

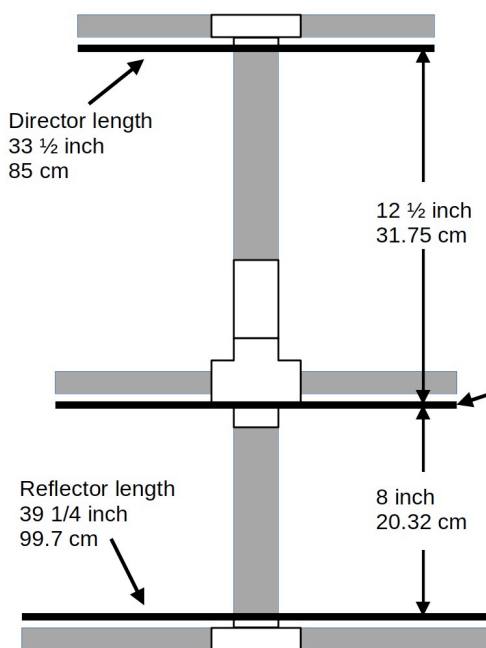
2 Meter Yagi a la Kevin Loughlin KB9RLW

Materials

- ❑ Window line
- ❑ Schedule 40 pvc pipe 1/2 inch for the elements
- ❑ Schedule 40 pvc pipe 3/4 inch for the boom
- ❑ 3 – 3/4 inch to 1/2 inch tees
- ❑ 1 – 4-way cross piece junction of 3/4 inch
- ❑ 2 – bushings to go from 3/4 inch to 1/2 inch at the driven element
- ❑ 24 – stainless steel sheet metal screws 3/8 inch

Procedure

- ❑ Step 1. Window line mounted against the pvc using stainless steel sheet metal screws.



Director and reflector elements trimmed to pass around boom. All element ends have the windowline shorted as shown.

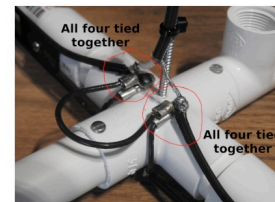


Driven element, overall end to end length, 34 5/8 inches 87.95cm
Cut at center with 1 inch or 2.54 cm gap on top.
The bottom cut to reach the connection screws, also 1 inch apart.



Top side of driven element showing 1 inch or 2.54 cm gap with wires connected down to hairpin and coax connection

Durable 2 meter Yagi by KB9RLW
Boom is 3/4 inch PVC pipe. Cut boom pieces to obtain the proper distance between the window line elements. I used 1/2 inch PVC for the element support pieces. Adapters and bushings for the driven element support pieces into the 3/4 inch cross piece. The director and reflector supports use a 3/4 to 1/2 inch T piece. Additionally, a 3/4 hanger piece is used for the mast connection to allow rotating the beam horizontal or vertical.



Bottom side of driven element showing wires from top side, wires from bottom side, hairpin, and coax connection.

The hairpin wire is 5 inches or 12.7cm length of solid copper wire. Note, measure the hairpin length from screw hole to screw hole taking into account the length of the eyelet if used.

A long screw provides strain relief and stands the coax off the beam when vertical.

Window line:

I suggest first cutting three lengths of window line, using the lengths specified in the drawing. Then fit them against the element supports, trimming out the middle part where the window line wires go around the boom. Once that's done, short the ends as shown before mounting them to the supports. Make sure they are perfectly centered on the supports with exactly the same distance from the center of the boom to each end of the element.

Video

<https://www.youtube.com/watch?v=hh9beU335s4&t=43s>