



INSTRUCTION MANUAL

BROADBAND HF ANTENNA
Type : MBA - 3300

 ***Marshall***

INSTRUCTION

BROADBAND HF ANTENNA

Type: MBA 3300

MBA 3300 model Antenna is designed for a reliable performance in a working frequency scope ranging from 3,5 Mhz up to 30 Mhz. Antenna is manufactured through methods to avoid any shortening and extending modification for the elements of antenna. The antenna possesses resistance to any kinds of weathers and capacity to accommodate output power RF load from 100 to 300 watt P.E.P CW/SSB, appropriate for multi channelled transceiver radio by using only one coaxial cable.

MBA 3300 Antenna is made of copper material no.14 Ø woven and protected by plastic material with roll and matching circuit or balancing network.

MBA 3300 Antenna may serve as dipole, inverted "V" or sloper antenna having all-way transmitting characteristics in partial decivity with side end adjacent to ground, approximately 3 meters above ground.

ANTENNA INSTALLATION

Recommended height for the antenna is at minimum of 5 meters above ground. Common use is at the height of 8 to 14 meters above ground.

Never release the entire roll if unready.

Nylon rope should be used for cordage of each ends of antenna, (see figure 1).

Open half of rolls from antenna and prevent from crossing. As someone's hand for assistance.

Tie nylon ropes as in the instruction figure 1 to maintain the antenna hanging straightly. To deal with triangle shaped cordage, the upper part shall be shortened between 3 to 5 centimeters.

Repeat no 4. and 5 for the other end.

Pull the antenna up straight through the prepared pole slowly and maintain the balance while pulling to prevent from intersecting or winding.

Coax cable should be slowly paid out, keep the cable vertically straight directing to the transmitter.

MBA 3300 Antenna may function as a broadband antenna with average S.W.R. of 1,4:1 up to 1,9:1 depending on the working frequency used, items around including soil condition.

2

3

Preparation of nylon rope installation
on two ends of antenna

Figure 1

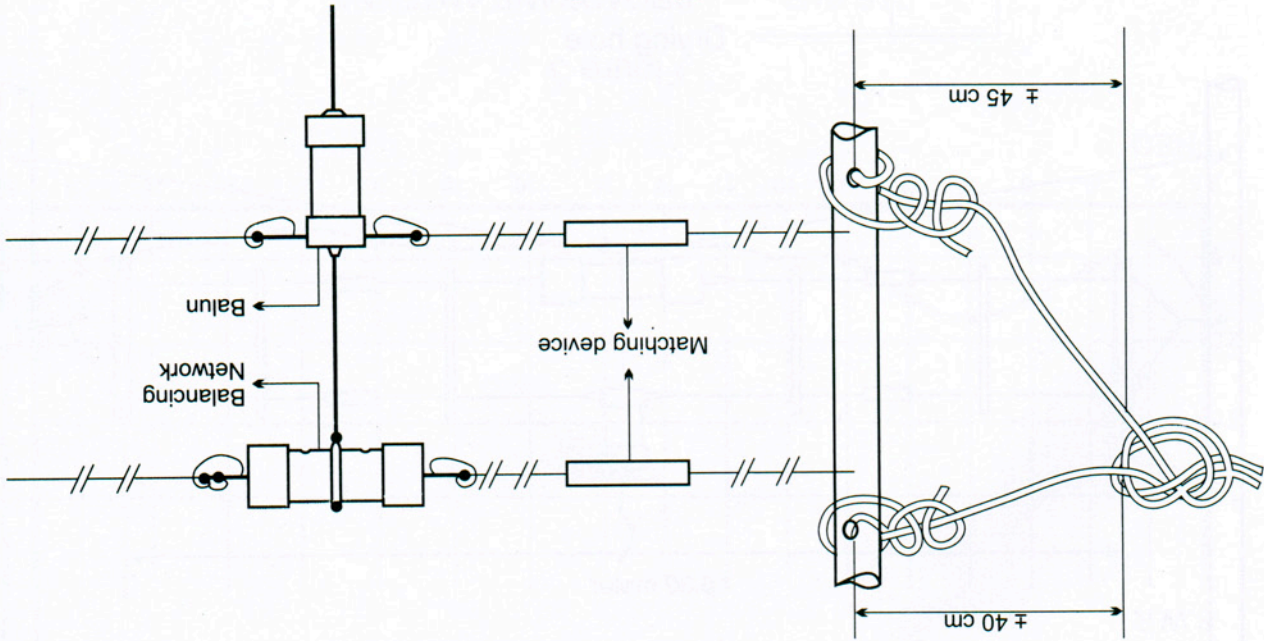
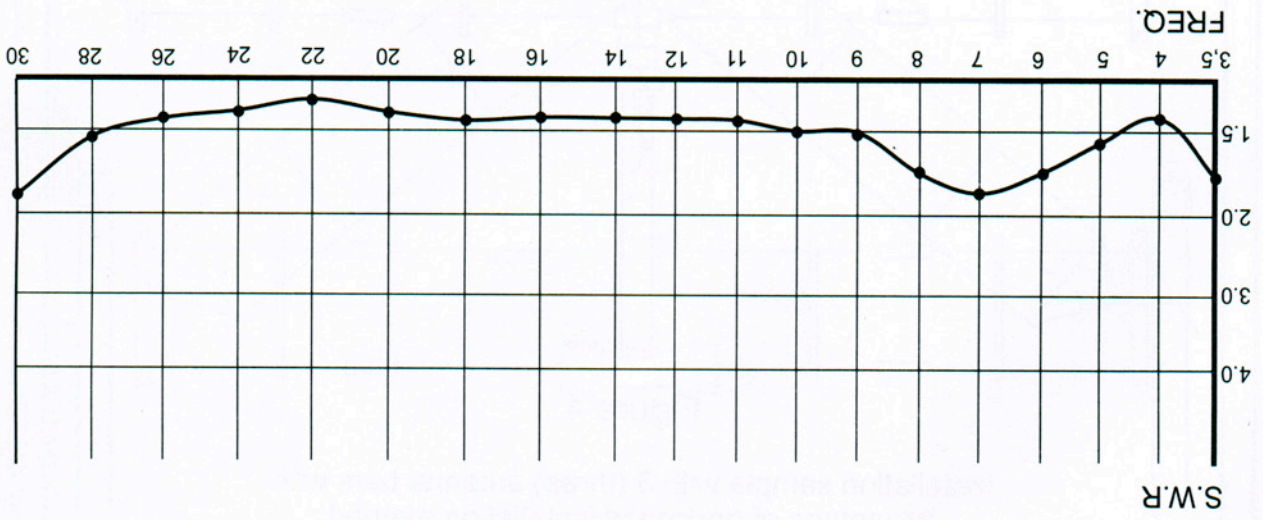


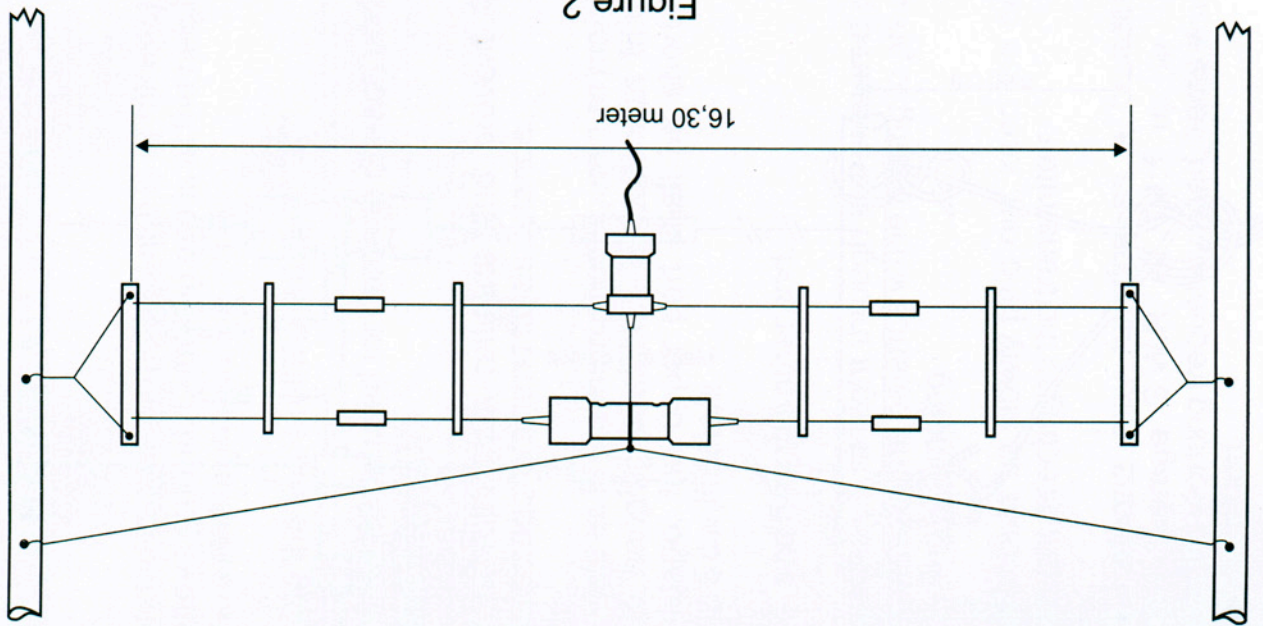
Figure 3



5

FOLDED DIPOLE Installation sample

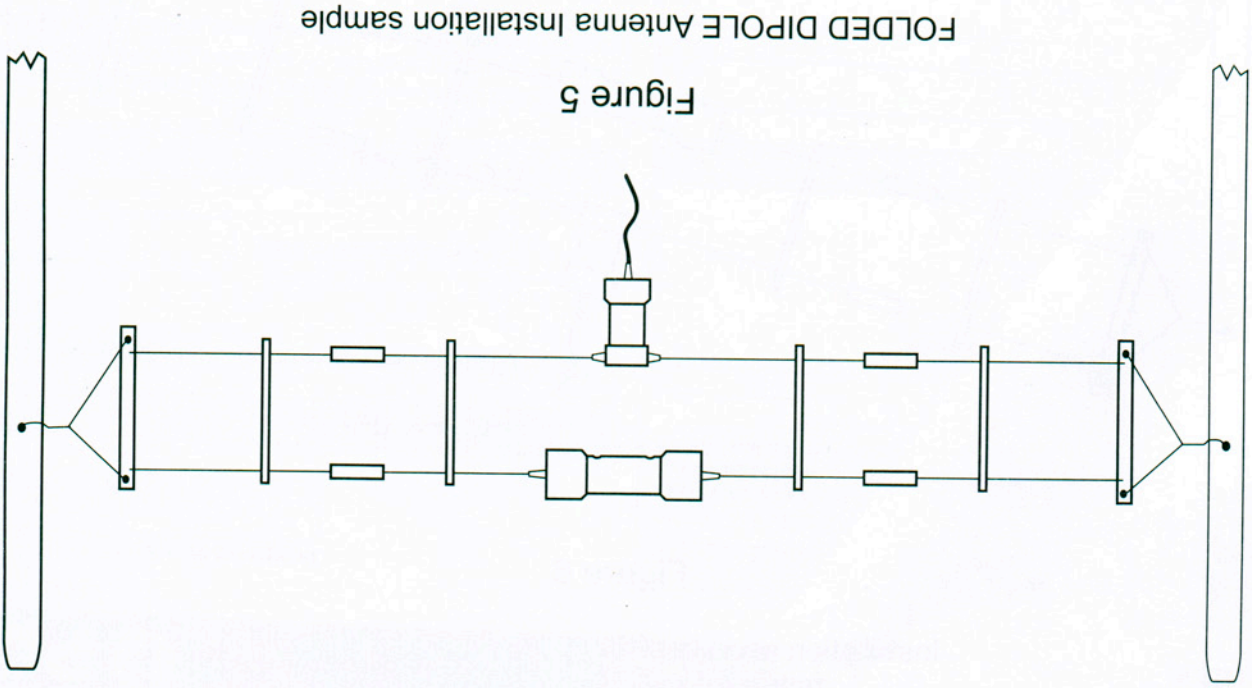
Figure 2



4

NOTE:
Always keep drying hole of balancing network face downward
Drying hole

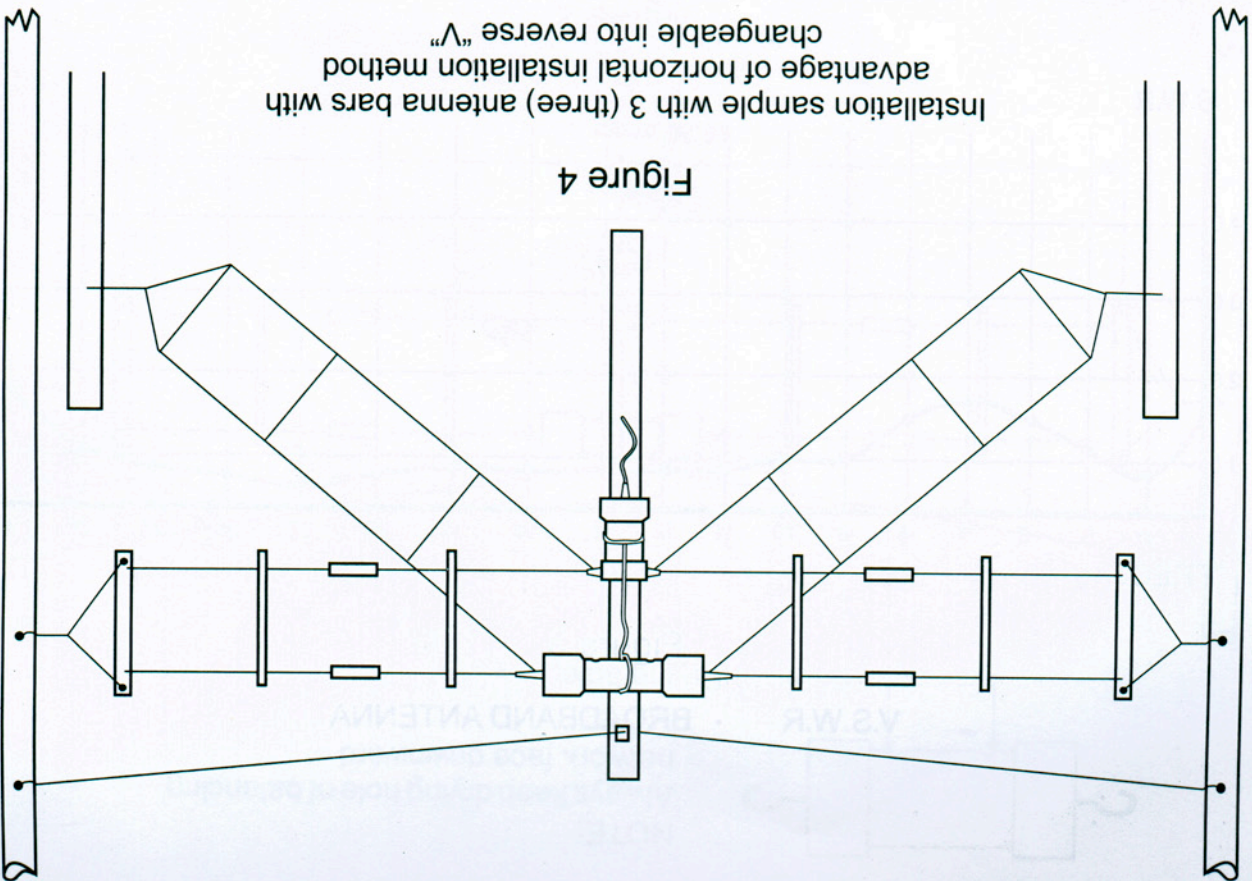
7



FOLDED DIPOLE Antenna Installation sample

Figure 5

6



Installation sample with 3 (three) antenna bars with advantage of horizontal installation method changeable into reverse "V"

Figure 4



Installation sample of Slopper Installation has nature of multi directive relay

Figure 6