

How to assemble a 1/8" plug for toy adaptations

By Shannon Kuester

Supplies Needed: 1/8" Solder- Type, Stereo, In Line Phone Jack; Soldering Iron; Soldering Wire; Intercom Wire; Hot Glue Gun; Hot Glue; Pliers; Scissors; wire cutters; an adaptive switch (I am using the Tash Microlight), and a multimeter (if you want to test the plug before using it).

1) On the 1/8" jack, unscrew the black casing from the silver plug part.

2) Cut a piece of the wire, about 9 inches long. Using the scissors, split the wire (black and white) about an inch up on each end.

3) Using the wire stripper, strip the plastic coating off both the black and white wires on each end exposing the actual wire.

4) Look closely at the silver inside portion of the plug, there are 3 holes. 2 upper holes that are a copper/ brassy color and the hole in the silver lower portion. Now insert one end of the black wire into the left copper hole. Then insert the same end of the white wire into the silver/ lower hole.

5) Now using the pliers, pinch the black wire down so that it is touching the copper connector. Solder it in place. Repeat with the white wire on the lower hole.

*To solder, plug your soldering iron in and let it heat up. Touch the tip of the iron to the wire, place that you want to solder. Touch the soldering wire to the tip and wire area as well. The Soldering wire will begin to melt/ liquefy. When you have enough on there to hold it in place, remove the soldering wire and iron. If you need to make adjustments, put the hot tip of the iron back on the solder and it will re-liquefy.

*you may wish to test your plug now before continuing. To do this, plug your adaptive switch into the silver plug, twist the end of the black wire to the red probe coming off the multimeter. Twist the white wire around the black probe coming off the multimeter. Press the button/ activate your switch and the needle on the multimeter should move to the right, if it does, great, your plug works. If it doesn't, you will need to continue working, your wire (black) is probably not in contact with the copper connector and will have to be re- soldered.

6) Snip off the extra wire hanging out past the solder

7) Coat the soldered parts in hot glue to protect them.

8) Put the black case back on the silver plug and screw it back on.

Now your plug is ready to use to adapt a toy