

Technical Note TN-800

Tait Orca 5010, 5015, 5020 Firmware Upgrade to 2.11 & TOP-CPA Upgrade to 3.8.1

19 September 2003

Applicability

This Technical Note applies to the firmware utilised in Tait Orca 5010, 5015 and 5020 Conventional radios. It also applies to the Conventional Programming Application v3.8.1 used to read/program radio personality files.

1. Introduction

What is in this Technical Note?

The Orca Conventional Firmware v2.11 has been released to manufacturing to replace the current Firmware (v2.08) being installed in Tait Orca 5010, 5015 and 5020 Conventional products.

Version 2.11 Firmware was first implemented in an Orca XXXX, radio serial number XXXXXXXX, job XXXXXXXX, date XX Month 2003.

This Firmware is compatible only with Tait Orca Conventional Programming Application TOP-CPA v3.8.1 or later.

What does it work with?

The TOP-CPA v3.8.1 is available on the Tait Programming Utilities TPU v3.8.1 CD-ROM, or available for download from support.taitworld.com.

2. Changes

What has been resolved in this release?

The Firmware version 2.11 resolves the following issues in the Orca 5010, 5015 and 5020:

- FOCUS 12074: Resolved issue whereby radio is indicating that an Intrinsically Safe battery is flat when it is not (Raised as TIMS 21364).
- Implemented confirmation tones when Lone Worker feature enabled/disabled (Raised as TIMS 14872).
- FOCUS 12400: Resolved issue where scan groups above the 256th channel ID were not scanned on an Orca 5020 (Raised as TIMS 21923).

Implemented Enhancements

The feature enhancements to the PC Application TOP-CPA v3.8.1 below were implemented in conjunction with the Firmware v2.11 changes.

 Mandown Accessory has been implemented. Please note this new feature is not scheduled for release to market until late 2003.

This is a new tick box on the <u>General Options</u> page. It is to be utilised with the TOPA-PS-101G Motion Sensor accessory. If ticked, the inactivity or warning timers will be reset if motion is detected or a key is pressed. If inactivity timer expires due to no motion being detected, the warning timer will activate giving the user time to move, or press a key. If the warning timer expires an emergency call will be made (either Selcall or DTMF) depending on what is programmed. (Raised as TIMS 17776).

- CTCSS and DCS signalling now allowed on the same channel. (Raised as TIMS 16022).
- Channel Banks feature added to Orca 5020 (Raised as TIMS 18381).

This feature provides a new method of channel switching. It divides the total available channels into banks (blocks) of channels. There are then two options of navigating the channels. These new options are available on the <u>Channel Selection</u> page. The options are in the 16-way Selector field.

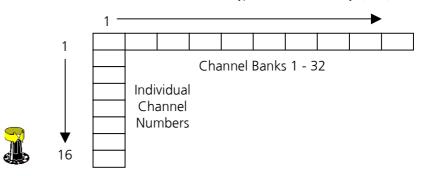
Banking – Channel Selection

When selected, the channel rotary selector of the radio will correspond to the channel to be selected

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from within the currently active channel bank (block). The numeric keypad will handle changing of channel banks. Also the scroll/arrow keys (\P) scroll from channel bank to channel bank, a press of the Enter (\checkmark) key confirms selection of a specific channel bank.

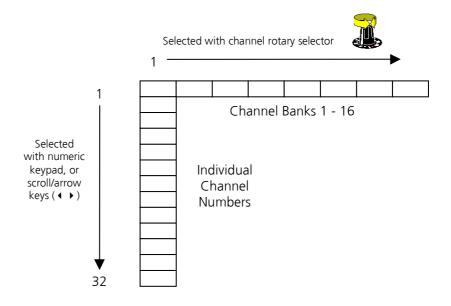
Selected with numeric keypad, or scroll/arrow keys (◀ ▶)



Banking – Bank Selection

When selected, the channel rotary selector of the radio will correspond to the channel bank (block) to be selected.

The numeric keypad will handle the changing of channels. The scroll/arrow keys (◀ ▶) scroll from channel to channel within the active channel bank.



 On a 5010 up to 75 channels may now be defined. Then utilising the <u>Channel Selection</u>, <u>16-way Selector</u> field select <u>Reassign</u> to assign any of the 75 channels to the 16-way channel selector. (Raised as TIMS 18192).

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Changes to the TOP-CPA v3.8.1

- The field <u>Low Power Transmit Control</u> in <u>the User Selectable Parameters</u> has been re-labelled <u>Set Low Power on all Channels</u>. (Raised as TIMS 11454).
- Flexiscan uses Channel ID 510. An error message is generated when a user attempts to save or program a radio informing them that ID 510 cannot be used and must be changed. This applies to 5010, 5015, and 5020 radios only. (Raised as TIMS 14821).
- Some of the Selcall DZVEI tones were found to be incorrect, this has been rectified. (Raised as TIMS 15527).
- Corrected error messages that would occur on certain pages when switching languages. (Raised as TIMS 15602).
- Corrected an error whereby switching radio models would result in an error message and function key setting being lost. (Raised as TIMS 15618).
- On the <u>Selcall Identity and Setup</u> page, the <u>RMR Sequence</u> field had no limit on the number of characters that could be entered. This has now been altered to a maximum of 8 characters. (Raised as TIMS 15623).
- On the <u>Subaudible Signalling Setup</u> page, the <u>Invalid Confirmation Delay</u> was incorrectly defined as CTCSS/DCS. This has been corrected; the Invalid Confirmation Delay is for CTCSS only. (Raised as TIMS 16382).
- The default <u>Squelch Level</u> setting on the <u>Channels</u> page has been changed to <u>Country</u>. (Raised as TIMS 16677).
- Tait Orca Elan, Excel and Eclipse radio's do not offer short and long keypress options for external function keys. The programming application has been modified to reflect this. Now only a long keypress can be assigned for external function keys. Volume increase and decrease can also be assigned to the external function keys for an Orca Eclipse radio. (Raised as TIMS 17915).
- Corrected issue of unreliable communications when using USB serial port. (Raised as TIMS 18349).
- Corrected issue whereby under certain circumstances a scan group could include another scan group ID. Which would cause the radio to encounter a system error. (Raised as TIMS 21538).
- Programming application has been re-branded utilising the new Tait logo. (Raised as TIMS 21735).

Current Limitations

The TOP-CPA 3.8.1 does not resolve the following issues:

- The ability to read and program the Tait Radio Modem. (Raised as TIMS 17431). A solution for this has been postponed until the next scheduled release of the TOP-CPA.
- Follow the instructions below to install TOP-CPA 3.5.0. which is capable of reading and programming the Tait Radio Modem, in a separate directory.

NOTE: At time of release of this Technical Note this information was not available. This Technical Note will be updated and reissued when this information is available.

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

Tait Only

Document History

Original Release

19 September 2003 TPL

Modified as Graphics were 23 September 2003 BLC when

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Tait Electronics Limited Telephone: +64–3–358–3399 Facsimile: +64-3-358-3903 PO Box 1645, Christchurch, New Zealand

support.taitworld.com