

Installation Instructions

Hustler Collinear Two Meter Fixed Station Antenna

Master Gainer™ Model G6-144B

Warning

INSTALLATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS.
FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS.

GENERAL DESCRIPTION

FCC accepted for Repeater application at 6db gain based on EIA Standard RS-329: gain compared to 1/2 wave dipole.

ASSEMBLY INSTRUCTIONS

1. Check package contents against illustration to insure all items are included.
Note: One corner of the flange which the radials are mounted on has a metal strip installed over the screw hole.
2. Refer to Figure 1 and install the four radials. This is most easily accomplished by inserting the four #5180-3 screws two or three turns into the #5328 cast aluminum base. Note the clockwise direction and install all radials before tightening the four screws. Hold the base assembly in a vertical position while installing radials. Install red tips on ends of radials.
3. Attach the phasing coil and upper radiator to the lower radiator and base assembly. Tighten the assemblies securely.
4. Mount the antenna on a 1" to 1 3/4" diameter mast with the "U" bolts supplied.

TUNING INSTRUCTIONS

After the assembly is complete, install a dependable watt meter at or near the feed point of the antenna. The G6-144B utilizes a 5/8 wave lower and a 5/8 wave upper collinear radiator which has been spaced for optimum low angle radiation.

Apply power to the antenna or near the center of the frequency range to be used. Reference: See last paragraph. Loosen the clamp of the bottom radiator only and adjust the length until the lowest reflected power or SWR is obtained. Secure this clamp. If it is desired to further minimize the reflected reading, loosen the clamp of the top radiator and adjust this length until the lowest possible reading is obtained. Adjustment increments should be in steps of no more than 1/2 inch.

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 acrylic lacquer such as "Krylon".

The total useable bandwidth is more than 2MHz 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. Lower or higher change in frequency, respectively.

Newtronics Limited Warranty

Newtronics 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 Newtronics 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 which examination reveals to have been defective within the warranty period stated above.

Newtronics Antenna Corp. does not assume, nor is any person authorized to assume for it, any obligation other than that herein stated.

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

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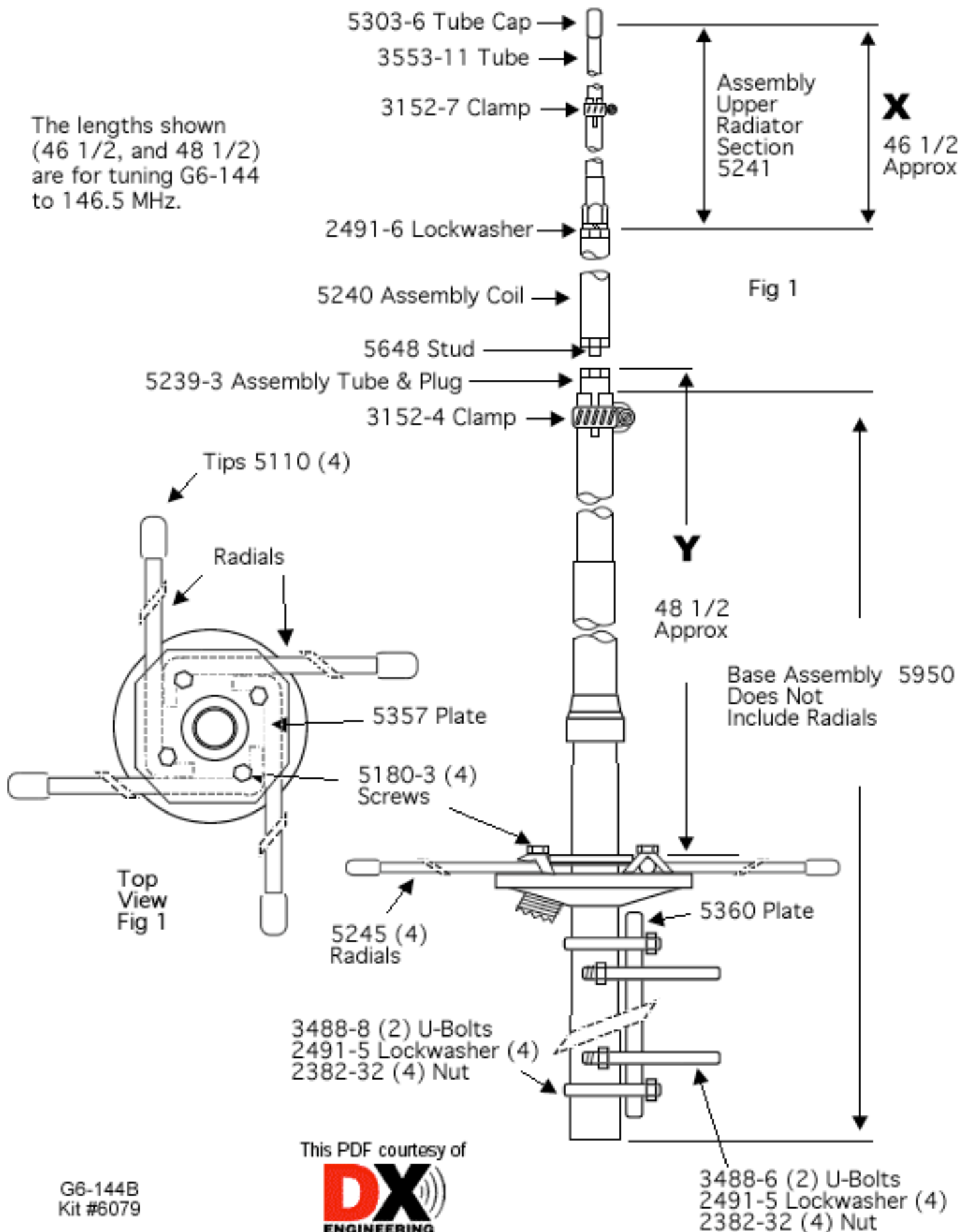
G6-144B

Kit #6079

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The lengths shown
(46 1/2, and 48 1/2)
are for tuning G6-144
to 146.5 MHz.



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3488-6 (2) U-Bolts
2491-5 Lockwasher (4)
2382-32 (4) Nut

G6-144B and G5-150 Tuning Chart

Use diagram on back of instruction sheet

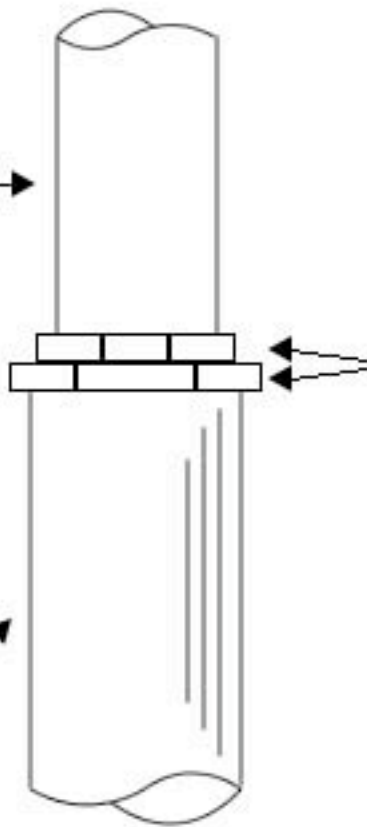
| | | | | | |
|-----------------------------|------------|------------|-----------------------------|------------|------------|
| G6-144B 148 MHz | “X” | “Y” | G5-150-1 148-154 MHz | “X” | “Y” |
| 144 MHz | 47 3/4” | 49 3/4 | 148 MHz | 47 7/8 | 46 1/8 |
| 144.5 | 47 1/2 | 49 1/2 | 148.5 | 47 5/8 | 45 7/8 |
| 145 | 47 1/4 | 49 1/4 | 149 | 47 3/8 | 45 5/8 |
| 145.5 | 47” | 49” | 149.5 | 47 1/8 | 45 3/8 |
| 146 | 46 3/4 | 48 3/8 | 150 | 46 7/8 | 45 1/8 |
| 146.5 | 46 1/2 | 48 1/2 | 150.5 | 46 5/8 | 44 7/8 |
| 147 | 46 1/4 | 48 1/4 | 151 | 46 3/8 | 44 5/8 |
| 147.5 | 46” | 48” | 151.5 | 46 1/8 | 44 3/8 |
| 148 | 45 3/4 | 17 3/4 | 152 | 45 7/8 | 44 1/8 |
| | | | 152.5 | 45 5/8 | 43 7/8 |
| | | | 153 | 45 3/8 | 43 5/8 |
| G5-150-2 154-161 MHz | “X” | “Y” | 153.5 | 45 1/8 | 43 3/8 |
| 154 MHz | 45 1/8 | 44 1/8 | 154 | 44 7/8 | 43 1/8 |
| 154.5 | 44 7/8 | 43 7/8 | | | |
| 155 | 44 5/8 | 43 5/8 | G5-150-3 161-167 MHz | “X” | “Y” |
| 155.5 | 44 3/8 | 43 3/8 | 161 | 43 7/8 | 43 1/4 |
| 156 | 44 1/8 | 43 1/8 | 161.5 | 43 5/8 | 43 |
| 156.5 | 43 7/8 | 42 7/8 | 162 | 43 3/8 | 42 3/4 |
| 157 | 43 5/8 | 42 5/8 | 162.5 | 43 1/8 | 42 1/2 |
| 157.5 | 43 3/8 | 42 3/8 | 163 | 42 7/8 | 42 1/4 |
| 158 | 43 1/8 | 42 1/8 | 163.5 | 42 5/8 | 42 |
| 158.5 | 42 7/8 | 41 7/8 | 164 | 42 3/8 | 41 3/4 |
| 159 | 42 5/8 | 41 5/8 | 164.5 | 42 1/8 | 41 1/2 |
| 159.5 | 42 3/8 | 41 3/8 | 165 | 41 7/8 | 41 1/4 |
| 160 | 42 1/8 | 41 1/8 | 165.5 | 41 5/8 | 41 |
| 160.5 | 41 7/8 | 40 7/8 | 166 | 41 3/8 | 40 3/4 |
| 161 | 41 5/8 | 41 5/8 | 166.5 | 41 1/8 | 40 1/2 |
| | | | 167 | 40 7/8 | 40 1/4 |
| G5-150-4 167-174 MHz | “X” | “Y” | | | |
| 167 MHz | 41 7/8 | 41 3/8 | | | |
| 167.5 | 41 5/8 | 41 1/8 | | | |
| 168 | 41 3/8 | 40 7/8 | | | |
| 168.5 | 41 1/8 | 40 5/8 | | | |
| 169 | 40 7/8 | 40 3/8 | | | |
| 169.5 | 40 5/8 | 40 1/8 | | | |
| 170 | 40 3/8 | 39 7/8 | | | |
| 170.5 | 40 1/8 | 39 5/8 | | | |
| 171 | 39 7/8 | 39 3/8 | | | |
| 171.5 | 39 5/8 | 39 1/8 | | | |
| 172 | 39 3/8 | 38 7/8 | | | |
| 172.5 | 39 1/8 | 38 5/8 | | | |
| 173 | 38 7/8 | 38 3/8 | | | |
| 173.5 | 38 5/8 | 38 1/8 | | | |
| 174 | 38 3/8 | 37 7/8 | | | |

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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.

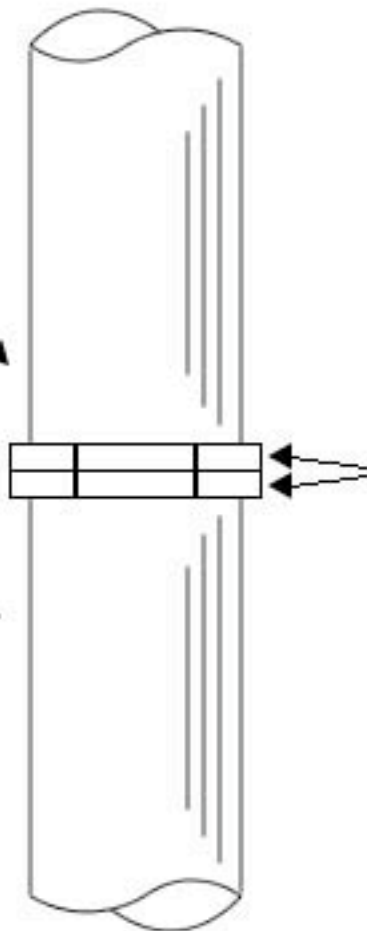
Coil ↗



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 →



CAUTION:

Do not use coax seal or tape on type "N" connector. This antenna is designed to drain excess water around the outside of chassis mounted "N" connector. Sealing this area will cause the antenna to retain water.

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