



Technical Support

TECHNICAL NOTE

Technical Note TN-921-SR

Tait Portables Programming Utilities Upgrade to v4.00.04

15 October 2004

Applicability

This Technical Note applies to the Tait Portables Programming Utilities.

1. Introduction

What is in this Technical Note?

The Tait Portables Programming Utilities (TPPU) 4.00.04 has been released to replace the previous Tait Programming Utilities 3.9.0.

The contents of this TPPU suite contains the following applications:

- Tait Orca Portable Conventional Programming Application v4.0.1
- Tait Orca Portable Trunked Programming Application v4.0.1
- Tait Orca Portable Calibration Application v4.0.2
- Tait Orca Portable Download and Configuration Application v4.0.1

This Technical Note details the changes to the TOP Installer, the TOP Calibration Application and TOP Download and Configuration Application.

For details of the changes to the TOP-CPA and TOP-TPA please refer to Technical Notes TN-922-SR and TN-923-SR respectively.

Hardware compatibility:

The TPPU suite of applications require the following minimum configuration:

- An IBM compatible PC with a Pentium microprocessor (or better)
- 32 MB of RAM
- A VGA colour graphics display
- A CD-ROM drive
- A Microsoft or compatible mouse and driver (if you wish

- to use the program with a mouse)
- Free serial com port for connection to radio

Operating System:

The applications are designed to work on Microsoft Windows Platforms, namely Windows 95, Windows 98, Windows NT 4.0 and Windows 2000.

The Tait Portables Programming Utilities v4.00.0 is available on CD-ROM from the Tait Software Issuing Authority as IPN 406-00003-07, or for download from support.taitworld.com under "Portables" > "Programming Software".

2. Changes to the TPPU Installer

Installer Program Change

The TOP TPPU v4.0.0 has been renamed from the Tait Programming Utilities (TPU) to the Tait Portables Programming Utilities (TPPU) to avoid confusion between other Tait Windows Programming Applications.

Because of this name change, any old version of the TPU must be uninstalled before installing the new version. The new installer will inform the user of this requirement.

The recommended method of uninstalling the previous TPU is to use the 'Add/Remove Programs' utility supplied in the Windows 'Control Panel' menu.

Other changes made to the TPPU Installer:

- FOCUS 16117: When installing the TPPU into anything other than the default directory the application would not install correctly. (Raised as TIMS 28804).
- FOCUS 16503: All TPPU Applications in some non-English installations were generating "ISAM" Error messages. (Raised as TIMS 30819).
- FOCUS 16365: Name change for the programming package to Tait Portables Programming Utilities. (Raised as TIMS 29115).
- The TPU applications will now default to the same language as selected during the TPU install (TIMS 18144).

3. Changes to the TOP Calibration Application

What has been resolved in this release?

The TOP Calibration Application v4.0.2 resolves the following issues:

- FOCUS 17306: The 'Medium' power level was being calculated incorrectly. After calibrating the radio a standard channel RF power output would be lower than the 2.5Watts expected for 'Medium' power. This was only an issue when re-calibrating the radio using the Calibration Application. The ATE equipment calibrates radios correctly. (Raised as TIMS 31822).
- The slider named "TCXO Modulation Adjustment" was re-labelled "Deviation Adjustment" in the Calibration Application v3.9.0, Instruction 8 has now been updated to refer to this new slider name. (Raised as TIMS 27680).
- Several other wording adjustments have been made:
 - In the TXCO Calibration test instruction 1 now reads "Connect the radio's antenna connector to a high power port of a test set up that can measure frequency"
 - In the 2.5 kHz Offset test instruction 1 now reads "Connect the radio's antenna connector to a high power port of a test set up that can measure frequency. NOTE: Ensure that the TCXO Calibration has been completed before doing this test."
 - In the Maximum Deviation test instruction 1 now reads "Connect the radio's antenna connector to a high power port of a test set up that can measure frequency modulation"
 - In the Modulation Balance test instruction 1 now reads "Connect the radio's antenna connector high power port of a test set up that can measure frequency modulation".
 - In the Modulation Balance test instruction 2 now reads "Set audio filtering to <20 Hz HPF and >15 kHz LPF. Turn off de-emphasis and set IF filtering to >50 kHz. NOTE: Ensure that the audio frequency generator is DC coupled if using 8920 test set."
- FOCUS 18165: The default level for 'L2' in the 'RSSI Threshold' test has been changed from -94dBm to -88dBm. This is to help improve the "Vote Now" performance of the Tait Orca. (Raised as TIMS 36253).

4. Changes to the TOP Download Application

What has been resolved in this release?

The TOP Download Application v4.0.1 resolves the following issues:

- FOCUS 17053: Some USB to serial adaptors would not function correctly when downloading firmware. (Raised as TIMS 30976).
- FOCUS 15879: COM 3 and / or 4 were not available in the Download Application even if COM 3 and / or 4 were physically present. (Raised as TIMS 28215).

Compliance Issues

None

CSO Instruction

CSO's – Please inform all logistics, sales and technical staff of these changes

5. Issuing Authority

Name and Position Of Issuing Officer

Tim Lummis
Technical Support Engineer

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Accredited Service Centre and Above

Document History

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