



Technical Note TN-615

1. TOP Elan/Excel Trunked New V3.07 Firmware
2. TOP Trunked New V1.25 Programming Software

1. TOP Elan/Excel Trunked V3.07 Firmware

Applicability Software changes to TOP Elan/Excel Trunked have been made, resulting in the release of a new version of enhanced radio firmware, V3.07. This firmware will be used in all future productions of TOP Elan and Excel Trunked Radios.

Serial Number 3.07 will be included into all Elans manufactured after S/N **14056643** and Excels after S/N **14056451**.

1.1 New features available V3.07 Firmware

Feature	Description	Impact on Customer
Short Data Messages	The radios can receive and display short data messages (SDMs)	Capable of receiving data
Multiple language radio messages	The radios can display user messages in English, French, German and Spanish	Great benefit for non-English speaking countries
Limited Dynamic Regroup	Some limited functionality of Dynamic Regroup is available	Please refer to limitations below

1.2 Compatibility of V3.07 Firmware

The recommended PC software products that meet the compatibility criteria are Orca programming software V1.25 or greater and Orca calibration software V2.02

This product is compatible with the following software products:

- Orca Programming Software capable of programming trunk radio software with main database version 1.07
- Orca Calibration Software capable of programming trunk radio software with main database version 1.06 and calibration database 1.00
- Orca DSP software version 1.06
- Tait Orca Elan/Excel Users Manual: IPN 409-002200-02

K band UHF	Orca PCB 900 MHz Main Radio Board variant 02: IPN 220-01610-02 Orca PCB 900 MHz Main Radio Board variant 02: IPN 220-01610-03
UHF	Orca PCB UHF Main Radio Board variant 06 : IPN 220-01392-06 Orca PCB UHF Main Radio Board variant 07 : IPN 220-01392-07 Orca PCB UHF Main Radio Board variant 08 : IPN 220-01392-08 Orca PCB UHF Main Radio Board variant 09 : IPN 220-01392-09 Orca PCB UHF Main Radio Board variant 10 : IPN 220-01392-10 Orca PCB UHF Main Radio Board variant 11 : IPN 220-01392-11 Orca PCB UHF Main Radio Board variant 11 : IPN 220-01603-04 Orca PCB UHF Main Radio Board variant 11 : IPN 220-01603-15 Orca PCB UHF Main Radio Board variant 11 : IPN 220-01624-02
G band UHF	Orca PCB sub-UHF Main Radio Board variant 01: IPN 220-01503-01 Orca PCB sub-UHF Main Radio Board variant 02: IPN 220-01503-02 Orca PCB sub-UHF Main Radio Board variant 03: IPN 220-01503-03 Orca PCB sub-UHF Main Radio Board variant 04: IPN 220-01503-04 Orca PCB sub-UHF Main Radio Board variant 04: IPN 220-01503-05
VHF	Orca PCB VHF Main Radio Board variant 04 : IPN 220-01401-04 Orca PCB VHF Main Radio Board variant 03 : IPN 220-01588-03 Orca PCB VHF Main Radio Board variant 03 : IPN 220-01588-04

1.3 Known issues remaining with V3.07 Firmware

Feature	Description	Impact on Customer
Dynamic Regroup	Dynamic regroup interrogation does not work. Also dynamic regroup will not work when more than 8 groups are defined.	Partial functionality. Customer notification necessary.
Battery management problems	Radio resets cyclically when switched on with low batt and low battery power does not turn radio off while on Tx	Irritation. Customer education required
Battery Indicator	Battery indicator very inaccurate. Two bars displayed represents somewhere between 10% - 90% capacity	Irritation. Customer education required
Knob position may override on an invalid user action	Radio might change operational mode after invalid user action to actual knob position rather than staying in most recent mode as defined via the keypad	Minimal. Customer education required (change operational mode using knob not keypad)
Audible indicator for invalid action sometimes will not sound	In some cases an audible indicator does not sound to indicate an invalid action	Minor irritation
Conventional Channel problem	When radio is used in conventional mode, and the user transmits while the carrier is present, then there will be no modulation on the carrier from the user until PTT is re-keyed.	Irritation to conventional channel users.

DTMF	DTMF interdigit hold time needs to be 800ms or greater for successful operation	Minor. Technical note to be issued.
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2. TOP Trunked New V1.25 Programming Software

Applicability Software changes to TOP Trunked Programming Software have been made, resulting in the release of a new version of programming software, V1.25. This software is required to program TOP Excel radios with radio firmware V3.07. It is optional for all other conventional TOP radios.

2.1 New features available V1.25 Software

Feature	Description	Impact on Customer
Multiple Languages	Add Portuguese and Spanish radio message option to PGM	Improvement for Spanish and Portuguese users

2.2 Compatibility of V1.25 Software

Item	Description
User Manuals	The new features are described in the manual : IPN 439-51200-01
Trunked Radio Firmware Database	Versions : 1.01, 1.02, 1.03, 1.04, 1.05, 1.06, 1.07 V1.25 is backwards compatible.

2.3 Known issues remaining with V1.25 Software

Issue	Description	Impact on Customer
There are no known issues with this version of PGM		Excellent!

Note to CSO's Please ensure that all external customers and internal logistical personal are aware of the change in required programming software. This Firmware is available from www.taitworld.com

Issuing authority Terry McCartin
MRD Customer Support - Tait Orca Portables
<mailto:terry.mccartin@tait.co.nz>
DDI: +64 3 358 6650