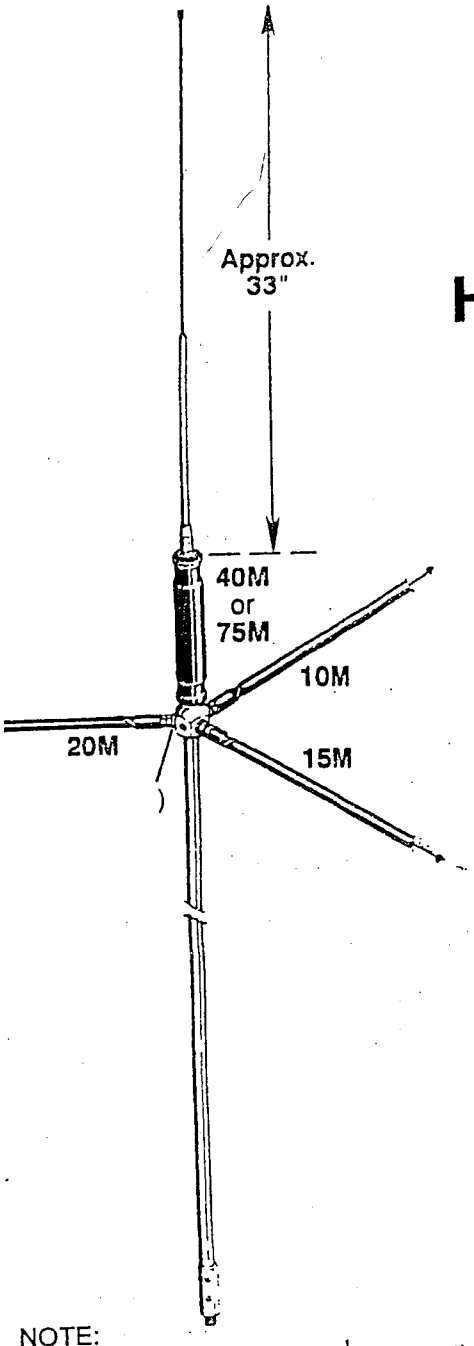
ASTATIC

World Famous Radio Mics

AST 6BTV
HF Portable Antenna



Using a good quality VSWR meter or directional wattmeter while applying enough power (per band) to achieve adequate readings, with the 40 meter resonator installed at the top, begin the tuning operation with ALL adjustable whip extensions at maximum length.

NOTE:
Shortening lengths raises resonant frequency.
Lengthening lowers resonant frequency.

START the 5 band procedure at 10 meters at 28.6 MHz.

1. Adjust the length of the whip of the 10 meter resonator for minimum VSWR or reflected power....

Next, 15 meters.....21.3 MHz.

1. Adjust the length of the whip of the 15 meter resonator for minimum VSWR or reflected power....

Next, 20 meters.....14.25 MHz.

1. Adjust the length of the whip of the 20 meter resonator for minimum VSWR or reflected power....

Next, 40 meters.....7.25 MHz.

1. Adjust the length of the whip of the 40 meter resonator for minimum VSWR or reflected power....

Next, remove the tuned 40 meter resonator and replace it with the 75/80 meter resonator....set transmitter frequency 3850 KHz

1. Adjust the length of the 75/80 meter resonator for minimum VSWR or reflected power.

NOTE:
During the initial tuning process lengths were changed as you stepped through the various bands. This slightly changed the entire antenna when one band was tuned, then another, and so on.

It is always smart to repeat the process AND, at this time, choose the specific section of bands or frequency of each band which you are most likely to use.

ALWAYS ASSURE GOOD OPERATION OF THE ANTENNA BY CHOOSING A MOUNTING LOCATION ON THE VEHICLE WHICH PROVIDES A GOOD GROUND PLANE....METAL BUMPERS ATTACHED TO THE FRAME ARE TYPICAL..... METAL TRUNK LIPS AND CENTER OF TRUNKS ARE ALSO GOOD IF THE MECHANICAL ASPECTS OF THE INSTALLATION ARE TAKEN INTO CONSIDERATION. ROOF MOUNTING IS ALSO GOOD BUT, AGAIN, CARE MUST BE TAKEN TO ASSURE THE MECHANICAL STRENGTH OF THE INSTALLATION RELATIVE TO THE THIN METAL SKIN OF THE ROOF.