

Bubble Gum Phone Rev1

For those of you who have searched for the Piezo transducer from Radio Shack item 235 to create the sound-powered Bubble Gum Phone as described by Frank Reid in various publications on Cave Rescue Communications, they are no longer available.

Tony Smith, NCRC National Instructor and retired ER-NCRC Regional Coordinator, did a little research and has found a suitable replacement.

Below is his description:



Parts list:

1. 35mm Piezo Disc Transducer Contact Microphone Trigger Sound Sensor w/ 3.94 inches wires for Acoustic Instrument- Source Amazon, <https://www.amazon.com/YQBOOM-Transducer-Microphone-Acoustic-Instrument>
2. Ice Breaker gum container- Source Walmart
3. Mounting Putty- Source Walmart
4. Test Leads- Source Walmart
5. Splice Connectors- Source Walmart



Tool List:

1. Hot Glue gun
2. Strippers
3. Crimpers



Instructions:

1. Strip wires on transducer to expose $\frac{1}{4}$ inch of wire
2. Cut Test Leads to desired length and strip one end to $\frac{1}{4}$ inch of wire exposed
3. Splice wires, red to red, black to black
4. Place small piece of mounting putty on ceramic side of transducer
5. Place transducer with ceramic side down in the bottom of the container
6. Hot glue butt splices to side of container to create a strain relief

