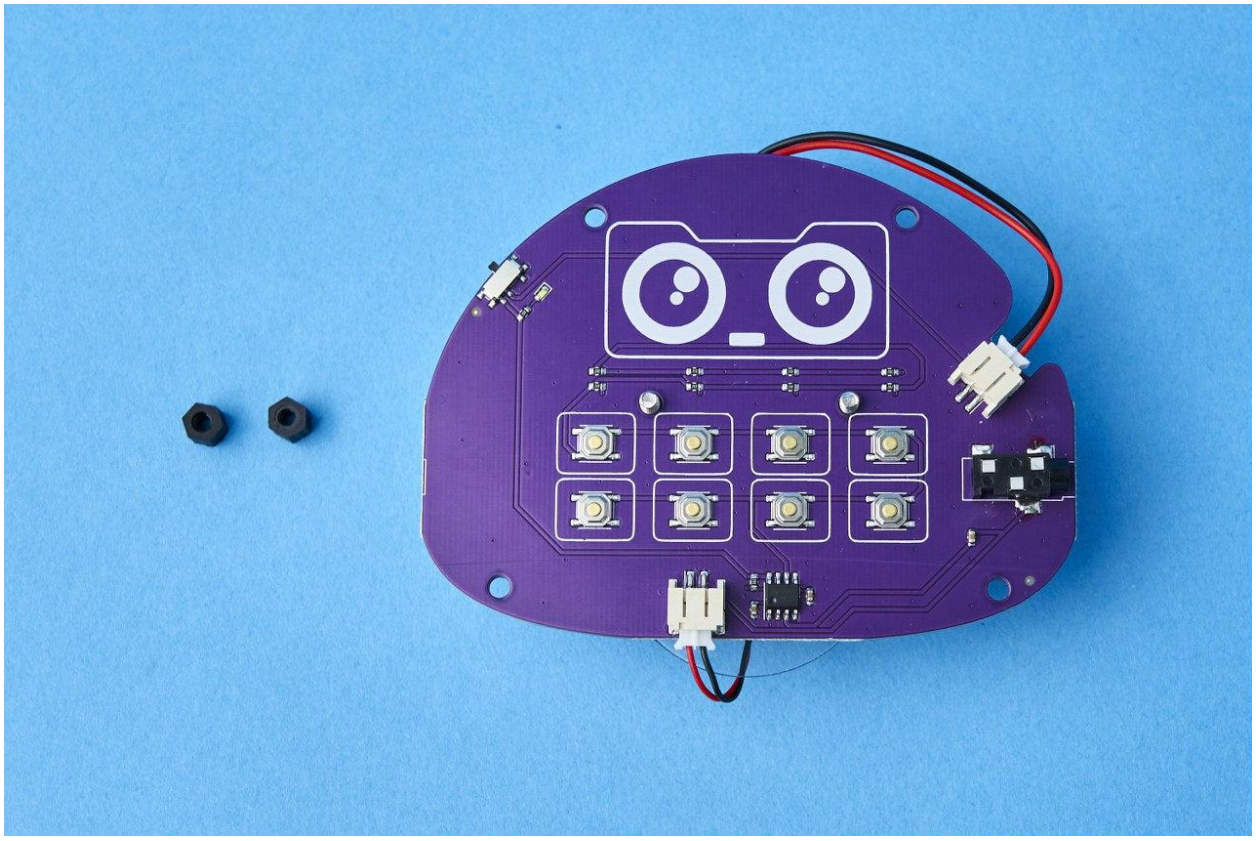


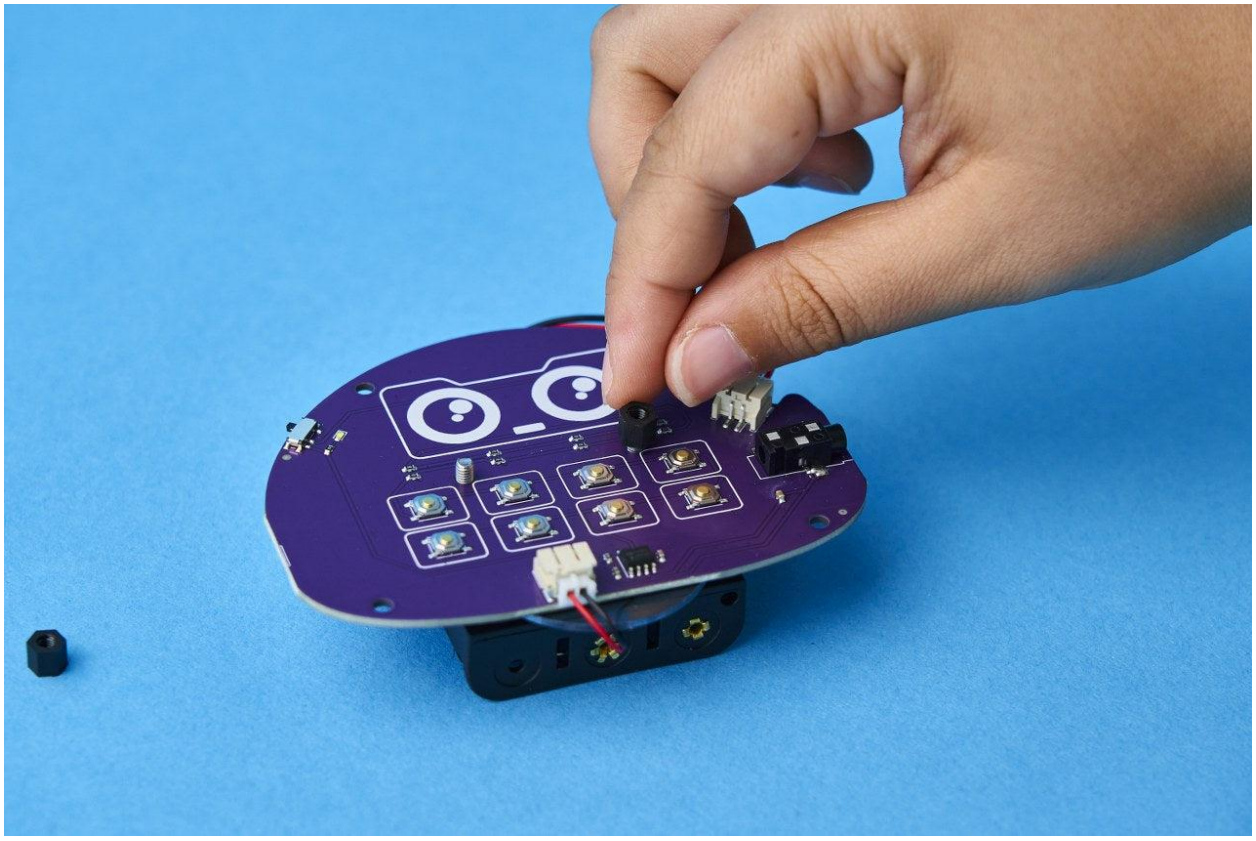
Connect the battery holder to the PCB:

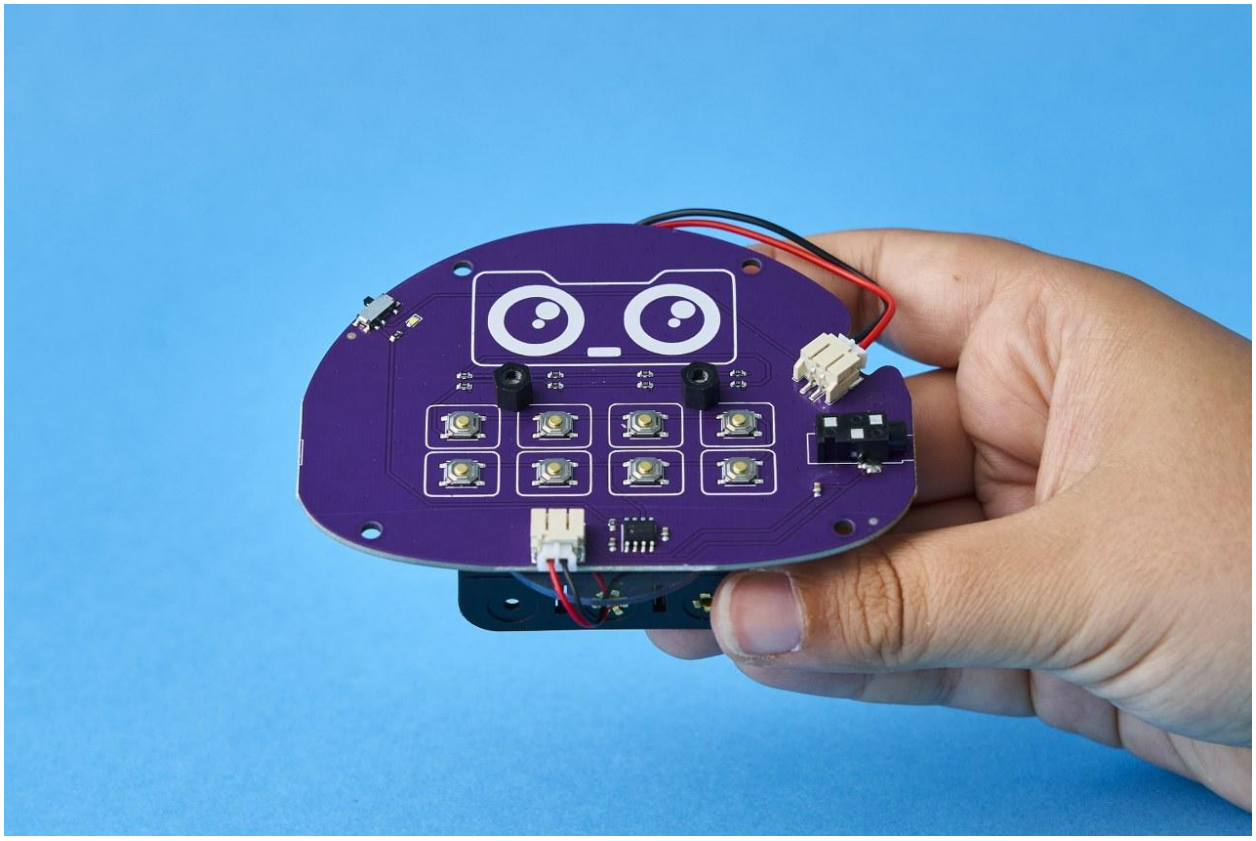


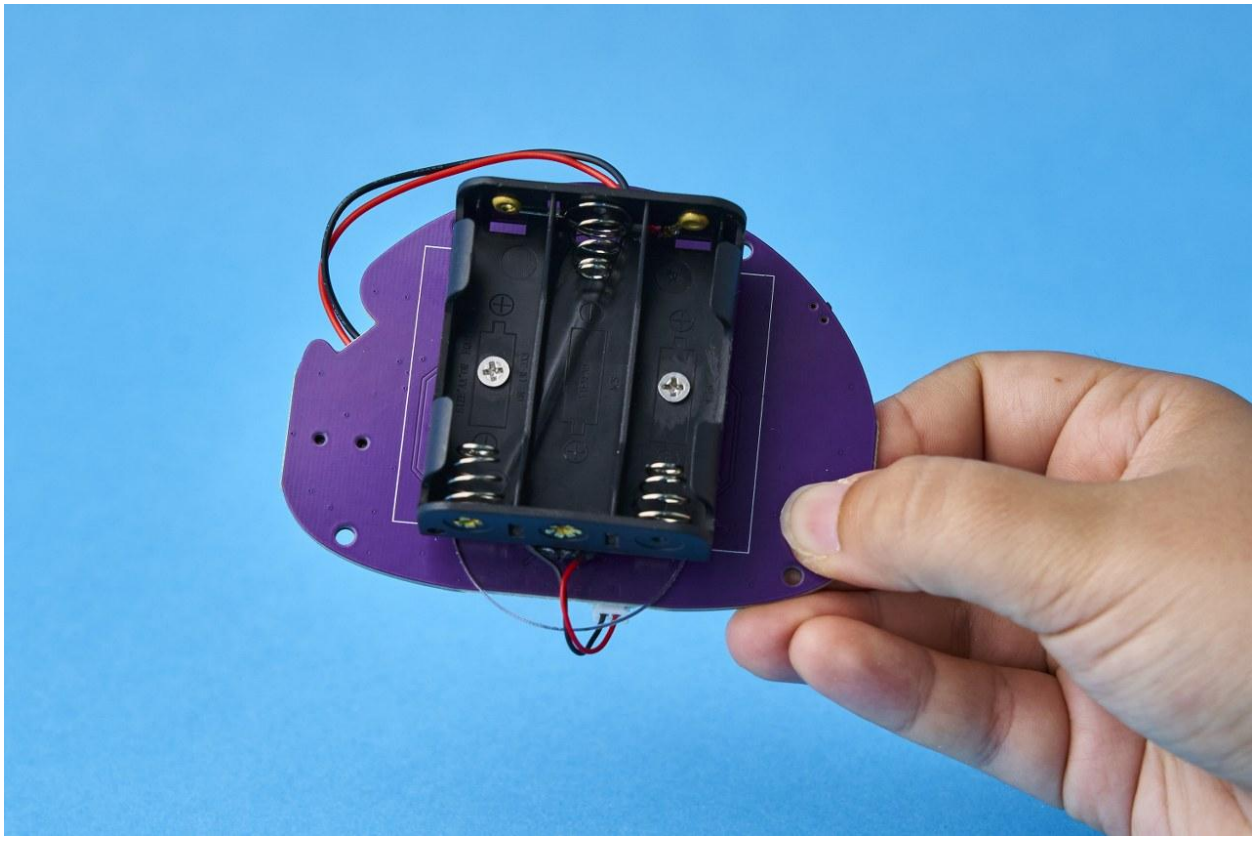


To secure your battery holder from falling off, take two standoffs and fasten them using your fingers.





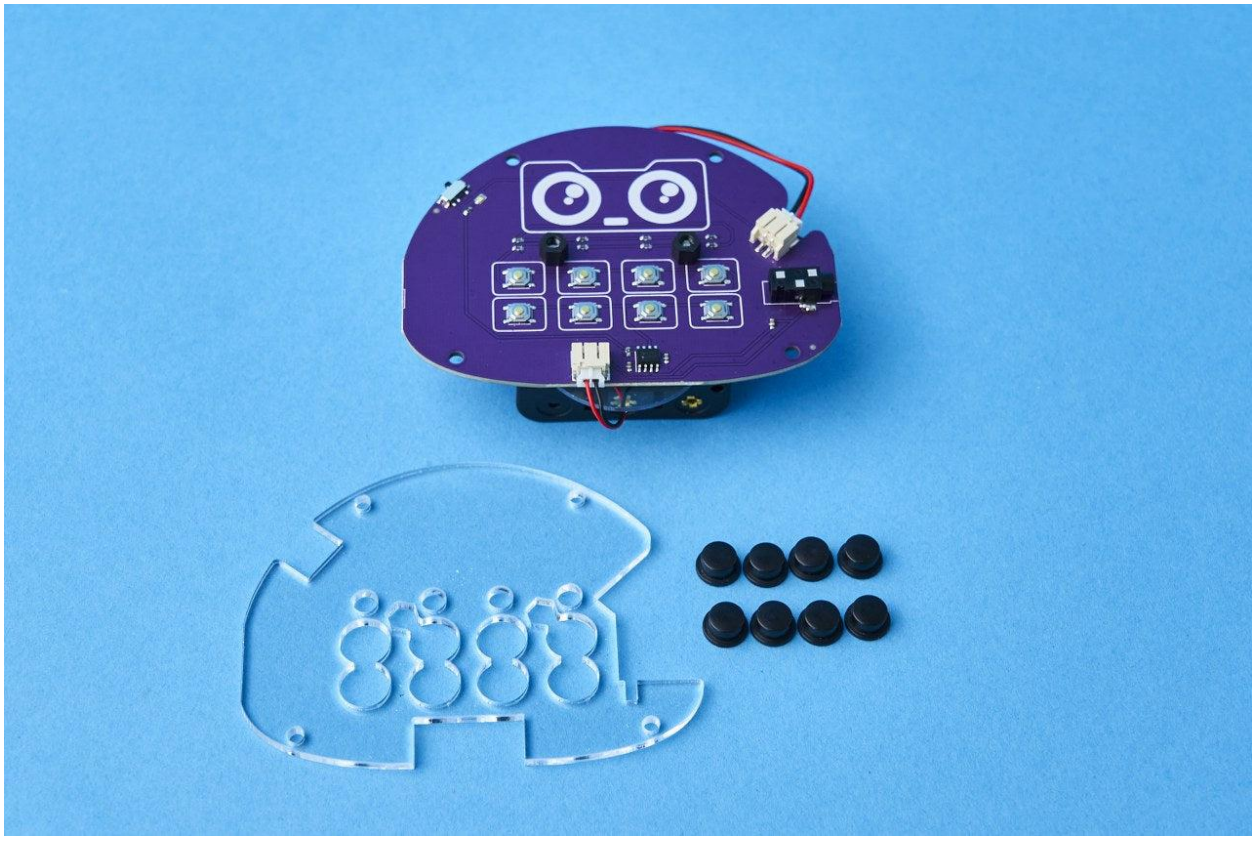




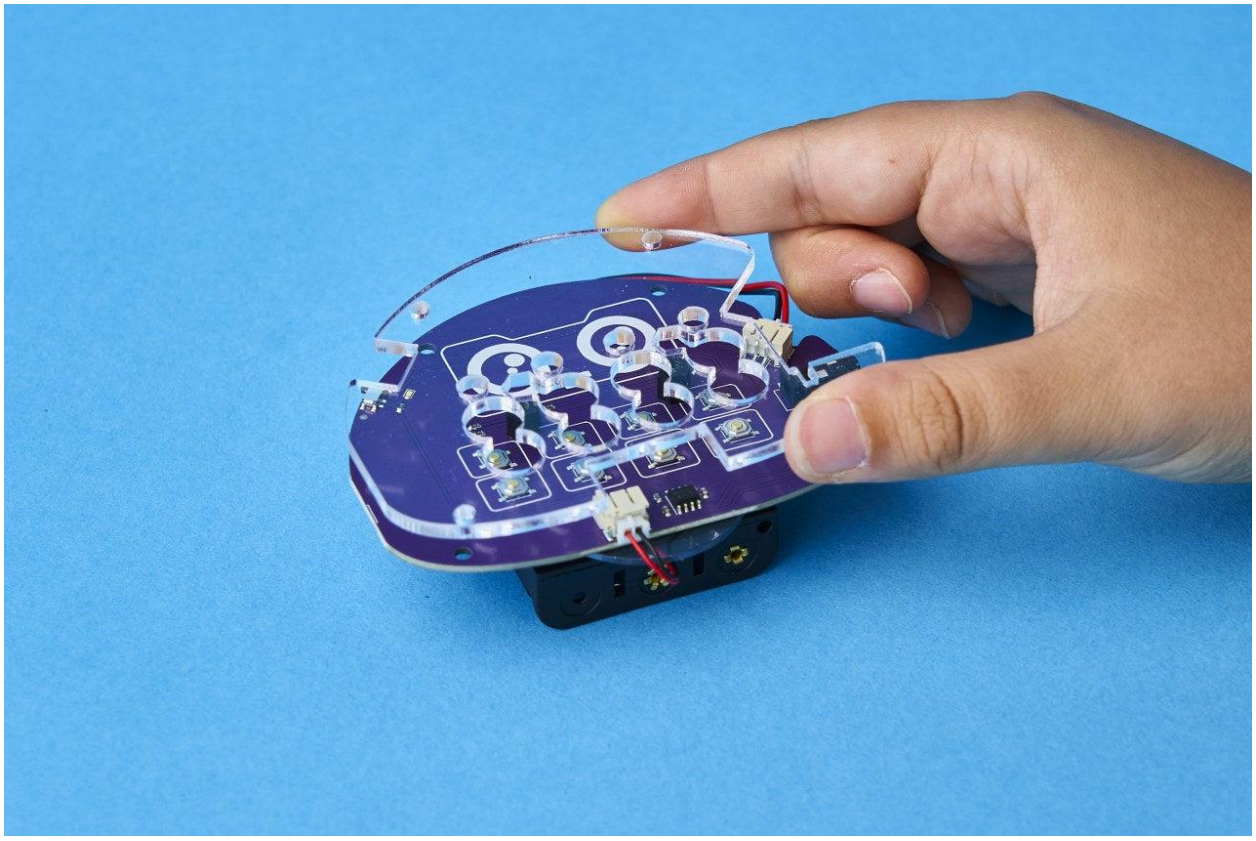
Part four - Pushbuttons

Let's put the pushbuttons into use!

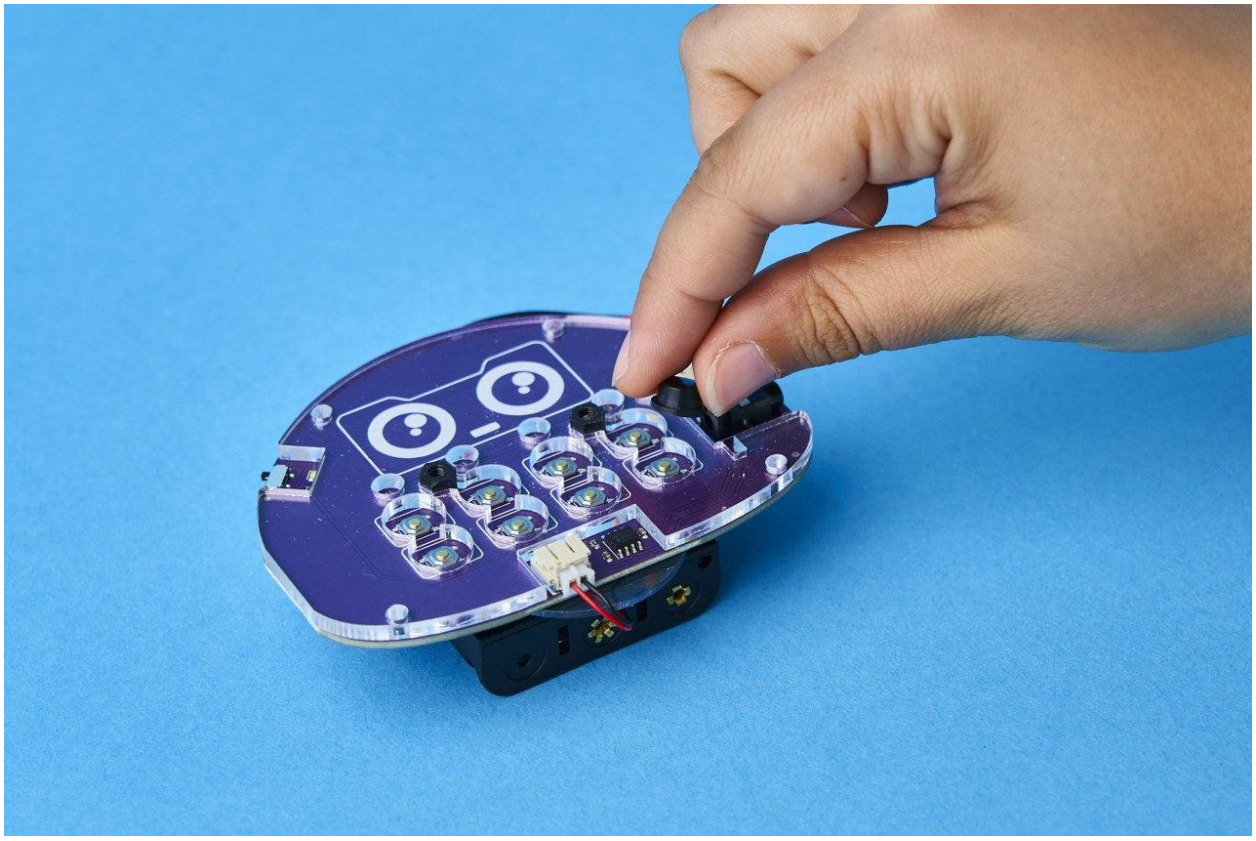
These are the components you'll need now:

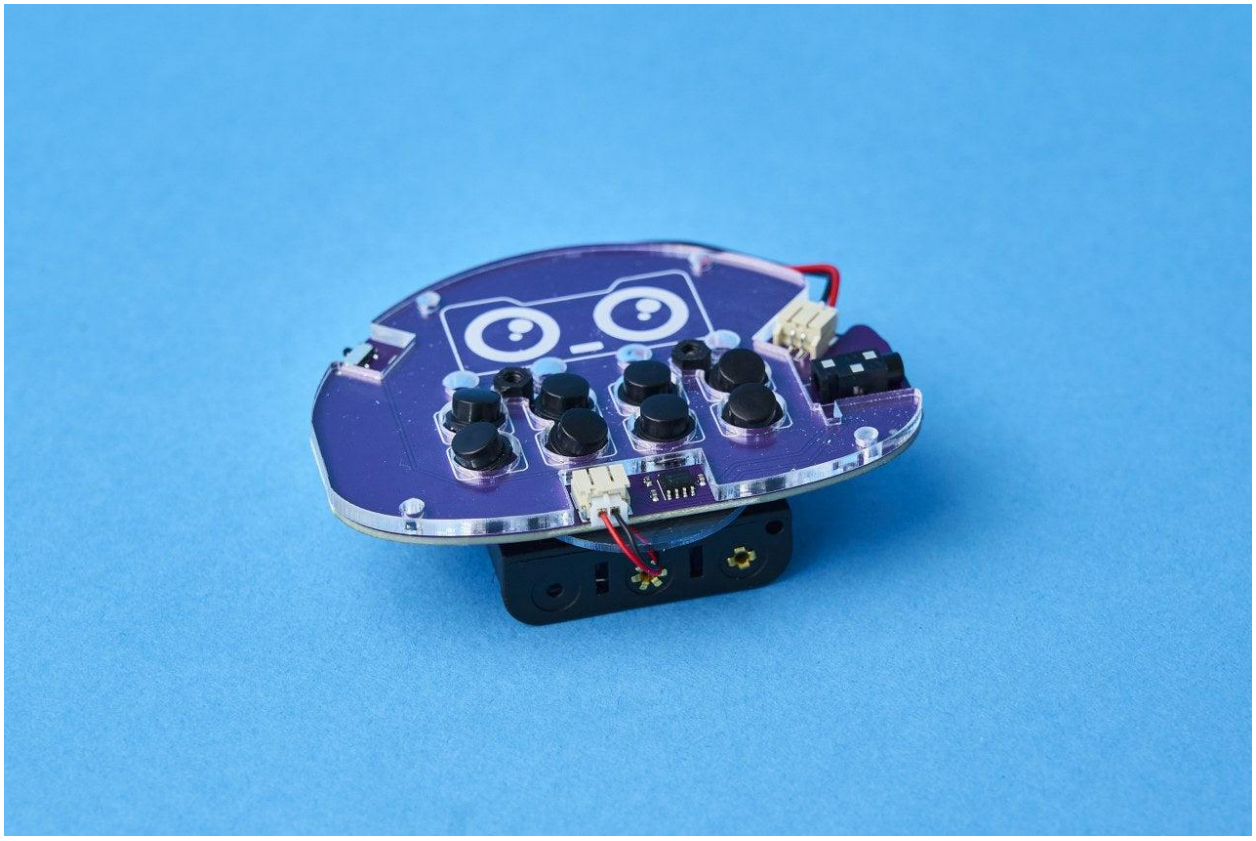


Put the casing on the PCB like this:



Now, take one pushbutton at a time, and place it into the holes in the casing:

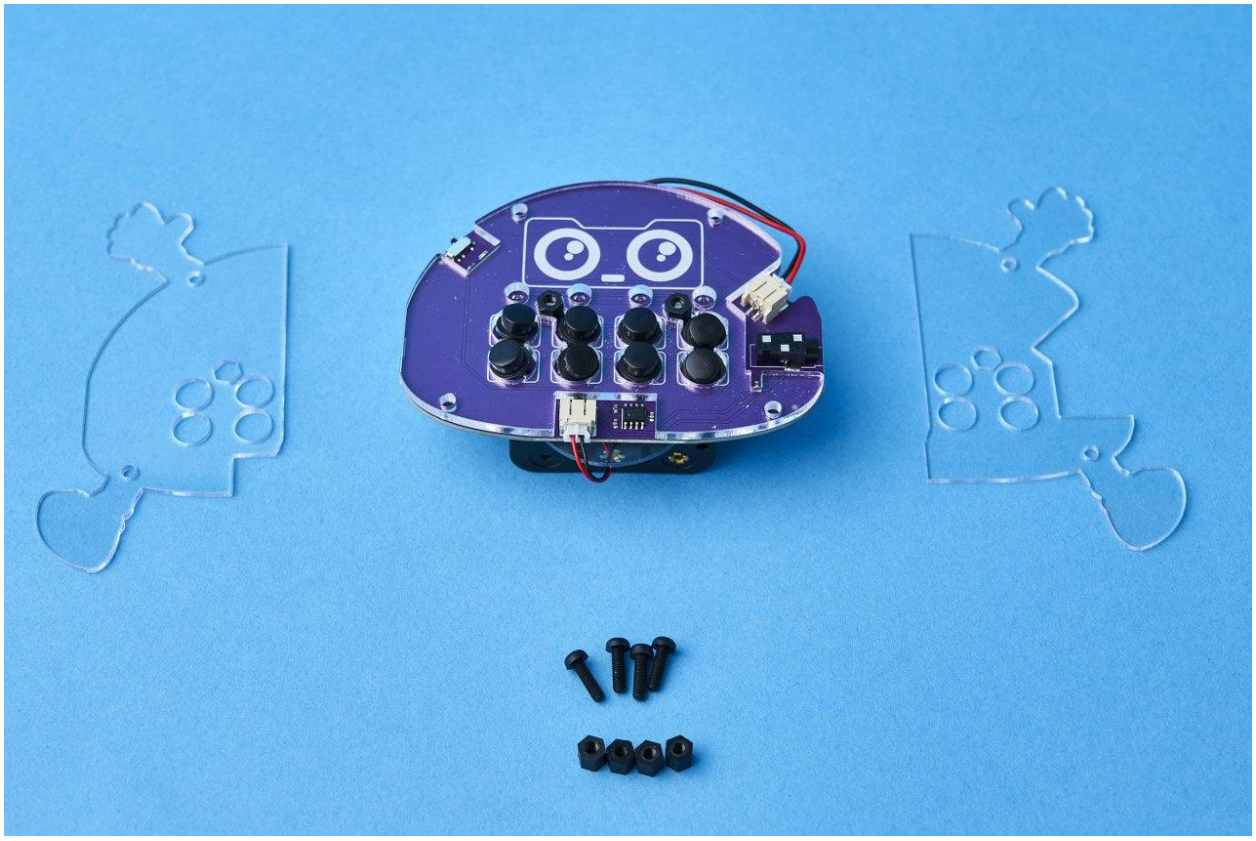




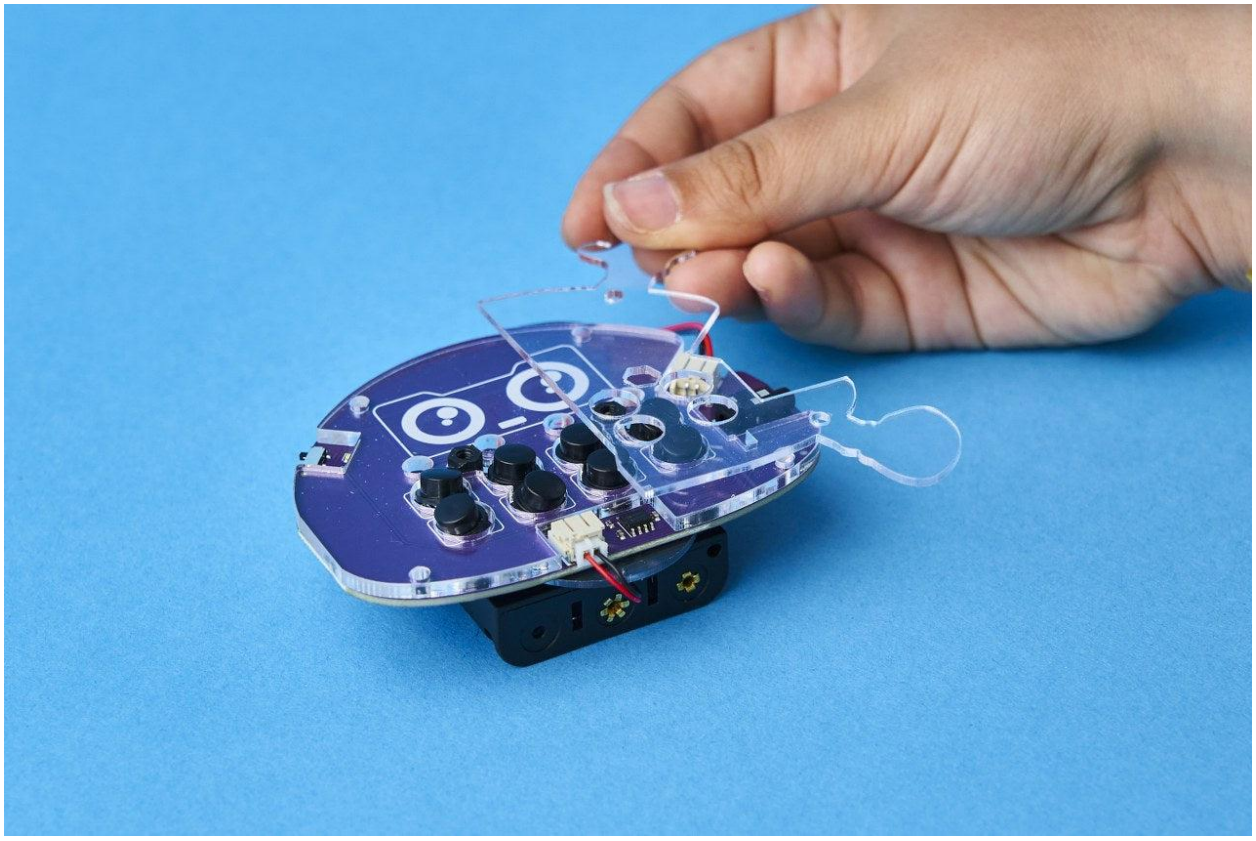
Don't worry if they look tilted right now; the upper casings will take care of that.

Part five - Case up

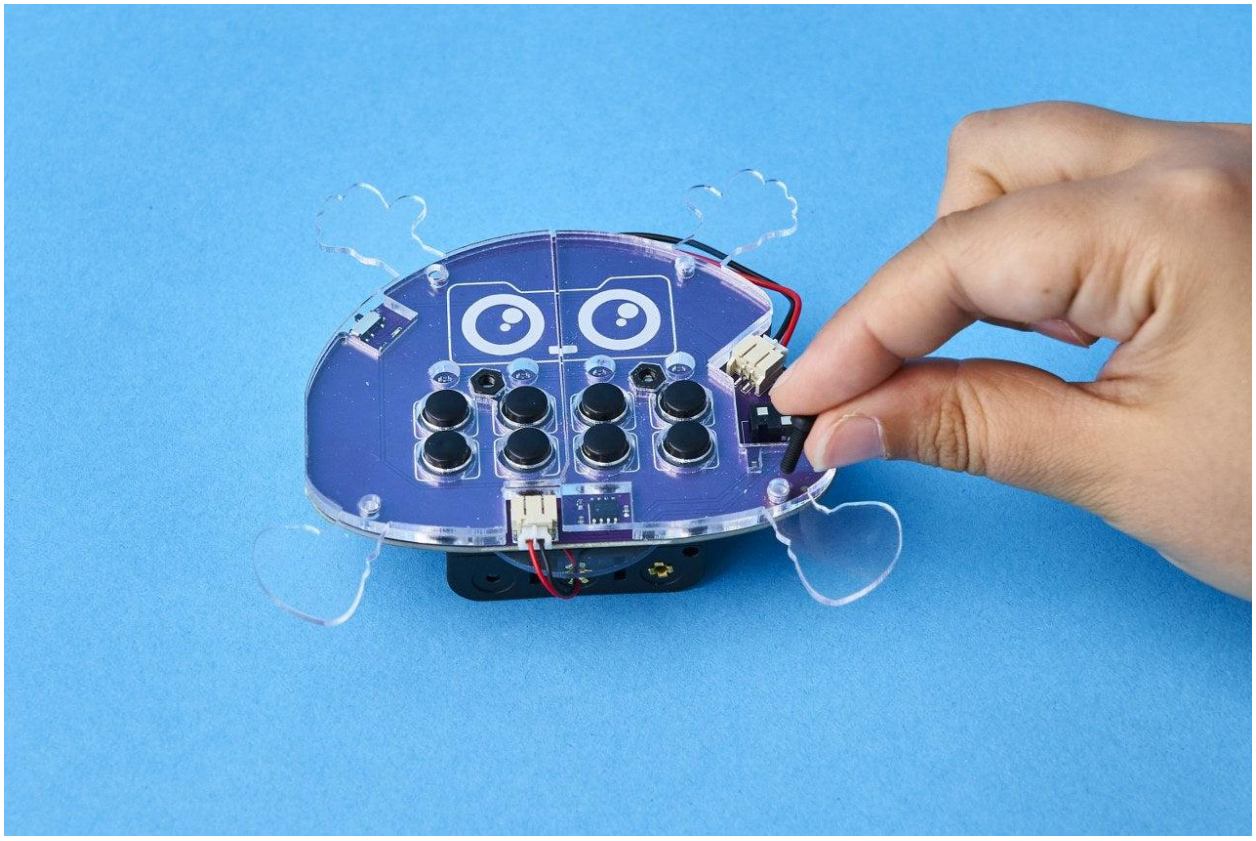
Take the rest of the casings, four black bolts, and four standoffs.



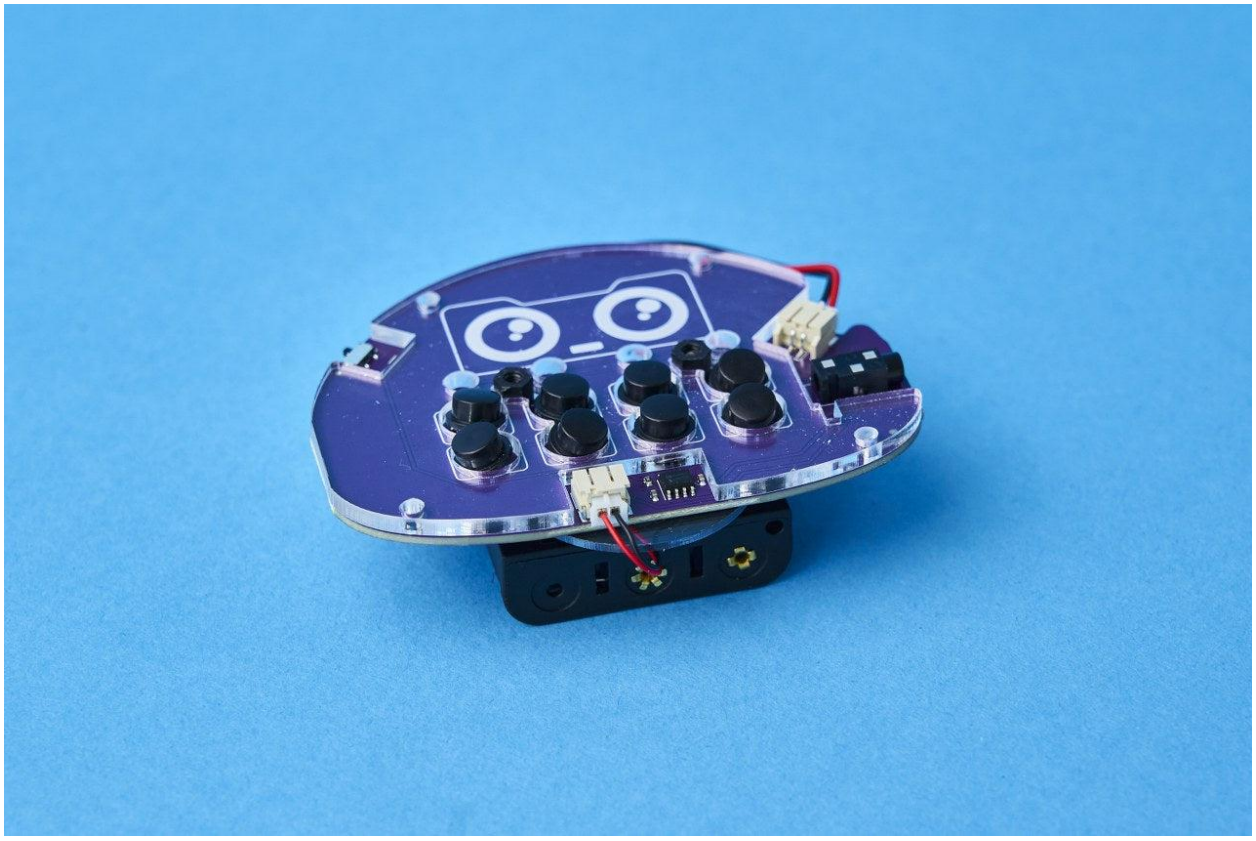
Put one of the casings like this:



Take the bolts and put them into the holes under the Buttons' arms and legs:

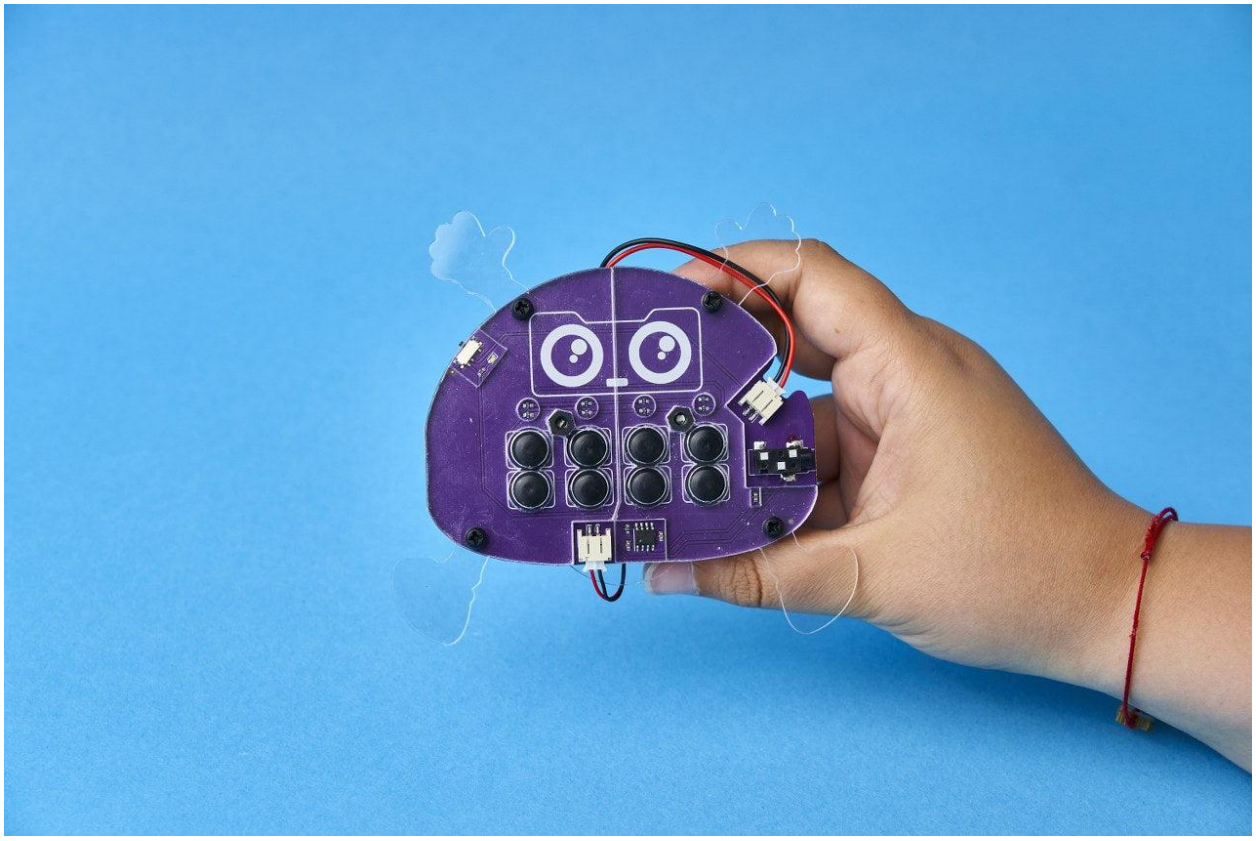


Take the standoffs, and flip Buttons around:



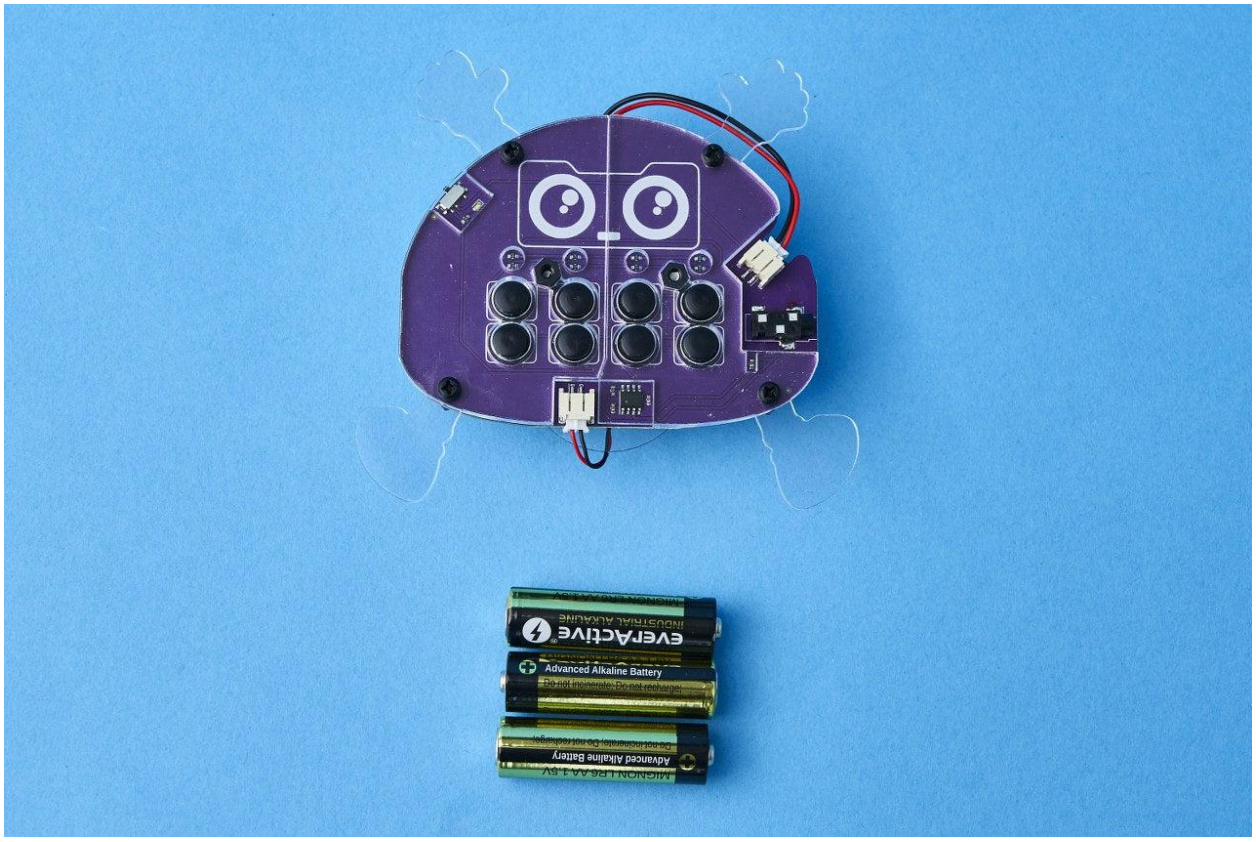
You can fasten it with your fingers.

This is what your Buttons should look like right now:



Part six - Batteries

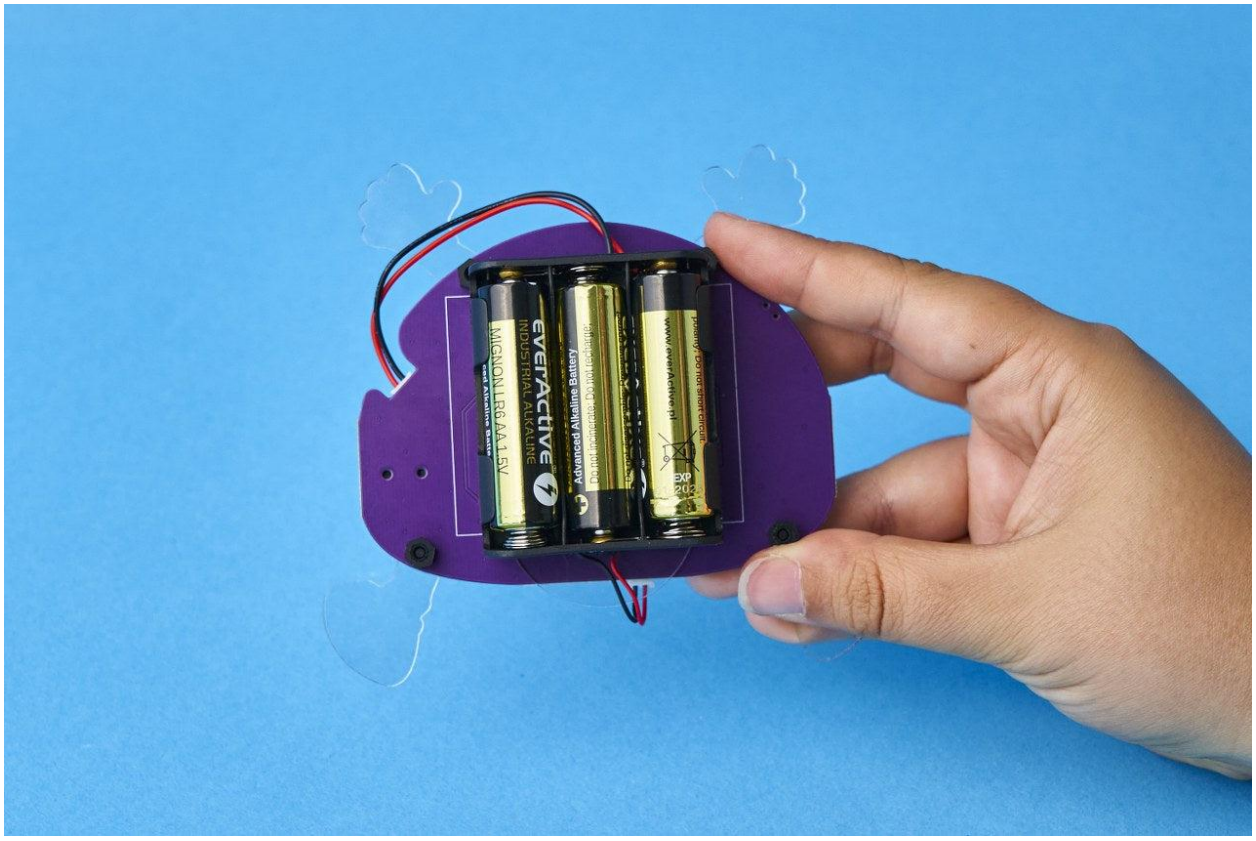
Take three AA batteries you got in the set and put them into the battery holder:



Make sure to check the polarities of the batteries!

The batteries are marked with two symbols - plus (+) and minus (-), which represent the polarity of the battery. The plus (+) part has a little metal bulge at the end of it, while the minus (-) part has a little dent. This is really important since when inserting the batteries, you'll have to be careful about which side goes where.

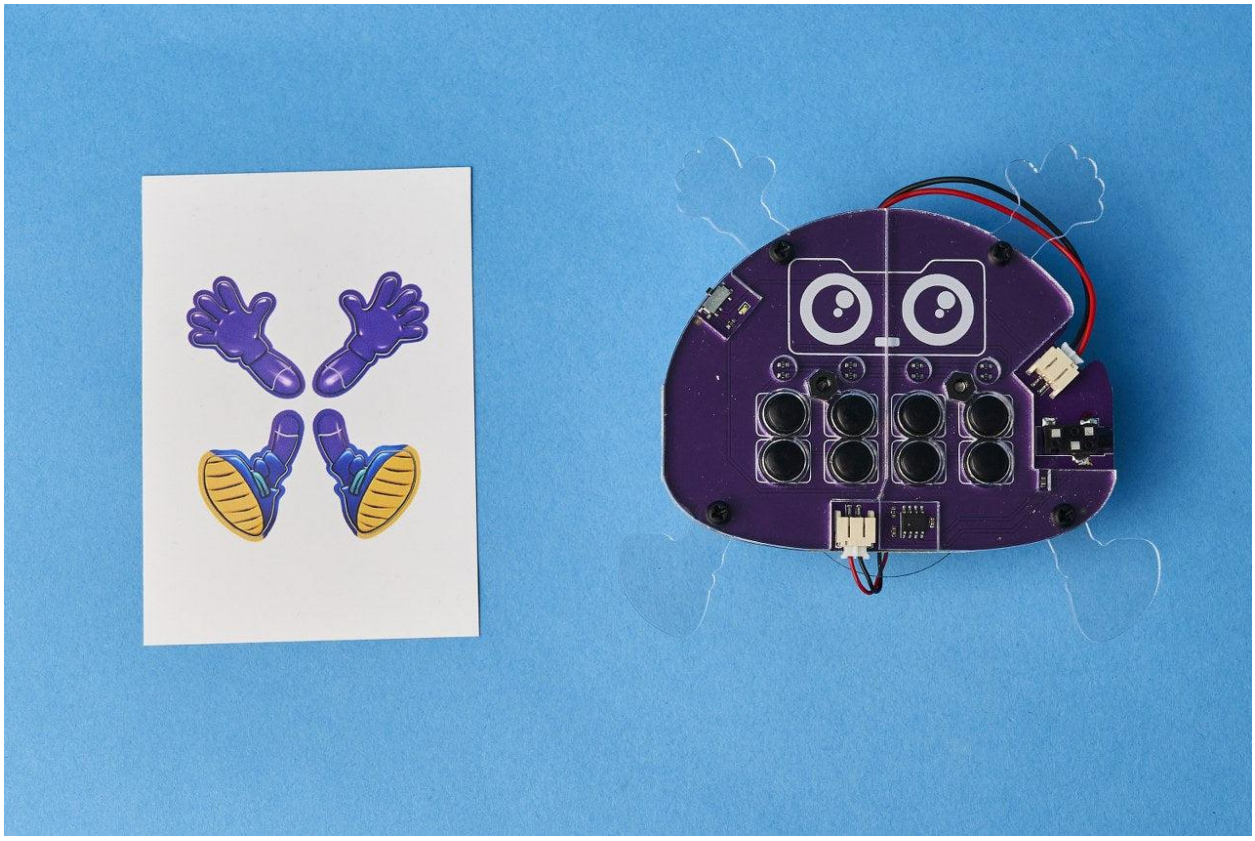
ENERGIZER ACTIVE
INDUSTRIAL ALKALINE

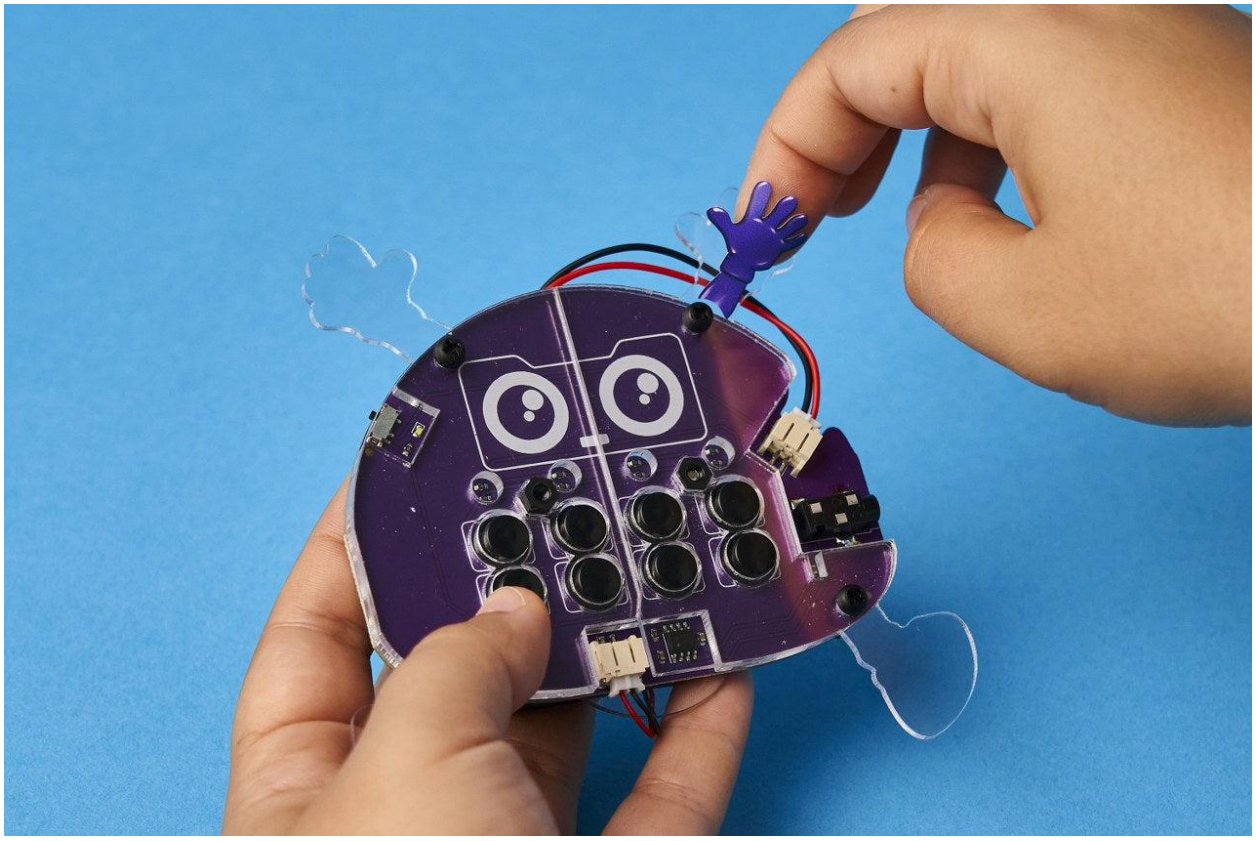


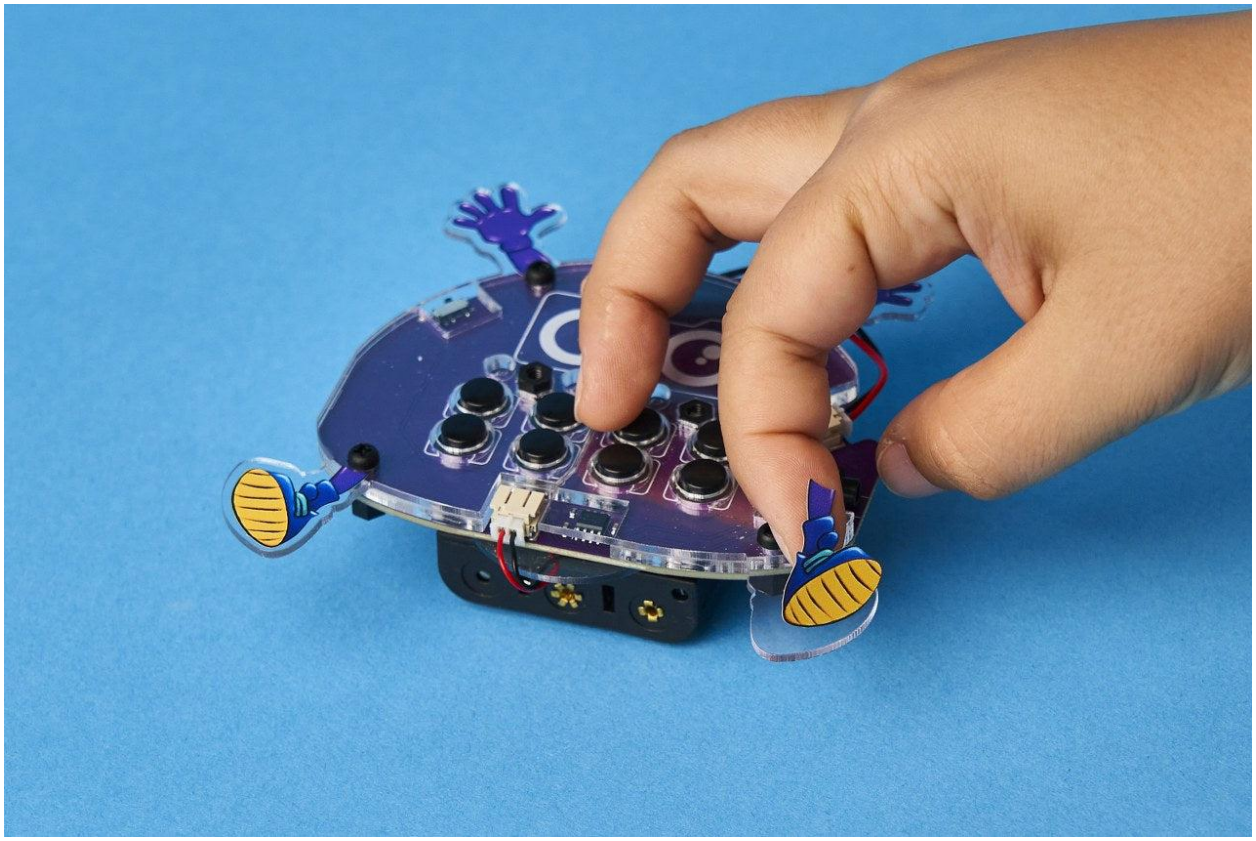
Part seven - Stickers

Now is the most fun part!

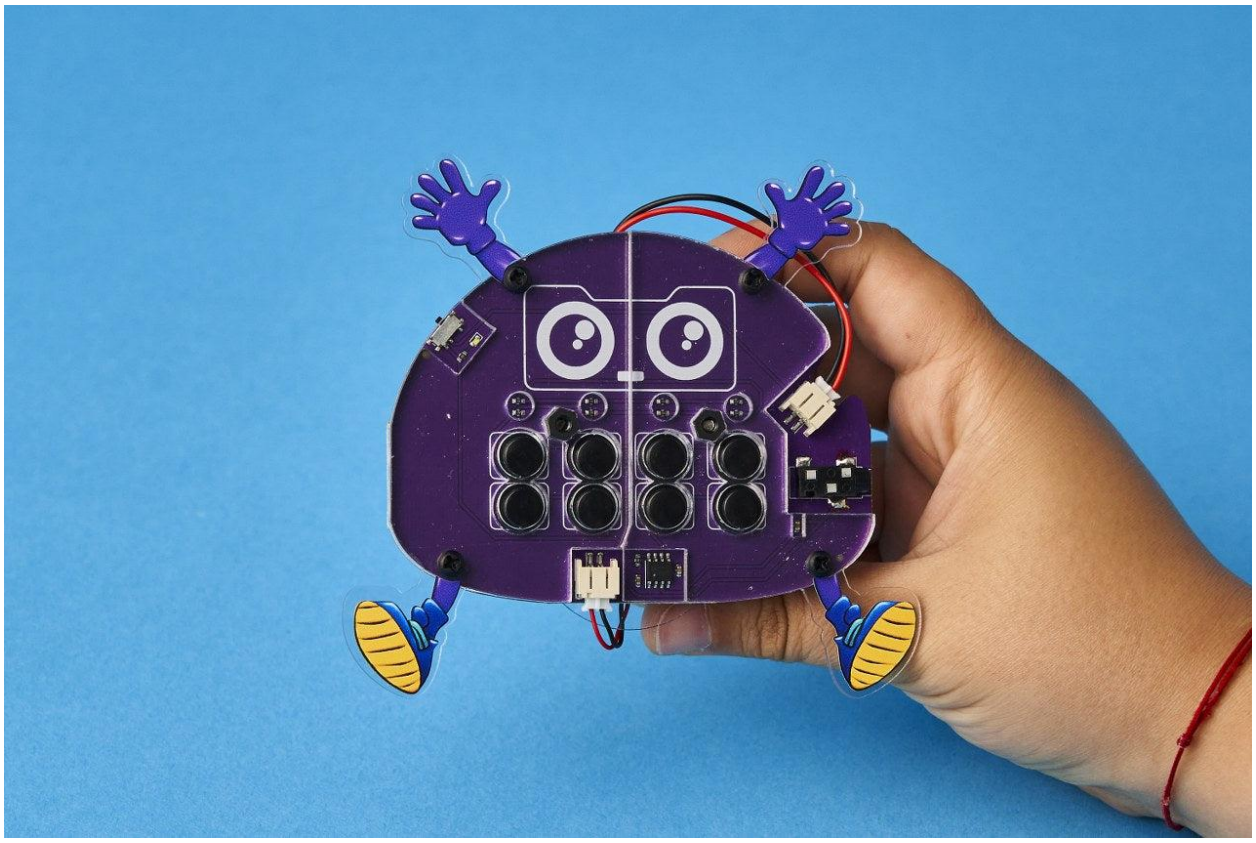
Take the stickers and give your Buttons, boots and gloves.







Your Buttons looks amazing, doesn't it?

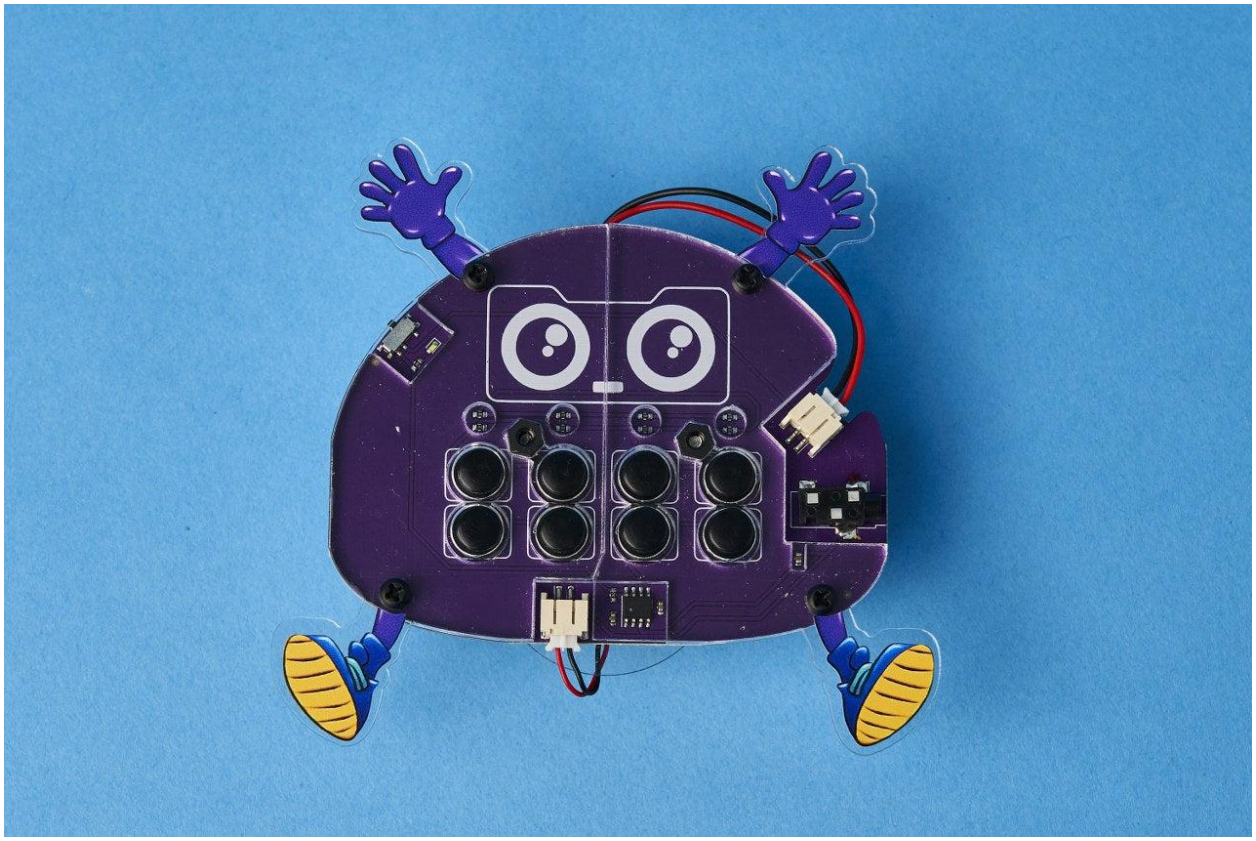


Congrats!

You successfully built your Wacky Robot.

PLAY THE MUSIC AND HAVE FUN!

Now that you've finished building your Buttons, switch it on and start playing music.

Each button gives you a different and unique sound.

You can even connect your headphones to the headphone jack and transfer the sound directly to your ear.