



The DZ Company, LLC
4321 W. Eisenhower Blvd.
Loveland, CO 80537
970-667-2254

Sienna Construction Note 1/3/2010

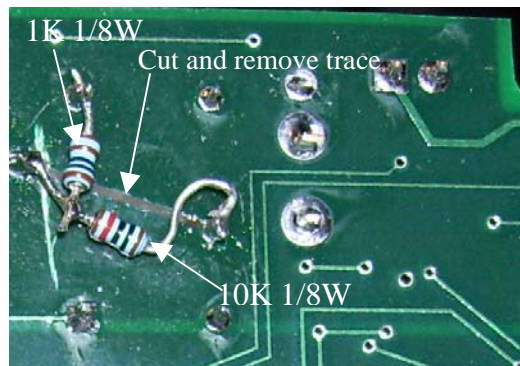
Transmitter power loss

Problem: In CW and FM modes, the transmitter gradually loses power.

Cause: A hardware problem on the Tx board causes the relay that switches between CW/FM and AM/SSB not to switch, causing the local oscillator not to feed into the CW/FM waveshaping circuit except via stray capacitance.

Fix: Add three resistors to the board and cut one trace, as follows:

- Cut the trace going from relay K12 pin 10 to the gate of Q21. This trace is on the back of the board. Remove the TxBPF board first to provide access to this area of the board. After cutting the trace, peel the entire trace off the board. See picture below.
- On the back of the board, solder a 10K 1/8W resistor in place of the trace you just cut. See picture below.
- Also on the back of the board, solder a 1K 1/8W resistor between the gate of Q21 and pin 1 (ground) of relay K12. See picture below.



- Solder a 1K 1/8W resistor between pin 3 of Q25 (a 6-pin SMT device) and the emitter of Q19 (VCC). VCC is also available on pin 1 of Q25. See picture below.

