

# ASSEMBLY INSTRUCTIONS



Your new MaCo 105HV MaxiBeam is a new innovation in base station beam design which enables the vertical and horizontal to be assembled for either 10 or 11 meters.

For example, using the charts supplied, you can assembled the horizontal for 11 meters and the vertical for 10 meters or reverse this or assemble both the same. It does not matter. The vertical and the horizontal do not affect each other.

The only difference between the HV Beams and the instructions included is that the HV Beam has both sets of elements on the same boom.

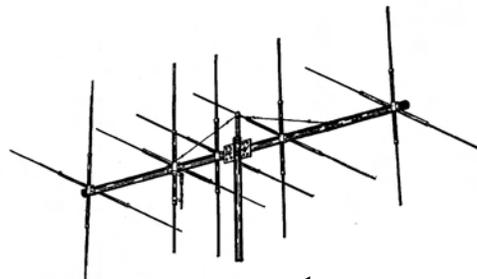
**Please add the following instructions to those supplied:**

Mount the first reflector with the U-Bolt facing the rear. Mount its mate with the U-Bolt facing the front of the beam. This is so the vertical and horizontal elements will be close together.

Do the same with all elements and measure the spacing only once per set of elements.

That's it. Have at it!

If you have any questions or need assistance please call. We're here to help!



[www.macoantennas.net](http://www.macoantennas.net)

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

# MACO M105HV

## PACKING LIST

<u>PART</u>	<u>QTY</u>	<u>OD</u>	<u>SIZE</u>	<u>LENGTH</u>	<u>DESCRIPTION</u>	<u>CHECKLIST</u>
T52	2	2"	.060"	80"	ALUM. TUBING SLOTTED ONE END	_____
T53P	1	1.845"	.060"	80"	ALUMINUM TUBING	_____
T32P	2	2"	.060"	80"	ALUM. TUBING SWAGED ONE END 6" (DIE #2-1.835")	_____
PO3P	1		¼"x6"	8"	PLATE 2" BOOM TO 2" MAST	_____
T11P	10	5/8"	.050"	72"	ALUM. TUBING SLOTTED BOTH ENDS	_____
T04P	4	½"	.050"	80.5"	ALUMINUM TUBING	_____
T01	16	½"	.050"	72"	ALUMINUM TUBING	_____
V01P	1		1"x1"	18"	VERTICAL GUY SUPPORT	_____
WD2P	1		6/18	25'	STEEL GUY CABLE	_____
G01P	2				GAMMA MATCH	_____
Z08P	4				GAMMA STRAPS F/COAX CONNECTORS	_____
S42	2				FEMALE COAX CONN. W/MOUNTING NUT	_____

### HARDWARE BAG #1

U01	21		2"		PLATED U-BOLTS	_____
S01	21		2"		PLATED SADDLES	_____
N03	44		5/16"		LOCK NUTS	_____

### HARDWARE BAG #2

BE2P	10		2"		BOOM TO ELEMENT MOUNTS	_____
W58P	20		5/8"		EXTRUDED ALUMINUM CLAMPS	_____
S21	25		10-24	½"	MACHINE SCREWS	_____
PL2	20		.437		PLASTIC CAPS – BLACK	_____
N11	25		10-24		SQUARE NUTS	_____
N18	2		5/16"		EYEBOLTS – WITH (4) NO1	_____
PL5R	1		2"		PLASTIC CAP – RED	_____
PL5	1		2"		PLASTIC CAP – BLACK	_____
EG2	4				EGG INSULATORS	_____
N12	6		#10		LOCK WASHERS	_____
Z02P	4				GAMMA STRAPS	_____
	1				TIP SHEET	_____
	1				WARRANTY SHEET	_____
	1				INSTRUCTIONS	_____

WHEN ORDERING 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.

**DANGER**

**High Voltage  
Overhead**

**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 disassembly. Contact your local installer if consultation or assistance is required.

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

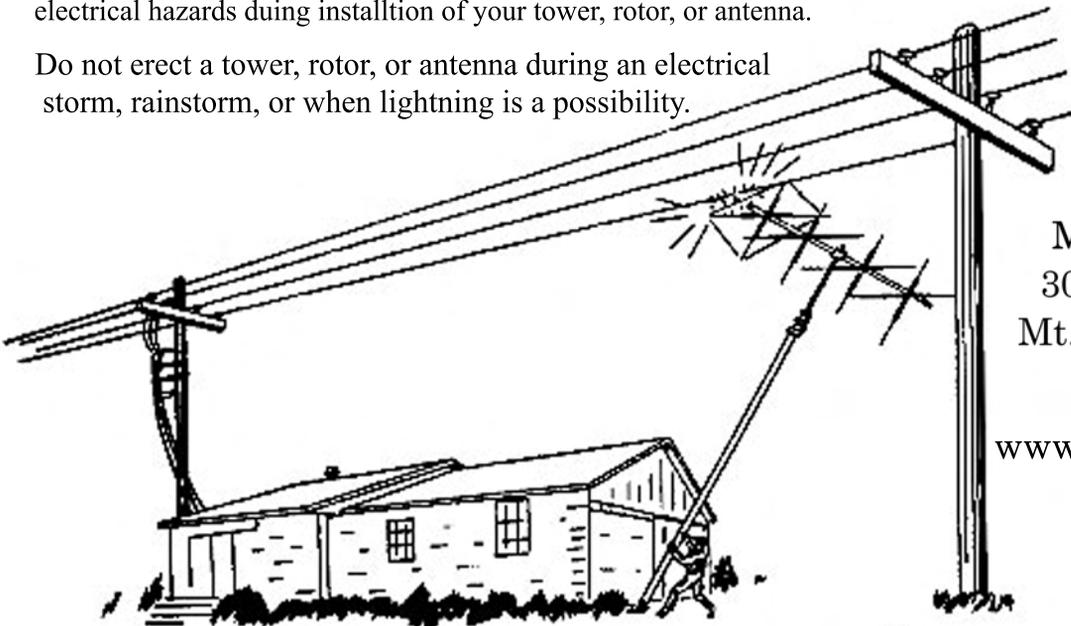
### Electrical Warning

An additional warning precaution is given to be careful of surrounding high voltage power wires and other electrical hazards during installation of your tower, rotor, or antenna.

Do not erect a tower, rotor, or antenna during an electrical storm, rainstorm, or when lightning is a possibility.



**Danger of  
Death**



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