



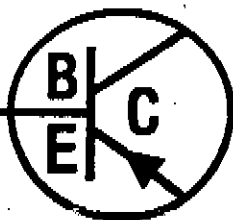
# Instructions

## Model SC-3000

Butternut Electronics Co's Instruction Manual for:  
Model SC-3000 — 1984

**NOTE:**

The SC-3000, Collinear Vertical Scanner Antenna, covering 30 to 512 MHz previously manufactured by Butternut Electronics Co. has been discontinued. Parts are no longer available for these antennas. This instruction is made available as a reference.



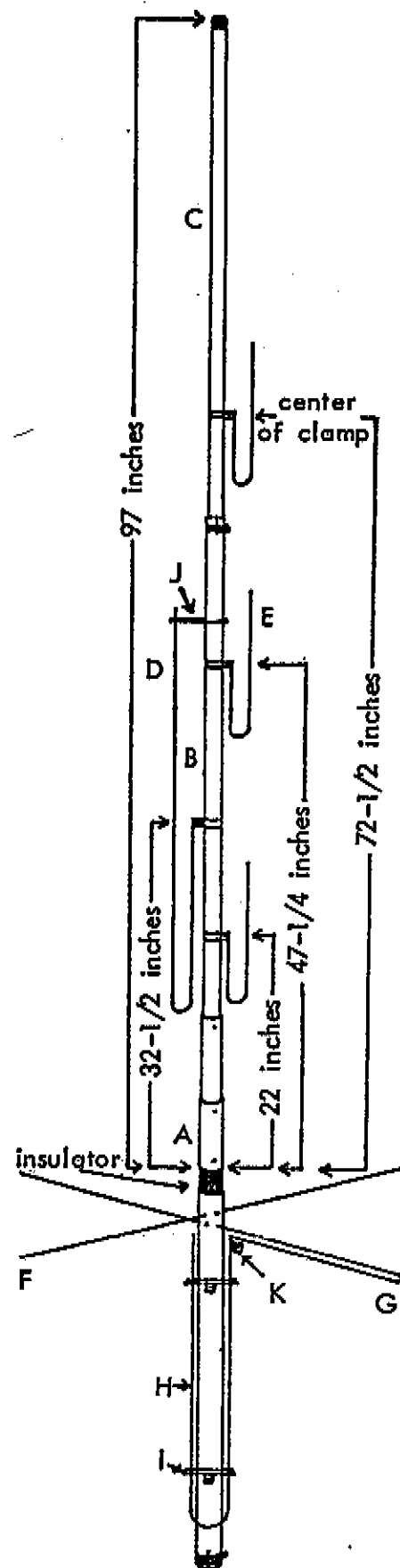
# BUTTERNUT ELECTRONICS CO.

405 E. Market Street Lockhart, Texas 78644

ASSEMBLY AND INSTALLATION INSTRUCTIONS: MODEL SC-3000.  
(HF, VHF and UHF SCANNER ANTENNA--30 to 512 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 install the small UHF "trombone" as shown, sliding it up over the lower end of section B. Do not permanently tighten at this time. Final positioning and adjustments will be done later.
2. Locate section A and insert the lower (unslotted) end of section B into section A. 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 (246.4 cm.) as measured from the top of the fiber glass insulator (see illustration).
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 inches or greater. 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 about 25 ft. are required.



## PARTS LIST

A. Base section & Insulator assembly  
B. 3/4" x 4' tube  
C. 5/8" x 4' tube  
D. VHF "trombone and clamp  
E. UHF "trombone

F. Radial rod  
G. J-shaped radial rod  
H. U-shaped rod  
I. Stand-off insulators  
J. VHF "trombone" insulator  
K. Rod clamp with hardware

## HARDWARE

1/8 x 1-1/4" bolt  
#8 lockwasher  
#8 hex nut  
large and small hose clamps