TECHNICAL NOTE TN-1095-SR

5010, 5015, 5018, 5020 Firmware Upgrade to 2.16 & TOP-CPA Upgrade to 4.10.00

10 October 2005

Applicability

This Technical Note applies to the firmware utilised in the Tait Orca 5010, 5015, 5018 and 5020 Conventional radios.

It also applies to the TOP Conventional Programming Application v4.10.00 used to read / program radio personality files.

1.   Introduction

The Orca Conventional Firmware v2.16 has been released to manufacturing to replace the previous firmware (v2.15) being installed in Tait Orca 5010, 5015, 5018 and 5020 Conventional products.

Version 2.16 firmware was first implemented in an Orca TOP-H2610-B0, radio serial number 14299350, job 103024191, on 25 October 2005.

What does this work with?

This Firmware is compatible only with the TOP Conventional Programming Application (TOP-CPA) v4.10.00 or later.

The TOP-CPA v4.10.00 is available on the Tait Portables Programming Utilities (TPPU) v4.10.00 CD-ROM from the Tait Software Issuing Authority as IPN 406-00003-10, or for download from support.taitworld.com under "Portables" → "Programming Software".

2.   Changes

What has been resolved in this release?

Firmware version 2.16 resolves the following issues in the Orca 5010, 5015, 5018 and 5020:

- FOCUS 18358: Resolved issue whereby Orca 5010 radios, with hardware version 0305 would not correctly indicate "out-of-lock" if powered up on an invalid channel. (Raised as TIMS 37055).
- FOCUS 19760: Resolved issue whereby the previously active channel was not remembered if the radio was reset from emergency mode by power cycling. (Raised as TIMS 43387).
- Resolved issue whereby 5018 radios could not set a New Status in the Alpha Symbols page. (Raised as TIMS 46657).
- Resolved issue whereby the audio power amplifier was not enabled as quickly when the radio was voting, compared to scanning. (Raised as TIMS 48780).
- Resolved issue whereby 5018 radios would not display the associated label for caller or status display. (Raised as TIMS 49877).
- Resolved issue whereby the radio microphone was still active during the CTCSS reverse tone burst, or the DCS end signalling. (Raised as TIMS 49892).

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| **Implemented Enhancements** | The feature enhancements to the PC Application TOP-CPA v4.10.00 below were implemented in conjunction with the Firmware v2.16 changes. |

- The 'Lone Worker' activation tones have been improved to make users more aware of the status of this feature. (Raised as TIMS 29930).
    - o The activation indicator is now fast flashing red LED, combined with high frequency tones for 3 seconds.
    - o The deactivation indicator is now fast flashing green LED, combined with low frequency tones for 3 seconds.
- A new feature has been added to the 'Power Save Features' page, called 'Backlight Activated When Mute Opened'. This allows control over whether the backlights will turn on upon receive activity, or not. **Disabling this will reduce receive current draw and therefore improve radio shift life.** (Raised as TIMS 36946).
- FOCUS 20805: A global 'Lead Out Delay' option has been added to the 'Subaudible Signalling Setup' page. In operation the radio will continue to transmit carrier after the PTT has been released. (Raised as TIMS 49281).
- A 'Proceed to Talk Tone' option has been added to the 'Selcall Features' page. This can only be used when 'Leading ANI' is enabled, and in operation emits a tone after the ANI has been transmitted indicating to the user they may proceed to talk. (Raised as TIMS 49700).

| **Changes to the TOP-CPA v4.10.00** | The TOP Conventional Programming Application v4.10.00 resolves the following issues: |

- FOCUS 21980: Resolved issue whereby when using the 'Reassign' option on the 16-way selector, a scan group could not be assigned to any position. (Raised as TIMS 50197).
- FOCUS 20410: Resolved issue whereby two specific fields were not printed correctly. (Raised as TIMS 47656).
- Resolved issue whereby certain function assignments to Function Key 3 were not retained correctly. (Raised as TIMS 49924).

| **Compliance Issues** | None |

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

3.　Issuing Authority

| **Name and Position of Issuing Officer** | Tim Lummis Technical Support Engineer |

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| **Distribution Level** | Associate |

| **Document History** | Original Release | 10 October 2005 | TPL |
| | First serial number information added | 1 May 2006 | TPL |

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