



Technical Note TN-557
**Instruction for adjusting the
x4 multiplier in
T2000 800Mhz radios.**

03 March 1999

Applicability

T20XX-81X-XXX (Wide Band 800Mhz band radios).

Outline

The T2000 800Mhz radios use a x4 frequency multiplier circuit to produce the 51.2Mhz required by the 2nd IF mixer. Often if the multiplier is not correctly tuned a whistling noise can be heard on either transmit or receive.

For best operation the frequency multiplier should be adjusted as described below.

1. Adjustment

Note

Ensure that L204 is correctly tuned for maximum RSSI before starting this procedure. (Refer to T2000 Service Manual Section 6.5 for details).

Procedure

1. Remove TCXO PCB from radio.
2. Monitor the output from TP1 with a frequency counter. Use an oscilloscope x10 probe for suitable isolation.
3. Adjust CV212 until a reading of 51.375Mhz is obtained on the frequency counter.
4. Refit the TCXO PCB and again monitor TP1. Ensure a reading of 51.2Mhz is obtained on the frequency counter.

2. Issuing authority

**Name and position
of issuing officer**

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