

Technical Note TN-603

- TOP-xx12x Elan Trunked New V3.03 Firmware
- TOP-xx22x Excel Trunked New V3.03 Firmware
- TOP Trunked New V1.21 Programming Software

1. TOP-xx12x Elan Trunked V3.03 Firmware

Applicability Software changes to TOP-xx12x Elan Trunked have been made, resulting

in the release of a new version of enhanced radio firmware, V3.03. This software will be used in all future productions of TOP Elan Trunked

Radios.

Serial Number "G" and "I" band radios not in production as at 30/11/99. All other bands

will be after serial number 14041912.

1.1 New features available V3.03

Feature	Description	Impact on
		Customer
2 digit Group Select	A fix to allow group select within 2 digit	Significant
	MPT1343 fleet	improvement for
		users.
LM4	Add MPT feature LM4	Minor for end
		user
Ready for microphone	This firmware is ready for top microphone.	Future feature
switching	Allows user to switch between bottom and top	1Q2000
	microphone.	
	Radio Hardware Dependant. Wait for	
	separate product announcement.	

1.2 Compatibility of V3.03

This product is compatible with the following software products:

- Orca Programming Software capable of programming trunk radio software with main database version 1.06
- 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
- The recommended PC software products that meet the compatibility criteria are Orca programming software V1.20 or greater and Orca calibration software V2.02

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

• Tait Orca Elan Users Manual: IPN 409-002200-01

K band UHF	Orca PCB 900 MHz Main Radio Board variant 02:	IPN 220-01610-02
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
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
T T T T T T T T T T T T T T T T T T T		TDN 220 01 401 04
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

1.3 Known issues remaining with V3.03

Feature	Description	Impact on Customer
Group clear call	Radio sometimes transmits no clear over the	Group calls
	air interface after group call is cleared	sometimes not cleared
		by initiator
Cosmetic user	Sometimes no transmit indicator for the very	Minor irritation
interface	first Tx.	
problems		
L1	Tait feature L1 not yet added	No impact
Battery	Radio resets cyclically when switched on with	Minor irritation,
management	low battery	customer education
Multiple	Multiple registration flags	Re-registration on
registration flags		busy networks might
		take longer.

2. TOP-xx22x Excel Trunked V3.03 Firmware

Applicability Software changes to TOP-xx22x Excel Trunked have been made,

resulting in the release of a new version of enhanced radio firmware, V3.03. This software will be used in all future productions of TOP Excel

Trunked Radios.

Serial Number Production of "G" and "I" band radios between 14034151 and 14035000

will have V3.03. All other bands will be after 14040571

2.1 New features available V3.03

Feature	Description	Impact on
		Customer
Background hunt	Fix for radio going into background hunt and	Significant
	staying there	improvement for
		users.
2 digit Group Select	A fix to allow group select within 2 digit	Significant
	MPT1343 fleet	improvement for
		users.
Car Kit	Radio will now Tx while in TOVK on	Significant
	conventional channel	improvement for
		users.
Join Busy Group	Fix to allow radio to join busy group	Significant
		improvement for
		users.
Cosmetic user	Fix monitor indicator appearing while	Minor
interface fixes	pressing PTT in trunked mode	improvement for
	Fix radio clicking when dispatch key	users.
	pressed	
	• Fix DTMF icon flashing while hunting	
LM4 and L1	Add MPT feature LM4 and Tait feature L1	Minor for end
		user
Truncated confidence	Keypad lock confidence tones and scroll tones	Minor
tones	will no longer be truncated	improvement
Radio "stunned"	LED will flash red to indicate the radio has	Minor
	been stunned	improvement
Ready for microphone	This firmware is ready for top microphone.	Future feature
switching	Allows user to switch between bottom and top	1Q2000
	microphone.	
	Radio Hardware Dependant. Wait for	
	separate product announcement.	

2.2 Compatibility of V3.03

This product is compatible with the following software products:

- Orca Programming Software capable of programming trunk radio software with main database version 1.06
- 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
- The recommended PC software products that meet the compatibility criteria are Orca programming software V1.20 or greater and Orca calibration software V2.02
- Tait Orca Elan Users Manual: IPN 409-002200-01

K band UHF	Orca PCB 900 MHz Main Radio Board variant 02:	IPN 220-01610-02
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
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
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

2.3 Known issues remaining with V3.03

Issue	Description	Impact on Customer
DTMF	After several keys are pressed in DTMF mode,	Cannot use DTMF
overdialing in	system error 55 occurs	overdial feature in
Nokia Networks		Nokia networks
Database	The radio would sometimes go into database	Database corruption
corruption in	error on reception of an AHYI. This AHYI	when AHYI dynamic
GANS dynamic	would have to be received a number of times	regrouping is used
regroup	before it happened	
Group clear call	Radio sometimes transmits no clear over the air	Group calls
	interface after group call is cleared	sometimes not cleared
		by initiator
Cosmetic user	Sometimes no transmit indicator for the	Minor irritation
interface	very first Tx.	
problems	Night use timer does not overwrite	
	backlight timer	
Battery gauge	Battery indicator very inaccurate, 2 bars	Minor irritation,
	indicate between 90% and 10% capacity	customer education
Battery	Radio resets cyclically when switched on with	Minor irritation,
management	low battery	customer education
Operational	If radio knob has selected a conventional	Minor irritation,

modes	channel, but radio is in trunked mode, then an	customer education
	invalid key entry will change radio mode from	
	trunked to conventional	

3. TOP Conventional New V1.21 Programming Software

Applicability

Software changes to TOP Trunked Programming Software have been made, resulting in the release of a new version of programming software, V1.21. This software is required to program TOP Excel radios with radio firmware V3.03. It is optional for all other conventional TOP radios.

3.1 New features available V1.21

Feature	Description	Impact on
		Customer
Join busy group	Add a programmable field for join busy group	New feature
Saving of data files to	Resolves a bug with V1.20 where data files	Minor
other than "C:"	saved a location other than default directory	Improvement
	were being corrupted	
LM4 and L1	Add MPT feature LM4 and Tait feature L1	Minor for end
		user
Site Select	This feature now available on both long and	Minor
	short presses of the function key	improvement
Help Files	The help files now all aligned	Minor
		improvement
Ready for microphone	This firmware is ready for top microphone.	Future feature
switching	Allows user to switch between bottom and top	1Q2000
	microphone.	
	Radio Hardware Dependant. Wait for	
	separate product announcement	

3.2 Compatibility of V1.21

Item	Description
User Manuals	The new features are described in the manual: IPN 439-51200-01
Trunked Radio	Versions: 1.01, 1.02, 1.03, 1.04, 1.05, 1.06
Firmware Database	V1.21 is backwards compatible.

3.3 Known issues remaining with V1.21

Issue	Description	Impact on Customer
Multiple languages	Multiple languages are not supported	Programmer has to use English

Multiple networks	Software does not support multiple networks	Customer can
		only have one
		network
		programmed

Note to CSO's

This information is primarily of a technical nature. Use this information to fix reported problems. Distribute the firmware and the programming software as required only.

Issuing authority Terry McCartin

MRD Customer Support - Tait Orca Portables

mailto:terry.mccartin@tait.co.nz DDI: +64 3 358 6650