

VINNANT-ANTENA FOR SATELLITE OPERATIONS

TYPE EGGBEATER, EGG145/3-S



EGG145/3-S

USABLE FROM 144-148MHZ

all modes ,omnidirectional
Antenna is tunable by sliding a reflector

stainless steel hardware
antenna is equiped with high quality teflon N connector
chassis type
center pin gold plated

Antenna is sended in small packet ,easy assembly
needed

Technical specifications:

Lenght 150 cm with holder

Width 100cm

Weight 2kg

Connector N female chassis type

Power handling 100W-teflon balun

Holder bolt M5 stainless steel

mast mountable max 55 mm of diameter

Circular polarization right hand

TUNED FOR 146.000 MHZ

USABLE FROM 144-148 MHZ AT SWR 1.5 OR LESS

Gain 3Dbd

ASSEMBLY MANUAL:

ANTENNA IS SENT IN A PIECES TO REDUCE THE SHIPPING COST AND BULK.THE ASSEMBLY IS EASY
AND FUN.PLEASE FOLLOW THE STEPS TO GET YOUR ANTENNA US.

STEP 1:LOCATE THE PARTS OF THE ANTENNA

-BOX WITH 2 MAIN PIECES OF THE ANTENNA BOOM

-4 RADIALS

-2 LOOPS THAT WILL FORM THE RADIATING ELEMENTS

-WHITE INSULATOR

STEP 2:ASSEMBLING THE RADIATING ELEMENTS/LOOPS

ON THE MAIN BOOM ELEMENT WITH BULKY INSULATOR AND 4 TERMINAL PINS THAT ARE MARK 1-4

ATTACH THE LOOP MARKED 1-2 ON PINS 1-2,WITH 4 SCREWS THAT ARE EQUIPED WITH SPING WASHERS,FOR BETTER CONTACT AND STOPPING WIND FROM UNSCEWING.

ON THE TOP OF THE LOOPS MARKED 1-2,LOCATE AND UNCSREW THE COUNTER SUNK SCREWS.ASSEMBLE THE INSULATOR ,USE THE HOLES THAT ARE COUNTER SUNK DRILLED.

ATTACH THE LOOP MARKED 3-4 ON PINS 3-4,WITH 4 SCREWS THAT ARE EQUIPED WITH SPING WASHERS,FOR BETTER CONTACT AND STOPPING WIND FROM UNSCEWING.

BEFORE THE OPERATION,REMOVE THE SCREWS ON TOP ,THE LONGER WITH WING NUTS.

ONCE THE LOOP MARKED 3-4 IS IN THE PLACE,LOCATE AND ALLING THE HOLES ON TOP OF THE LOOP 3-4 WITH INSULATOR HOLES,MAKE SURE THAT INSULATOR IS PLACED BETWEEN THE EACH LOOP TO INSULATE.ASSEMBLE THE SCREWS WITH WING NUTS .

STEP 3:INSTALLING AN ANTENNA ON THE POLE

ONCE THE MAIN PART OF THE ANTENNA WITH TERMINALS ARE ATTACHED TO THE LOOPS AND INSULATOR PLACED AS DIRECTED,ANTENNA IS READY TO BE PLACED OUTSIDE.PLACE THE SECOND PART OF THE ANTENNA BOOM ONTO THE POLE,MAX ACCEPTANCE IS 55MM,MIN 25MM.

PLEASE PUSH THE ANTENNA CABLE TROUGH THE ANTENNA BOOM AND HOLD THE ANTENNA IN ONE HAND,SCREW THE CONNECTOR TIGHT WITH SECOND HAND,NO TOOLS JUST HAND TIGHT PLEASE.DO NOT USE THE SELF SEALING TAPE TO PREVENT MOISTURE TO GET INTO THE ANTENNA.ANTENNA IS SUFFICIENTLY PROTECTED BY IT'S BOOM.

ONCE DONE,LOCATE AND ALLING THE BLACK MARK ON THE THINNER PART NEXT TO THE ANTENNA CONNECTOR WITH THE NOTCH ON THE ANTENNA BOOM THAT IS ATTACHED TO THE ANTENNA HOLDER,AND TIGHT THE HOSE CLAMP WITH PHILIPS SCREWDRIVER OR SPANNER NO.7

MAKE SURE THAT MARK AND NOTCH STAY IN THE SAME,DESIRED POSITION.

STEP 4:INSTALLING THE RADIALS

INSTALL THE RADIALS INTO THE TUNING RING,HAND TIGHT ONLY ,AND COUNTER LOCK THE NUT AGAINST TUNING RING.HAND TIGHT FIRST AND FINALLY LOCK THE NUT BY USING A SPANNER NO.13 ,PLEASE TURN THE NUT AGAINST THE TUNING RING BY NO MORE THAN $\frac{1}{4}$ OF THE TURN.

TUNING OF THE ANTENNA

ANTENNA IS NORMALL PRETUNED FOR BEST SWR AT CENTER FREQUENCY OF 146MHZ/144-148MHZ
USAGE/

ANTENNA CAN BE CENTER TUNED IF DESIRED.PLEASE LOOSEN THE RADIALS SO THE RING CAN BE
MOVED.USE THE ALLEN KEY NO 1.5 TO LOOSEN THE 2 HEADLESS SCREWS AND GET THE RING
MOVING FROM ORIGINAL POSITION.USE THE MARKER TO MARK THE ORIGINAL POSITION IN CASE
THAT YOU NEED TO COME BACK TO IT.USE SMALL STEPS TO MOVE THE RING,START MOVING UP AT
THE PACE ABOUT 1CM AT A TIME.

MAKE SURE THAT RADIALS ARE CO-ALLINGED WITH LOOPS BY LOOKING UP THE ANTENNA RADIAL
TO THE LOOPS WITH CLOSED ONE EYE,TO CONFIRM THE ALLINGEMENT.

IF HAPPY WITH THE SWR OR CENTER TUNING,WITH RADIALS AND LOOPS ALLINED ,TIGHT THE
HEADLESS SCREWS FIRST,THEN RADIALS AS PER STEP NO.4