

## 80 METER HALF SLOPER INSTALLATION - ATTACHMENT

# INTERNATIONAL ANTENNA COMPANY

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You are the proud owner of the new **DOUBLE BAZOOKA HALF SLOPER ANTENNA**. The first thing to do is to consider which direction you want your maximum signal to radiate. The antenna tends to be somewhat omni-directional; however, the largest lobe radiates towards the direction the antenna slopes. If you want your signal to have an easterly direction slope the antenna from the tower towards the east. The feed point of the antenna should be mounted to the tower between 30 to 70 feet above around. However, the antenna can be installed at a lower height but the SWR will be somewhat harder to get below 2:1 without the aid of an antenna tuner.

The Half Sloper antenna is recommended to be installed from a metal tower or metal push up pole. Secure the eyehook located above the feed point in the "T" mold to the tower or push up pole with nylon cord thus providing a good physical mount. Securely fasten the ground lug extending from the other end of the "T" mold to the metal tower using a clamp or metal screw. This mounting point should be as close the eyehook mounting point as possible. Next, extend the end of the antenna outward and downward so the antenna forms a 45-degree angle away from the tower. A reference point would be that 90 degrees would be straight out from the tower. Mount the ends at least 7 to 10 feet above the ground. 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 end 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.**

After mounting, connect a 50 ohm feed line such as RG-58, RG-8 or RG-213 coax to the antenna feed point 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 the entire 80 meter band if mounted at the recommended heights. If the SWR is higher than 2:1 be sure the tower is well grounded. Due to certain soil conditions several quarter wavelength ground radials may need to be connected to the tower base and buried under the ground away from the tower. This will provide a better ground than a single ground rod. 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 WILL GIVE FALSE SWR MEASUREMENTS ON THIS 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.

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.**

# INTERNATIONAL ANTENNA CORPORATION

## HALF SLOPER TOWER CONFIGURATION

