Things You'll Need

- Ruler
- Scissors
- Hacksaw
- Heavy duty cutters
- Drill bit
- Hot glue gun
- Soldering Iron
- All-thread rod, 5 5/8-inch long x 1/8-inch
- Two nylon lock nuts
- 5 one-inch washers, 1/8" ID
- Aluminum tubing, 1/4" ID, 6 inches
- Connector
- Solid copper wire, 12 gauge, 1 1/2-inch piece
- Pringles can
- 2 Pringles can lids

1

Wash and dry the inside of the Pringles can thoroughly. Be sure to remove any grease and salt from the inside and bottom of the Pringles can.

2

Cut the aluminum tubing into four 1.2-inch pieces using a hacksaw. It might be helpful to use a vice to hold the tubing while you cut it to protect your fingers, as long as you are careful not to bend the tubing. Make sure to cut the tubing as close to perfectly perpendicular as possible.

3

Cut the all-thread rod to exactly 5 5/8 inches using a hacksaw. This will ensure that there is enough room left for the pipe, washers and nuts. You may need to file the ends of the threads so the nut will be able to screw onto the all-thread pipe.

4

Pierce a 1/8-inch hole in the middle of the plastic lid from the Pringles can.

5

Cut the rim off the edge of a second Pringles plastic lid and poke a small hole in the center of the trimmed lid so that it will fit snugly over the aluminum tubing. You will need to trim down just enough of the edge of the lid so that it will fit snugly inside of the can.

6

Assemble the collector rod by inserting the piece of all-thread through the Pringles lid. Screw a nut on the all-thread on the portion that extends to the outside of the lid.

7

Slide a piece of aluminum tubing onto the all-thread from the opposite side of the nut. Slide a washer on next, and then another piece of aluminum tubing. Follow this with another piece of aluminum tubing.

8

Slide the trimmed Pringles lid over the third piece of aluminum tubing so that it is approximately halfway between the ends of the piece of tubing you slid the lid over. Place a washer on next, followed by the last piece of aluminum tubing. Place the last washer on after the fourth piece of tubing and tighten a nut down to hold the entire collector together.

9

Pierce a hole in the side of the Pringles can near the middle, approximately 3 3/8-inches from the bottom. The hole will need to be large enough for the connector to pass through, but not so large that the connector will fall out of the hole. It may be helpful to use a drill bit to start the hole and then widen the hole gradually.

10

Solder the heavy copper wire to the connector. When it is inside the can, the wire should be just below the midpoint of the can.

11

Insert the connector through the hole in the can and secure with glue from a hot glue gun. Allow to cool and dry.

12

Insert the rod with washers into the can and seal it with the outside plastic lid. The rod will be suspended from the lid, inside of the can. Make sure that the end of the rod does not touch the copper element inside of the can.

13

Connect your pigtail with either a male or female adapter, depending on the type of connection you have. You can begin using your Pringles can antenna immediately.

It is against the law and FCC regulations to test a homemade antenna that does not pass the FCC standards