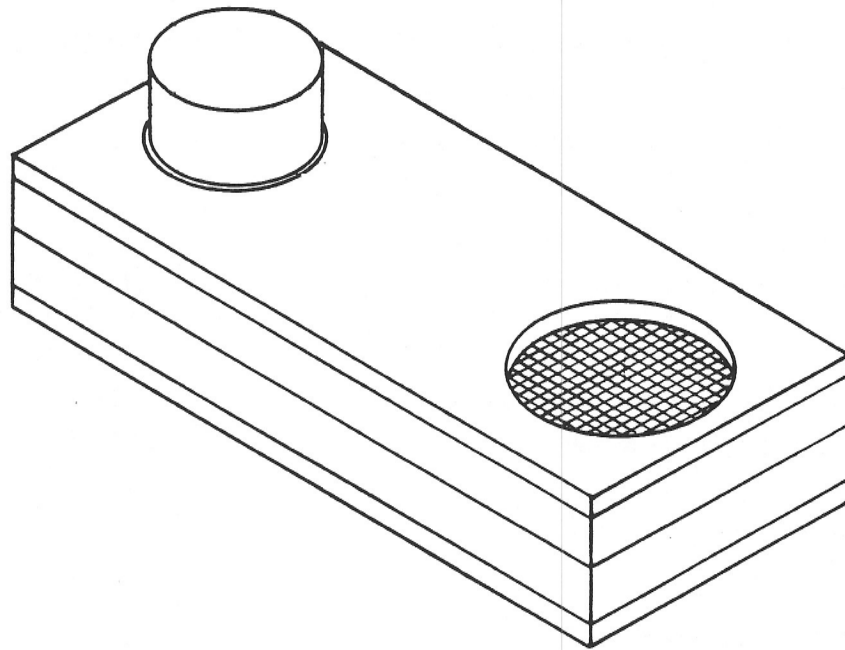


ATTENTION BUZZER WITH SWITCH

This cause-and-effect toy is a little noisy for parents, but children love pushing the button on and off to hear the loud buzz. Particularly enjoyed by children with a hearing loss, as the buzz is loud enough for them to hear.



ATTENTION BUZZER WITH SWITCH

Materials needed:

- 2 pieces 3/4" (full) x 4" x 9" pine wood
- 2 pieces 1/4" (full) x 4" x 9" pine wood (can be plywood)
- 1 switch: Radio Shack #275-1555
- 1 battery holder for 1 "D" cell: Radio Shack #270-403
- 1 Piezo buzzer: Radio Shack #273-066
- Wire: Radio Shack hook-up wire #278-1307
- Bright color Varathane or equivalent enamel
- 4 Phillips tapping screws: 1 1/2" x #6
- 1 "D" cell battery
- 3" x 3" metal screen wire
- 4" x 9" non-skid material or felt
- Plastic cap from a pressure can of spray paint or shaving cream. The smaller cap (1-7/8" diameter body) is preferred.
- Tacks or staples
- 2 round-head wood screws: 3/8" x #2

Tools needed:

- Table saw and saber saw
- Adjustable circle cutter and drill press
- Power drill and set of drill bits
- Elmer's Carpenter Wood Glue
- Sanding equipment
- Ruler
- Paintbrush
- Soldering iron and solder
- Screwdriver, etc.

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CONSTRUCTION SUGGESTIONS

Cut the wood pieces to size. On the two $\frac{3}{4}$ " thick pieces, locate and mark the square area where the battery holder will be. Drill a hole $\frac{5}{8}$ " in diameter at the corner points of the square area. Using the saber saw, cut from hole to hole around the squares of the two pieces. Then locate the centers of the holes to be cut on each side of the battery holder opening on the two $\frac{3}{4}$ " thick pieces and on one of the $\frac{1}{4}$ " thick pieces.

On the underside of the top $\frac{3}{4}$ " x 4" x 9" piece, and using an adjustable circle cutter in a drill press, drill a hole $\frac{3}{8}$ " deep and of a diameter to provide a loose fit for the plastic cap shoulder. Then adjust the circle cutter and drill the rest of the way through the $\frac{3}{4}$ " piece at a diameter to provide a loose fit for the cap body.

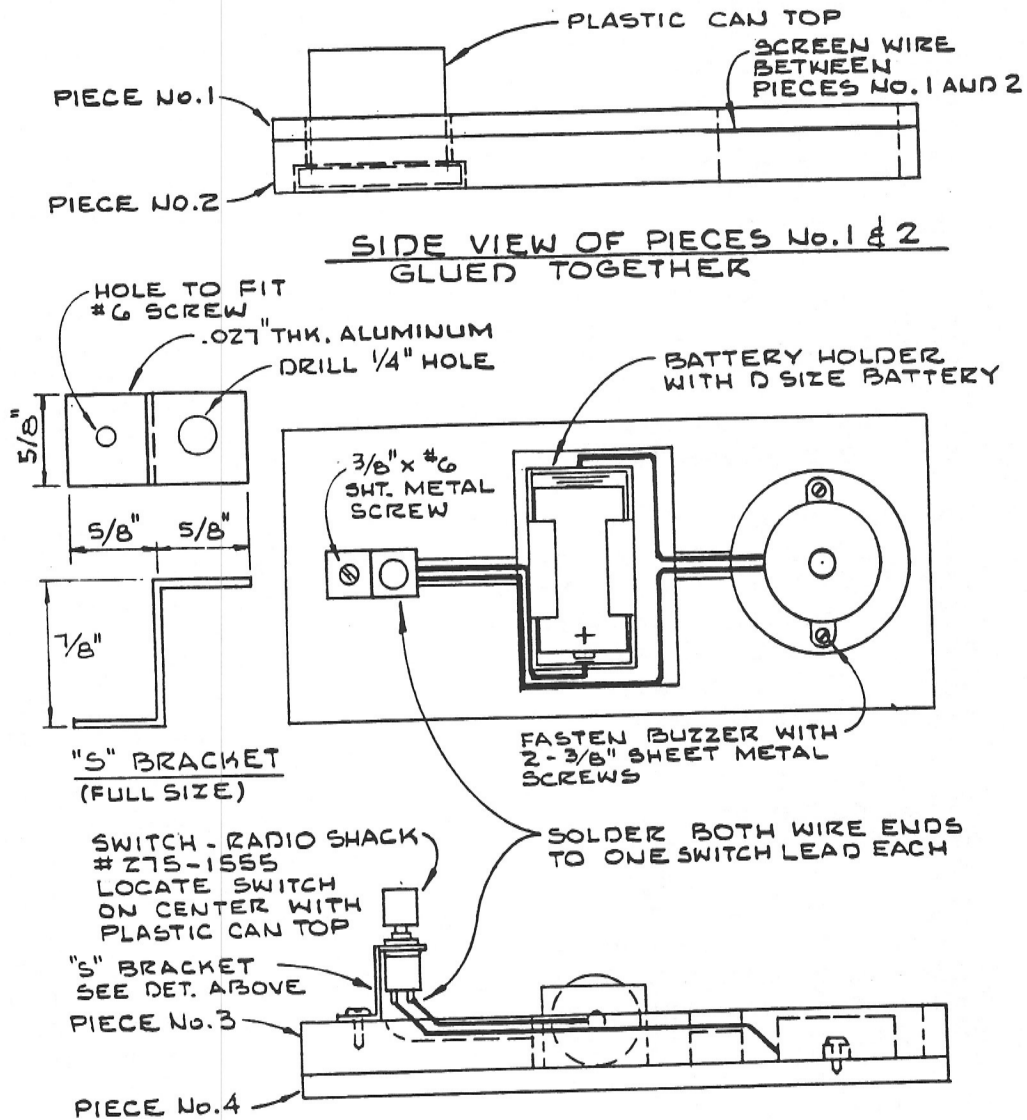
Now clamp one of the $\frac{1}{4}$ " x 4" x 9" pieces on top of the $\frac{3}{4}$ " one just drilled and drill the adjusted diameter size hole on through this piece. Move over to the other side of the battery holder opening and mark the other hole as shown on the drawing. Set the adjustable circle cutter for the $2\frac{1}{2}$ " diameter hole as shown in the drawing and drill this straight through the $\frac{1}{4}$ " top piece and both of the $\frac{3}{4}$ " pieces, clamped together.

The piece of 3" x 3" screen wire is to be cut into a disc 3" in diameter. It is to be mounted over the $2\frac{1}{2}$ " hole just drilled between the top $\frac{1}{4}$ " piece and the $\frac{3}{4}$ " piece. To do this, a small ledge of wood has to be cut from around the $2\frac{1}{2}$ " hole in the $\frac{3}{4}$ " piece. When this is done, the screen is stapled in place and the $\frac{1}{4}$ " piece is glued to the $\frac{3}{4}$ " piece. Also, the bottom $\frac{1}{4}$ " piece is glued to the other $\frac{3}{4}$ " piece and the Piezo buzzer is placed in the $2\frac{1}{2}$ " diameter hole and screwed to the bottom piece with two $\frac{3}{4}$ " x #2 round-head screws.

Cut and solder all wires as shown on the drawing.

Place the plastic cap on the switch and insert the "D"-cell battery into the battery holder. Clamp on the top and drill a hole $\frac{3}{32}$ " in diameter in each corner from the bottom up; screw the top and bottom sections together with the $1\frac{1}{2}$ " x #6 screws.

Sand overall and paint a bright color. When the paint is dry, apply either felt or another non-skid material to the bottom.

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