# Required Components

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|  | 1. A black pole with a white background     AI-generated content may be incorrect. | **BOM**   1. Moose Toys - Talking Bluey plush Toy 2. 7” cable with 3.5 mm jack (female) end 3. Cable tie/zip tie (small – around 15 cm) 4. Cable tie/zip tie (large – around 35 cm) |
| 1. A black cable tie with a black strap     AI-generated content may be incorrect. | 1. A black cable tie with a black strap     AI-generated content may be incorrect. |

# Required Tools

* Phillip screwdriver
* Wire strippers
* Flush cutters
* Soldering iron and solder
* Drill and 1/8” drill bit

# Required Personal Protective Equipment (PPE)

* Safety glasses

# Assembly Instructions

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| 1. To start, pull the inside compartment from inside the toy. The compartment is connected and may need to be wiggled a bit to be pulled free 2. Locate the original zip tie. It will be in the seam of the fabric going around the plastic compartment. 3. Find an opening (you may have to snip a bit of fabric) to then snip the zip tie. When this happens, the plastic will be free from the fabric | A gloved hand holding a white glove  Description automatically generated | |
| 1. Locate the screws on the back of the compartment and unscrew them to reveal the internal circuit board.   Gently open compartment. | A white device with a black wire  Description automatically generated | |
| 1. Using a 1/8 inch drill bit, you will drill a hole for your mono cable. The mono cable will be threaded through the hole and then soldered onto the board, so this needs to be done before soldering.   The hole will be drilled into the side of the plastic compartment, the larger “bottom” part to the right side of the original large plastic button. | A white plastic container with a screw  Description automatically generated | |
| 1. Next you will prepare your mono cable by tinning your wire. The best way to do this is cover the exposed wire in solder. You will use your soldering iron and melt solder onto the exposed wire end and this will help you solder onto the board.   Thread your cable through the hole you drilled. |  | |
| 1. The circuit board has a grey, silicone square. For this toy, a plastic button pushes the silicone square onto the circuit board and activates the toy. Under this, are the spots you will solder your wires. | A green circuit board with wires and wires  Description automatically generated | |
| 1. You can take the silicone square completely off or pull one corner up and tape to the side to access the board underneath.   Now you will see silver circle with a zig zag and two very small circles next to it.  The small circles are indicated in red. | A green circuit board with wires  Description automatically generated | |
| 1. You will be connecting your wires to the small circles, one wire soldered to each spot.   To do this, you can gently add solder to the board. On each circle, add a small blob of solder. This will give you a spot to connect the wire to. | A green circuit board with black wires  Description automatically generated | |
| 1. To connect the wires, touch one of the tinned wires from your cable to your new solder blob. Use your soldering iron to heat up the solder blob and the solder on your wire. This should allow for the wire to stick to that spot on the board. 2. Repeat with your other wire onto the other blob.   Please note: It does not matter which wire is connected to which spot on the board. | A hand holding a green circuit board  Description automatically generated | |
| 1. Before we reassemble, you can test the toy by plugging a switch into the cable. When the switch is activated, Bluey will talk.   If there any issues, check the connections and that solder is not on any spots of the board it should not be.   1. Next attach your small zip tie around the cable on the inside of the plastic compartment. This is to help with the cable from being pulled back through the hole. |  | |
| 1. You can now prepare to close the compartment. If possible, you can put the grey silicone square back on the board, however this may be difficult as the new wires may be in the way. Add the plastic button back into the compartment, it will no longer activate Bluey if the silicone is not there which is alright as we will now be activating the toy by cable. | | A white device with a black wire  Description automatically generated | |
| 1. Add the screws and close the plastic compartment. 2. Locate your large zip tie and thread it through the seam in the fabric. Add the compartment back into the fabric and notice the ridge on the plastic compartment which the zip tie will go around. When the compartment and fabric is in place, tighten the zip tie so it is secure. | | A hand holding a white bag  Description automatically generated | |
| 1. Put the compartment back inside Bluey and close the Velcro, except for the cable. The cable should be hanging out the back so a switch can be attached for use. 2. If possible, put Bluey back into its original box and seal – toy is complete! | | A stuffed toy with a microphone  Description automatically generated | |