



---

## Technical Note TN-706

# Firmware upgrade for the Tait Orca 5010 and 5020 Conventional radios to v2.03

10 April 2002

---

### Applicability

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

---

## 1. Introduction

### What is in this Technical Note

Orca Conventional firmware v2.03 has been released into production to replace the current firmware (v2.02) being installed in Orca 5010 and Orca 5020 Conventional product.

Version 2.03 resolves some issues raised on v2.02 and earlier firmware versions.

This Conventional firmware release has been implemented from radio serial number **14149517**, job **160856**, date **9 April 2002**.

### What does it work with?

This Firmware is only compatible with Tait Orca Programming Application PGM v3.4.0 or later software.

The latest full version of software with PGM version 3.4.0, Tait Programming Utilities (**TPU version 2.2**), can be downloaded from the worldwide web at [www.taitworld.com/support](http://www.taitworld.com/support) however, this is a 34MB file, and is also available on CD-ROM from Tait Electronics Ltd.

### Important installation issues with v3.4.0

Before the new Tait Programming Utilities (**TPU v2.2**) which includes MPT Trunked PGM v3.4.0, Conventional PGM v3.4.0, Calibration v3.4.0, Download and Configuration v3.4.0, and Manuals, is installed, the older versions of TPU already on the computer **MUST** be removed.

The most effective way to accomplish this is to use the TPU v2.1 CD-ROM to remove the old files, then use the TPU v2.2 CD-ROM to install the new files.

### Trouble shooting

If any complications arise with updating the Tait Programming Utilities v2.2, please e-mail [support@taitworld.com](mailto:support@taitworld.com).

## 2. Resolved Issues

### What is new in this release

The v2.03 Orca Conventional radio firmware resolves the following issues for the **Tait Orca 5010**:

- Transparent mode auto-start now throws away characters received before the Orca 5010 radio is fully started. Raised as TIMS 5191.
- Handset mode operation no longer times-out during transmit. Raised as TIMS 5245
- Updated the calibration version to v1.03. Please refer to instructions below about upgrading earlier firmware versions of Orca 5010 to v2.03. Raised as TIMS 5880.

The v2.03 Orca Conventional radio firmware resolves the following issues for the **Tait Orca 5020**:

- Transparent mode auto-start now throws away characters received before the Orca 5020 radio is fully started. Raised as TIMS 5191.
- Handset mode operation no longer times-out during transmit. Raised as TIMS 5245
- Updated the calibration version to v1.03. Please refer to instructions below about upgrading earlier firmware versions of Orca 5020 to v2.03. Raised as TIMS 5880.
- Correct the use of the terms Firmware and Software in the radio. Firmware vX.XX will be displayed on an Orca 5020 rather than Radio Software SWR X.XX when the radio user displays the information from the radio's menu. Raised as TIMS 5737.

### 3. Upgrading Radios

#### Upgrading an existing radio?

**It is imperative when upgrading an Orca 5010 or Orca 5020 conventional radio to first launch the Calibration PGM and read the radio's calibration data, save this file. Launch the MPT Trunked PGM and read the radio's personality and save this file.**

- Using the PGM top menu TOOLS, launch the Download, click Specifications and Read Radio.
- Click Download; Browse for the location that you have saved the new Orca Conventional firmware v2.03, then click Download.
- Follow the dialog box prompts until completion.
- To put the radio into Bootstrap Mode when prompted.

*(Switch off the radio, depress and hold function button 1 (uppermost on the PTT side of the radio) power up the radio then release the function button. The radio will have powered up with a blank display).*

- Upon completion of the upgrade relaunch the Trunked PGM, open and load the existing personality and program this into the radio.
- Relaunch the Calibration software and open and load the existing data file, program this into the radio.

#### Compliance Issues

None, unless specific firmware versions are required by a network provider.

#### CSO action

Please inform all Tait internal technical and sales staff, and Tait accredited dealers of v2.03 firmware release.  
Upgrade portable radios with known issues that can be resolved with v2.03 firmware.  
Upgrade all computers to TPU v2.2 if an upgrade to the latest PGM software (v3.4.0) is considered.

### 4. Issuing authority

#### Name and position of issuing officer

Graham Brenchley  
Customer Support Engineer