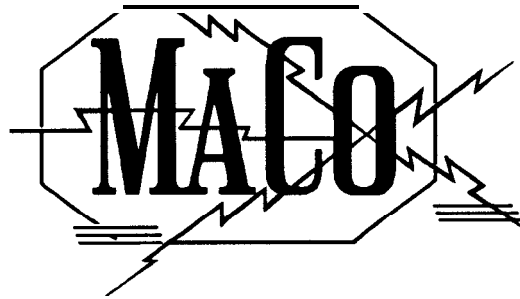
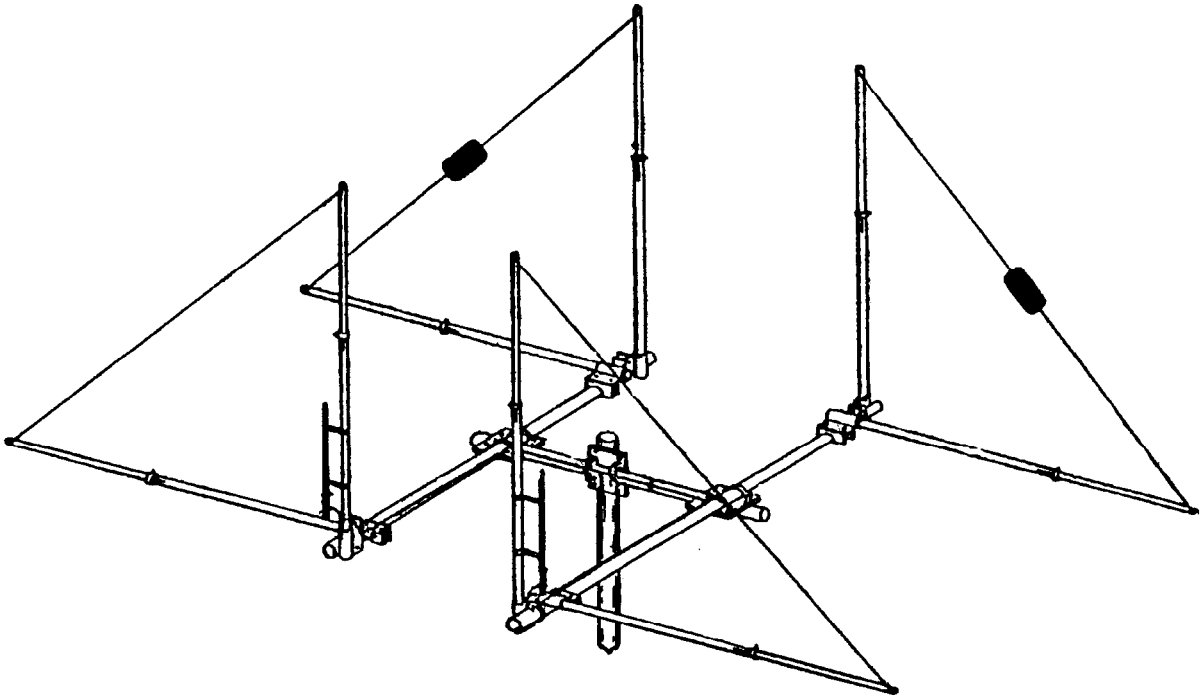


# ASSEMBLY INSTRUCTIONS



## V-QUAD STACKING KIT



## VQ2SK

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*Maco Manufacturing Co. - Division of Majestic Communications, Inc.  
4091 Viscount - Memphis, Tennessee 38118 (901) 794-9494*

# MACO VQ2SK

## PARTS LIST

<u>PART</u>	<u>QTY</u>	<u>O.D.</u>	<u>SIZE</u>	<u>N</u>	<u>G</u>	<u>T</u>	<u>H</u>	<u>DESCRIPTION</u>	<u>CHECKLIST</u>
T28	1	1 1/2"	.047"				72"	ALUM. TUBING	_____
T60	1	1 1/2"	.047"				72"	ALUM. TUBING -SWAGED ONE END 24" TO 1.370" DIE #6	_____
WH1	1							PHASING HARNESS	_____
PO3	1			5"x 1/4"			5"	PLATE - 1 1/2" BOOM TO 1 1/2" MAST	_____
<u>HARDWARE BAG</u>									
uo2	4						1 1/2"	PLATED U-BOLTS	_____
so2	4						1 1/2"	PLATED SADDLES	_____
NO1	8						5/16"	HEX NUTS	_____
NO2	8						5/16"	LOCK WASHERS	_____
	1							SET OF INSTRUCTIONS	_____

WHEN ORDERING REPLACEMENT PARTS, ALWAYS GIVE PART NUMBER AND DESCRIPTION.

PLEASE NOTE: In an effort to keep the price on Maco Antennas down, we have decided not to clean up all the burrs and rough edges on the parts. We recommend that you deburr and clean up each part with files, sandpaper, etc. so that they go together easily. We are aware this needs to be done, but have elected not to do it to save you the money we would have to add to the price of the kit for this service.

MACO MANUFACTURING, 4091 VISCOUNT AVE., MEMPHIS, TN 38118  
For parts or information call (901) 794-9494.

**VQ2SK**

# VQ2SK

## ASSEMBLY INSTRUCTIONS

### FIGURE 1

Slide the swaged end of 1 1/2" O.D. tubing into one end of the other 1 1/2" O.D. section. Adjust for a total boom length of 10 feet.

### FIGURE 2

Center the plate on the coupled sections and attach with the 1 1/2" U-bolts and saddles and 5/16" lockwashers and hex nuts. Avoid over-tightening the U-bolts in order to not crush and weaken the boom.

### FIGURE 3

On one of the V-Quads, the gamma match will have to be moved across to it's partner element. Reassemble that gamma match so that both gamma matches will be in the vertical position, as shown.

Install both V-Quads on the stacking boom as shown in the drawing.

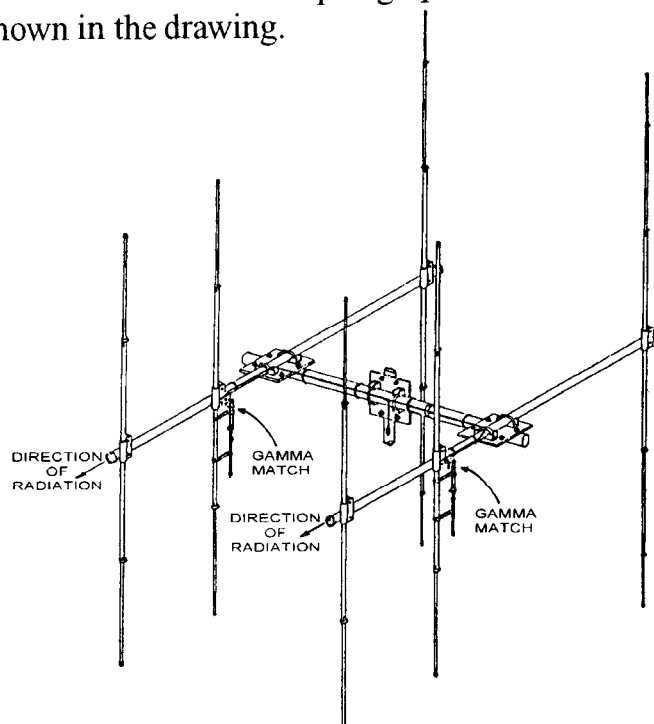
Connect the two PL-259's to the two SO-239's at the gamma matches, and tape the coax. harness to the boom, as shown in Fig. 2.

Any length of RG-8 or RG-58 coax. cable may be used between the antenna phasing harness and the transmitter. For the best all around performance mount the VQ2 antennas in the vertical and horizontal position as shown in Fig. 3. Also, the gamma matches must be in the vertical position as shown on the drawing.

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### M103C STACKING

A pair of M103C's may be stacked by using the VQ2 Stacking Kit. Simply follow the assembly instructions given for the VQ2 Stacking Kit and disregard the first two paragraphs of the step labeled "Fig. 3". Continue with the paragraph "Connect the two PL-259's -----". Orient the gamma match as shown in the drawing.



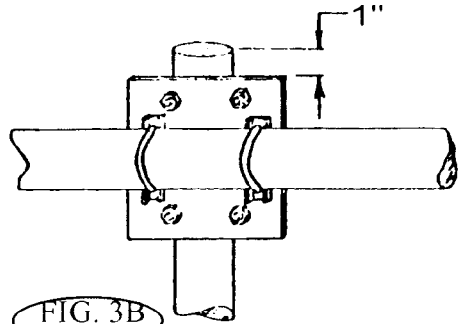


FIG. 3B

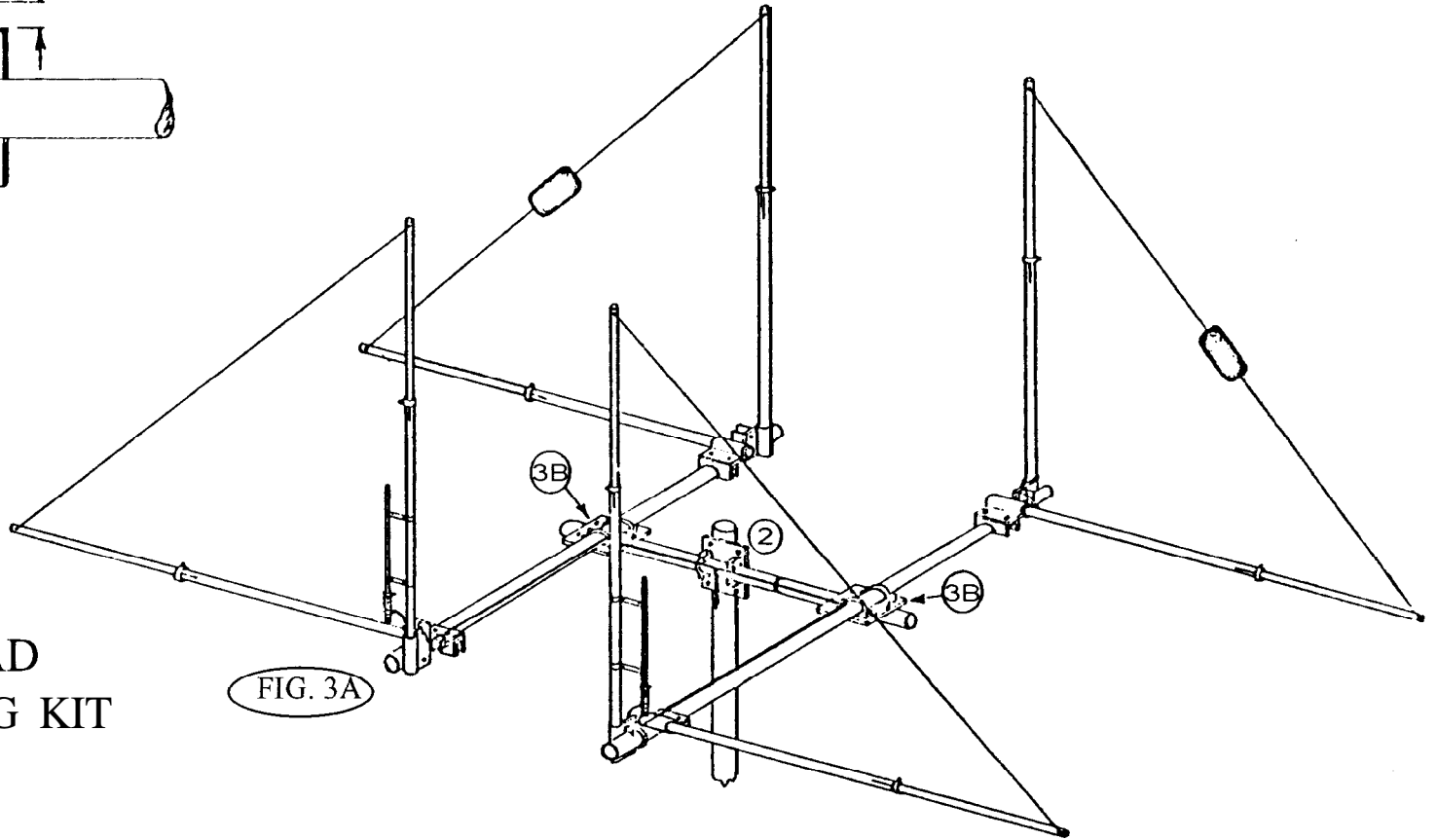
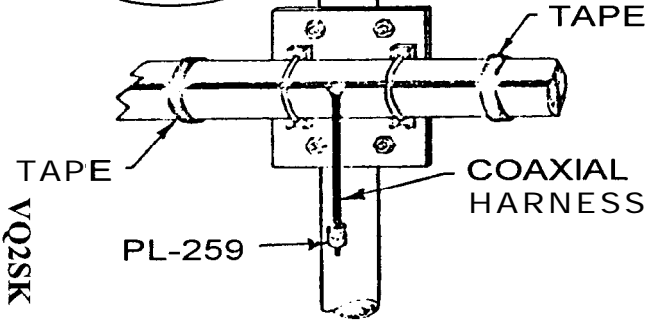


FIG. 3A

### V-QUAD STACKING KIT

FIG. 2



VQ2SK

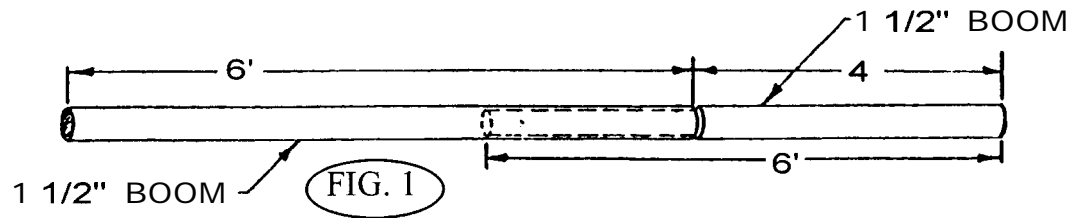


FIG. 1

VQ2SK