

# SLIM JIM ANTENNA

Made from 1/2" copper pipe & elbow fittings soldered together. Use propane torch and copper pipe solder. Press fit all connections after polishing and applying flux to all pipe ends and lay flat on concrete surface to solder. Hang the end over a curb to solder it or rest entire assembly on bricks. Be sure it is flat & parallel prior to soldering.

E

Tap point for coaxial cableconnection is between 11/2 to 3 inches from the bottom. The cable shield is attached to C and the center conductor is attached to A. A VHF power meter with an SWR scale is needed for optimum tuning which is accomplished by moving the tap points up or down and checking the meter for lowest SWR. Turn on the transmitter, take a reading and note it. Turn off transmitter and move the tap points 1/2" up or down. If the reading is lower keeping repeating 1/4" movements in the same direction (reverse direction if reading is higher) until the lowest reading is obtained. See the next page for attachment details.

## Cutting Table

$$A = 5610/f + 2805/f$$

$$B = (144/\lambda) * 1.5$$

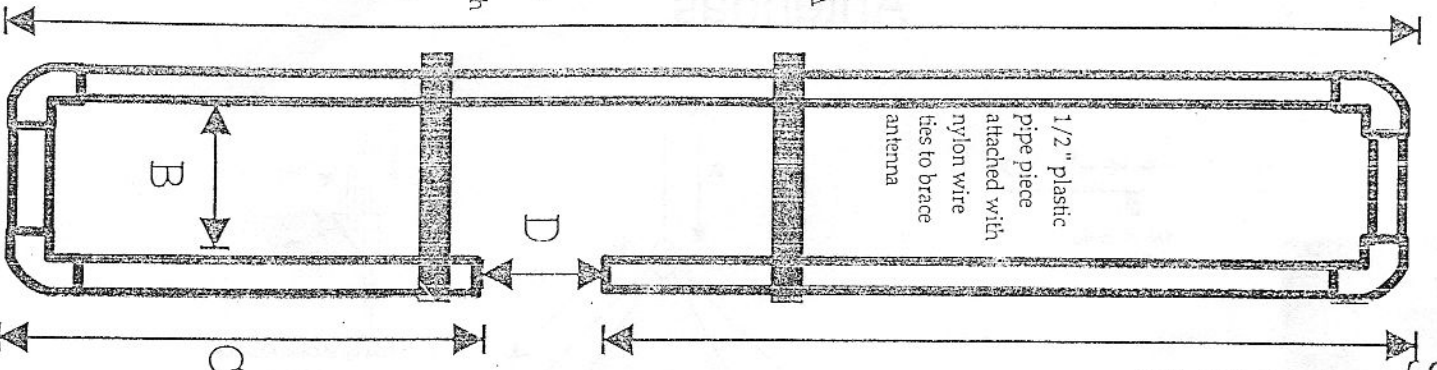
$$C = 2805/f$$

$$D = B$$

$$E = (5610/\lambda) - B$$

Results are in inches,  
f = the desired operating  
frequency in megahertz  
ie. 88.1

1/2" plastic pipe piece attached with nylon wire ties to brace antenna



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Attachment details

RG 58 or RG 8 Cable  
Use the center conductor only, strip the outer braid back. Solder one end to the center pin of the SO-239 and place the other end under the hose clamp

1/2" hose clamp

SO-239 UHF Panel connector

The clamps can be slid up and down to find the best matching point for the antenna

1 inch hose clamp with SO-239 attached to tail of clamp, enlarge slots on clamp tail to attach the panel connector.

