# Required Components

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| 1. A yellow and blue toy     Description automatically generated | 1. A small black device with a silver ring     AI-generated content may be incorrect. | **BOM**   1. Kid Connection Spinning Light Wand Toy 2. Rectangular Mono jack 3. PCB Battery Interrupter 4. 2 #4 ½” screws 5. 3D printed stand, cover and button clamp |
| 1. A yellow and white electronic device     AI-generated content may be incorrect. | 1. A close-up of a screw     AI-generated content may be incorrect. |
|  | |

# Required Tools

* Screwdriver
* Soldering iron
* Scissors

# Required Personal Protective Equipment (PPE)

* Safety Glasses

# Assembly Instructions

## Step 1

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| A yellow object with a white circle and a black square  Description automatically generated | To start, locate your battery interrupter PCB and mono jack.  You will notice the prongs from the mono jack match up with the holes in the PCB. Lay the battery interrupter on top of the mono jack, with the metal prongs going through the holes. |

## Step 2

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| A yellow and silver piece of electronics  Description automatically generated | At the base, add solder to the metal prongs so the PCB and mono jack are connected.  Make sure the PCB is flat against the mono jack as possible  The metal ring, or nut, that is around the input of the mono jack can be removed and set aside. |

## Step 3

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| A pair of scissors and a battery  Description automatically generated | Check what size the batteries are of the toy you wish to use the interrupter with. This toy uses AAA batteries. There are circles on the orange PCB indicated battery size.  Locate the circle labeled AAA and cut the PCB to that size. |

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## Step 4

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| A person holding a battery  Description automatically generated | Unscrew the battery cover from the toy. Match the circle that you just cut with the positive end of one of the batteries. Hold in place and replace the battery cover. Tighten the battery cover very tight to make sure the interrupter is pushed up against the battery.  When it is secure enough, the toy will not turn on with the original button. | A red tube with a small chip on it  Description automatically generated with medium confidence |

## Step 5

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| A hand holding a blue and black device  Description automatically generated | Locate the 3D printed cover, which will have a hole in one end. Push the input end of the mono jack out of the hole and use the ring or nut (that you previously took off the mono jack) and tighten it around the mono jack. This will hold the mono jack in the 3D printed part. |

## Step 6

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| A blue and red device with a red tube  Description automatically generated | In the 3D printed stand, stand the spinning wand up. Check to make sure the battery interrupter is not bent or folded and slide the cover into the slot.  When the cover is pushed up against the wand, the toy should stand independently. |

## Step 7

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| A close up of a toy  Description automatically generated | Next, locate the 3D printed button clamp. The hooks on the ends of the clamp should fit into the screw slot of the toy, and the middle of the clamp should be pushing the toy’s button, so that the toy is stuck in the on position | A close up of a toy  Description automatically generated |

## Step 8

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| A toy on a table  Description automatically generated | The toy can now be paired with an assistive switch. When the switch is plugged in and activated, the toy will turn on! The toy should also stand independently.  If the toy does not work, make sure the clamp is pushing the button on, and check the position of the interrupter. |