

UPDATED 1/14/2025

Switch Manual



Conductive Switch



Feather Switch



Paddle Switch



Pool Noodle Switch









Soft Switch



Tilt Switch

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Pool Noodle Switch – Tools & Materials



How it works: Squeeze or press the pool noodle until the two pieces of conductive tape touch

Key Features: Soft, fast to build, works with any switch adapted toy or Input Device



Pool Noodle 4 inches



**Aluminum
Conductive Tape**



6" Audio Jack Cable



**Hot Glue + Hot
Glue Gun**



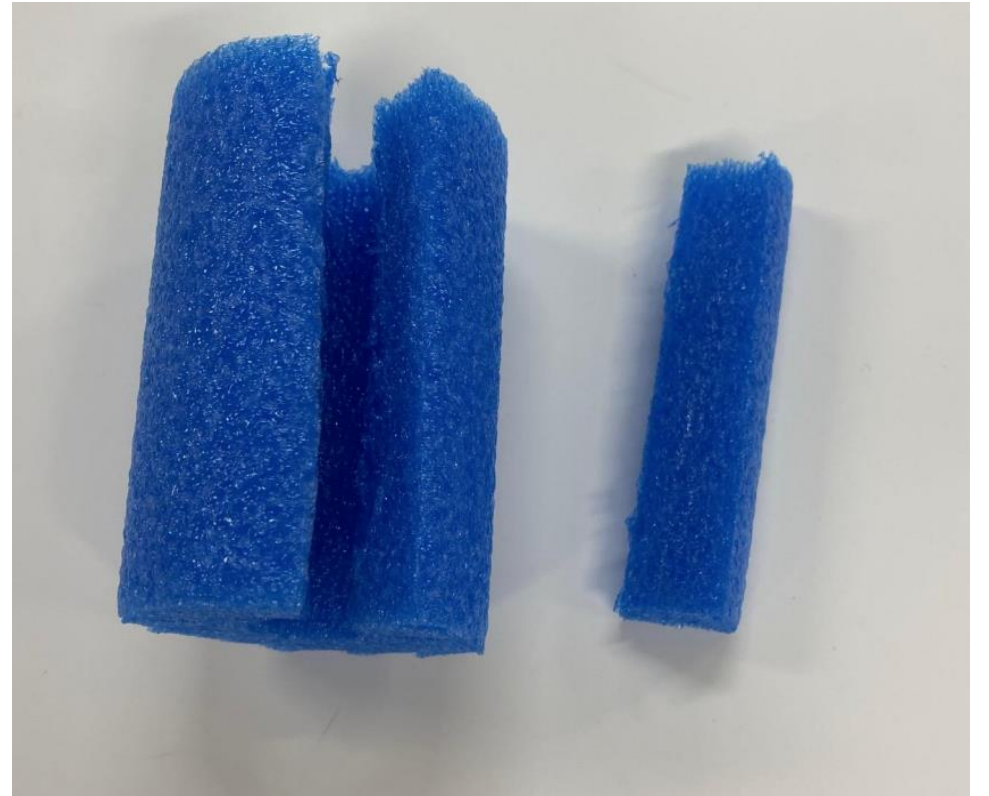
Serrated Knife



Scissors

Pool Noodle Switch – Instructions

1. With the serrated knife, cut the pool noodle into around 4 inches. Then cut about a ½ inch slice.

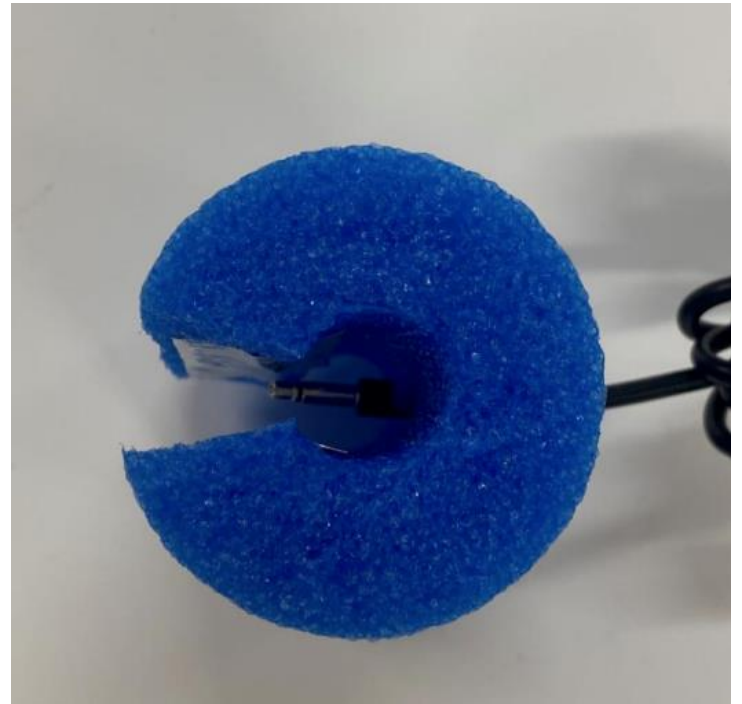


2. Cut two 3.5 inch pieces of aluminum tape. Place one on the top and one on the bottom lip. Trip the pieces of tape so that there is a gap between them and there is no tape over the edges



Pool Noodle Switch – Instructions

3. Use the end of the audio jack cable to poke a hole opposite of the slit and in the center.



4. Once the hole has been made, place the exposed ends of the wire through the pool noodle. Hot glue the black part of the wire in place



5. Secure one of the small wires to the bottom piece of tape with another 3.5-inch aluminum tape. Tape down the other wire to the top. Press down hard enough to see the outline of the wire.



Pool Noodle Switch – Instructions

6. Now test the switch by plugging it into an input device or a switch adapted toy.








7. If it is not working, press down the conductive tape around the wire. Make sure there is a strong connection!

Paddle Switch – Tools & Materials



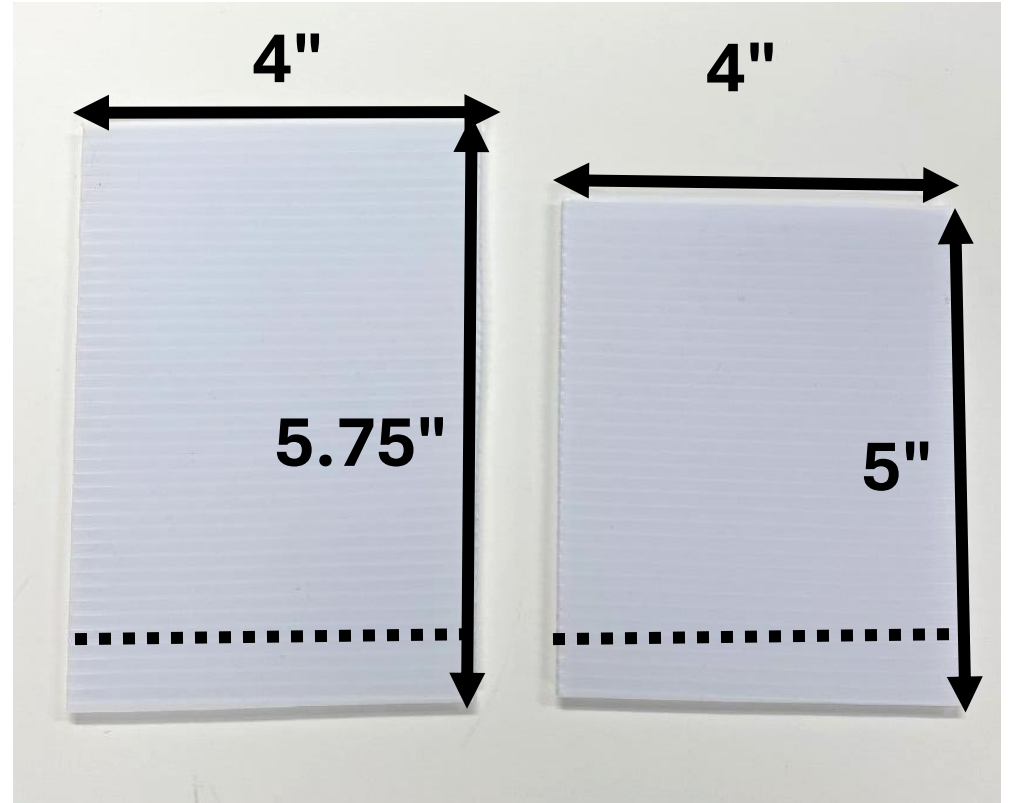
How it works: Press down on the end until the two pieces of plastic touch

Key Features: Durable, fast to build, works with any switch adapted toy or Input Device

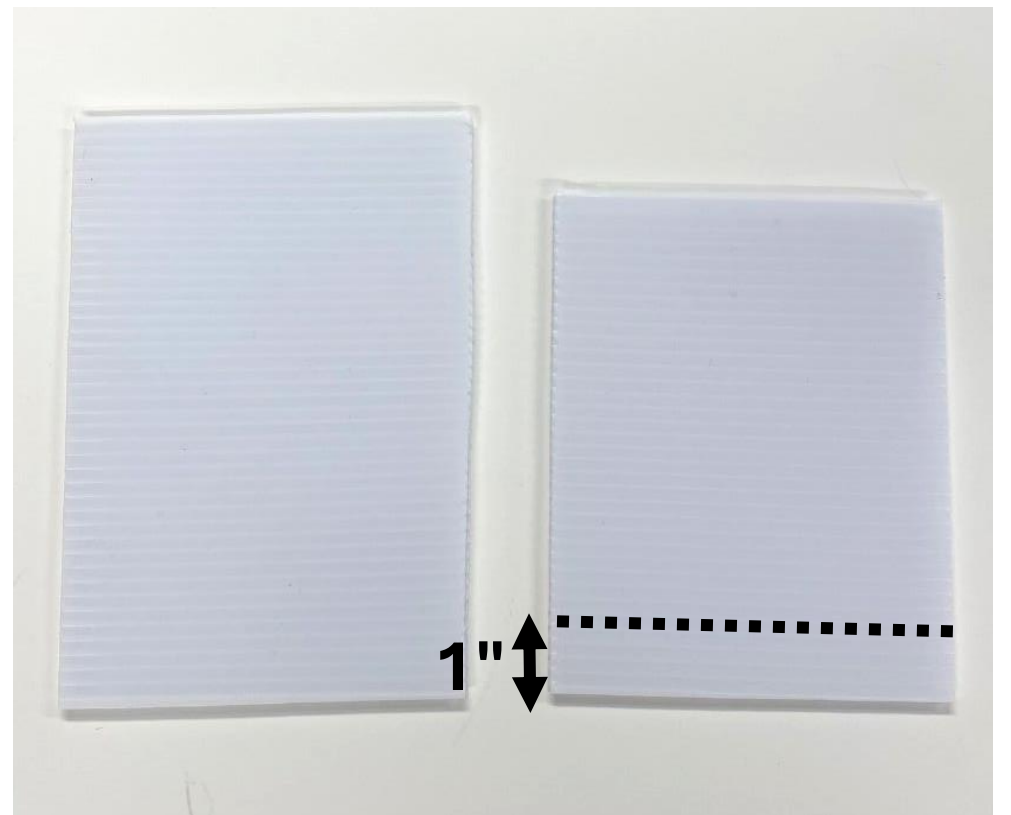
 <p>Coroplast Sheet</p>	 <p>Aluminum Conductive Tape</p>	 <p>6" Audio Jack Cable</p>
 <p>Double Sided Foam Tape</p>	 <p>Box Cutter</p>	

Paddle Switch – Instructions

1. Cut one piece of coroplast that is 5.75 inches by 4 inches. The long edge should be against the flutes. Cut one piece that is 5" by 4". The long edge cut should be against the flutes.



2. Score the smaller coroplast piece along the 4" side about 1 inch from the edge.

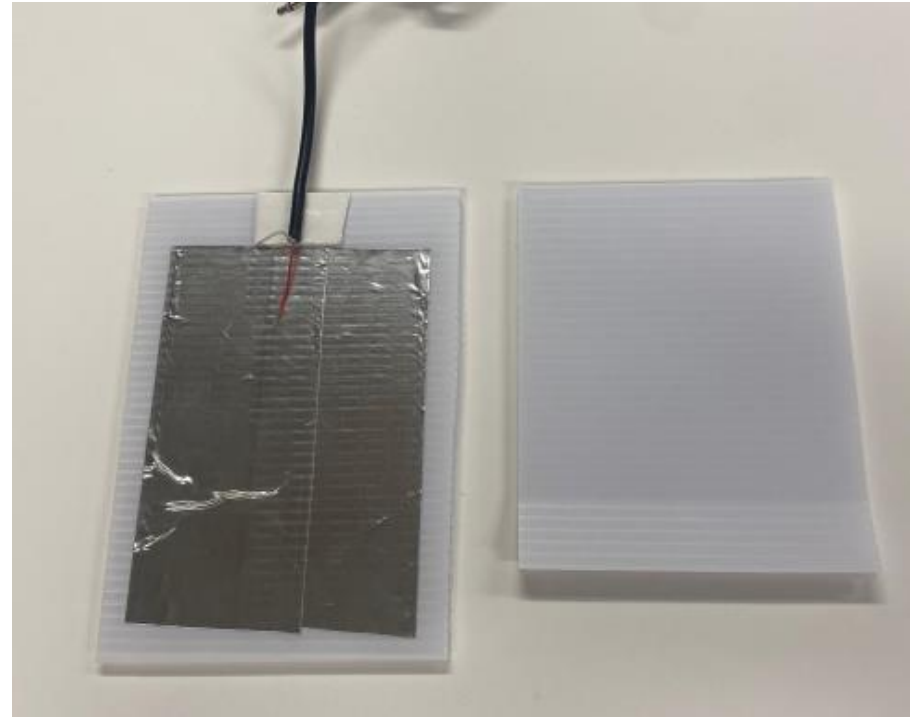


3. Add 2 5 inch pieces of aluminum conductive tape to the larger piece. Place a 1 inch piece of foam tape in the middle of the 4 inch side.

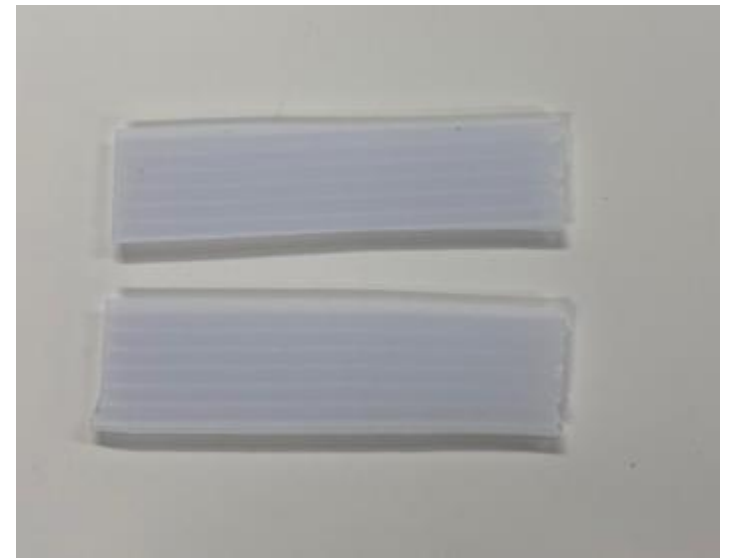


Paddle Switch – Instructions

4. Place the audio jack cable on the foam tape. Then take another 5 inch aluminum conductive tape to secure the red wire to the base.



5. Cut 2 shims that are about 1 inch by 4 inches. *The flute direction does not matter.

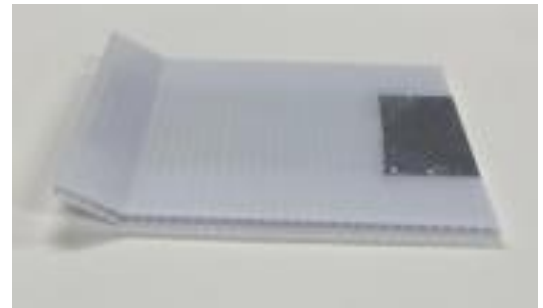
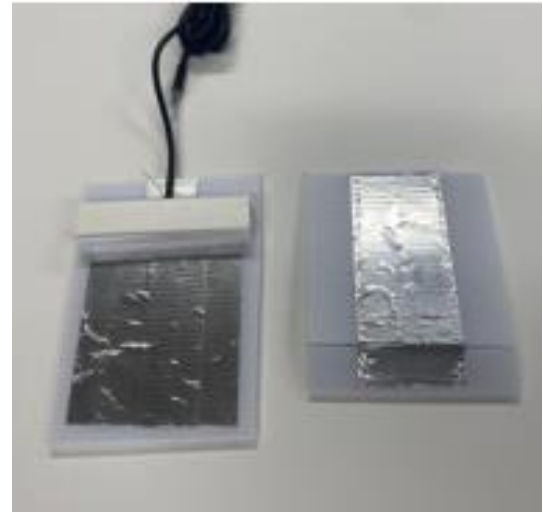


6. Using the foam tape, secure the shims close to the black wire while keeping the white wire out.

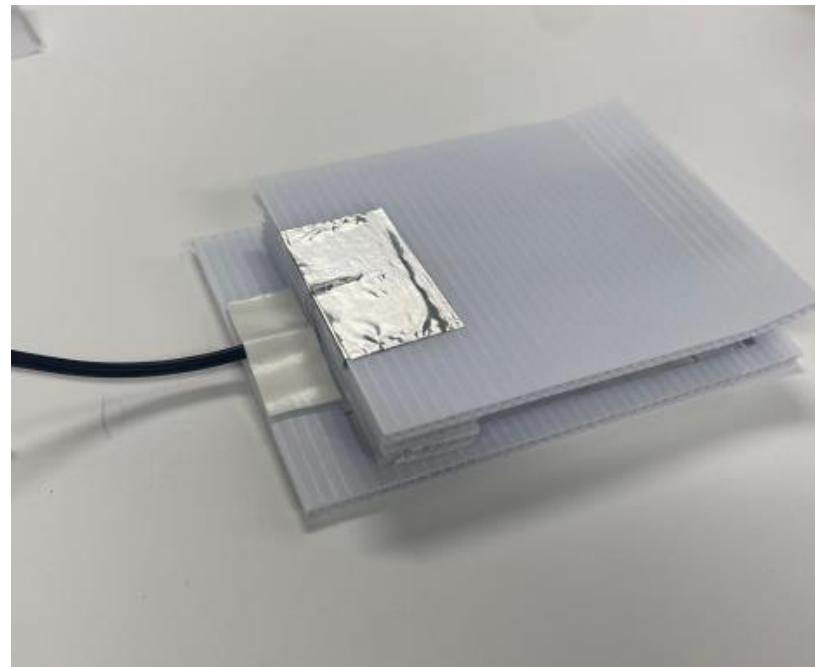


Paddle Switch – Instructions

7. Add a 6 inch piece of aluminum conductive tape to the smaller coroplast piece. Wrap the last inch around the non-scored edge.



8. Secure the small coroplast piece to the foam tape on top of the shims. Make sure that the front edges are aligned. Secure the white wire to the top with aluminum conductive tape



9. Check your switch. If it does not work, check the wire to aluminum conductive tape connections by pressing down on them more.

Tap Switch – Tools & Materials



How it works: Tap the top of the container with your hand touching both pieces of tape or grab some friends to create a chain. One person touches one piece of tape while the other person touches the other tape. Then the switch is turned on when the two people high five with their free hands.

Key Features: Durable, fast to build, only works with Input Device



Yogurt Container



**Aluminum
Conductive Tape**



6" Audio Jack Cable



**Hot Glue + Hot
Glue Gun**



Scissors



X-acto Knife

Tap Switch – Instructions

1. In your chosen container, poke a hole through the side near the bottom with a knife. Push stranded side of the aux cord through it.



2. In the lid of your container, poke two more holes near the center, about 0.5 inches apart.



3. Cut 4 half circle shapes out of the aluminum foil tape. Use the lid to outline the size you need.



Tap Switch – Instructions

4. Before sticking the tape on the lid, check that they will not touch each other. There should be a small gap between them. Trim as necessary. Place two pieces of tape on the lid each covering a hole. Poke a hole through the cut places.



5. Take the wire through the container and thread one strand through one hole and the other through the other hole.

*optional secure wire with duct tape or hot glue



Tap Switch – Instructions

6. Place the other two pieces of tape on top of the last two pieces. Press down firmly until you can see the outline of the wire strands.



7. Your tap switch is not ready to be tested. If it is not working right away, try pressing down on the wire strands more.



Feather Switch – Tools & Materials



How it works: Tap on top side to connect the aluminum foil to the bottom

Key Features: Low effort to operate, fast to build, works with any switch adapted toy or Input Device



Coroplast



**Aluminum
Conductive Tape**



Mono Audio Jack Cable



**Hot Glue + Hot
Glue Gun**



Wooden Dowels



Hand Cutting Tool



Duct Tape



Aluminum Foil



Hand Saw



Scissors



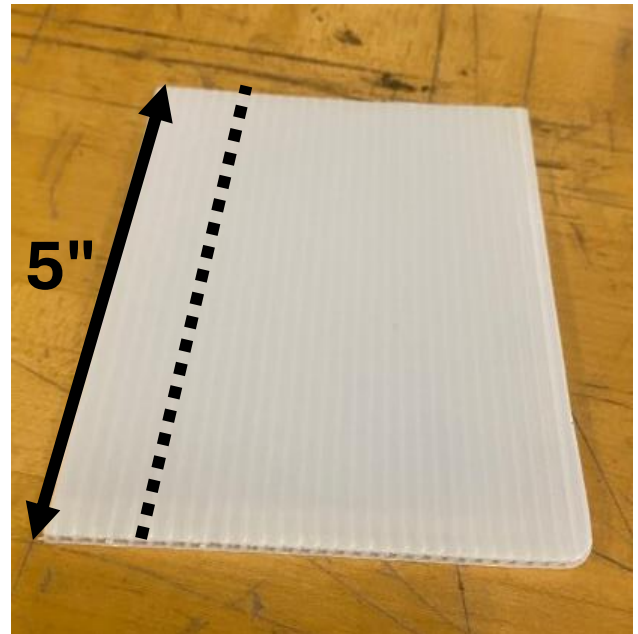
Pen



Pliers (optional)

Feather Switch – Instructions

1. Cut a 5x4 inch piece of coroplast with the flutes going along the 5 inch side. Use a box cutter.



2. Pull out about a 20 inch piece of aluminum foil. Fold it in half twice in the same direction. Make the shiny part visible



3. Use the coroplast as a sizing guide to trim the non-folded edge of the aluminum foil. It should now be around 4 inches wide.

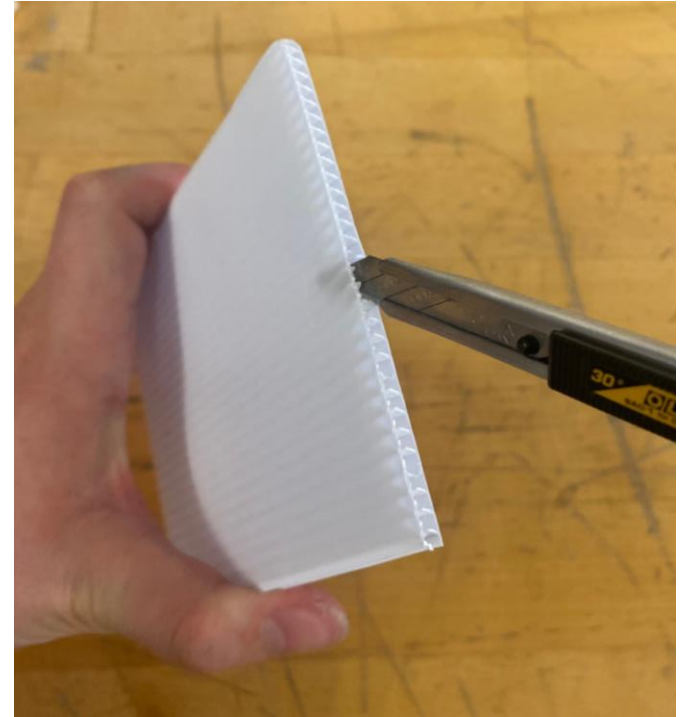


*do not unfold

Feather Switch – Instructions

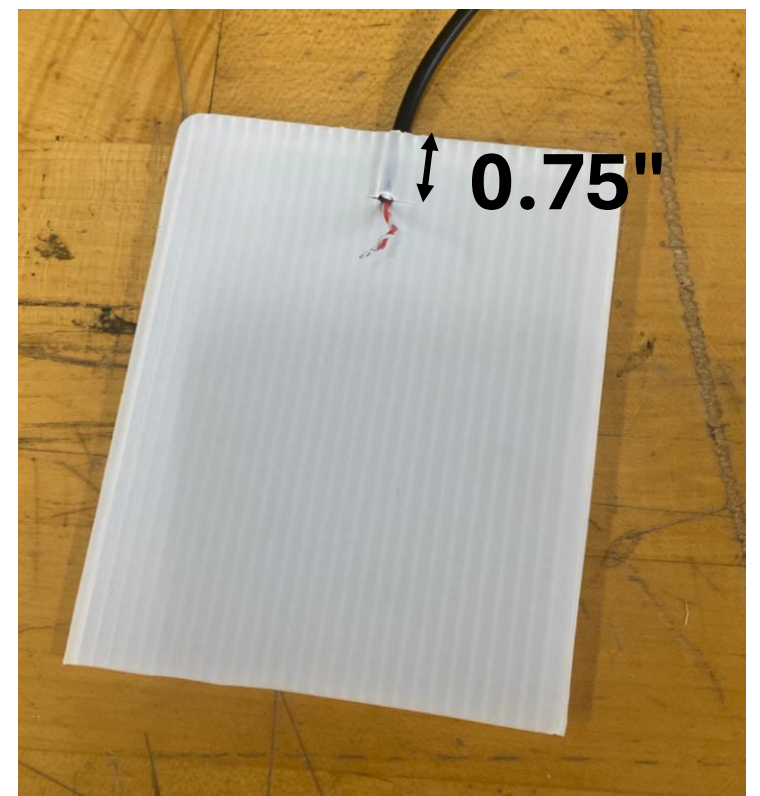
4. On the short side of the coroplast, cut 4 of the flutes about an inch deep in the center.

*turn on hot glue gun

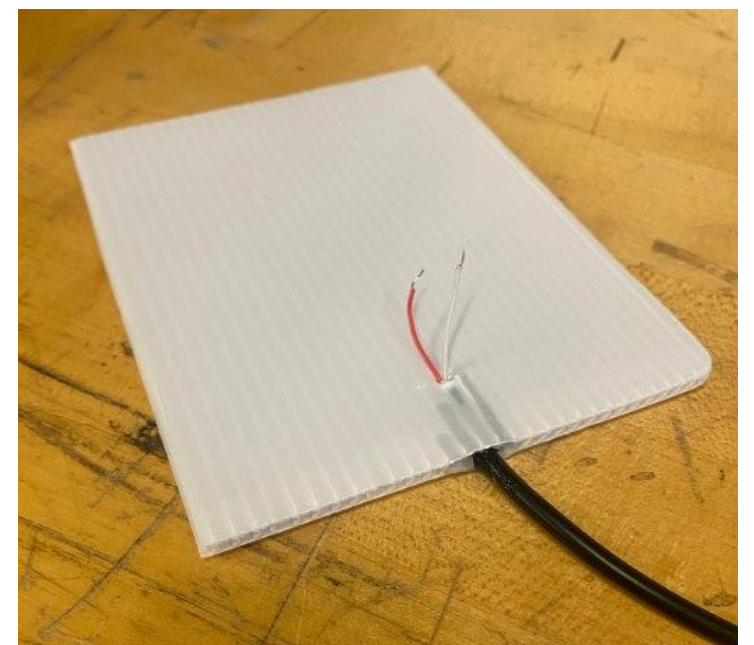


5. Cut a .5 inch slit about 0.75 inches from the short side of the coroplast and in the center. Then, poke the audio jack cable through the short side.

*Twisting the wires, cutting more around the slit, or using pliers to pull it through may be helpful



6. Add hot glue around the wire inside the coroplast.

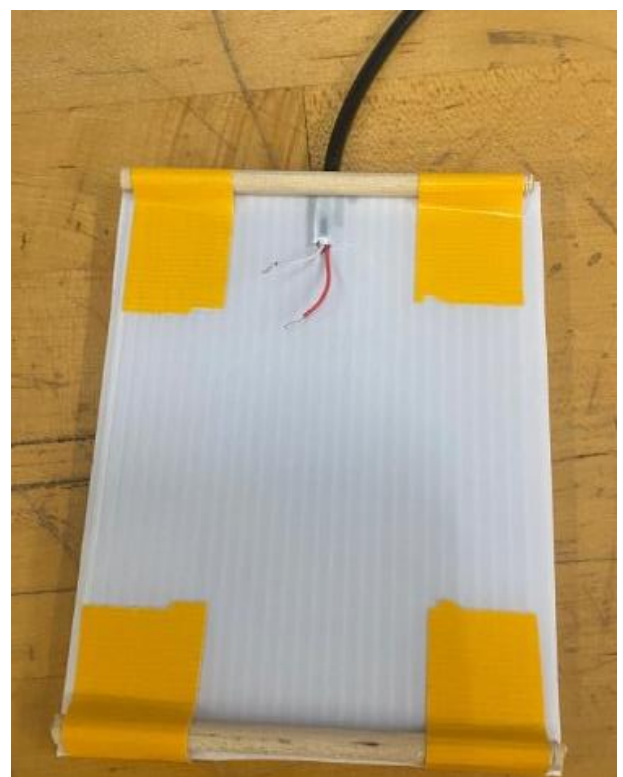


Feather Switch – Instructions

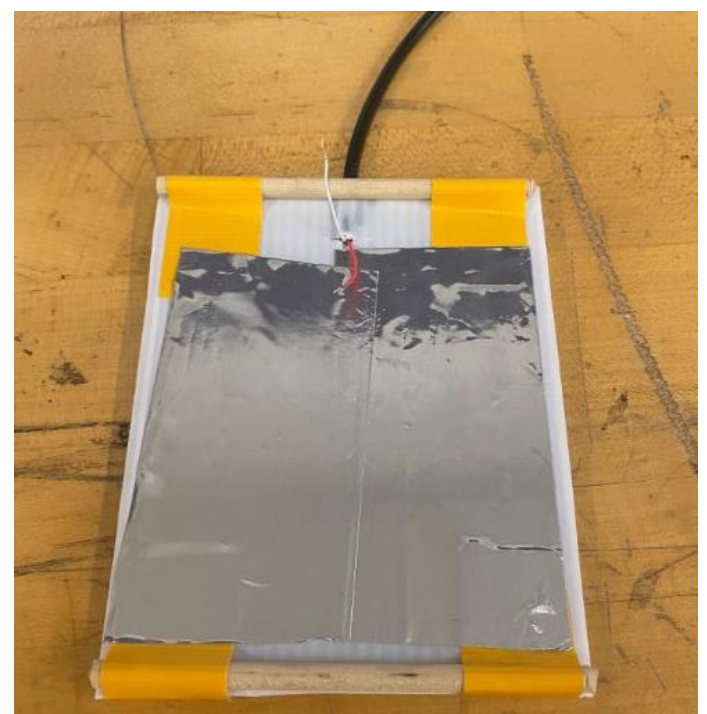
7. Cut two 4 inch pieces of wooden dowel with a hand saw.



8. Use duct tape to firmly attach the dowel to the coroplast on each side. Wrap the duct tape around the back. Make sure not to tape the wire down.

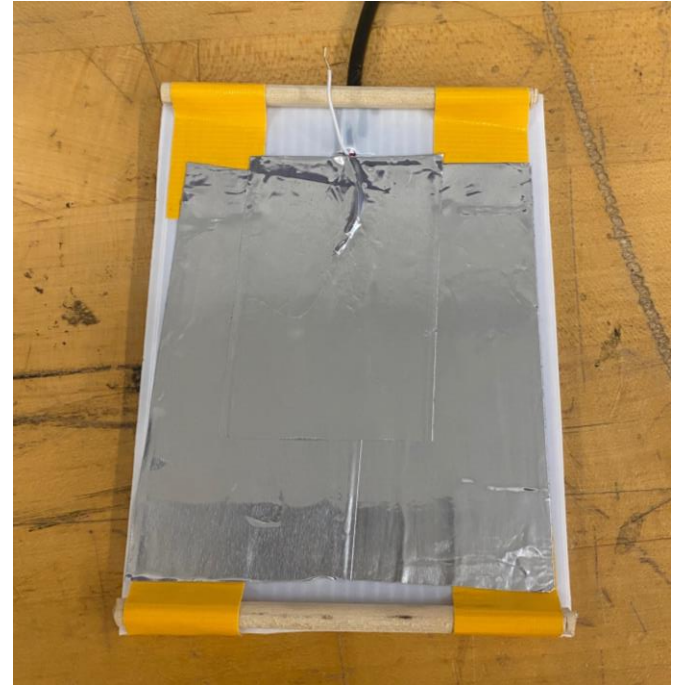


9. Cut two 3 inch pieces of aluminum duct tape. Place these under both strands of the wire and have it cover most of the white surface.



Feather Switch – Instructions

10. Add another piece of aluminum duct tape, this time tape the red wire down and press firmly.



11. Flip the switch over. Duct tape the folded aluminum foil to the center of the back.



12. Poke the audio jack cable through the aluminum foil close to the edge of the coroplast. Then carefully pull the wire all the way through.
*if the foil rips, add a piece of conductive tape

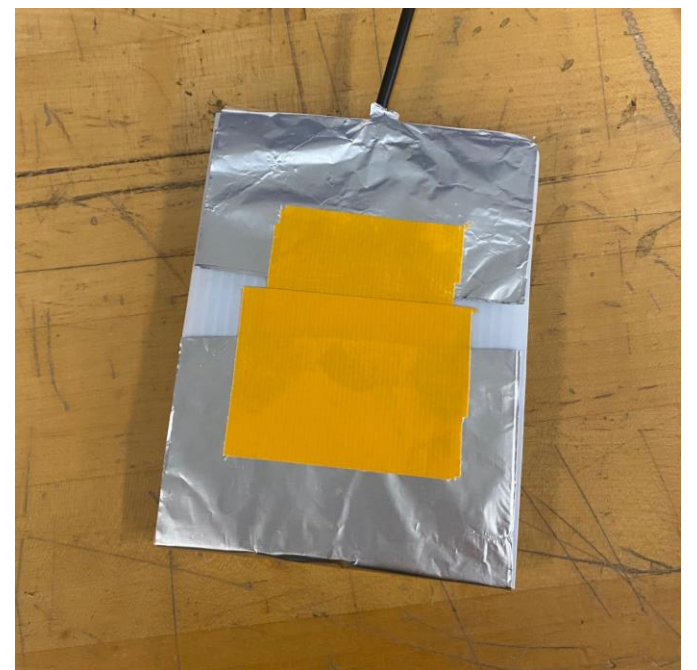


Feather Switch – Instructions

13. Add another piece of aluminum foil duct tape securing the white wire to the folded aluminum foil.



14. Keep folding the folded aluminum foil over and secure it to the back side. Prevent the duct tape from touching the other side of the aluminum foil. Trim foil if needed



15. Test the feather switch and check that the folded aluminum foil is not touching the aluminum conductive tape on the bottom.



Soft Switch – Tools & Materials



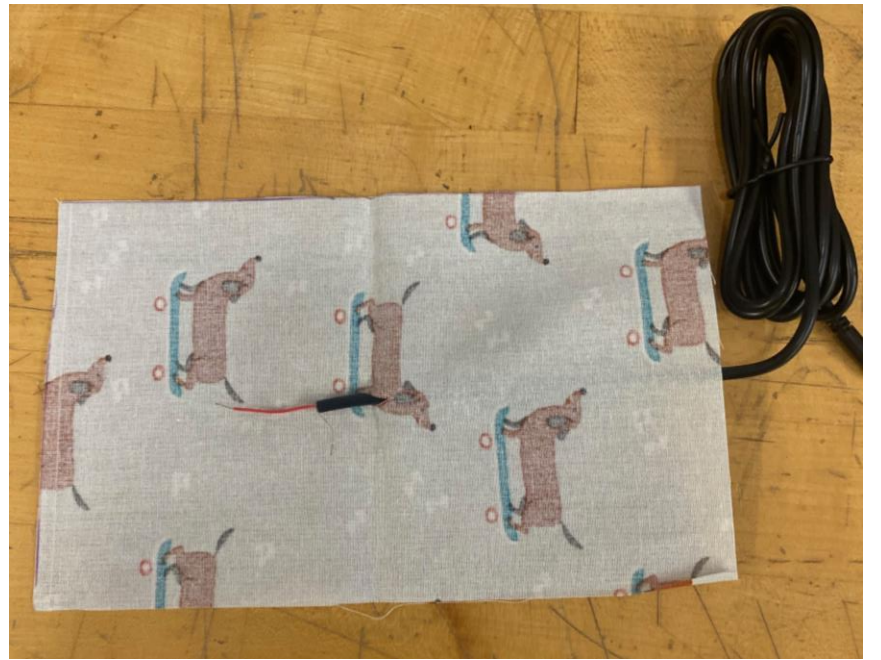
How it works: Lightly tap either side until the conductive tape touches the conductive foam

Key Features: **Soft**, Low effort to operate, only works with Input Device

 <p>Fabric</p>	 <p>Conductive Fabric Tape</p>	 <p>6" Audio Jack Cable</p>
 <p>Double Sided Foam Tape</p>	 <p>Conductive Foam</p>	 <p>Scissors</p>
 <p>Craft Felt</p>	 <p>Double sided Fabric Tape</p>	

Soft Switch – Instructions

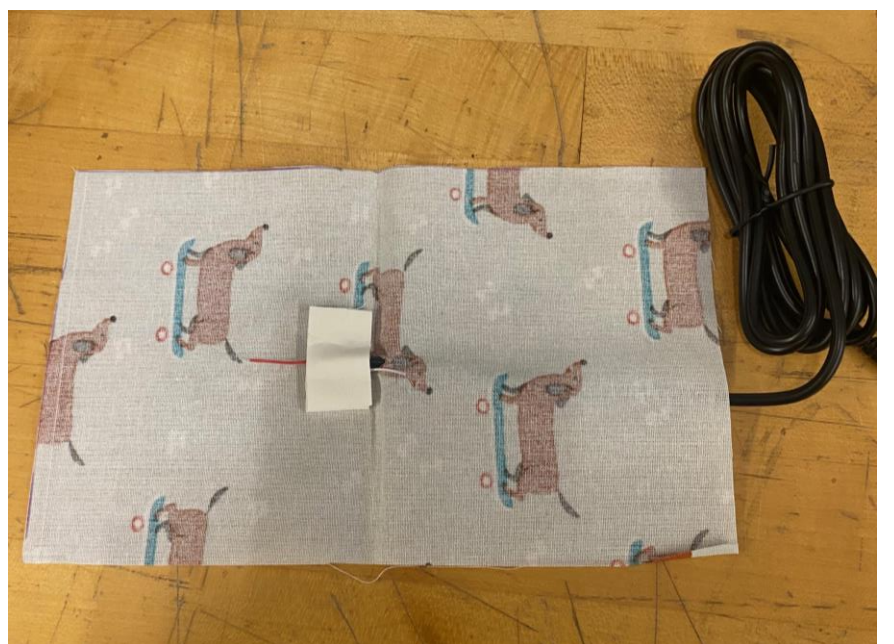
1. Cut a 4 by 8 inch piece of fabric. Cut a small slit in the center and place the audio jack cable through it.



2. Cut a 1 inch piece of double sided foam tape. Place it under the audio jack cord with the red strand pointing out and the white strand pulled back.



3. Cut another piece of double sided foam tape and place it on top of the other one. Leave the protective coating on the top.

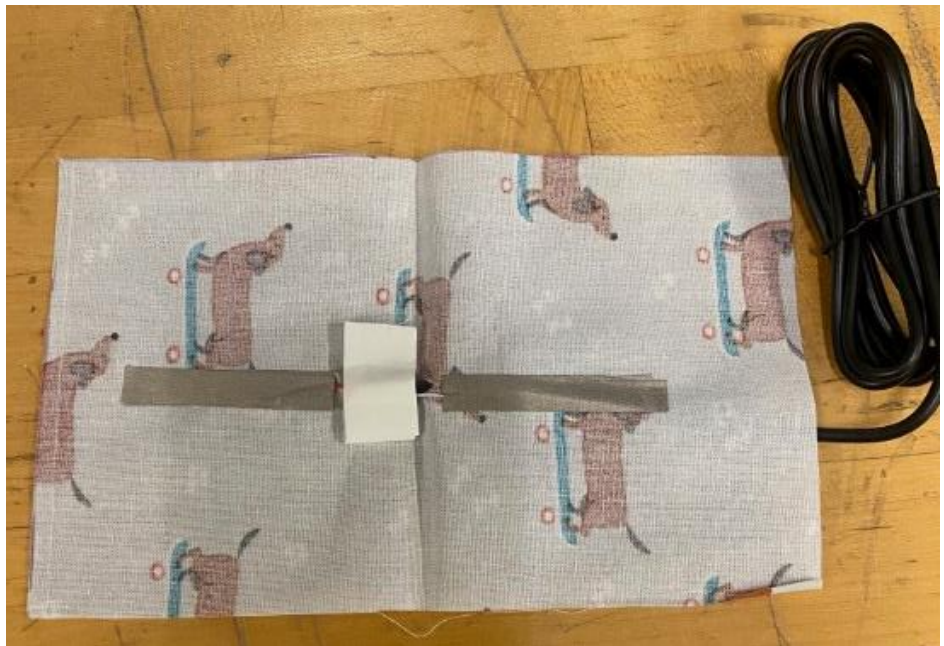


Soft Switch – Instructions

4. Cut two 2 inch pieces of conductive fabric tape. Place one under each wire pointing towards the short edges

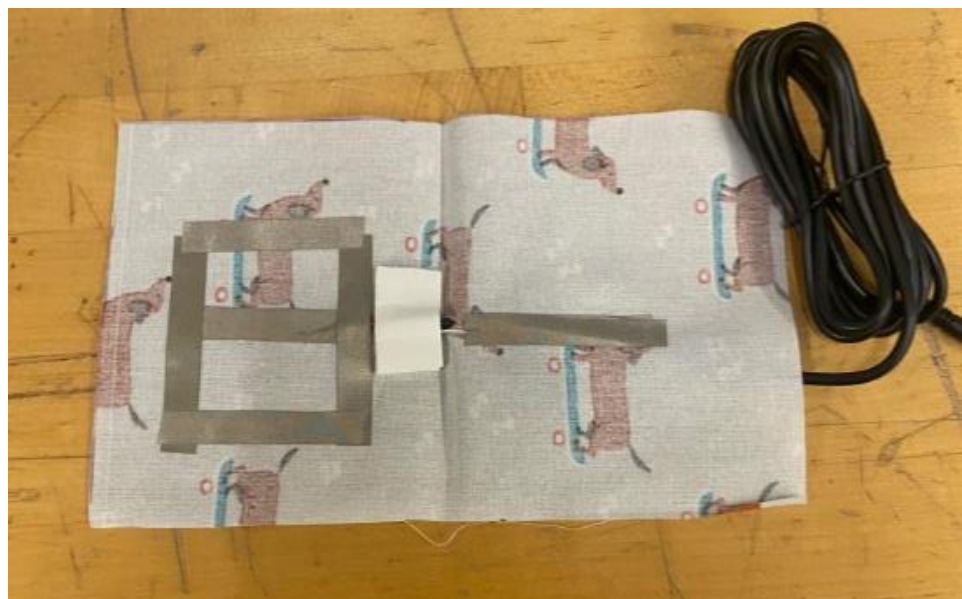


5. Cut another two pieces of 2 inch conductive fabric tape. Place one on top of each wire.



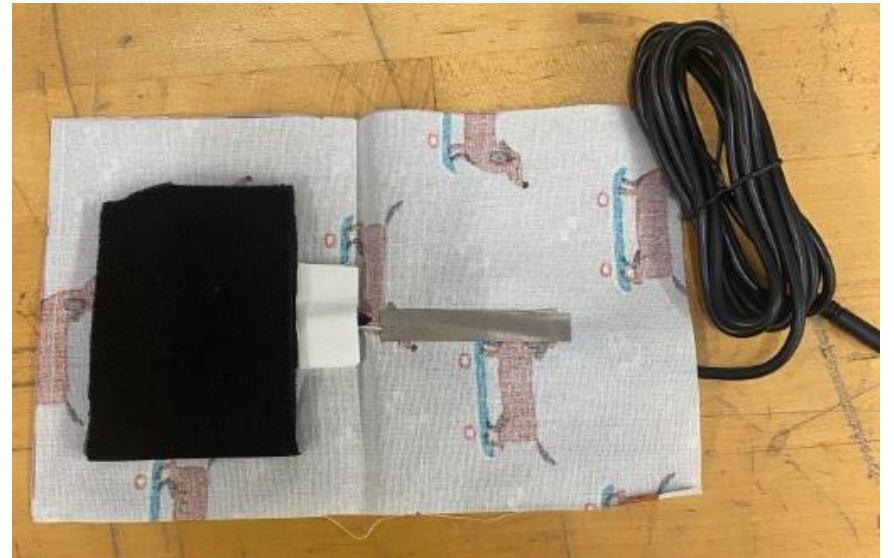
Make sure the metal part is secured between the two pieces

6. On the side with the foam tape, add a box of conductive fabric tape about 0.5 inch from the edge of the fabric. Make sure all pieces of tape are touching.



Soft Switch – Instructions

7. Cut a piece of conductive foam that covers the area of the taped box.



8. Add double sided tape to the outer edge of the conductive foam.

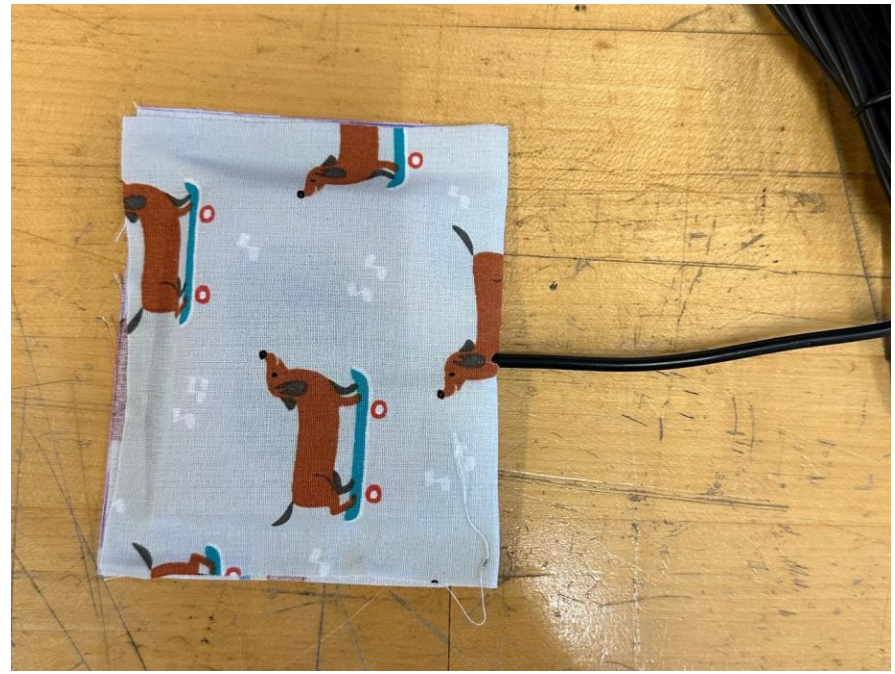


9. Cut out a piece of felt that is the same size as the conductive foam. Cut a square hole in the center so there is a 0.25" frame and stick it to the tape on the conductive foam.



Soft Switch – Instructions

10. Test the switch before sticking it to the tape. Fix connections to wires if not working.



11. Fold the fabric in half and stick to the tape. Keep the fabric taught.



Tilt Switch – Tools & Materials



How it works: Hold the wire, tape it to glasses, or wrap it on an arm. The switch turns on when the uncovered metal end of the wire is facing up towards the ceiling.

Key Features: has many ways to use, requires soldering to build, works with any switch adapted toy or Input Device



Ball Tilt Switch



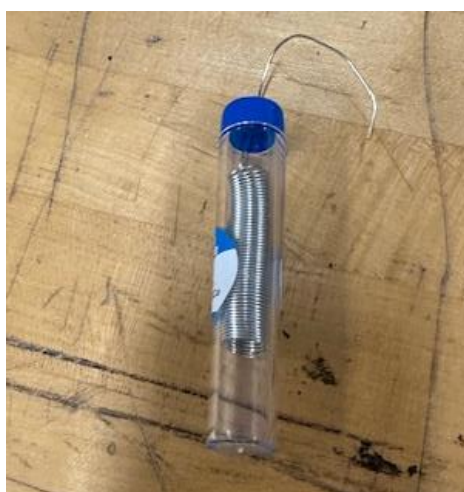
Electrical Tape



Male Mono Audio Jack Cable



Soldering Iron & vent



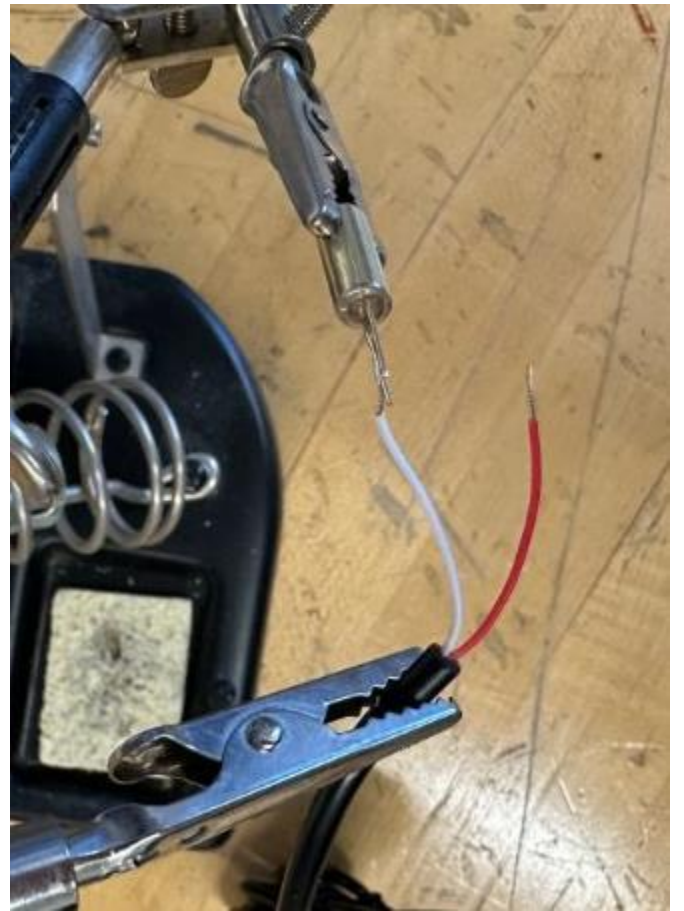
Solder



Helping Hands

Tilt Switch – Instructions

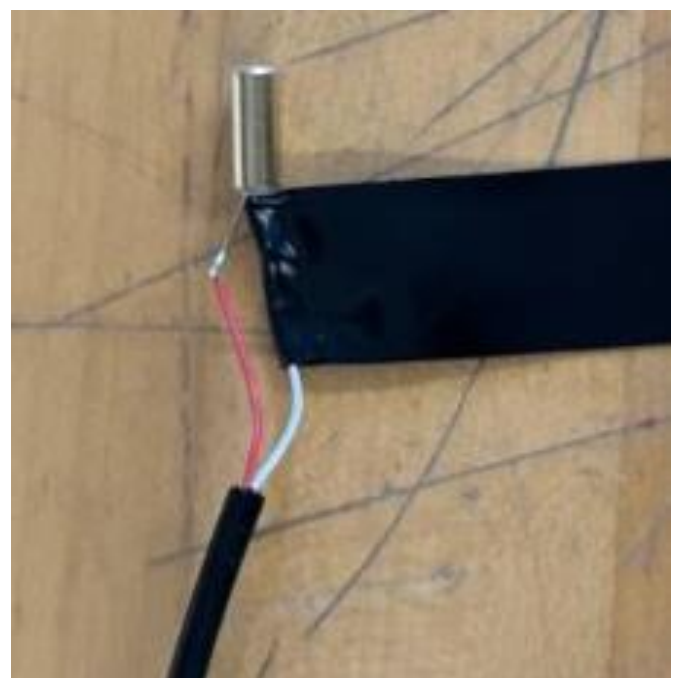
1. Take the tilt switch and place it in one of the helping hands. Place the audio jack wire in the other. Wrap the white wire around 1 prong of the tilt switch and solder.



2. Do the same to the red wire and the other prong. Lightly pull on both wires to check for a good connection

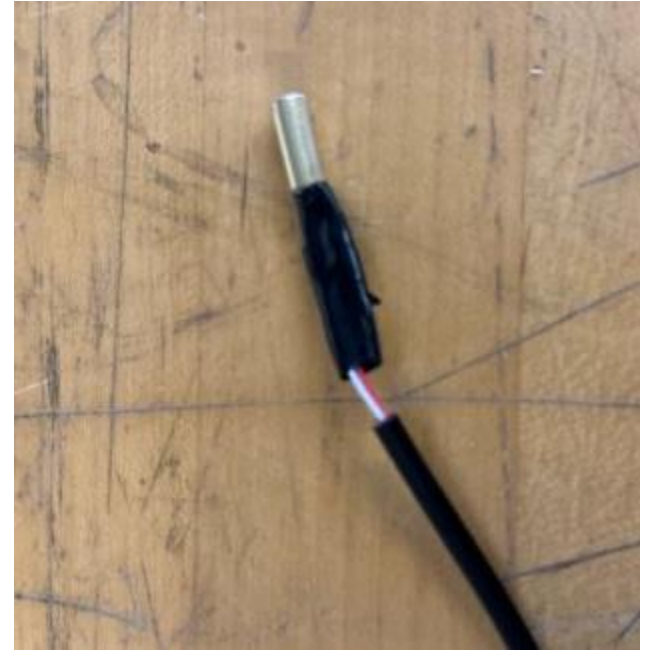


3. Wrap electrical tape fully around one of the prongs.



Tilt Switch – Instructions

4. Wrap the rest of the tape around the wire.



5. Take another piece of electrical tape to secure all the wires.



6. Test the tilt switch on a toy.

