



e-tek

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Dear FR-4tr owners:

A few owners of our Model FR-4tr Frequency Readout have experienced difficulty with readout stability on the 10 meter band, especially when the rig is equipped with an RV-4 Remote VFO. For this reason we are enclosing with this letter a 100ohm resistor and an LC network.

Because there is a wide variation from rig to rig, you will likely be able to discard this letter, but if you are experiencing stability problems, we recommend the following:

1. Remove the counter cable you installed on pin 7 of V1 in the transceiver and insert the enclosed 100 ohm resistor in series. (One end to pin 7 of V1 and the other end to the center conductor of the cable).
2. Remove the top cover of the FR-4tr by unscrewing the four sheet metal screws on the sides of the unit. Remove the four machine screws used to fasten the circuit board.
3. Place the FR-4tr on its feet with the front panel facing you.
4. Note the twisted cable coming from the left back connector to the circuit board. Observe also the heavy printed circuit trace running along the back edge of board, either on the top or bottom—this is ground. Carefully unsolder the ungrounded conductor of the input cable from the circuit board.
5. The coil portion of the enclosed filter has one short and one long lead. Solder the long lead to the point on the circuit board where the wire was removed (above). Solder the short coil lead to the ground trace.
6. The only remaining lead of the LC network is the unused end of the 33 pf capacitor. Solder this to the disconnected input lead.
7. Be certain all connections are secure and the leads are dressed such that they don't short to each other or to ground. New re-assemble the counter.

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Although this procedure will solve all problems in most cases, it is still good practice to align the injection crystal oscillator as indicated in your transceiver manual. For TR-3 owners this simple procedure may be found in section VIII-C, while TR-4 series owners will want to refer to Section 5-10.

We appreciate your business and will continue to keep you abreast of production changes as we make them.

73's



Max F. Farley-WA8DUY

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