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# Kenneke Communications

## AM Whip Antenna

Dear KenComm Customer:

Thank you for purchasing our high performance AM part-15 antenna. Please review these instructions for proper antenna performance.

### Specifications

Operating Frequency	550 – 1750 kHz, tunable
Maximum Power	1 Watt
Maximum Length	3 Meters (lead included)

### Packing List

1. Matching unit box
2. Antenna Whip
3. These instructions

### Antenna Setup

To begin using your antenna, please completely review these instructions. Upon completing that, perform these steps:

- 1) Make sure power to your transmitter is OFF!!
- 2) Connect the included whip to the top of the matching unit. There is a friction fit on the top connector. If the whip is a bit loose, carefully use needle nose pliers to pinch to two friction fingers together.
- 3) Connect your AM transmitter to the antenna-matching unit using a UHF PL-259 connector.
- 4) IMPORTANT: using the connector on the side of the antenna-matching unit, connect a ground. A recommended ground would be a 6-foot copper ground stake fully driven into the soil. Mount the matching unit no more than 3 inches from the ground stake. Be sure to use heavy wire (like copper braid) to connect the ground stake to the matching unit.
- 5) Power up your transmitter and begin broadcasting. See the next section for ideas on improving range and performance.



- 6) Keep antenna unit in a sheltered location. It is water resistant, but not water proof. Direct rain will ruin the unit.

### **Performance and Tuning**

Your antenna was tuned at the factory for a nominal match. You can optimize the tuning for your broadcasting frequency by carefully following these steps:

- 1) Power off your transmitter, and disconnect the transmitter, whip, and ground from the matching unit.
- 2) Remove the four (4) screws on the cover of the matching unit. Carefully pull the cover off of the unit.
- 3) Inside, you will notice a white variable capacitor. It is about  $\frac{3}{4}$ " square, and has a brass knob in the center. This brass knob adjusts the antenna match.
- 4) With the cover stuff off, connect the whip, transmitter, and ground.
- 5) While adjusting the tuning capacitor, note improved signal strength. Make sure you check the signal strength when your hands are AWAY from the tuning unit. Any body parts or metal objects will affect tuning.
- 6) Once optimum range is achieved, reassemble and reconnect the tuning unit.

FCC Part-15 regulations allow you to use up to a 3-meter whip or piece of wire. By using a whip of the maximum size, range will be increased. We recommend using an alligator clip to connect a 3-meter piece of wire to the tuning unit. You will need to retune the antenna, but it should increase your range.