

# INSTALLATION INSTRUCTIONS FOR THE HUSTLER GAIN ANTENNA MODEL CG-144

The Model CG-144 is supplied with 3/8"-24 base for use with any standard 180° adjustable ball mount. Because of the low angle of radiation, the antenna must be adjusted to absolute vertical position. Choose a reasonably clear location on the vehicle - preferably deck mounted midway between the rear of the car and rear window. While bumper mounting is possible, some compromise in overall performance must be accepted.

## TUNING INSTRUCTIONS

The Model CG-144 is purposely supplied with a longer lower section and may require trimming depending on the height of your ball mount. Refer to illustration "A" to ascertain the actual length of the lower quarter wave radiating section.

## ASSEMBLE THE COMPLETE ANTENNA

Loosen set screws "S" for adjusting the lower rod length. Reducing the rod length raises the resonant frequency of the antenna. Increasing the length lowers the frequency. If the rod bottoms in the post during adjustment, grind off approximately 1/4" at a time until the correct resonant length is established.

After optimizing the lower 1/4 wave section for best SWR, adjust the upper section. In most instances the length supplied will be correct, however, due to environment, the rod may bottom and slight trimming may be required. After optimizing the upper section, re-check the lower adjustment since a slight interaction does occur.

## GROUNDING

Ball mounts, bumper mounts and other hardware devices offering satisfactory performance at H.F. ( 10 thru 80 meters ) may require additional bonding for satisfactory two-meter performance. SWR is directly related to the quality of the ground system.

**Bumper Mounts** - It may be necessary to add short, low inductive bonding strips between the mount and car chassis and body. Locate the bonding strips near the antenna mounting device on the bumper mount.

**Ball Mount** - A very definite ground must exist where the coax braid and car body connect together at the base of the antenna. In older installations it may be necessary to remove, clean and check the installation for satisfactory known performance.

**Coax Lead** - If a split lead is used to feed the antenna mount, keep the split lead lengths as short as possible. Long unshielded leads at this location radiate and can act as an appreciable part of an antenna at two meters.

## HUSTLER WARRANTY

Hustler Incorporated 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 Hustler Incorporated 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. Hustler Incorporated 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. Hustler Incorporated shall not be liable under this warranty, or any implied 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 or consequential damages and so the above exclusions or limitations may not apply. This warranty gives you special legal rights and you may have other rights that vary from state to state.

CG-144

KIT No. 5504

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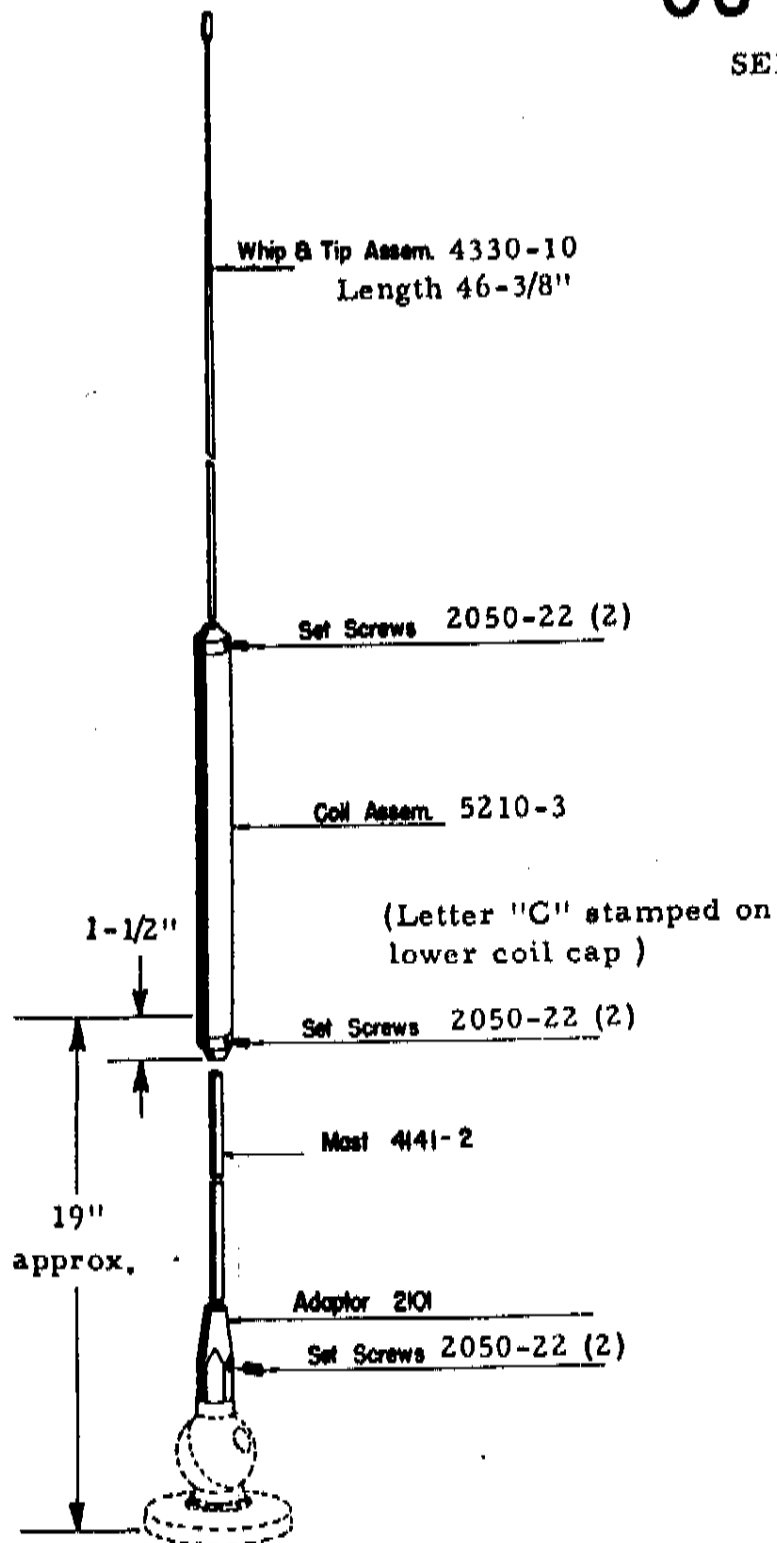
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# CG - 144

SERIES "A"



From lower section  
of ball mount to  
1-1/2" up in the phas-  
ing coil should equal  
1/4 wavelength at 2  
meters or approx. 19"  
for 144 to 148 MHz.