




# Switch Adapted Hurricane Bubble Machine

## MAKER GUIDE



### Required Components

<p>1.</p> 	<p>2.</p> 	<p><b>BOM</b></p> <ol style="list-style-type: none"> <li>1. Gazillion Hurricane Bubble Machine</li> <li>2. 3.5 mm Mono Jack and Ring</li> <li>3. 22 AWG Wire</li> <li>4. 6 AA Batteries</li> </ol>
<p>3.</p> 	<p>4.</p> 	

### Required Tools

- Triangle screwdriver
- Ruler
- Wire strippers
- Soldering iron and solder
- Drill and 1/4" drill bit

### Required Personal Protective Equipment (PPE)

- Safety glasses

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### Step 1: Partially Unbox the Gazillion

Open the top of the box, but keep the toy on the cardboard base. This will make it easier to reassemble after modification



### Step 2: Cut the Battery Cover Nylon Strap

Using the flush cutters cut the nylon strap, and discard it.

Set the Battery cover aside.



### Step 3: Open the Battery Case

Make sure to keep the screws together.



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### Step 4: Remove The Battery Tray

Using the 2 mm Triangle Screwdriver (or 2.4 Flathead screwdriver) unscrew the 4 screws holding the battery tray in place.

*Be careful not to break the wires attached to the back of the battery tray.*



### Step 5: Remove the Switch

Lift the switch out of the toy, and using the flush cutters, cut the wires



### Step 6: Strip the Wires

Using the wire strippers, strip the insulation from the switch leads so about 1 cm of the metal wire is exposed.



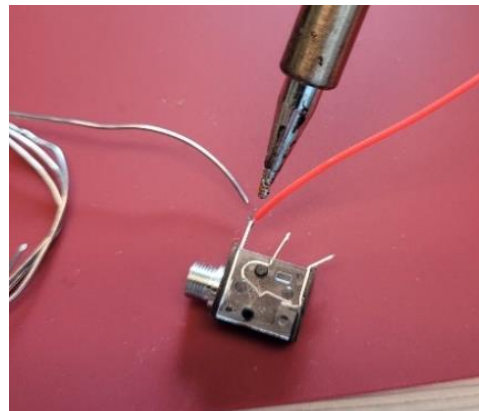
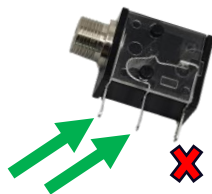
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### Step 7: Solder the Wires to the Switch Jack

Solder the wires to the 2 legs closest to the threaded end.



### Step 8: Test the Toy

Insert batteries into the Battery Tray and insert a switch into the Mono Jack

Press the Switch: You should hear the motor turn on

Remove the batteries and the switch



### Step 9: Insert Jack into Switch Hole

Insert the mono jack into the hole where the switch was originally located. Use flush cutters to clear any plastic that might block the jack.



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### Step 10: Install the Jack Nut

Using the edge of a flathead screwdriver turn the nut until tight. Use the slots cut into the Jack Nut to tighten.



### Step 11: Install the Battery Tray

Using the 2 mm Triangle Screwdriver (or 2.4 Flathead screwdriver), install the battery tray screws



### Step 12: Install the Batteries and Battery Cover



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### Step 13: Replace & Tape the Top Cover

Place a strip of electrical across the Top Cover to keep in place during shipping.

This also helps us know that the toy is ready for delivery.



### Step 14: Replace it in the Box

Carefully re-box the toy into its original packaging, and secure the top flap with Clear Tape.

