



# Hasbro Bop-It Micro Series Teardown

Teardown of Hasbro's Bop-It toy on November 17, 2019.

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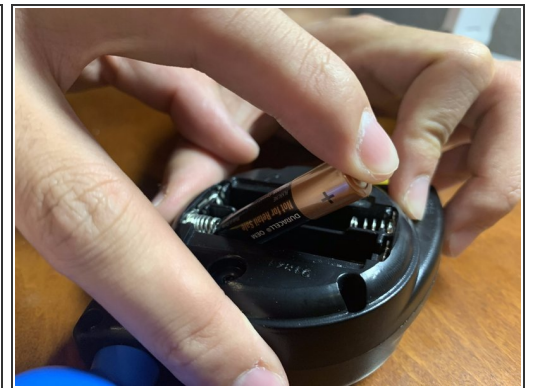
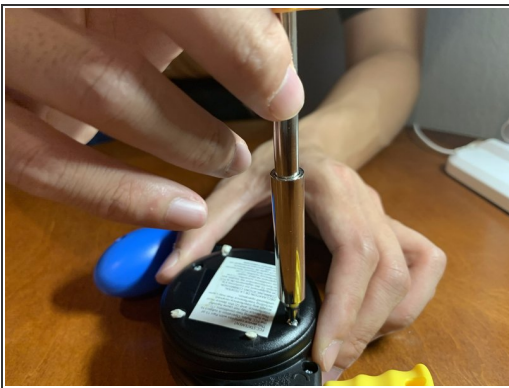


## Step 1 — The Bop-It Toy



- Here's the Bop-It Toy! Compared to older versions of the game this one is more compact, thus allowing for more portability.

## Step 2 — Removing the Batteries



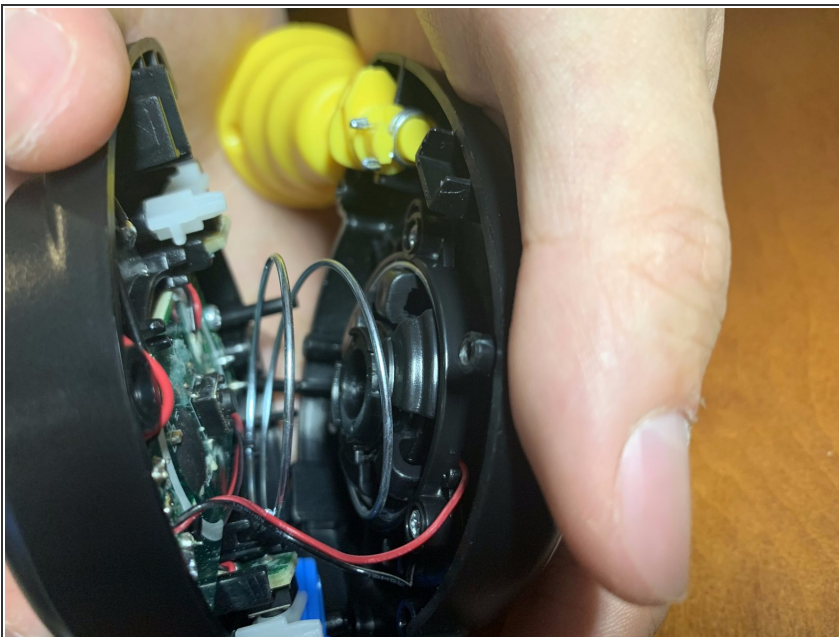
- Next we'll remove the batteries. Fortunately when purchasing the toy these batteries were included.

### Step 3 — Opening the Toy



- Now we're ready to take apart the rest of the Bop-It toy.
- For the two additional screws in the middle we needed to use a thinner, longer Phillips screwdriver to reach the screws.

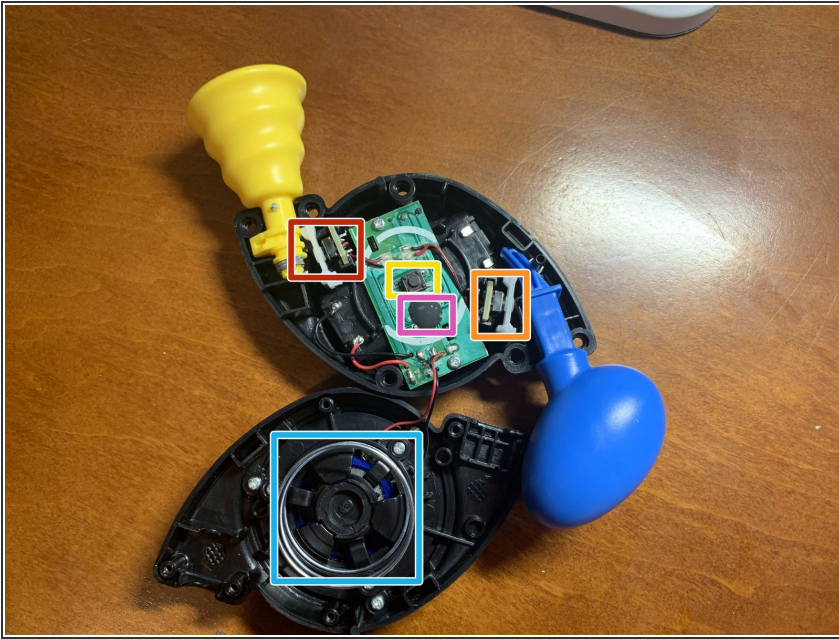
### Step 4 — Taking the Bop-It Apart



- When pulling both parts of the game apart, we made sure that no loose parts such as the spring shown fell off.

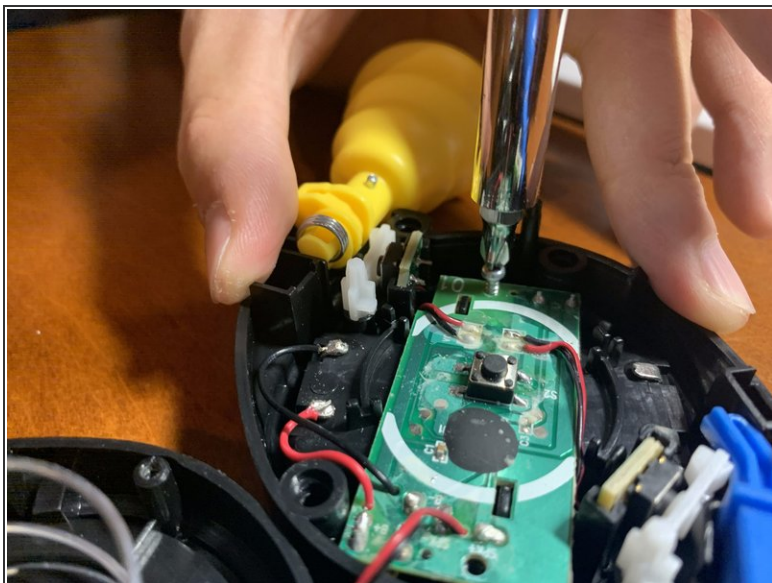


## Step 5 — Taking a Look at Bop It's Parts



- With the Bop It opened up, we can see the different components that make the game work:
  - The button used to detect a twist. Looks like instead of using a dedicated sensor to detect a twist, the toy connects the twist to a lever to push a button. Maybe this was done to save money, but this may not make the toy as durable.
  - The button used to detect a pull. Like the twist part, this also uses a button instead of a dedicated sensor.
  - The button that detects a bop. Since a bop is just a button press, this one doesn't need any additional fancy mechanical parts.
  - The speaker. It looks like it has a spring over it that makes "bopping it" as fun as it is.
  - The microcontroller. It's covered up by a glob top, so we can't actually tell what type of microcontroller it is unfortunately.

## Step 6 — Taking a Look Under the Circuit Board



- Now let's see if there's anything else under the PCB.
- Unfortunately, there wasn't really much to see beside the reset button and a few capacitors.



## Step 7 — Opening Up the Speaker



- Alright, just a few more screws to go.
- Along with the speakers itself, we could also see another spring connected to it. This spring might be there to protect the speaker from any damage after "bopping it".

## Step 8 — Conclusion



- Thanks for taking a look at this teardown! Special thanks to [Travis Vo](#) for helping out with the teardown.

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