



Technical Note TN-732

Firmware upgrade for the Tait Orca 5010 and 5020 Conventional radios to v2.05

12 August 2002

Applicability

This Technical Note applies to both the Tait Orca 5010 and Tait Orca 5020 Conventional portable radios.

1. Introduction

What is in this Technical Note ?

The Orca Conventional Firmware v2.05 has been released into production to replace the current Firmware (v2.03) being installed in Tait Orca 5010 and Tait Orca 5020 Conventional products.

Version 2.05 resolves some issues raised on v2.03 and earlier Firmware versions.

(This Conventional Firmware release has been first implemented in Orca 50x0, radio serial number xxxxxxxx, job xxxxxxxx, date xx August 2002.) This information will be updated as soon as implemented in production.

What does it work with ?

This Firmware is only compatible with Tait Orca Conventional Programming Application v3.5.0 or later.

The Orca CPA v3.5.0 is available on the Tait Programming Utilities TPU v2.3 CD-ROM and supports the Audio Noise Reduction, Tone Blanking and Flexiscan enhancements.

2. Resolved Issues

What has been resolved in this release ?

The Firmware version 2.05 resolves the following issues in the Orca 5010:

- Receive audio stays muted until voting is complete. Raised as TIMS 6267.
- Implemented Firmware solution for Selcall Tone Blanking that chopped the receive audio. Raised as TIMS 6339.
- Corrected use of the internal port lines, which was causing intermittent audio cutout. Raised as TIMS 7379.
- CTCSS encode momentarily stopped when using ANI. Raised as TIMS 7895.

- Changed ASIC clock line to solve power-off delays. Raised as TIMS 8179.
- Implemented the ANR (Audio Noise Reduction) enhancement. Raised as TIMS 8528.
- Squelch Override closure now returns the squelch to the state it was in before it was overridden. Raised as TIMS 8674.
- Implemented Flexi-Scan enhancement. Raised as TIMS 8809.

The Firmware version 2.05 resolves the following issues in the **Orca 5020**:

- Allow the '9' key to be used when in group, and signalling, programming modes. Raised as TIMS 6247.
- Receive audio stays muted until voting is complete. Raised as TIMS 6267.
- Implemented Firmware solution for Selcall Tone Blanking that chopped the receive audio. Raised as TIMS 6339.
- Corrected the use of the clear key (X) to exit Keypad Lock. Raised as TIMS 6354.
- Corrected use of the internal port lines, which were causing intermittent audio. Raised as TIMS 7379.
- CTCSS encode momentarily stopped when using ANI. Raised as TIMS 7895.
- Changed ASIC clock line to solve power-off delays. Raised as TIMS 8179.
- Queued messages could not be cleared. Raised as TIMS 8449.
- Implemented the ANR (Audio Noise Reduction) enhancement. Raised as TIMS 8528.
- Squelch Override closure now returns the squelch to the state it was in before it was overridden. Raised as TIMS 8674.
- Implemented the Flexi-Scan enhancement. Raised as TIMS 8809.

Compliance Issues None.

CSO Instruction Please inform all technical staff and accredited dealers of v2.05 Firmware release.
Upgrade portable radios with known issues that can be resolved with v2.05 Firmware.

3. Issuing authority

Name and position of issuing officer Graham Brenchley
Customer Support Engineer

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