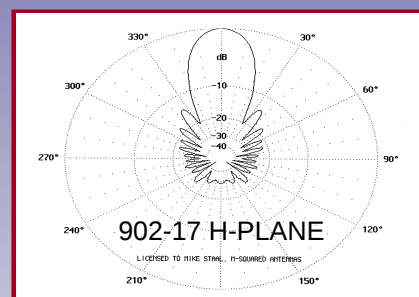
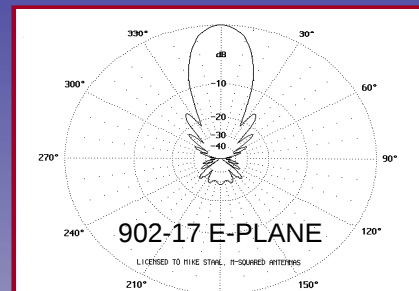
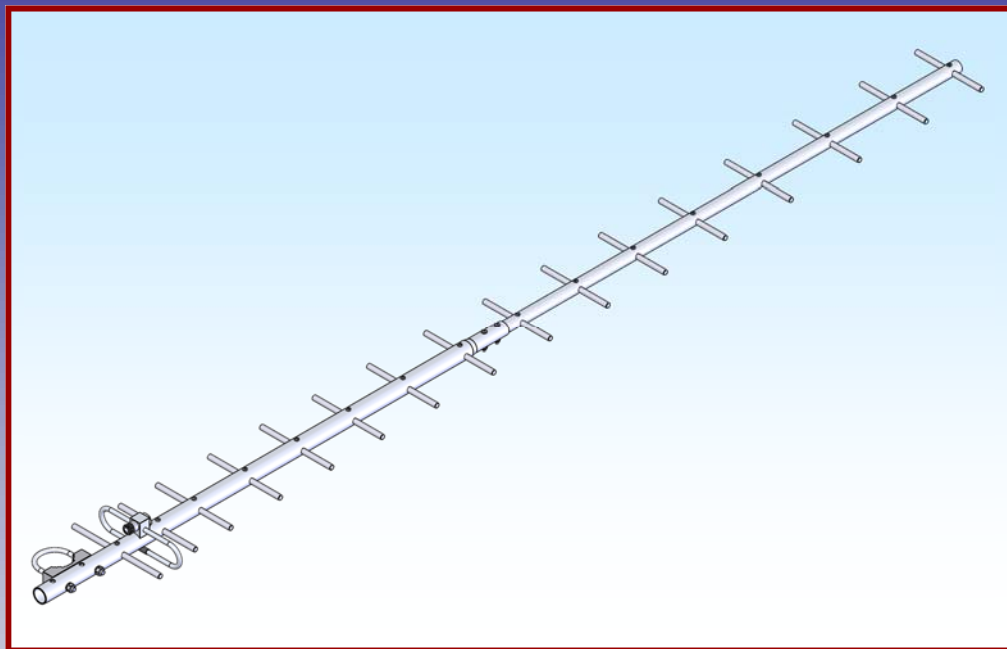




M2 Antenna Systems, Inc.

Model No: 902-17



SPECIFICATIONS:

Model 902-17
 Frequency Range 900 To 930 MHz
 Usable Range 880-940 MHz
 *Gain 17 dBi
 Front to back 25 dB
 Beamwidth E=23° H=26°
 Feed type Folded Dipole
 Feed Impedance 50 Ohms Unbalanced
 VSWR 1.2:1 Typical

Input Connector "N" Female
 Polarity VERT / HORZ
 Power Handling 500 Watts
 Boom Length / Dia 74" / 1" TO 3/4"
 Stacking Distance 28"
 Mast Size 1-1/4" to 2"
 Wind area / Survival 0.4 Sq. Ft. / 100MPH
 Weight / Ship Wt. 4 Lbs. / 5 Lbs.

***Subtract 2.14 from dBi for dBd**

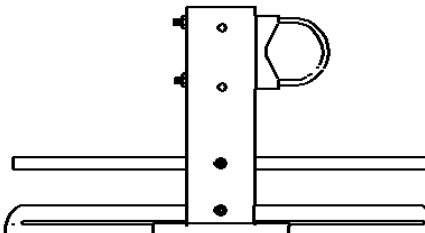
FEATURES:

This versatile antenna represents the latest computer design and features. The 902-17 is manufactured by a new CNC computer controlled machine capable of duplicating the exact performance every time. No measuring is required by the end user do to a completely assembled antenna from the factory. **The new 5/16" element design decreases the effects of rain and light snow deterioration often seen in similar antennas.**

The antenna separates into two sections for ease of transport for mountain topping or remote area contest stations. The clean, rugged weather proof dipole driven element provides a virtual flat match for over 40 MHz.

902-17 DIMENSION SHEET

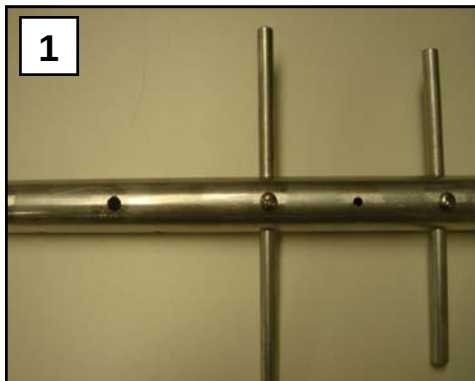
DECIMAL TO FRACTION CONVERSION
.062 = 1/16
.125 = 1/8
.188 = 3/16
.250 = 1/4
.313 = 5/16
.375 = 3/8
.437 = 7/16
.500 = 1/2
.562 = 9/16
.625 = 5/8
.688 = 11/16
.750 = 3/4
.813 = 13/16
.875 = 7/8
.937 = 15/16

ELEMENT SPACING		ELEMENT LENGTH
0.00		6.688
1.580		
3.160		5.875
5.984		5.750
9.933		5.532
13.948		5.464
17.962		5.330
22.190		5.330
26.609		5.330
31.089		5.125
35.608		5.062
40.067		5.062
44.716		5.062
49.828		5.062
59.130		5.062
60.316		5.062
64.616		5.062



902-17 ASSEMBLY MANUAL

Tools handy for assembly process: Phillips head screwdriver, 11/32" spin-tite or socket, 7/16" end wrench or socket. The elements of the antenna are pre-assembled from the factory.



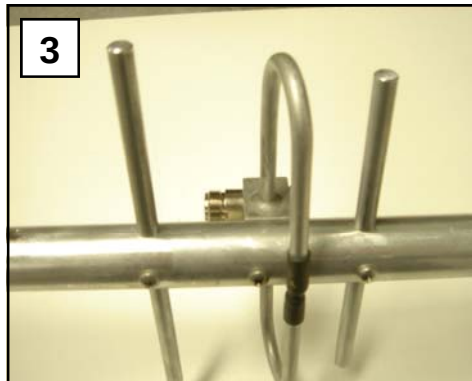
Step 1:

Start with the rear boom section (1" x 36") assembly.



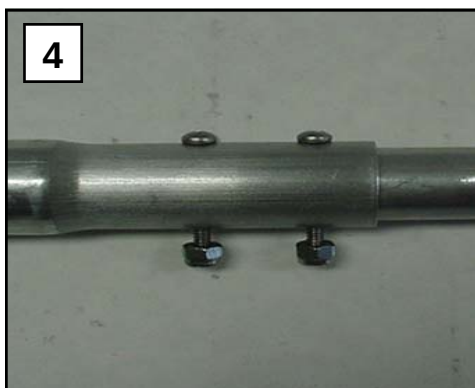
Step 2:

Attach the folded dipole to the rear boom section by sliding the unit back and forth until it is in place.



Step 3:

Attach the driven dipole with a single 8-32 x 1 1/4" screw.



Step 4:

Attach the rear boom section to the front boom section using the supplied 8-32 x 1 1/4" screws and nylock nuts.



Step 5:

Attach the mounting U-bolt and Cradle in the correct polarity holes. Use the two 1/4-20 hex nuts and lock washers. It is highly recommended to use a lubricant like WD-40 on the threads of the U-bolt. Stainless material will seize if not lubricated.

902-17 PARTS & HARDWARE

DESCRIPTION.....	QTY
BOOM, 1.0" X .058 X 36.00 SOE	1
BOOM, 3/4" X .049 X 37.75	1
ELEMENTS, 5/16" (INSTALLED).....	16
FOLDED DIPOLE ASSEMBLY	1
UNI CRADLE, (M2AMC0070)	1
U-BOLT, 2"	1
ASSEMBLY MANUAL	1

IN HARDWARE BAGS:

NUT, 1/4-20, SS	2
LOCKWASHER, 1/4" SPLIT RING SS	2
SCREW, 8-32 X 1-1/4", SS	3
LOCKNUT, 8-32, SS	2

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