



Technical Note TN-754

Firmware upgrade for the Tait Orca 5000 MPT Trunked radios to v4.15

4th December 2002

Applicability

This Technical Note applies to the Tait Orca 5030, 5035 and 5040 MPT 1327 Trunked portable radios.

1. Introduction

What is in this Technical Note ?

The Orca MPT Trunked Firmware v4.15 has been released into production to replace the current production Firmware (v4.14) currently used in Tait Orca 5000 MPT 1327 Trunked portables. This Trunked Firmware release has been first implemented in an Orca 5035, radio serial number **14174547**, job **166353**, date **4 December 2002**.

What does it work with ?

This Firmware is only compatible with Tait Orca Trunked Programming Application v3.5.0 or later. The Orca TPA v3.5.0 is available on the Tait Programming Utilities TPU v2.3 CD-ROM.

2. Resolved Issues

What has been resolved in this release ?

The Firmware version 4.15 resolves the following issues in the **Orca 5030**:

- Audio Noise Reduction (ANR) has now been implemented on MPT Trunked channels. Raised as TIMS 9676.
- Channel barring forced the radio to receive an active control channel when a Go-To-Channel (GTC) was received. Raised as TIMS 10731.
- Radios were unable to call a diverted radio from a function preset. Raised as TIMS 11023.
- Resolved the 'siren-like' tones emanating from the speaker when setting up calls with the PTT. Raised as TIMS 11353.
- Resolved the issue of the radio resetting on first PTT press after setting up a call. This was found on MPT systems that use Pressel-On messages for gating control. Raised as TIMS 11368. Refer to Product Alert 070.
- Pressel-Off messages were being corrupted as the DSP sometimes returned the Queue Processed Command before the SYNT part of the message. Raised as TIMS 11397.

The Firmware version 4.15 resolves the following issues in the **Orca 5035**:

- Audio Noise Reduction (ANR) has now been implemented on MPT Trunked channels. Raised as TIMS 9676.
- Channel barring forced the radio to receive an active control channel when a Go-To-Channel (GTC) was received. Raised as TIMS 10731.
- Radios were unable to call a diverted radio from a function preset. Raised as TIMS 11023.
- Resolved the 'siren-like' tones emanating from the speaker when setting up calls with the PTT. Raised as TIMS 11353.
- Resolved the issue of the radio resetting on first PTT press after setting up a call. This was found on MPT systems that use Pressel-On messages for gating control. Raised as TIMS 11368. Refer to Product Alert 070.
- Pressel-Off messages were being corrupted as the DSP sometimes returned the Queue Processed Command before the SYNT part of the message. Raised as TIMS 11397.

The Firmware version 4.15 resolves the following issues in the **Orca 5040**:

- Audio Noise Reduction (ANR) has now been implemented on MPT Trunked channels. Raised as TIMS 9676.
- Channel barring forced the radio to receive an active control channel when a Go-To-Channel (GTC) was received. Raised as TIMS 10731.
- Radios were unable to call a diverted radio from a function preset. Raised as TIMS 11023.
- Orca 5040 Maintenance Messages were being corrupted. Changed the state before calling up the function to 'send the pre-amble'. This reduces the chance of sending two codewords at the same time. Raised as TIMS 11126.
- Resolved the 'siren-like' tones emanating from the speaker when setting up calls with the PTT. Raised as TIMS 11353.
- Resolved the issue of the radio resetting on first PTT press after setting up a call. This was found on MPT systems that use Pressel-On messages for gating control. Raised as TIMS 11368. Refer to Product Alert 070.
- Pressel-Off messages were being corrupted as the DSP sometimes returned the Queue Processed Command before the SYNT part of the message. Raised as TIMS 11397.

Compliance Issues None, unless a specific Firmware version is required by a network provider.

CSO Instruction Please inform all technical staff and accredited dealers of v4.15 Firmware release.
Upgrade portable radios with known issues that can be resolved with v4.15 Firmware.

3. Issuing Authority

Name and position of issuing officer Graham Brenchley
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