



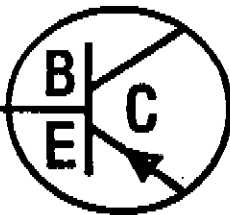
Instructions

Model SC-5000

Butternut Electronics Co's Instruction Manual for:
Model SC-5000 — 1985

NOTE:

The SC-5000 Collinear vertical scanner antenna covering 30-905 MHz previously manufactured by Butternut Electronics Co. was discontinued in 1995. Parts are no longer available for these antennas. This instruction is made available as a reference.



BUTTERNUT ELECTRONICS CO.

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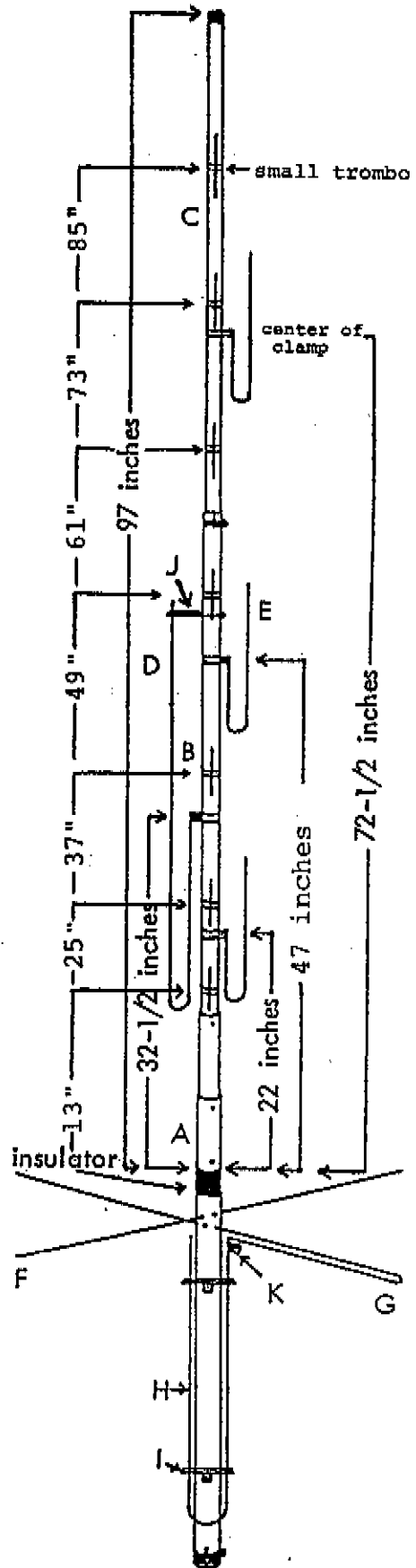
SC-5000
 ASSEMBLY AND INSTALLATION INSTRUCTIONS
 30-905 MHz
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Study the diagram and proceed as follows. Note that all lengths given in the diagram are to be measured from the upper end of the fiber glass base insulator.

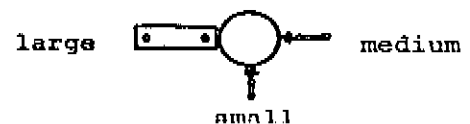
1. Locate section B in the diagram and rotate the two mid-size UHF "trombones" to the position opposite the large VHF trombone. Note: The small "trombones" are positioned 90 degrees to the large and mid-size "trombones".
2. Locate section A and insert the lower (unslotted) end of section B into section A and secure with a #8 x 1-1/4" bolt, lockwasher and hex nut.
3. Position the small hose clamp on the upper (unslotted) end of section B. Insert the uncapped end of section C into section B and adjust the total length to 97 inches as measured from the top of the fiber glass insulator. Note: The small "trombones" should be positioned vertically in line with the small "trombones" on section B. Similarly, the mid-size UHF "trombones" should be vertically in line with each other.
4. Securely fasten the "trombones" in their proper positions according to the dimensions shown in the diagram.
5. Locate the two radial rods. Note that one of these is J-shaped. Pass the long end of this rod through the hole just above the feedline connector and out the hole on the opposite side of the tubing. Center the rod so that equal lengths extend out from base section A in both directions and tighten in place with the attached set screw. Locate rod clamp K and join the short end of the J-shaped radial rod to one end of the U-shaped rod H preassembled to base section A.
6. Finally, pass the other radial rod F through the remaining holes in base section A, center and secure with the attached set screw. This completes the assembly of the antenna which may now be mounted over a 1 inch O.D. mast and secured with the large hose clamp. Alternatively, the lower section of the antenna may be inserted into a mast having an inner diameter of 1-1/8". Steel TV mast having an O.D. of 1-1/4 inches and a wall thickness of .058 inches should be ideal for this purpose.

CAUTION: DO NOT ATTACH A FEEDLINE TO THE ANTENNA WITHOUT FIRST DISCONNECTING THE OTHER END OF THE FEEDLINE FROM STATION EQUIPMENT, FOR UNGROUNDED EQUIPMENT CAN CAUSE AN A.C. VOLTAGE TO APPEAR ON THE OUTSIDE OF A COAXIAL FEEDLINE! CONSULT EQUIPMENT MANUALS FOR GROUNDING INFORMATION AND RELATED SAFETY RECOMMENDATIONS.

7. Use only enough feedline to reach the antenna and avoid coaxial cable of doubtful quality, especially if lengths greater than 25 ft. are required.



Top view position of trombones around the vertical radiator



PARTS LIST

- A. Base section assembly
- B. 3/4" x 4' tube
- C. 5/8" x 4' tube
- D. VHF "trombone" and clamp
- E. UHF "trombone" and clamp
- F. 800-900 MHz "trombone"
- G. Radial rod
- H. J-shaped radial rod

- I. U-shaped rod
 - J. Stand-off insulators
 - K. VHF "trombone" insulator
 - L. Rod clamp with hardware
- HARDWARE**
- #8 x 1-1/4" bolt
 - #8 lockwasher
 - #8 hex nut
 - large and small hose clamp