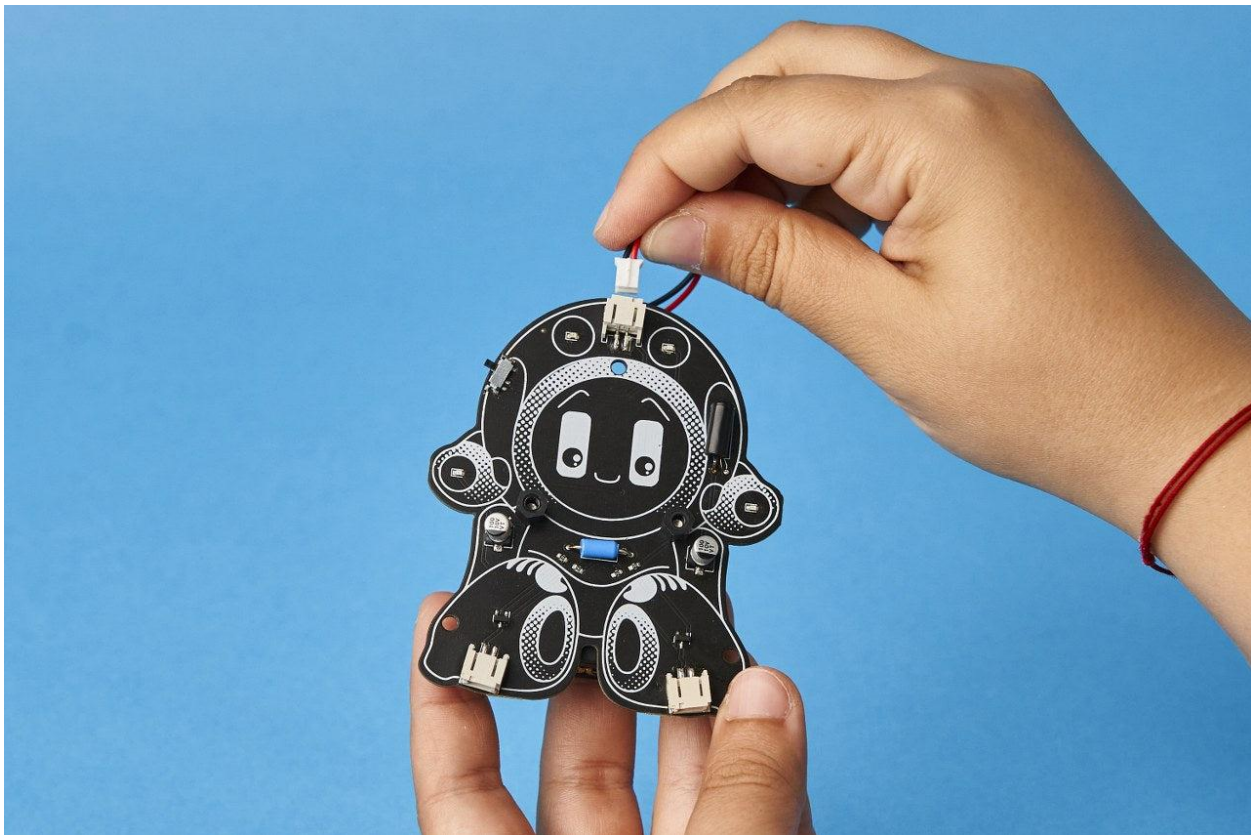


# Introduction

## Welcome to CircuitMess Robby, the Wacky Robot build guide!

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



Robby is a beginner-friendly **8-piece kit**.

With Robby, you'll learn about different electronic components and how tilt sensors work.

After you finish building Robby, you'll shake him up and light up the room!

### **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 Robby.

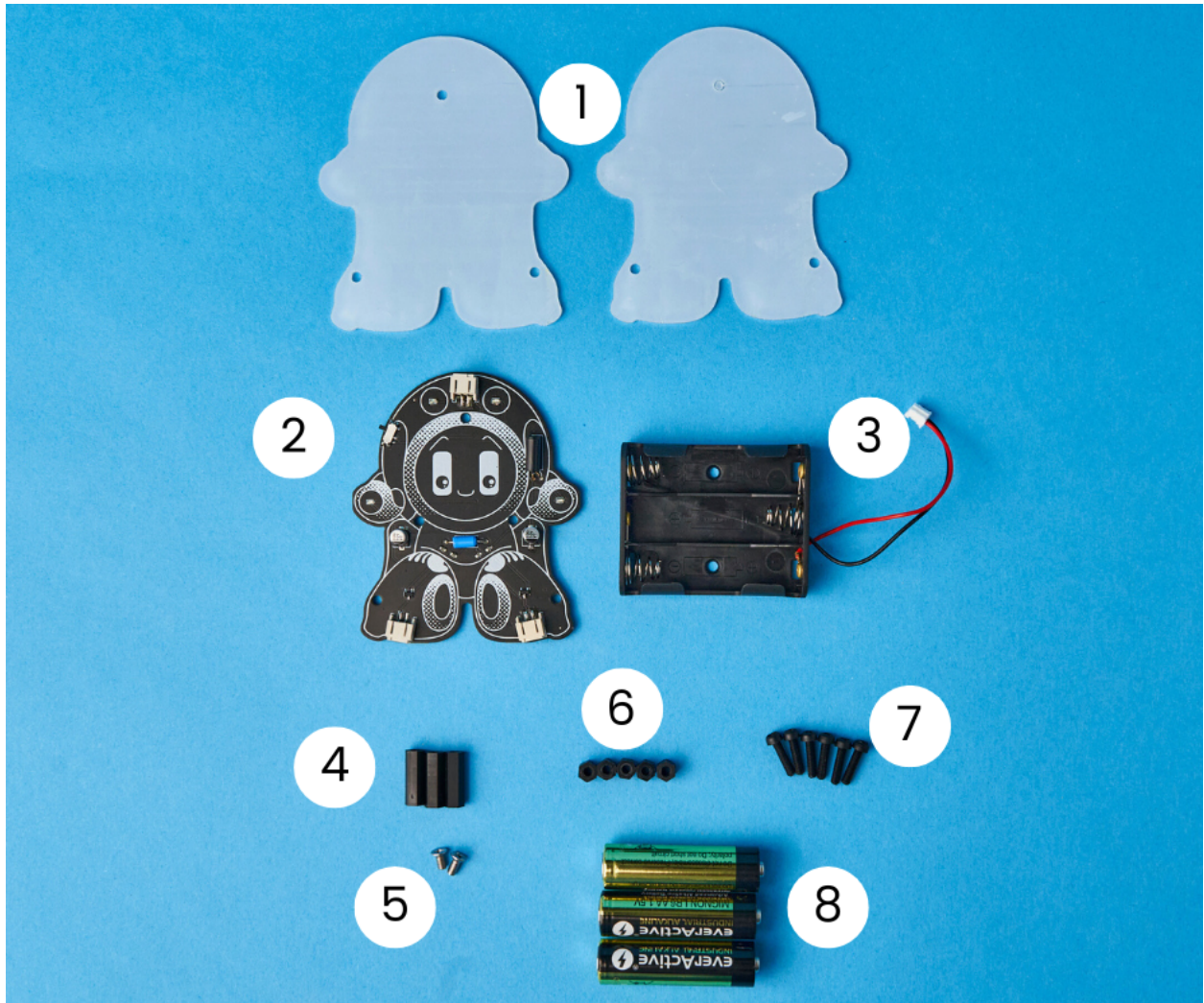
### **Skills**

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](mailto: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. Acrylic casings
2. PCB
3. Battery holder
4. Long spacers (3)
5. Metal screws (2)
6. Small spacers (5)



- 7. Long black bolts (6)
- 8. AA batteries (3)

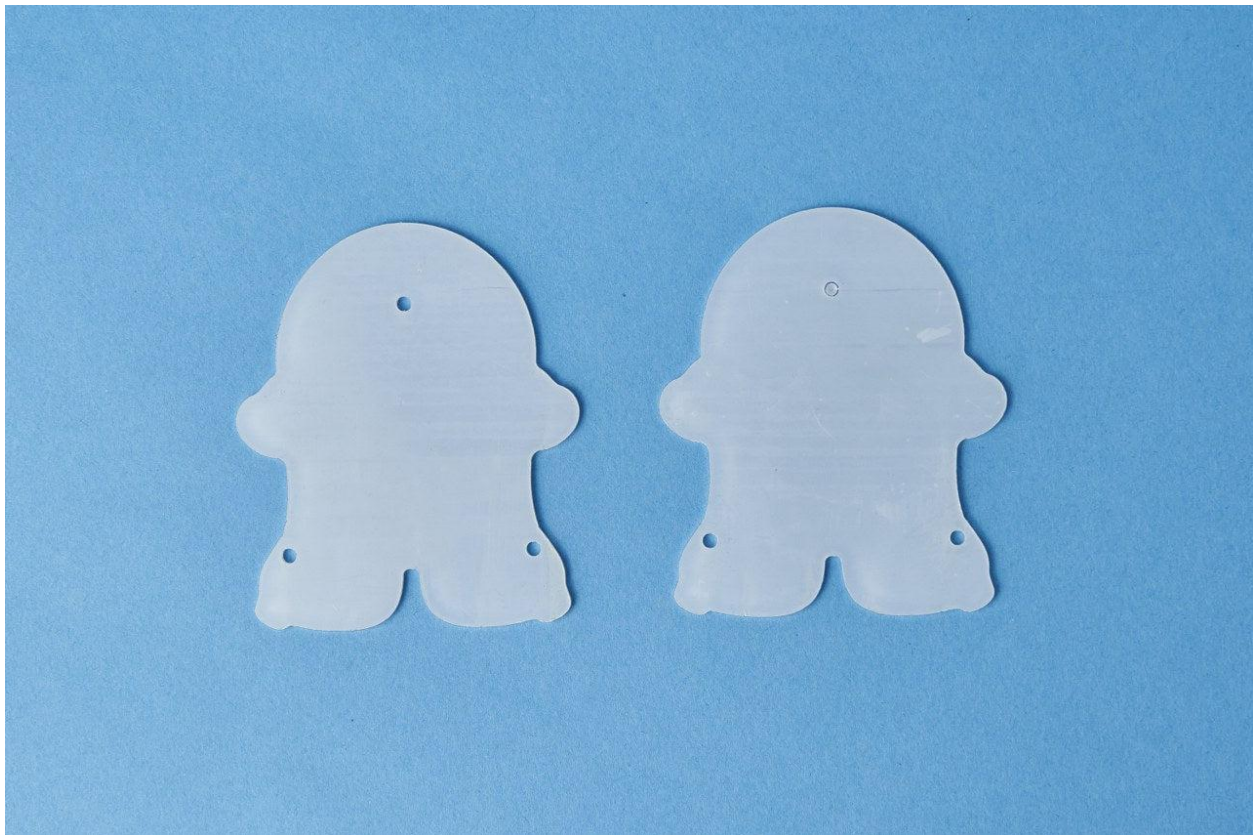
## **Robby, meet your maker**

Let's build your Robby!

### **Part one - Acrylic casings**

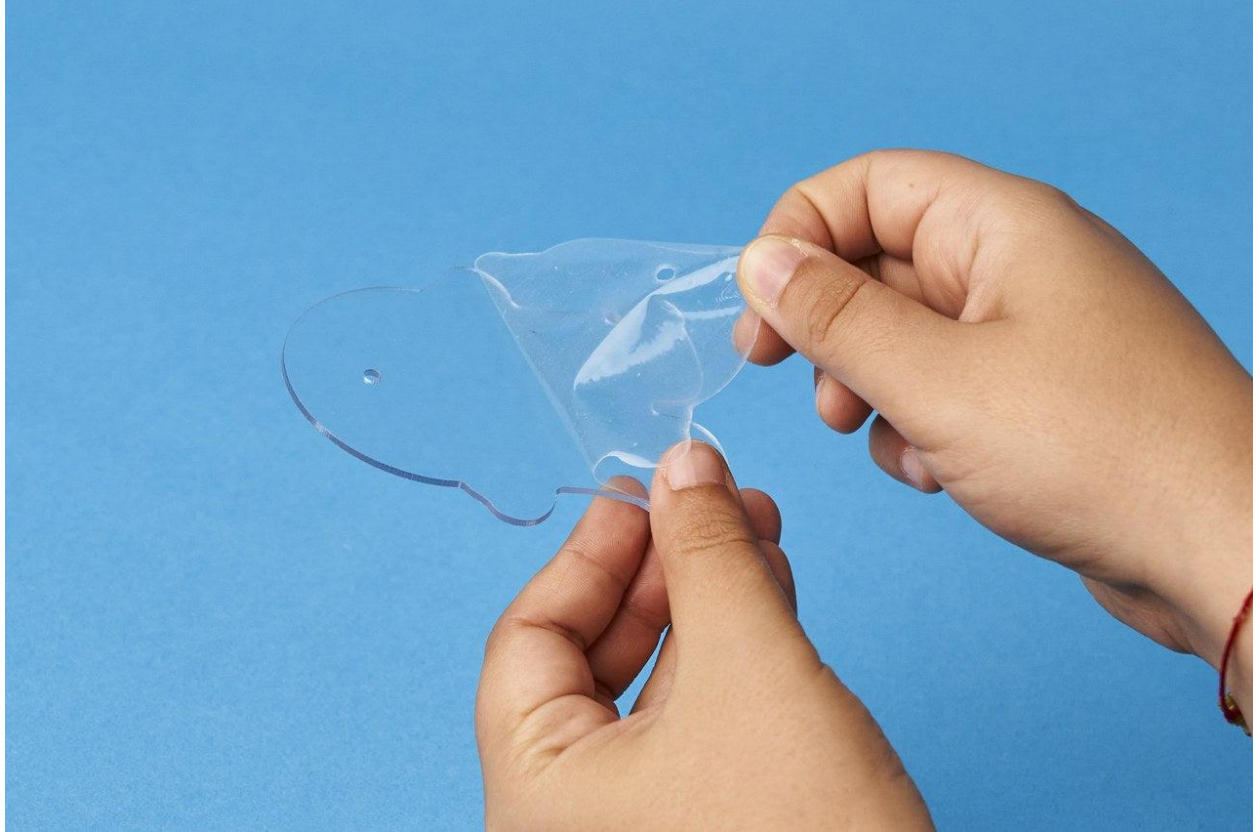
Begin by removing the protective foil from the casings.

This is what your casings should look like at the beginning:



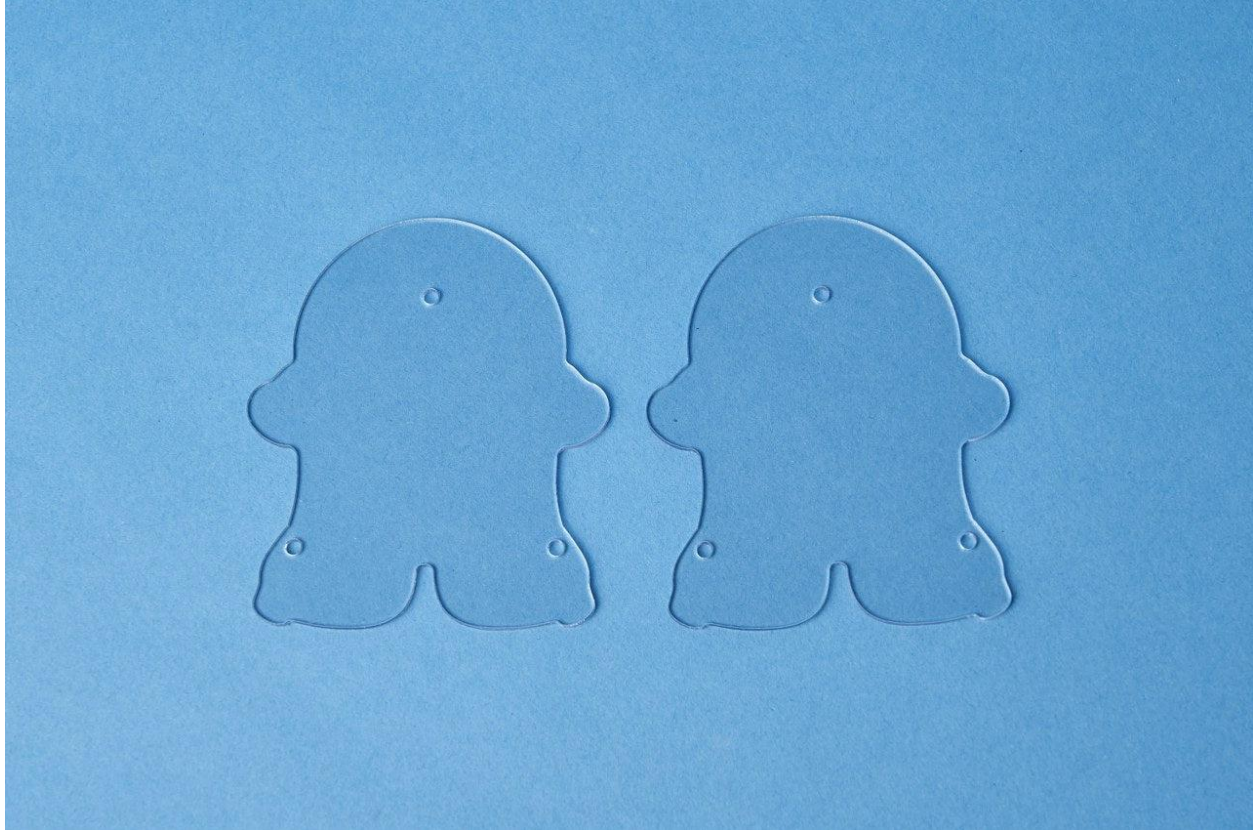
Peel both sides of the casings:





Until your casings look transparent like this:

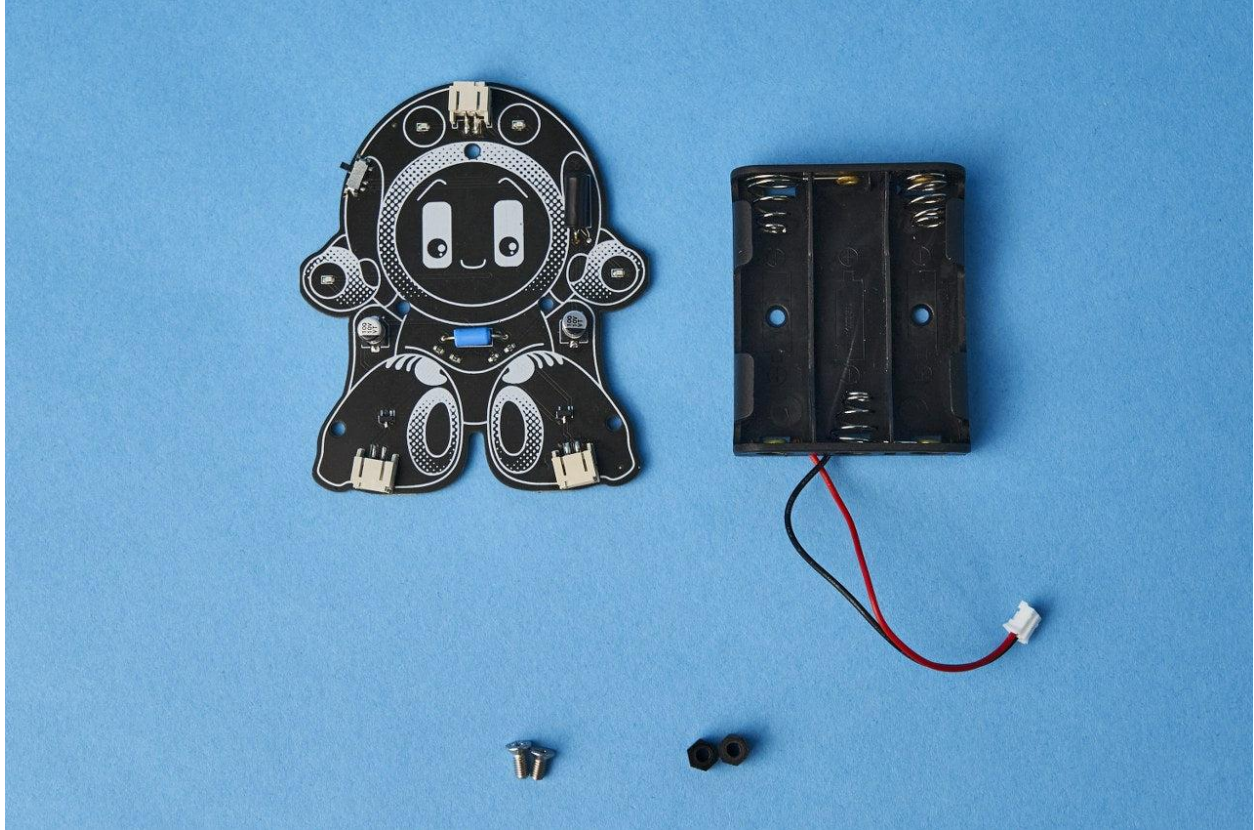




## Part two - Battery holder

It's time to take a battery holder and attach it to the PCB.

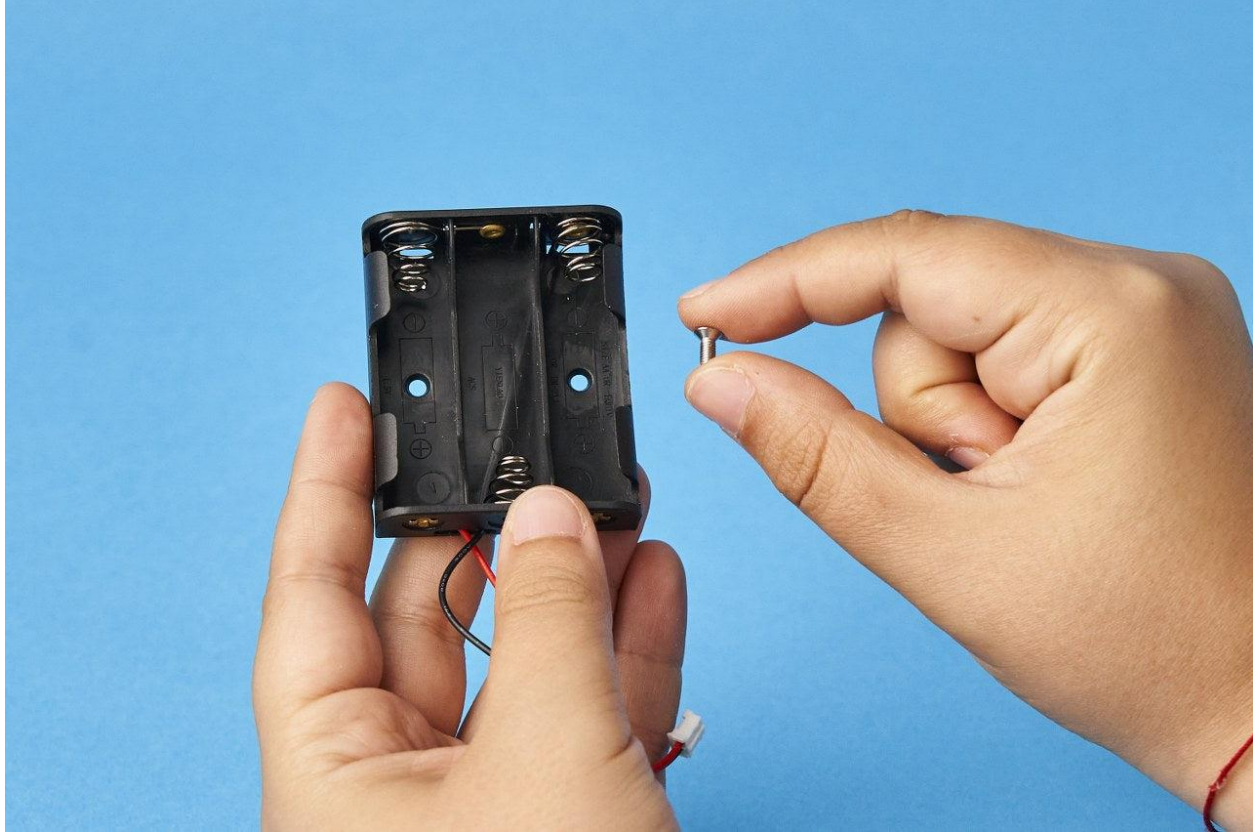
You'll need these parts for that:



So, PCB, two small spacers, two metal screws, and the battery holder.

Take the battery holder and the metal screws.

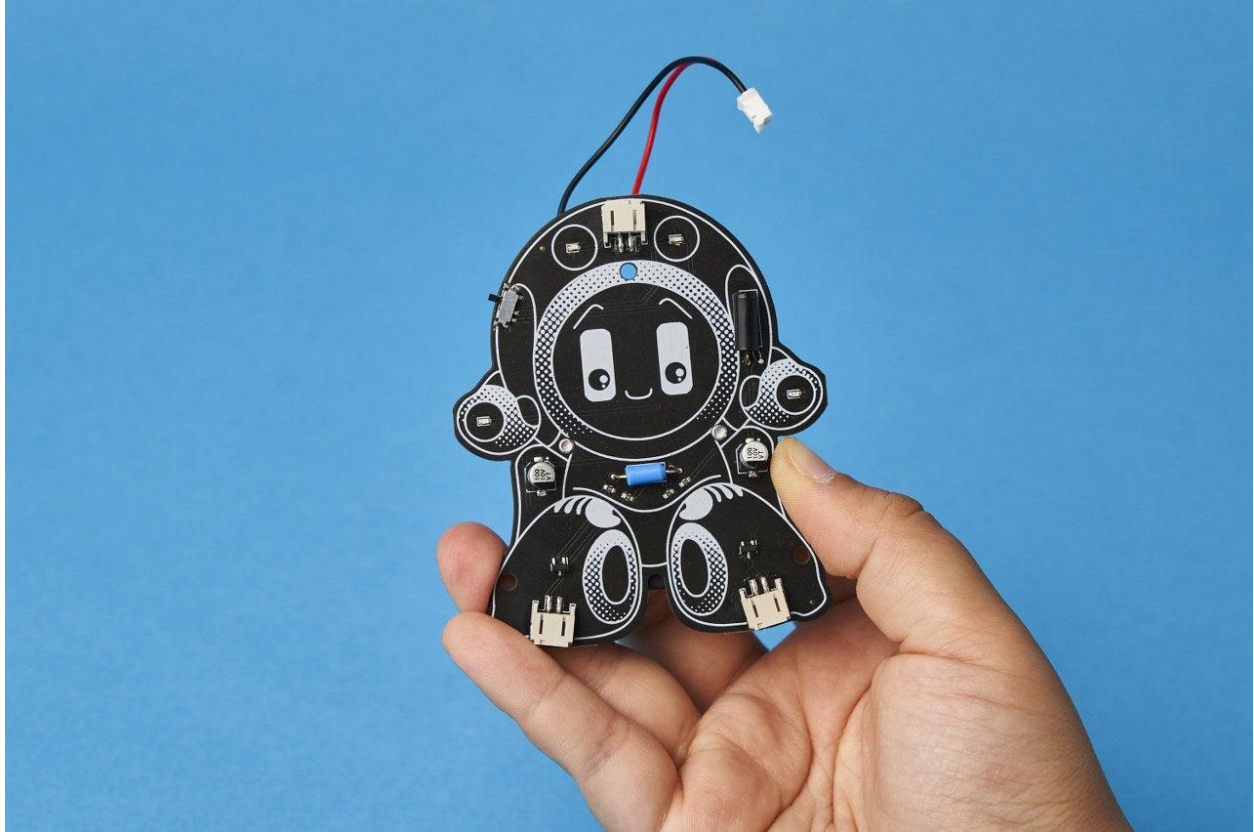




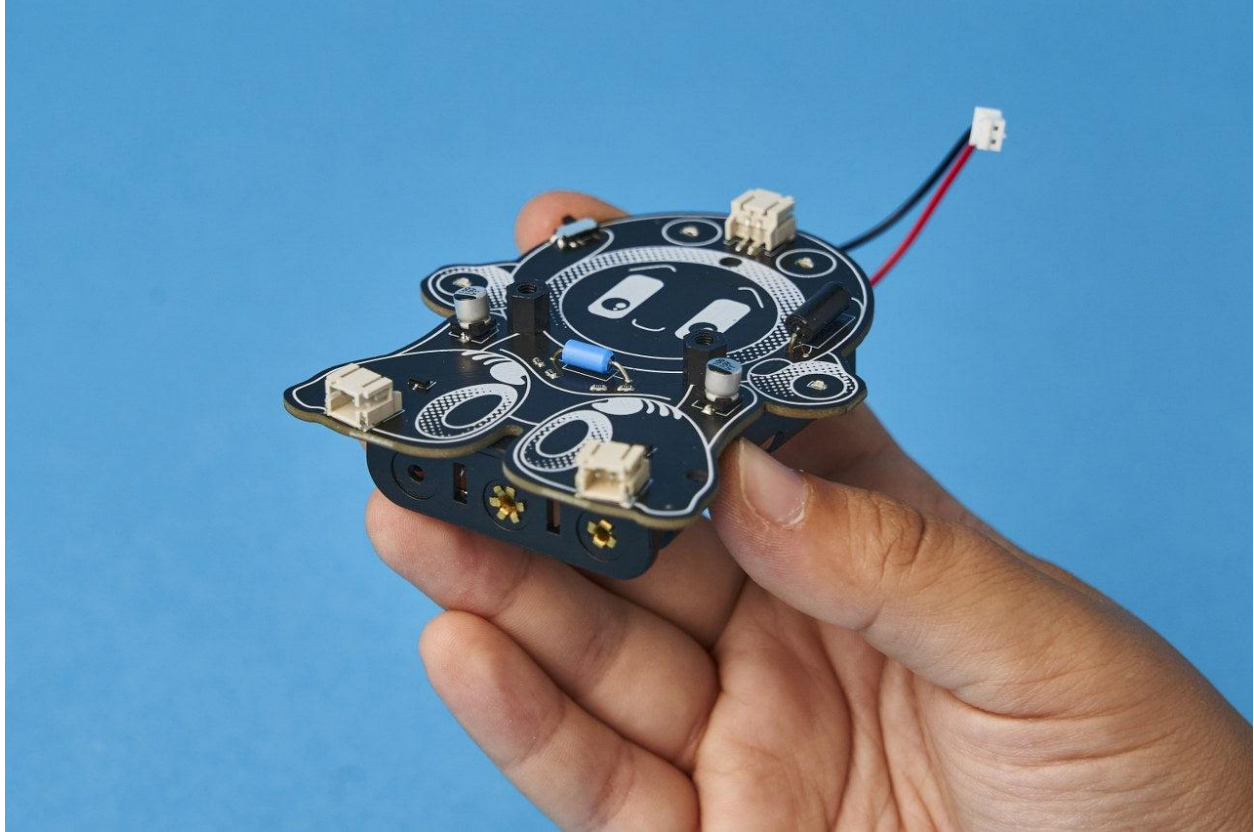
Attach the battery holder to the PCB like this:



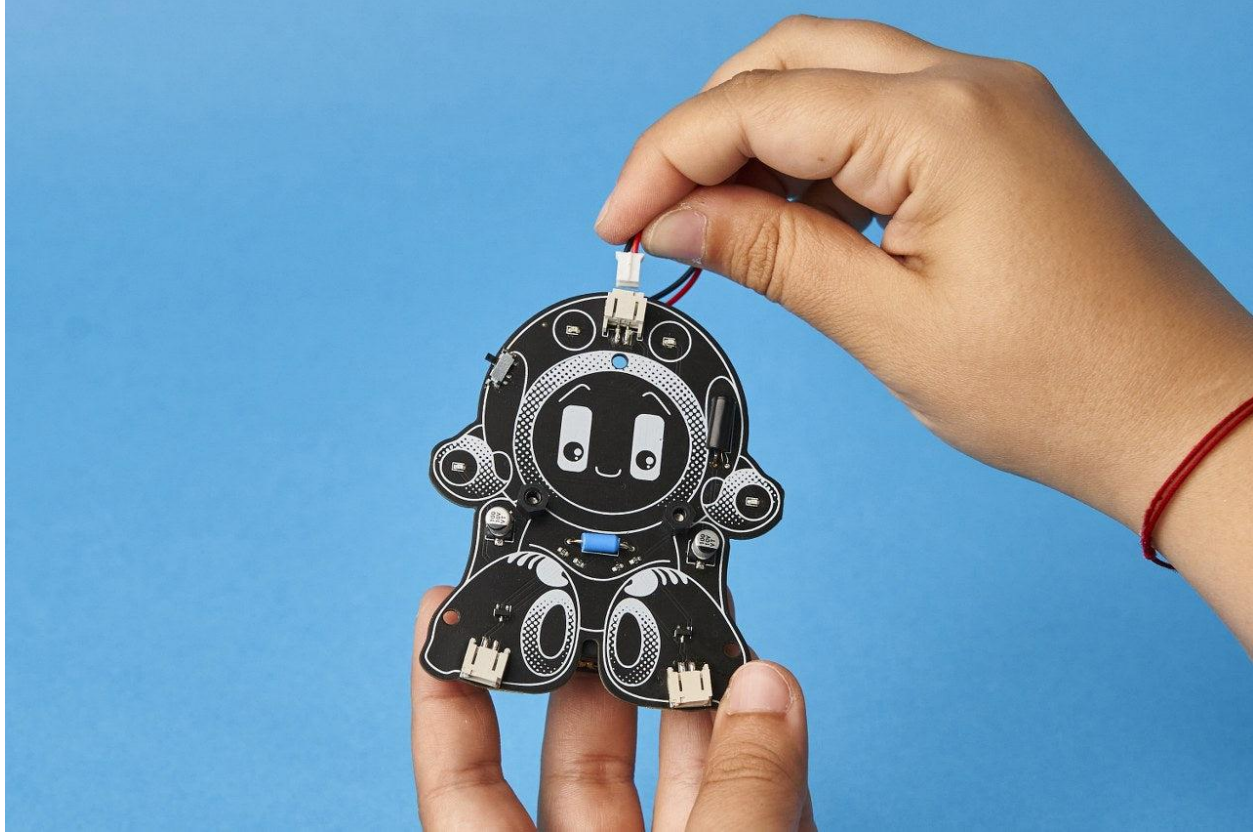
Also, place the spacers in front to keep the battery holder from falling off.



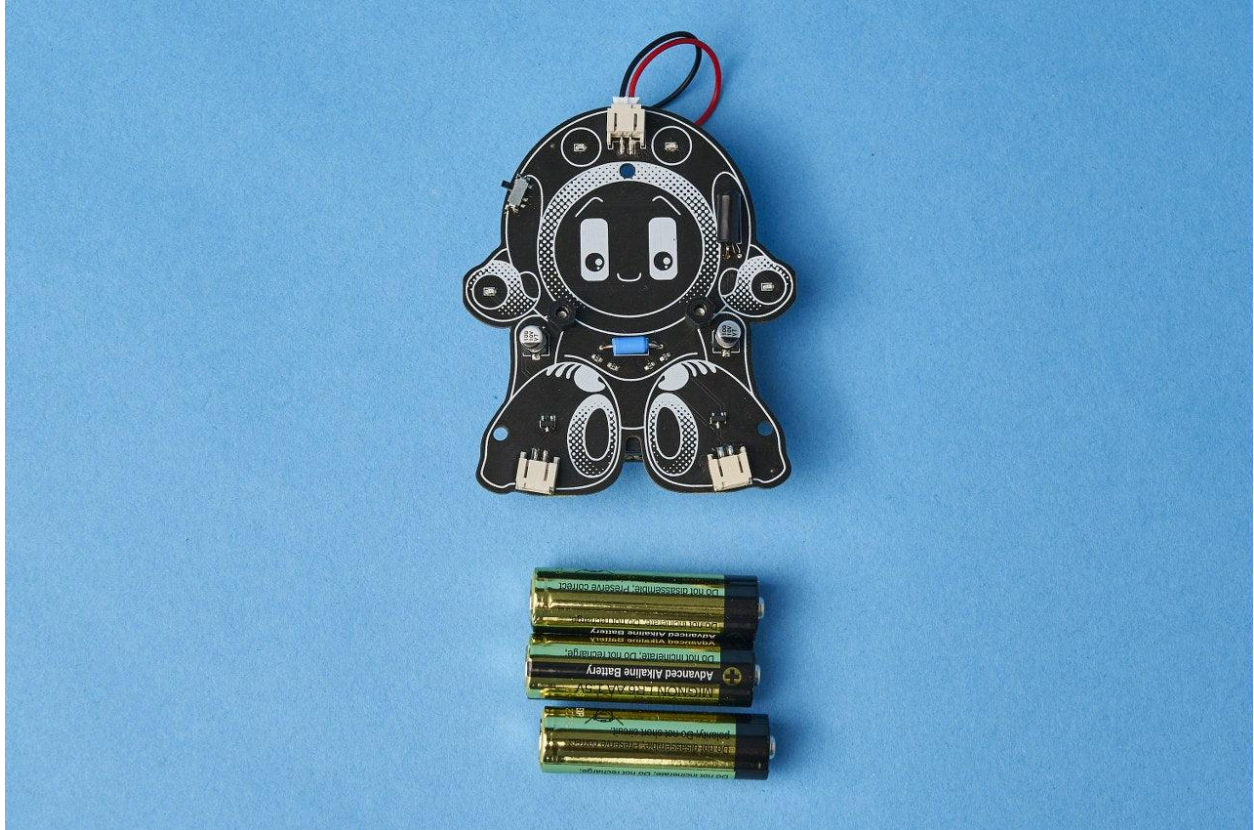




Connect the battery holder to the connector on top of Robby's head like this:



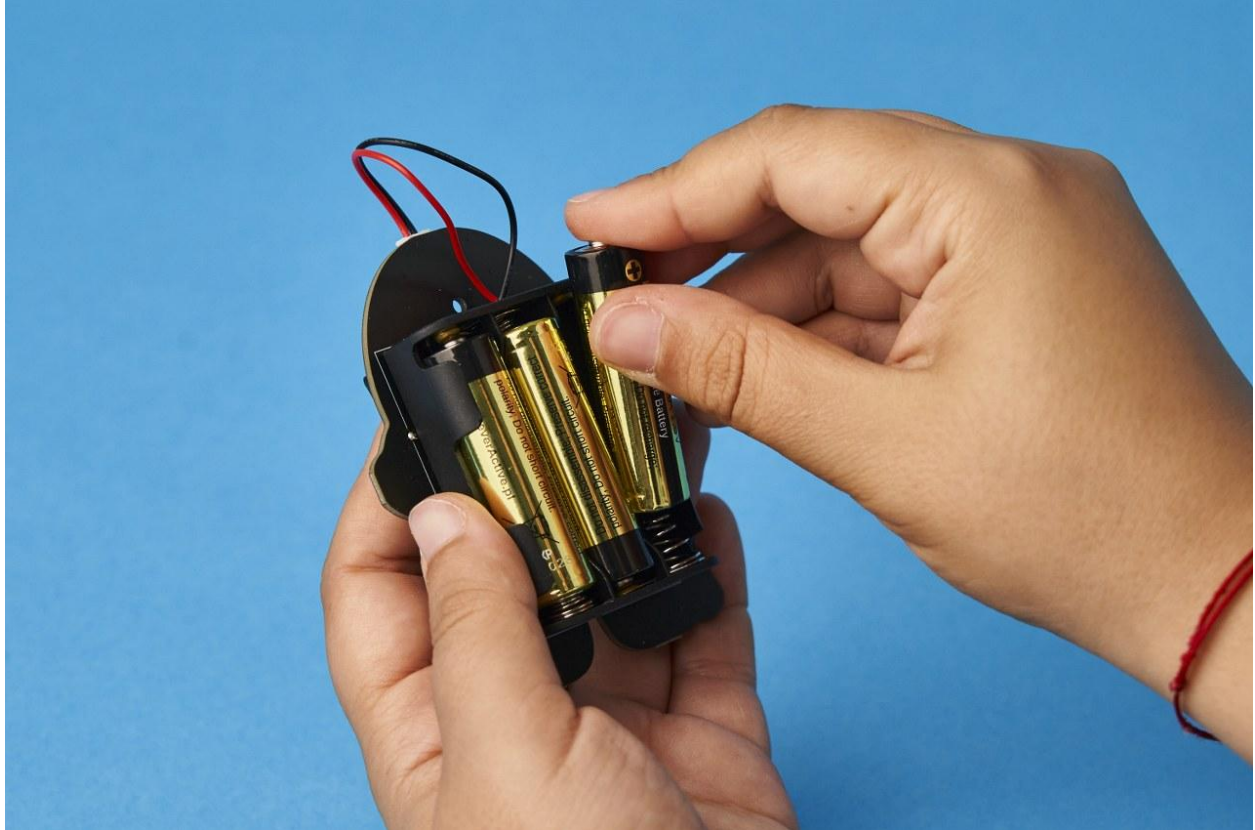
Take the batteries and put them in:



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.



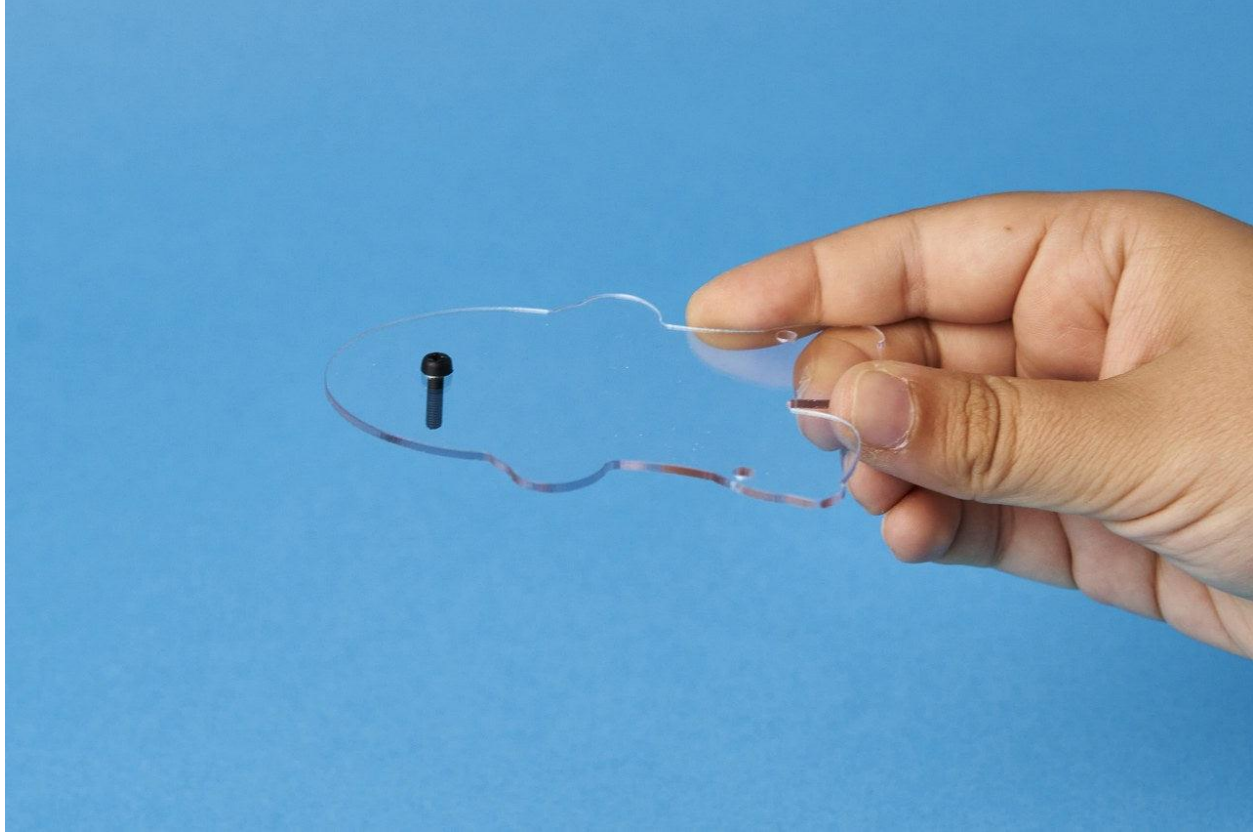


## Part three - Case up

Take one of the casings, three longer bolts, and three small spacers.

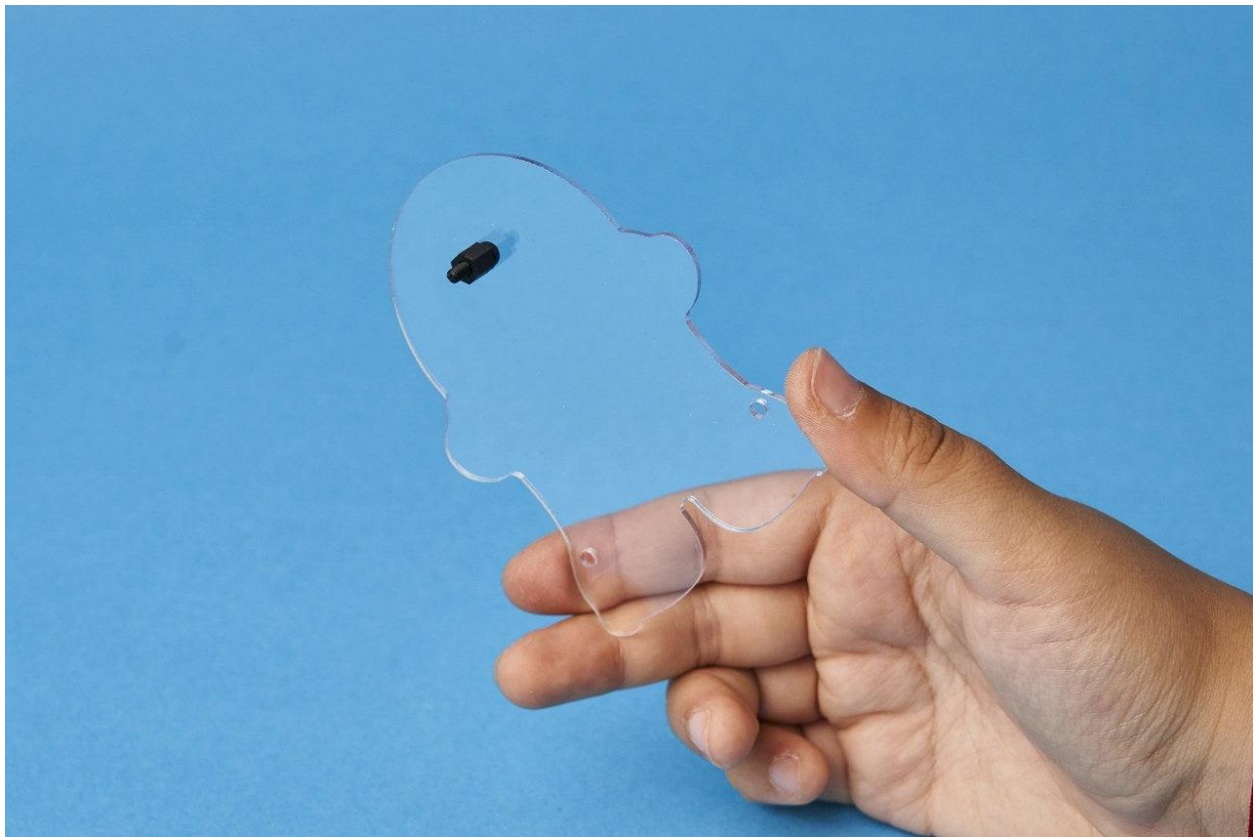
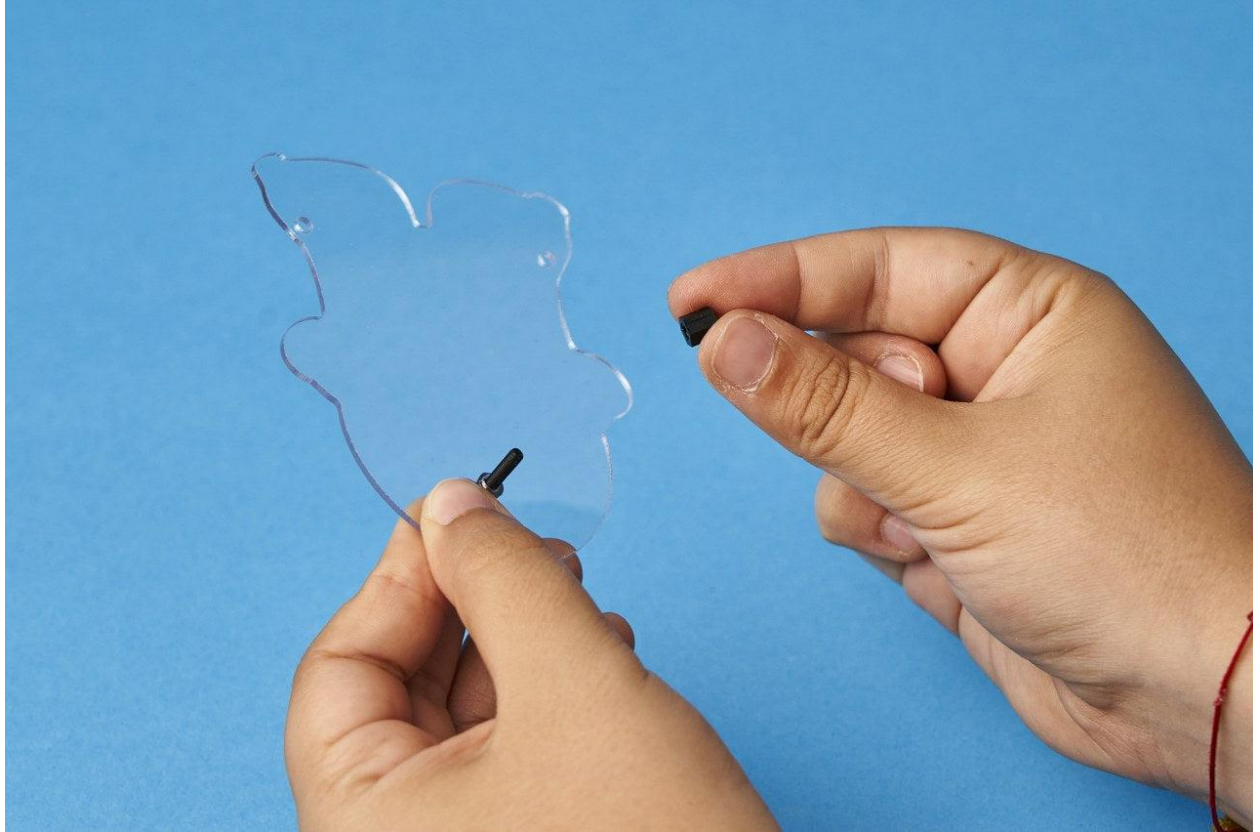


Put the bolt through the casing like this:

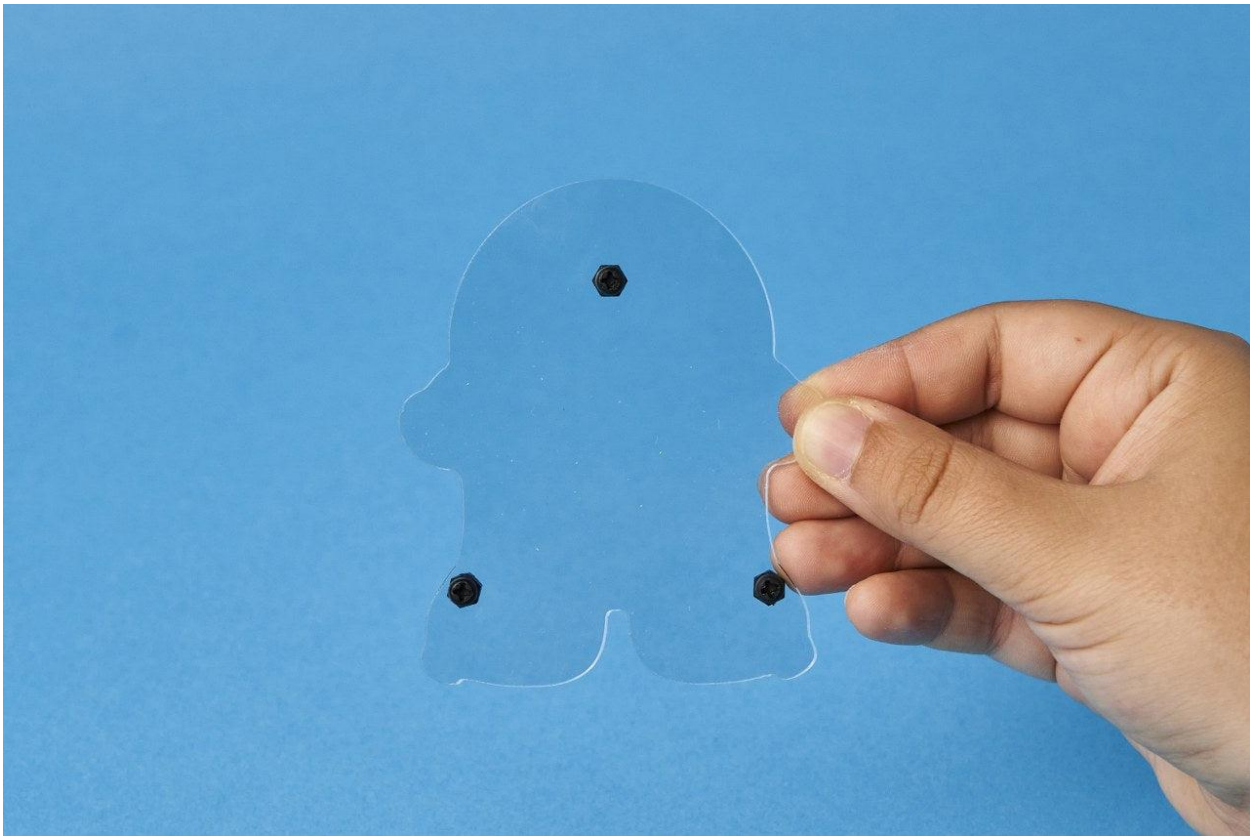


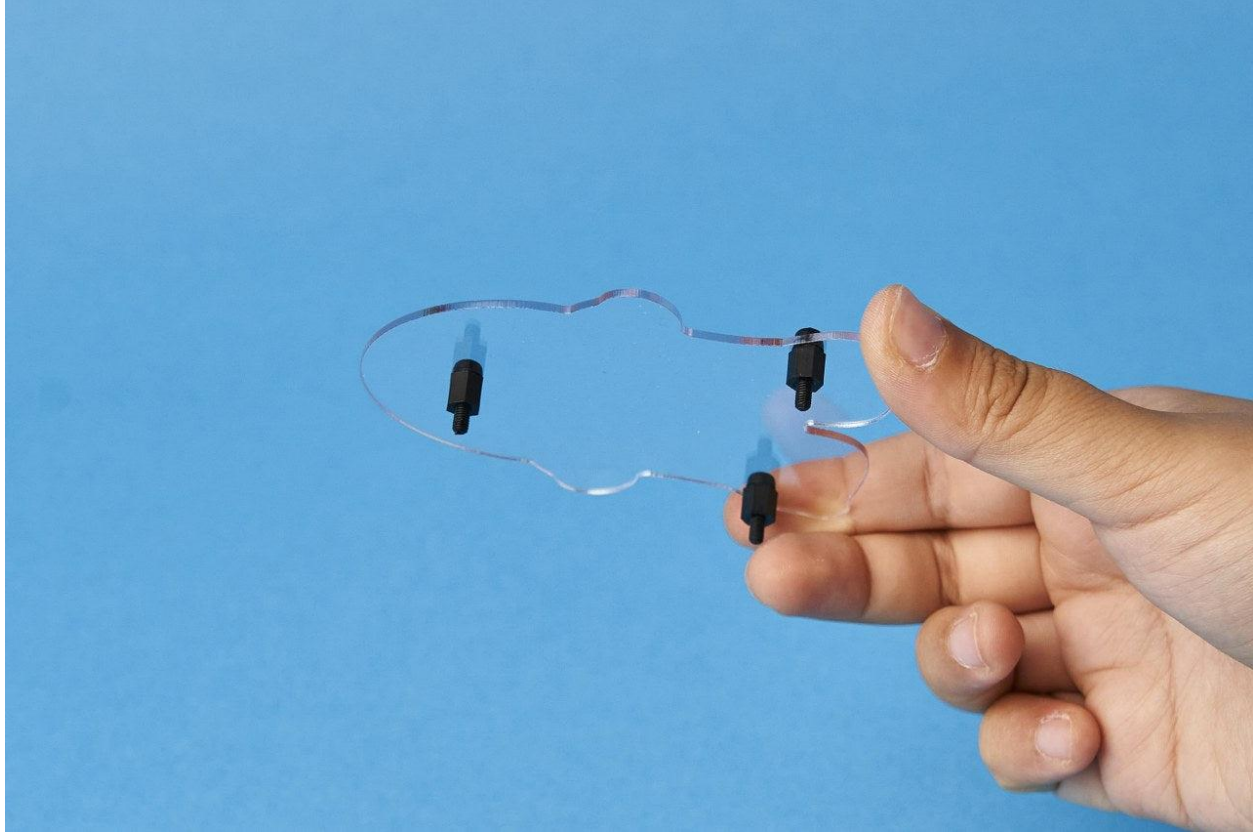
Take the spacer, and fasten the bolt with your fingers.





This is what one of your casings should look like:

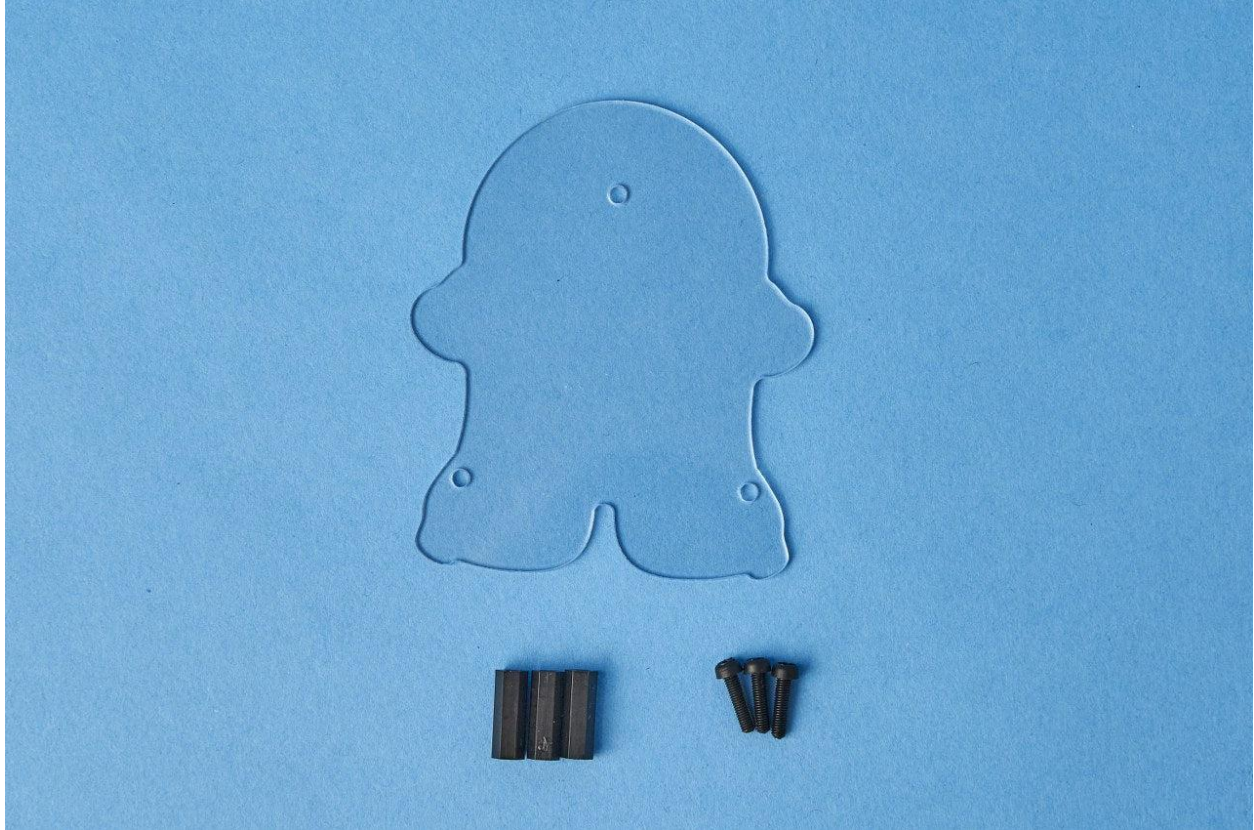




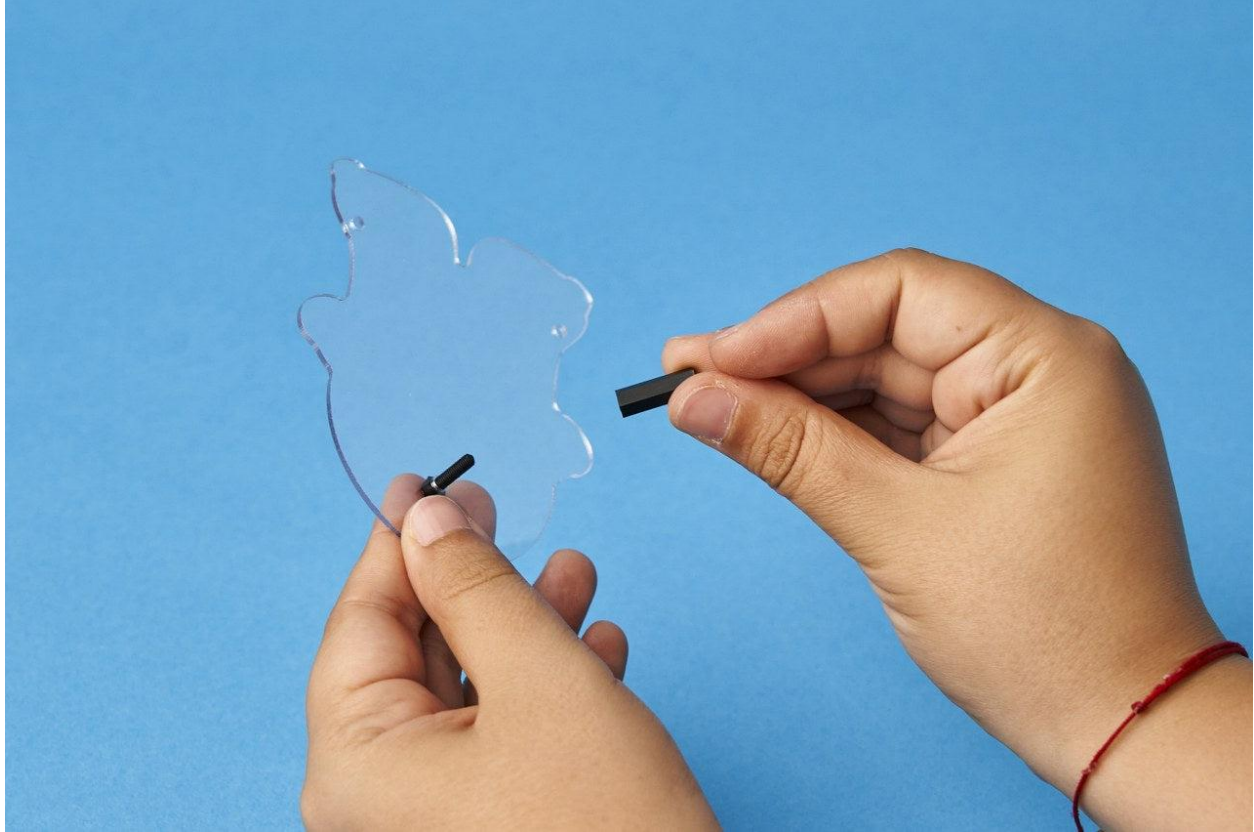
We'll repeat the process for the second casing, but with the long spacers.

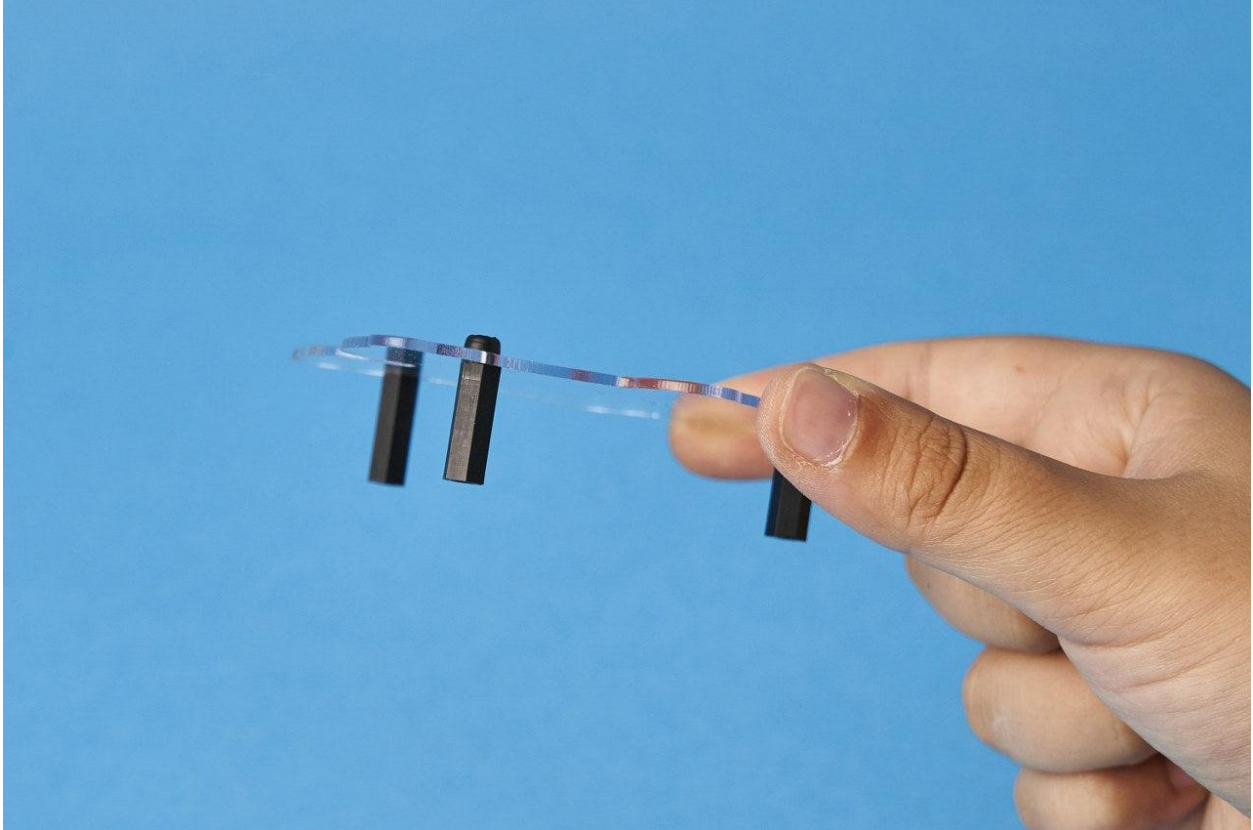
These are the parts you'll need:





Put the bolt through the casing and fasten it with the spacer:



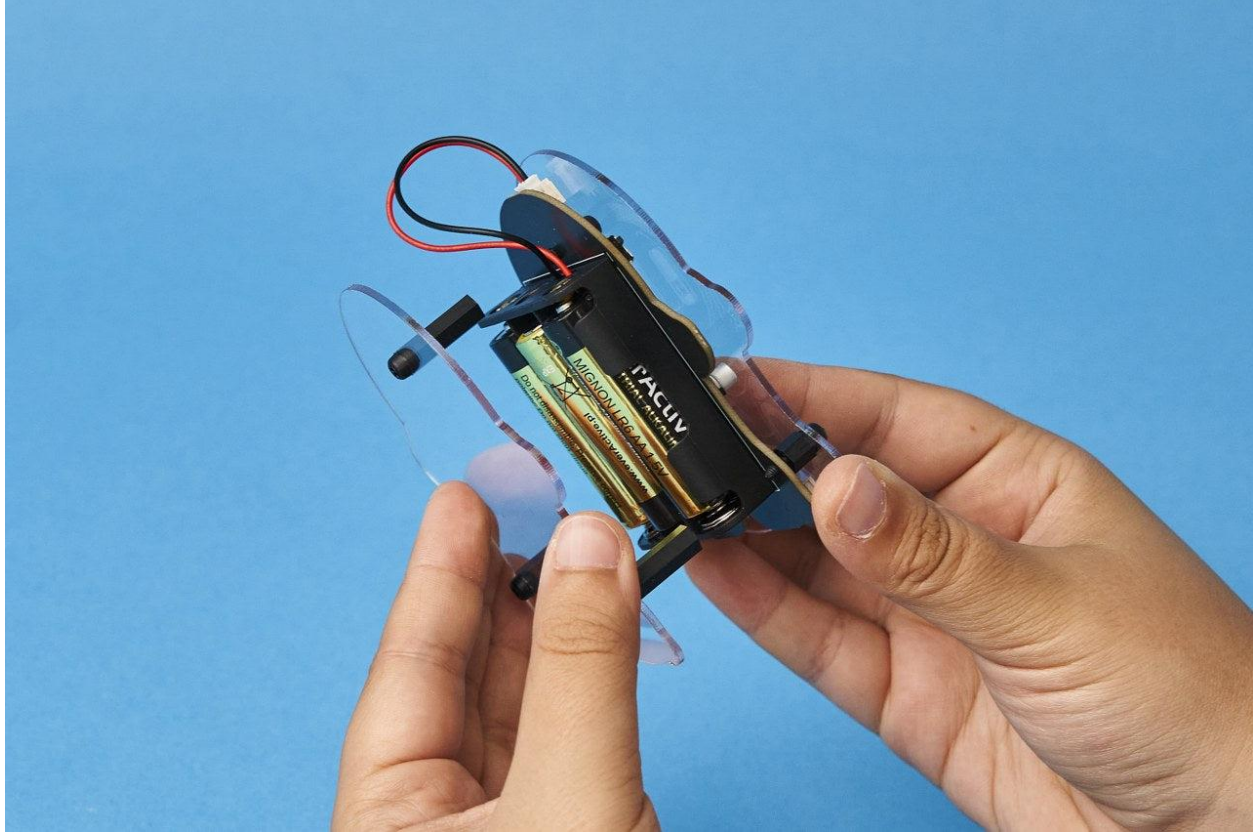


Let's connect everything now.

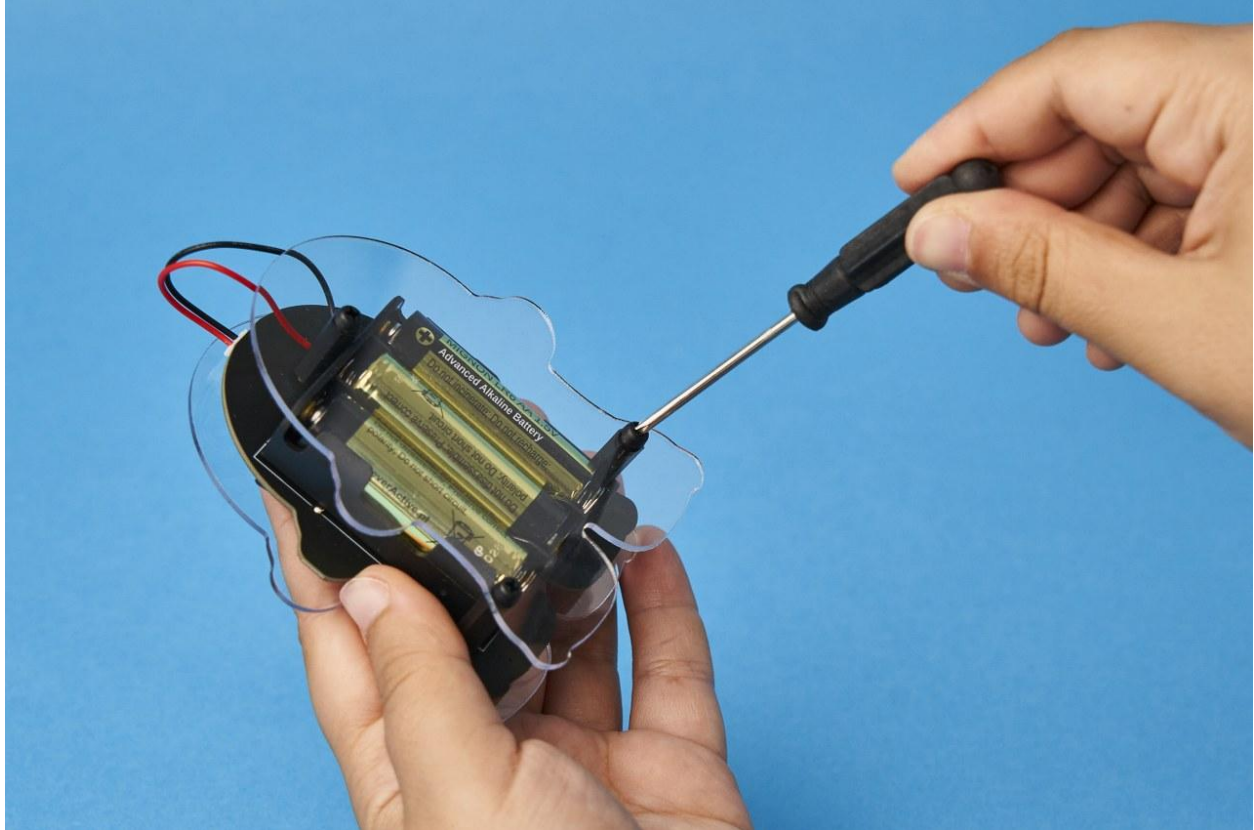
Make sure the casing with the smaller spacers is in front, and the one with the longer spacers is in back.

You couldn't case up your Robby otherwise.





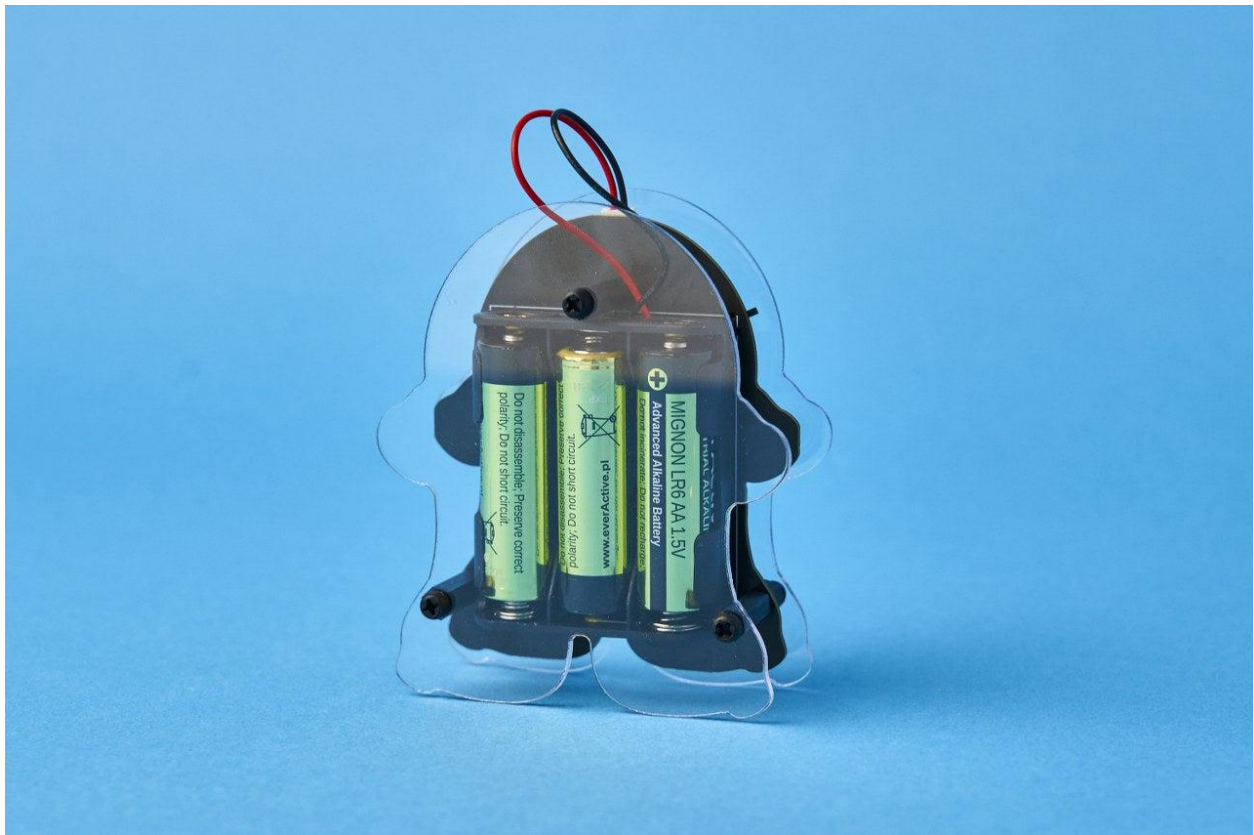
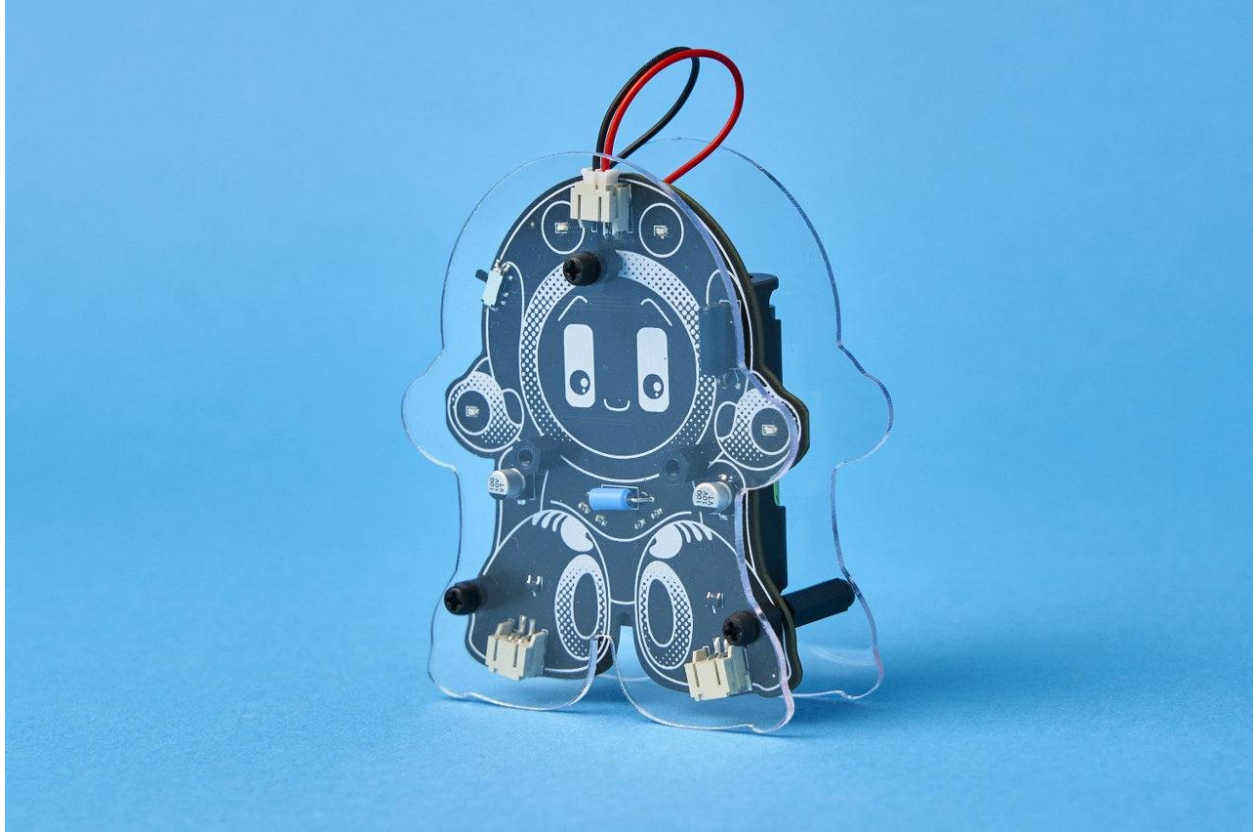
Use the screwdriver to attach the two casings and ensure that nothing falls off.



Congrats!

You successfully assembled Robby!

This is what it should look like at the end:





Turn it on, shake him up and light up the room!

