

Table 1. 144 MHz

# of Elements		Reflector	Driven Element	D1	Directors D2	D3	D4
3	Length	41.0	*	37.0			
	Spacing	0	8.5	20.0			
4	Length	41.0	*	37.5	33.0		
	Spacing	0	8.5	19.25	40.5		
6	Length	40.5	*	37.5	36.5	36.5	32.75
	Spacing	0	7.5	16.5	34.0	52.0	70.0

\*See Figure 2 for details on Driven Element (DE) dimensions

Table 1. Element dimensions and spacing for the 2-meter "Cheap Yagi." All dimensions are in inches. Spacings are all from zero; NOT the closest element. Reflector and directors are made out of  $3/16$ -inch diameter material. If you can't find  $3/16$ -inch diameter material and want to use  $1/8$ -inch material for the elements, you need to make the  $1/8$ -inch elements .25 inch longer to compensate for the smaller element material.

Readers. Using PVC pipe for the boom has been a common question. Personally, I've had better luck keeping wood in the air for years than keeping PVC pipe in the air. But as long as you use smaller diameters (I don't recommend 3- or 4-inch pipe for the boom), it will work fine.

A few of you have asked about using metal booms. I'll be talking more about metal booms in future columns, but how the element is attached to the boom, the diameter of the boom, hardware, and even the plastic used in insulated elements, all affect the length of each element. So I've avoided metal boom antennas up to this point. They're more

complicated and you have to be very careful to duplicate the design exactly.

## Entrepreneurial Spirit

I was at a hamfest in Belton, Texas, a few months ago and there was an enterprising lad selling 450-MHz versions of my Simple Yagi for \$25 each (at \$25, I didn't feel Cheap Yagi was the proper name anymore). It looked like he did a pretty good business. I kind of asked him how he had the spunk to sell antennas that cost him \$2 to make for \$25. He just grinned. I don't think he ever figured out that he was chatting with the designer.

Driven Element Detail  
(Not to Scale)

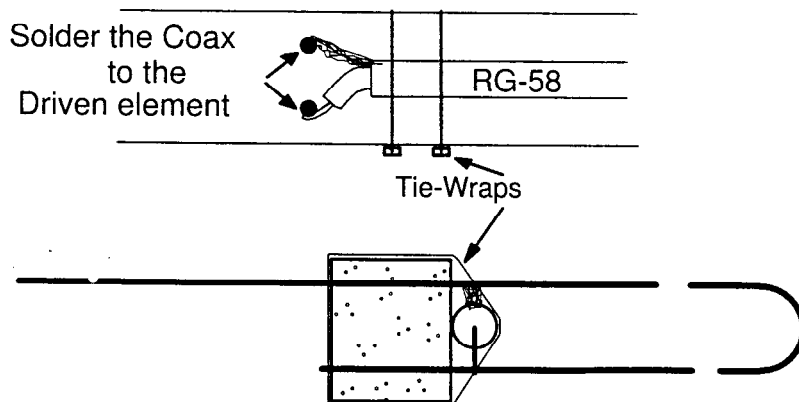


Figure 1. We're not going to repeat August's photo of attaching the coax to the driven element of the Cheap Yagi, so if you can't figure it out from this diagram, you'll have to go dig up your copy of the August issue. The article starts on page 57.

## RADIO DEPOT

does

ALINCO  
ELECTRONICS INC.

KENWOOD

STANDARD

ICOM YAESU

ADI ASTRON BENCHER  
CUSHCRAFT HEIL JPS  
KANTRONICS LARSEN MAHA  
MALDOL MIRAGE MFJ  
AND MORE

1-800-291-9067

(360)377-9067 Local/Info

Competitive prices • Friendly service  
Prompt shipping at reasonable cost

2135 Sheridan Rd A  
Bremerton, WA 98310

Open Mon.-Sat.

10:00am-6:00pm Pacific

CIRCLE 73 ON READER SERVICE CARD

## INSURANCE

for  
AMATEURS

Insure all your radio and  
computer equipment.  
(except towers and antennas)

HAMSURE

E Mail: hamsure@ameritech.net  
www.ameritech.net/users/hamsure/  
hamsure.html

800-988-7702

Available only in 48 contiguous US

Discount for AARA members

CIRCLE 87 ON READER SERVICE CARD



If you're planning a move in the near future, don't risk missing an issue of CQ VHF Magazine. Please give us 6-8 weeks notice if you're planning on changing your address. Just write your new address and mail it, WITH YOUR SUBSCRIPTION MAILING LABEL, to:

CQ VHF Magazine  
25 Newbridge Road, Hicksville, NY 11801

## YAGI SPOKEN HERE

Directive Systems, the leader in design, construction, sales, and worldwide distribution of loop yagi antennas is now producing the incomparable K1FO yagi with models for 144, 222, 432 MHz & ATV

Let us direct your signals forward with total performance.

Write or call for a brochure

WE DIRECT RF

DIRECTIVE SYSTEMS

RR#1 Box 282 Dixon Road  
Lebanon, ME 04027

Tel: (207) 658-7758 Fax: (207) 658-4337

e-mail: K1WHS@worldpath.net

CIRCLE 65 ON READER SERVICE CARD