

# G7-220

## INSTALLATION INSTRUCTIONS

### ASSEMBLY

1. Check package contents against illustration to insure all items are included.
2. Refer to Figure 1, and install the four radials to the base section. This is done by inserting the four #4405-1 screws thru the # 5357 plate and thru the 3553-23 radials then two or three turns into the cast aluminum base. The radials should be arranged in a clockwise fashion. When radials are properly aligned, tighten down the screws. Add the plastic caps # 5303-6 to the ends of the radials.
3. Assemble the vertical radiator sections to the base section per illustration.
4. The antenna is supplied with 1-1/2" U-bolts. The mounting plate is punched to accept 2" bolts as well, however the 2" U-bolt are not supplied.
5. Before you attach your cable be sure you have an "N" connector on the cable and not a PL-259 connector because the connector on the antenna is an "N" type.

### TUNING INSTRUCTIONS

The G7-220 utilizes a 5/8 wave lower, 5/8 wave middle, and a 5/8 wave upper colinear radiator which has been spaced for optimum low angle radiation. When set to the dimensions shown in the illustration, the antenna should require no further adjustments since it is sufficiently broad banded. However in the event tuning is desired proceed as follows:

Install a dependable watt meter at or near the feed point of the antenna. Apply power to the antenna. Loosen the clamp of the bottom radiator only and adjust the length until the lowest reflected power or VSWR is obtained. Secure the clamp. Before final installation, if desired, coat the entire antenna with the exclusion of the rf connector with a good grade acrylic lacquer such as "Krylon".

The total useable bandwidth is more than 6 MHz. under 1.5:1 without degradation of gain which makes the antenna idea for duplex operation.

When using some other frequency in that range, add or subtract 1/4" from each "X", "Y" dimension for each .5 MHz.

### NEW-TRONICS ANTENNA CORP. LIMITED WARRANTY

New-Tronics Antenna Corp. warrants its products to be free of defects in material and workmanship and extends this warranty under intended use and normal service conditions to the original owner for a period of one year from the date of purchase. This warranty does not apply to any product that has been repaired or altered in any manner and is void for any damage due to accident, neglect, unreasonable use, improper installation or any other cause not arising out of defects in material or workmanship. The obligations of New-Tronics Antenna Corp. are limited to repairing or replacing at its option any product or part that is returned to the factory, all transportation charges prepaid accompanied by proof of purchase, and upon examination reveals to have been defective within the warranty period stated above. New-Tronics Antenna Corp. does not assume nor is any person authorized to assume for it any obligations other than that herein stated. Any implied warranties, including but not limited to fitness for a particular purpose, is limited in duration for the above one year period. New-Tronics Antenna Corp. shall not be liable under this warranty, for loss of use of the product or for other consequential loss or damage incurred by the purchaser. Some states do not allow the exclusion or limitation of implied warranties of consequential damages and so the above exclusions or limitations may not apply in those states. This warranty gives you special legal rights and you may have other rights that vary from state to state.



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**HUSTLER**

G7-220

5241-1 Top Radiator Assy

3553-14 35" Tube

5303-6 PLASTIC CAP

3152-7 clamp

3552-17 16" Tube

36 7/8"

LOCKWASHER 2491-5

UPPER PHASING COIL 5240-1

5648 STUD

16" TUBE 5891

3152-4 CLAMP

5892-2 TUBE 16"

29"

5899 STUD

LOWER PHASING COIL  
5897-6

5899 STUD

COVER TUBE 24"  
5893-1

3152-4 CLAMP

31 9/16"

5357 RADIAL PLATE

4405-1 (4) SCREWS

(4) RADIAL 3553-23 14-3/4"

3488-8 U-BOLT (2)  
2491-5 LOCKWASHER (2)

5360 BASE PLATE

N-TYPE CONNECTOR

3488-8 U-BOLT (2)  
2491-5 LOCKWASHER (4)  
2382-32 NUTS (4)

**HARDWARE KIT**

3488-8 (2) U-BOLT  
2491-5 (4) LOCKWASHER  
2382-32 (4) NUT  
2491-6 LOCKWASHER  
3152-4 (1) CLAMP  
5303-6 (4) PLASTIC CAPS  
6527 ANTENNA ALERT  
6099 WARNING LABEL  
6152,6021 INSTRUCTION SHEETS