



Technical Note TN-616

Introduction of New TCXO Module For T2000 Radios

2 May 2000

Applicability

This Technical Note only applies to the T2000 radio product range that requires $\pm 3\text{ppm}$, $\pm 2.5\text{ppm}$ and $\pm 2\text{ppm}$ TCXO crystal modules.

1. Introduction.

Information

Due to the collapse of the company that supplied Tait Mobile Radio with TCXO crystal modules, the design support team has sourced a new supplier of the TCXO modules. Our new supplier, RAKON, has now replaced the old supplier, SHOWA.

2. Information

What has changed?

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The TCXO crystal module (IC902) has had the supplier of the component changed. The new component is made by a company called **Rakon**.

The performance of the part is very similar, but the main consideration to take into account is that the trim cap is of a different design. The screw head of the trimmer cap is larger than the previous TCXO module. **Please ensure that you use the appropriate sized tuning tool when calibrating.** If the correct sized tuning tool is not used, the trimmer cap will possibly break off due to the angle and pressure, thus rendering the TCXO useless.

Tait Mobile Radio recommend that the following tuning tool be ordered: **IPN 937-00000-96 (Ceramic Tuning Tool 1.8mm)**

If a module is replaced for any reason, please check that the voltage control line on the TCXO is reading between 2.4 and 2.6V. Measure directly off the TCXO module with a high impedance voltmeter. If the readings are not correct, please contact Customer Support for instructions.

First Serial Number of Radios with these Modules:

Conventional Radio: 716332

Trunked Radio: 251800

CSO's: Please inform all Dealers and Sales personnel of these changes.

3. Issuing authority

Name and position of issuing officer

Barry Crates
Mobiles Customer Support Engineer