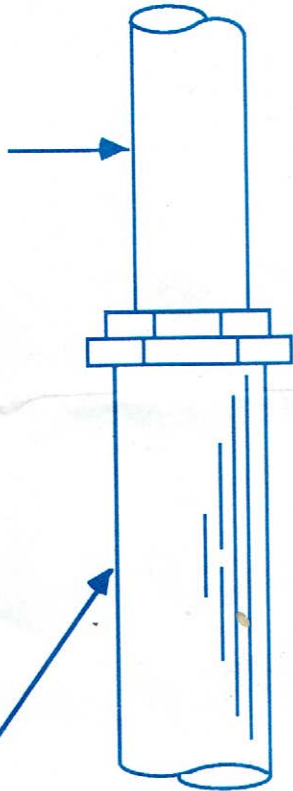
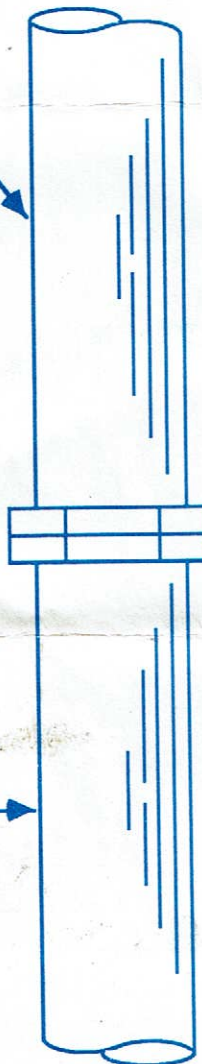


UPPER
MAST
SECTION



Tighten upper mast section onto coil by using wrenches on adjacent hex plugs. Do not tighten by gripping on coil cover. Do not tighten by using wrenches on the lower coil hex to tighten the upper mast section.

COIL



CAUTION

Tighten coil onto lower mast section by using wrenches on adjacent hex plugs. Do not tighten by gripping on coil cover. Do not tighten by using wrenches on the upper coil hex to secure the lower mast section.

LOWER
MAST
SECTION



Newtronics Antenna Corp.
One Newtronics Place
Mineral Wells, Texas 76067

HUSTLER COLINEAR TWO METER FIXED STATION ANTENNA, MODEL G7-144

WARNING: INSTALLATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS.
FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS.
See Fact Sheet

Assembly Instructions

1. Check package contents against illustration to insure all items are included.
2. Refer to Figure 1 and install the four radials. This is accomplished by inserting the four #5180-5 screws thru the #5357 plate and through the #3553-12 radials then two to three turns into the cast aluminum base. When the radials are properly aligned, tighten down the screws. Add the yellow caps to the ends of the radials.
3. Assemble the vertical radiator section per illustration.
4. Mount the antenna on a 1" to 1-3/4" diameter mast with the "U" bolts supplied.
5. Before you attach your cable be sure you HAVE an N type connector on the cable and not PL-259 connector because the connector on the antenna is an N type.

Tuning Instructions:

- After the assembly is complete, install a dependable watt meter at or near the feedpoint of the antenna.
- The G7-144 utilizes a 5/8 wave lower, 5/8 middle and a 5/8 wave upper colinear radiator which has been spaced for optimum low angle radiation.
- The dimensions shown in the illustration (47-1/4, 45 and 46-1/2) are for tuning the G7-144 to 146.5 MHZ. To tune the antenna to some other frequency in the band, loosen the clamp of the bottom radiator and adjust the length until the reflected power of VSWR is obtained.
- Secure this clamp. Loosen the clamp of the middle radiator and adjust this length until the lowest possible reading is obtained.
- Repeat the same procedure for the upper radiator.
- Secure all hardware and clamps.
- Before final installation, if desired, coat the entire antenna with the exclusion of the rf connector with a good grade of clear acrylic lacquer such as " Krylon".
- The total useable bandwidth is more than 2 MHz under 1.5: 1 with out degradation of gain which makes this antenna ideal for duplex operation.

NEWTRONICS ANTENNA CORP. LIMITED WARRANTY

Newtronics Inc. 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 Newtronics Inc. 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 which examination reveals to have been defective within the warranty period stated above. Newtronics Inc. does not assume, nor is any person authorized to assume for it, any obligation other than that herein stated.

Any implied warranties, including but not limited to fitness for a particular purpose, are limited in duration for the above one year period.

Newtronics Inc. shall not be liable under this warranty, or any implied warranty, for loss of the product or for other consequential loss of damage incurred by the purchaser.

Some states do not allow the exclusion of limitation of implied warranties of consequential damages and so the above exclusions of limitations may not apply. This warranty gives you special legal rights and you may have other rights that vary from state to state.

G7-144

Kit No. 5907

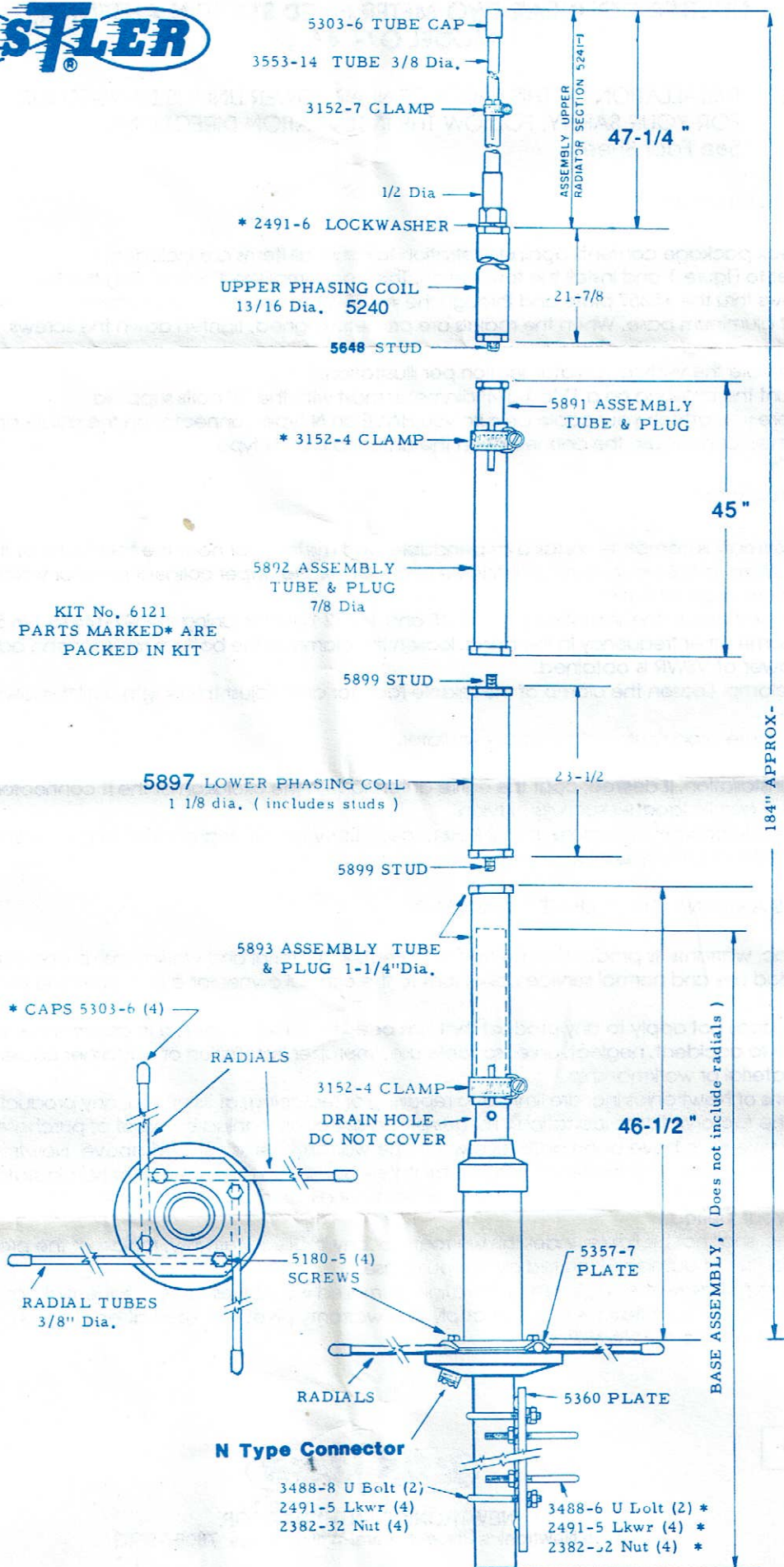
Rev 5 3/94

5906



NEWTRONICS ANTENNA CORP.
One Newtronics Place Mineral Wells, Texas 76067-9563

Printed in U.S.A.



KIT No. 6121
 PARTS MARKED* ARE
 PACKED IN KIT

G7-144

5906

G7-SERIES TUNING CHART

Use diagram on back of instruction sheet

Frequency (MHz.)

G7-136 136-144 MHz.

	"X"	"Y"	"Z"
136 MHz.	51 3/4"	50 1/2"	52 1/2"
136.5	51 1/2	50 1/4	52 1/4
137	51 1/4	50	52
137.5	51	49 3/4	51 3/4
138	50 3/4	49 1/2	51 1/2
138.5	50 1/2	49 1/4	51 1/4
139	50 1/4	49	51
139.5	50	48 3/4	50 3/4
140	49 3/4	48 1/2	50 1/2
140.5	49 1/2	48 1/4	50 1/4
141	49 1/4	48	50
141.5	49	47 3/4	49 3/4
142	48 3/4	47 1/2	49 1/2
142.5	48 1/2	47 1/4	49 1/4
143	48 1/4	47	49
143.5	48	46 3/4	48 3/4
144	47 3/4	46 1/2	48 1/2

G7-144 143-149 MHz.

143 MHz.	48 1/4"	46 3/4"	49"
143.5	48	46 1/2	48 3/4
144	47 3/4	46 1/4	48 1/2
144.5	47 1/2	46	48 1/4
145	47 1/4	45 3/4	48
145.5	47	45 1/2	47 3/4
146	46 3/4	45 1/4	47 1/2
146.5	46 1/2	45	47 1/4
147	46 1/4	44 3/4	47
147.5	46	44 1/2	46 3/4
148	45 3/4	44 1/4	46 1/2
148.5	45 1/2	44	46 1/4
149	45 1/4	43 3/4	46

G7-150-1 148-154 MHz.

148 MHz.	47"	45 5/8"	50"
148.5	46 3/4	45 3/8	49 3/4
149	46 1/2	45 1/8	49 1/2
149.5	46 1/4	44 7/8	49 1/4
150	46	44 5/8	49
150.5	45 3/4	44 3/8	48 3/4
151	45 1/2	44 1/8	48 1/2
151.5	45 1/4	43 7/8	48 1/4
152	45	43 5/8	48
152.5	44 3/4	43 3/8	47 3/4
153	44 1/2	43 1/8	47 1/2
153.5	44 1/4	42 7/8	47 1/4
154	44	42 5/8	47

Note: All lengths are in inches.



Frequency (MHz.)

G7-150-2 154-161 MHz.

	"X"	"Y"	"Z"
154 MHz.	44 7/8"	43 1/2"	48 1/4"
154.5	44 5/8	43 1/4	48
155	44 3/8	43	47 3/4
155.5	44 1/8	42 3/4	47 1/2
156	43 7/8	42 1/2	47 1/4
156.5	43 5/8	42 1/4	47
157	43 3/8	42	46 3/4
157.5	43 1/8	41 3/4	46 1/2
158	42 7/8	41 1/2	46 1/4
158.5	42 5/8	41 1/4	46
159	42 3/8	41	45 3/4
159.5	42 1/8	40 3/4	45 1/2
160	41 7/8	40 1/2	45 1/4
160.5	41 5/8	40 1/4	45
161	41 3/8	40	44 3/4

G7-150-3 161-167 MHz.

161MHz.	42 7/8"	41 1/4"	46 3/4"
161.5	42 5/8	41	46 1/2
162	42 3/8	40 3/4	46 1/4
162.5	42 1/8	40 1/2	46
163	41 7/8	40 1/4	45 3/4
163.5	41 5/8	40	45 1/2
164	41 3/8	39 3/4	45 1/4
164.5	41 1/8	39 1/2	45
165	40 7/8	39 1/4	44 3/4
165.5	40 5/8	39	44 1/2
166	40 3/8	38 3/4	44 1/4
166.5	40 1/8	38 1/2	44
167	39 7/8	38 1/4	43 3/4

G7-150-4 167-174 MHz.

167 MHz.	41"	39 1/2"	44 3/4"
167.5	40 3/4	39 1/4	44 1/2
168	40 1/2	39	44 1/4
168.5	40 1/4	38 3/4	44
169	40	38 1/2	43 3/4
169.5	39 3/4	38 1/4	43 1/2
170	39 1/2	38	43 1/4
170.5	39 1/4	37 3/4	43
171	39	37 1/2	42 3/4
171.5	38 3/4	37 1/4	42 1/2
172	38 1/2	37	42 1/4
172.5	38 1/4	36 3/4	42
173	38	36 1/2	41 3/4
173.5	37 3/4	36 1/4	41 1/2
174	37 1/2	36	41 1/4

Note: All lengths are in inches.



Mineral Wells, Texas 76067-9563

INSPECTION CHECK LIST G7 SERIES

- Base Assy.
- 5893 Tube and Plug Assy.
- 5897 Lower Phasing Coil
- 5892 Tube and Plug Assy.
- 5891 Tube and Plug Assy.
- 5240 Upper Phasing Coil
- Radiator Section
- Radials
- Hardware Kit
- Paper Work

Inspector Bm

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