

MFJ-17754 ADDENDUM

PLEASE NOTE:

This antenna uses metal cable clamps to allow for the easy, quick adjustment of the inner 20 meter length and of the outer 40 meter length without the need to cut any wires. Just simply loosen the clamp and pull the wire through the insulator (ceramic insulator or plastic coil insulator) and retighten the cable clamp. The distance between the center coax connector and each insulator determines each center frequency.

Original 20 meter center frequency before tuning is approximately 13.7 MHz.

Original 40 meter center frequency before tuning is approximately 6.8 MHz.

20 meter frequency change per foot is approximately 0.492 MHz.

40 meter frequency change per foot is approximately 0.516 MHz.

Actually amount to change on each side 0.6

Example: If the distance between the black plastic center coax insulator and each of the loading coils is shortened by six inches, this will give an overall length change of 1 foot and will raise the 20 meter frequency to $f_c = 13.7 \text{ MHz} + 0.492 \text{ MHz} = 14.192 \text{ MHz}$.

Please note that the above measurements refers to a flat dipole that was approximately 25 feet above ground.

THE 20 METER INNER SECTION MUST BE TUNED BEFORE THE OUTER 40 METER SECTION BECAUSE THE 40 METER SECTION USES THE COIL AS A LOADING COIL WHILE THE 20 METER SECTION SEES IT AS A HIGH IMPEDANCE.

