

80 METER INSTALLATION - ATTACHMENT

INTERNATIONAL ANTENNA COMPANY

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You are the proud owner of the new **DOUBLE BAZOOKA ANTENNA**. The first thing to do is to consider which direction you want your maximum signal to radiate. The Antenna tends to be omni-directional, however, the largest lobes radiate from the sides. If you want your maximum signal to radiate North and South, extend the ends East and West. The antenna should be mounted in an inverted "V" configuration for the best results. The apex should be 40 to 60 feet above ground. However, the antenna can be installed as a horizontal dipole with equally good performance.

Mounting on a push up pole or tower is easiest. Suspend the apex of the antenna from the eyehook provided at the center of the "T" mold. Next, extend the ends of the antenna outward and downward so the antenna forms an upside down "V". Mount the ends at least 15 to 20 feet above the ground forming an angle of no less 120 degrees from horizontal. Were horizontal would be 180 degrees. The ends may be fastened with cord to poles or whatever, using proper safety rules in safeguarding that persons, pets, and other objects cannot come in contact with any of the elements as shock hazards or RF burns could result.

- **Whenever connecting the ends of the antenna to an object it is recommended that tension relief "springs" be installed to compensate for any movement of the antenna or connecting object such as a tree.**
- **If mounting the antenna as a horizontal dipole without a center support it is recommended to use a messenger line to reduce the strain on the antenna. A messenger (nylon cord line) should be installed from one mounting end through the center eyehook to the other mounting end.**

After mounting, connect a 50 ohm feed line such as RG-58, RG-8 or RG-213 coax to the antenna and your transmitter. Carefully load the transmitter into a dummy load (not provided). Then with a very low amount of output power applied to the antenna at your desired frequency, measure the SWR. The antenna should exhibit an SWR of less than 2:1 across 350 kHz of the 80 meter band as an inverted "V". As a horizontal dipole the SWR should be less than 2:1 across the entire 80 meter band. The antenna is cut for the CW portion of the band from the factory so further adjustment is optional.

DO NOT ATTEMPT TO MEASURE THE SWR USING AN ANTENNA ANALYSER. ANTENNA ANALYSERS MAY GIVE FALSE SWR MEASUREMENTS ON THE DOUBLE BAZOOKA ANTENNA.

To lower the SWR, fold the 300-ohm twin lead back on itself 12 inches at a time ensuring it is flat on itself with no gaps equally on each side. The fold of 12, 24, 36 or 48 inches must be done in a **single fold over**. This procedure will raise the operating frequency of the CW portion of the band. Once the lowest SWR is obtained tie wrap the folded end securely to retain its position. If you measure a higher SWR, make sure that the antenna is not near or touching any metal objects such as rain gutters, aluminum siding, etc.

APPROXIMATE FOLDOVER FOR EACH SIDE OF THE 300-OHM ANTENNA END SECTIONS FOR CERTAIN FREQUENCIES: 3.5 MHz = (.5 feet), 3.6 MHz = (1.5 feet), 3.7 MHz = (3.0 feet), 3.8 = (4.5 feet), 3.9 MHz = (6.0 feet), 4 MHz (7.0 feet). Additional adjustment may be required.

After making sure the SWR is within spec and everything is clear of the antenna. You are ready to operate and enjoy all of the great signals and DX contacts that this antenna offers.

We at IAC wish you the greatest DX'ing and are sure you will be pleased with your purchase.

IAC ACCEPTS NO LIABILITY FOR DAMAGE OR INJURY RESULTING FROM THE INSTALLATION AND USE OF THIS ANTENNA.