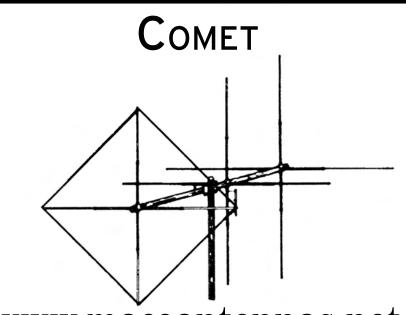
ASSEMBLY INSTRUCTIONS



6 ELEMENT - 11 METER SWITCHABLE POLARITY



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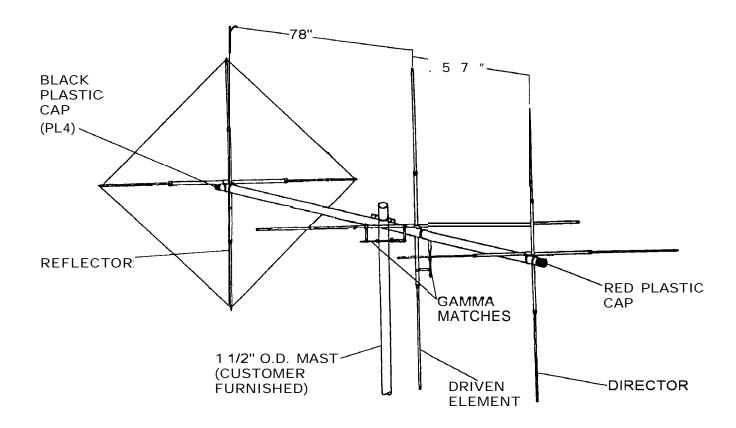
MaCo Antennas, A Division of Charles Electronics, LLC 302 S. East Street, Mt. Carroll, IL 61053

MACO COMET

PACKING LIST

PART QTY	<u>OD</u>	SIZE	<u>LENGTH</u>	<u>DESCRIPTION</u>	CHECKLIST
T59P 1 T28 1 T11P 6 T01 8 P01P 1 W04P 1 FA1P 4 G01P 2 Z08P 4 S42 2	1 ½" 1 ½" 5/8" ½"	.050" .050" .050" .050" .050" 1/4" x 5	72" 72" 72" 72" 5" 40" 48"	ALUM. TUBING SWAGED ONE END ALUMINUM TUBING ALUM. TUBING SLOTTED BOTH ENDS ALUMINUM TUBING 1 ½" BOOM TO 1 ½" MAST PIPE COPPER WIRE FIBERGLAS RODS 11 METER GAMMA MATCHES GAMMA STRAPS W/COAX CONNECTOR COAX CONNECTOR W/MOUNTING NUT	
U02 10 S02 10 N03 20		1 ½" 1 ½" 5/16"		HARDWARE BAG #1 PLATED U-BOLTS PLATED SADDLES LOCK NUTS	
BE1P 6 W58P 12 PL2 8 PL4R 1 PL4B 1 S21 13 N11 13 N12 7 N26 7 Z02P 4		1 ½" 5/8" .437" 1 ½" 1 ½" 10-24 10-24 #10 #10	1/2"	HARDWARE BAG #2 BOOM TO ELEMENT MOUNT ALUMINUM CLAMPS PLASTIC CAPS – BLACK PLASTIC CAP – RED PLASTIC CAP – BLACK MACHINE SCREWS SQUARE NUTS LOCK WASHERS FLAT WASHERS GAMMA STRAPS FIBERGLASS ROD KIT (4 SCREWS) WARRANTY SHEET INSTRUCTION SHEET TIP SHEET	

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.

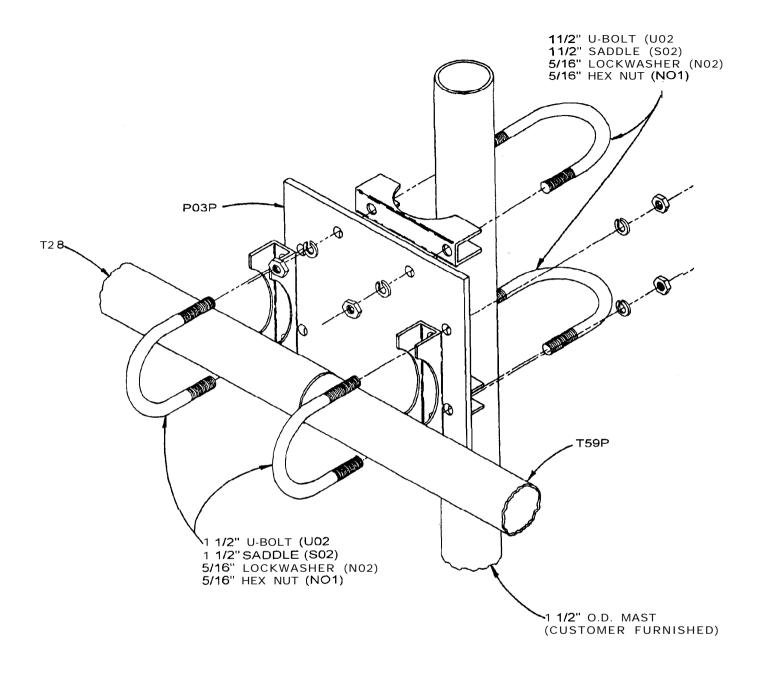


This figure shows what the antenna should look like when assembled. Specific assembly details are shown on following pages. All hardware should be tightened securely, and then coated with silicon rubber sealant or similar compound to prevent loosing from wind vibration .

Take care to locate all parts accurately per dimensions given. Complete each step as instructed before going onto the following steps.

After completing assembly, install red plastic cap (PL4R) on the director end of the boom, and the black plastic cap (PL4B) on the reflector end. This will enable you to tell at a glance the direction of transmit and receive.

COMET 2



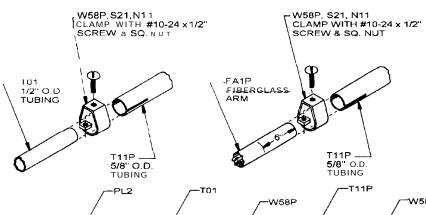
To assemble the boom slide the swaged ends of the boom section (T59P)0.152m into the boom section (T28)

Mount the boom-to-mast plate (PO3P) to the boom using the 1 1/2" U-bolts, 1 1/2" saddles, and hardware shown.

This antenna is designed for mounting on a 1 1/2" O.D. mast. Mount using 1 1/2" U-bolts, 1 1/2' saddles, and hardware as shown.

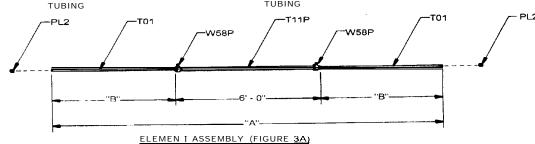
3 COMET

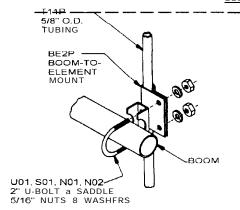
Please read the Assembly and Troubleshooting Tips at the end of this instruction booklet before assembling elements.

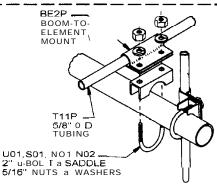


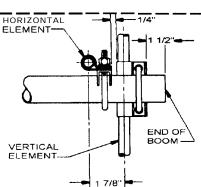
	DIMENSION		
ELEMENT	A	В	
DRIVEN	209"	68 1/2"	
DIRECTOR	204"	66"	
REFLECTOR	161 1/2"	44 3/4"	

REFLECTOR DIMENSIONS ARE ONLY PRELIMINARY. Chance to **GET** Equal **SIDES** of 9' 6". **FIBERGLASS** LENGTH IS NOT CRITICAL, HOWEVER, THE EQUAL WIRE LENGTH OF 9'6" IS VERY CRITICAL









HORIZONTAL ELEMENT MOUNTING

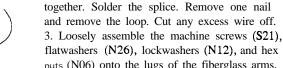
FIBERGLASS ROD **ELEMENT SPACING**

(FIGURE 3B)

60

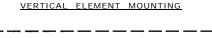
The length of the reflector wire is very critical. It must be the correct length to operate correctly. Take the wire (WO4P) and uncoil it making sure that there are no kinks; secure it to a nail. Pull the wire until it stretches an inch or so. The easy way to get the correct length for the reflector loop is as follows

- 1. Drive 2 nails in a board or fence 1/2 the length of the loop apart --which is 228" (5.790m) between them.
- 2. Stretch the wire around the nails by hand as tightly as possible and splice ends



- nuts (N06) onto the lugs of the fiberglass arms, adjusting the length as shown.
- 4. Tighten 3 of the 4 clamps that hold the fiberglass rods.
- 5. Install the wire as shown.
- 6. Tighten the wire by pulling the fourth

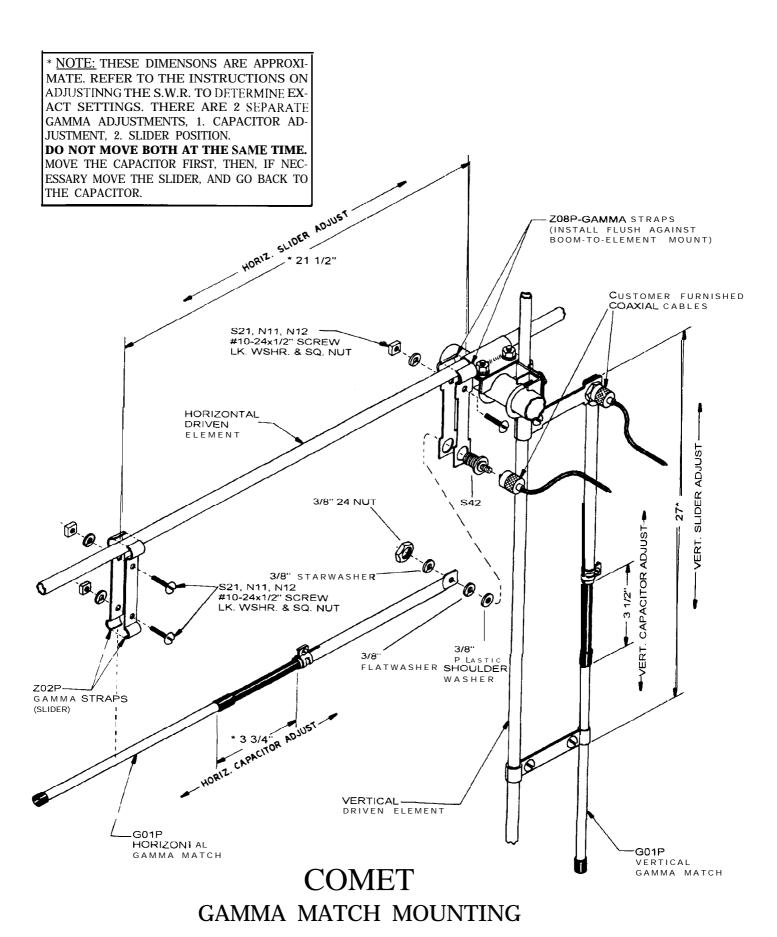
fiberglass rod until the wire is the same tightness as it was around the nails. The wire loop is now the correct length. Reflector dimensions are only preliminary. Change to get equal sides OF 9' 6''. Fiberglass length is not critical, however, the equal WIRE LENGTH OF 9' 6" IS VWY CRITICAL. 4



\$21,N11, N12, N26, #10-24 x 1/2" SCREW FLT. WHSR., LK. WSHR. & SQ. NUT `9'-6" 4 EQUAL SIDES REFLECTOR WIRE TWIST ENDS TOGETHER & SOLDER) VERÝ CRITICAL

FIGURE 3C

COMET





Caution:

Take Care To Avoid Any Contact With Overhead Powerlines When Raising, Installing, or Repairing Your Antenna, Tower, or Rotor. Death Will Occur!

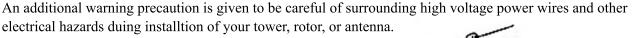


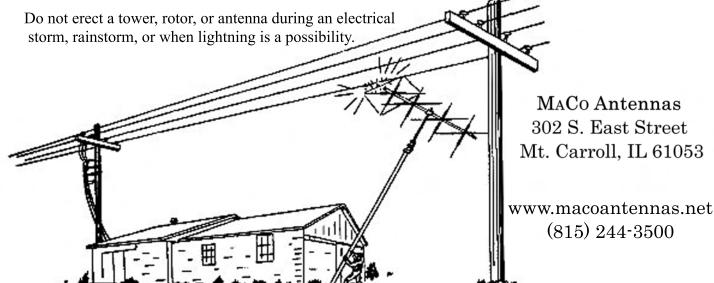
Installing and rigging towers, masts and antennas require specialized skills and experience. Information supplied by MaCo assumes that all products will be installed by personnel having these skills and have installed similar products before. No one should attempt to install towers or masts without these knowledgeable skills.

MaCo assumes no liability if faulty or dangerous installation practices are used. There are available, trained and experienced personnel to assist in installation, maintenance, or dissassembly. Contact your local installer if consultation or assistance is required.

All tower and antenna installations should be throughly inspected at least twice a year by qualified, experienced, and trained personnel to insure proper performance and safety standards.

Electrical Warning





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