

Wolf RF Systems

<http://www.wolfrfsystems.com/>

2415 Union Chapel Rd

Fort Wayne, IN 46845

K9AY Loop Antenna AS-ALY-4 Trouble Shooting Guide

- 1) Disconnect at least one end of each loop from the relay box to measure the relay action without the loop shorting it out.
- 2) Connect an ohm meter to the ground terminal of the relay box and connect the other lead of the meter to the antenna terminal that corresponds to the direction switch (SE, NE, NW, SW) on the controller. It should only show a short to ground (through the balun windings) in the selected direction on the control box.
- 3) The opposite end of the loop connection (this will be SW terminal on the relay box, when the direction switch is set to NE, or NW when the SE direction is selected, etc.) should show the termination resistance. It will be between 330 to 680 ohms depending on the termination switch setting on the controller. You can rotate through the termination selection on the control box to insure that the termination resistance is changing.
- 4) Do this for all antenna directions. If all checks out, then the switching action of the controller, relay box and cable are connected, working correctly and the termination resistance circuits are OK as well.

Below are the voltages that appear on the connectors at either the control box or the outside relay box.

