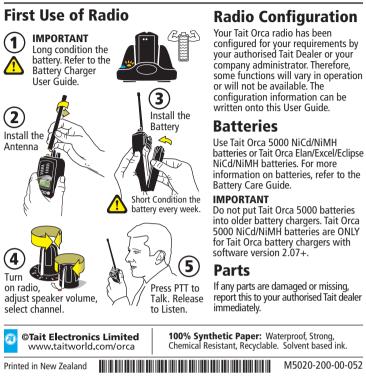
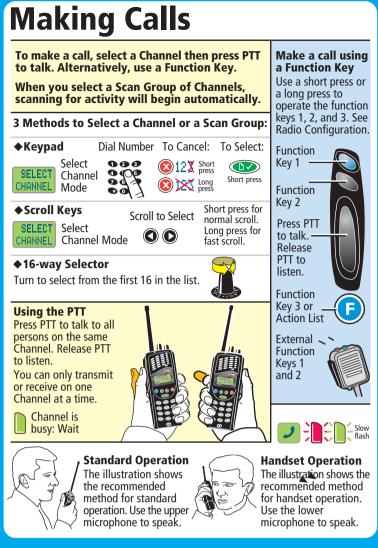


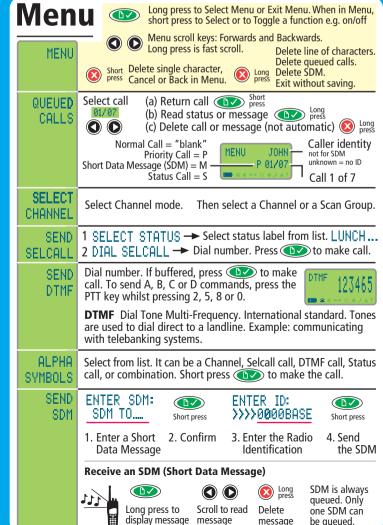
5020

### **Getting Started**









#### **Selcall Calls** Variable Selcall **Preset/Fixed Selcall** 999 Select a Selcall Channel Select a Selcall Channel Select the appropriate Function Key to make the call. Preset Call #1 (Selcall) Preset Call #2 (Selcall) ◆ Fixed Selcall Sequence Short press or Long press Select Dial Selcall from F3 Action List or Menu Press PTT to talk. Release PTT to listen. E A SELCALL **Emergency Calls and One Touch Selcalls** You may need to Select a Selcall Channel. 🚺 Short press Dial the Selcall number: Select the appropriate Function Key to make the call. Emergency Call (Selcall) Central (Seical) Central (Seical) One Touch Call. This uses 🛛 12 🗶 🐼 🔀 the first Alpha Symbol, Short press Long press Short press or Long press which can be configured as a Selcall call. Short press Press PTT to talk. Release PTT to listen. Deferred Callback for Selcall If busy, the call will be Press PTT to sent when Channel is free: up to 15 tries (if configured). talk. Release To cancel the call: To exit 🕕 PTT to listen. Change Channel or turn radio off. Selcall: Long press **Receive a Selcall Call Receive a Status Message** 1 Press PTT to talk. 11 Example There is usually no need to respond to CALL Ĭ JANE -Caller a Group Selcall. AT LUNCH identity Example JANE \_\_\_\_ Caller Identity CALL

Status Message (8 characters)

or Status Number 00 to 99

### Menu

STAT 00 -

- Call status

SET	USER TINGS	HANDSET <ul> <li>Handset mode: on/off</li> <li>Transmit at low power: on/off</li> <li>Transmit at low power: on/off</li> <li>Keypad locked</li> <li>Long press to unlock</li> <li>DTMF</li> <li>DTMF dialling mode: normal/buffered</li> <li>Economy mode: on/off</li> <li>Squelch: city/country</li> <li>Monitor (signalling override): on/off</li> <li>Squelch Override: on/off</li> </ul>						
	ALERT TINGS	TONES <ul> <li>Radio Tones: on/off</li> <li>Volume of Radio Tones: high/low</li> <li>Very Volume of Radio Tones: high/low</li> <li>Very Volume of Radio Tones: on/off</li> <li>Very Volum</li></ul>						
	SPLAY TINGS	NIGHT <ul> <li>Night use mode: on/off</li> <li>RSSI</li> <li>RSSI. Signal strength indicator: on/off</li> <li>ADJUST CONTRAST → Adjust contrast of display</li> <li>Image: Contrast of display</li></ul>						
SET	ADV TINGS	PROGRAM → Scan Group → Channel → Membership: Short GROUP VNTP1P2 ●						
		YN Yes/No: Member P1P2 Priority 1/2 Ch. T Default Transmit Ch.						
Lon Exit	g press: t & Save	PROGRAM → Channel → Membership: Short PS-GROUP S NS P1 P2						
Fxit	Exit No Save FS Flexiscan FSCN	S NS Selected /Not Selected P1 P2 Priority 1/2 Channel						
FS Flex		GROUP FULL         CANNOT DELETE         CANNOT CHANGE           16/15 Channels         2 Channels minimum.         Set other Channel to           maximum. Remove         2 Channel (Y/S).         Set other Channel to           Add a Channel (Y/S).         P1/P2/T then original         P1/P2/T becomes Y/S.						
Flex is ac		PROGRAM Select Channel then the CTCSS/DCS sub-audible signalling used on the Channel, from the list.						
	iscan	VERSION FW VER Firmware MAIN DB Database INFO + HW VER Hardware CAL DB Calibration						

## **Radio Configuration**

Write your settings

Alpha Symbols	<b>F3</b> Action List	Phonetic Alphabet
1	1	Alpha A
	1	Bravo B Charlie C
2	2	Delta D
3		Echo E
4	3	Foxtrot F
5	Radio Identification	Golf G
6	Radio Identification	Hotel H
7		India I
8		Juliet J
9		Kilo K Lima L
<u>-</u> <u>10</u>		Mike M
10	Group Information	November N
		Oscar O
12		Papa P
13		Quebec Q
14		Romeo R
15		Sierra S Tango T
16	<b>Emergency Call Numbers</b>	Tango T Uniform U
17		Victor V
18		Whisky W
19		X-ray X Yankee Y
20		Zulu Z

16-way Selector	1	
Selector	2	10
	3	11
S-M	4	12
	5	13
	6	14
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	7	<u>15</u>
	8	<u>16</u>

Radio Configuration Write your settings		F1		F2		F3		External	
Short press is less than 1 second Long press is more than 1 second									
<b>Note:</b> Function keys use a toggle action e.g. on/off	Press	Press	Press	Press	Press	Press	1	2	
Disabled									
Tones: Beeps on / off									
Economy Mode Control on / off									
One Touch Call (First Alpha Symbol)									
Channel's DTMF Preset									
Fixed Selcall Sequence									
Program Flexiscan Group									
Toggle Flexiscan on /off									
Preset Call #1 (Selcall)									
Preset Call #2 (Selcall)									
Emergency (Selcall)									
Nuisance Delete									
Repeater Talk Around on / off									
Repeater Access Tone									
Handset Mode on / off									
Low Power on / off									
Keypad Locked 🛛 🛞 Long press to unlock									
Toggle Monitor on / off									
Disable Monitor									
Squelch Override on / off									
Backlighting on / off									
Night Use on / off									
Adjust Contrast of Display 🔘 🔘									
Handset Volume +					Image: second				

### **Alphanumeric Search**

Type in the word you want. The radio will search and display the closest match.



Long press

To exit search, long press once or twice.





When the word is displayed you can also scroll the list.

### **Conventional Features**

Squelch

#### Backlighting

When you press a key, backlighting is turned on. It turns off after 1-10 seconds of no activity. Set via a function key.

#### Night Use mode

If on, the keypad backlighting is turned on when there is activity on the channel or if the keypad or selector is used. Turns off after 1 to 10 seconds of no activity. Set via the Menu.

Handset mode Speaker volume is reduced so that radio can be held near to the ear like a cellphone. Press PTT to talk, release PTT to listen.

#### Monitor mode 🔳 🗦

Listen to all traffic and all groups on a channel. Monitor mode automatically turns off after a preset time. It can be reset by the despatcher or when some types of calls are made. It can be configured to override Selcall (Selcall mute) or both Selcall and CTCSS/DCS.



Squelch allows reception of intellgible

signals that are above the factory-set

signal threshold, thus reducing noise.

This overrides the squelch feature so that

all signals are made audible. This may

improve the signal reception in marginal

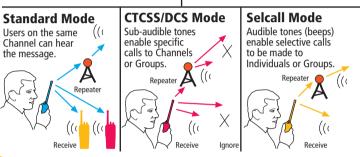
areas, but will likely increase noise. It

cannot be activated when a scan group

is selected. Set via a function key.

Set via the Menu to city or country.

**Squelch Override** 



## Looking after your Radio

- ◆ Your radio does not require routine maintenance. However, it is a sophisticated electronic device and should be treated with care.
- Clean the radio, accessories and charger weekly using a clean dry lint-free cloth. When cleaning, do not use solvents, detergents, alcohol, aerosol sprays or petroleum-based products.
- Clean the electrical contacts on the battery and charger weekly using a fibre glass pencil, or the graphite tip of a type 4h (#4) or harder pencil.
- Do not put the radio and accessories in fluids.
- Do not drop the radio onto hard surfaces, place it down carefully.
- ◆ Do not use if the radio, antenna or accessories are damaged.
- Repairs and modifications must only be carried out by a Tait approved dealer ◆ Always have the D-Clip or protective cover installed to protect TAN. the radio from dust ingress and electrostatic discharges.

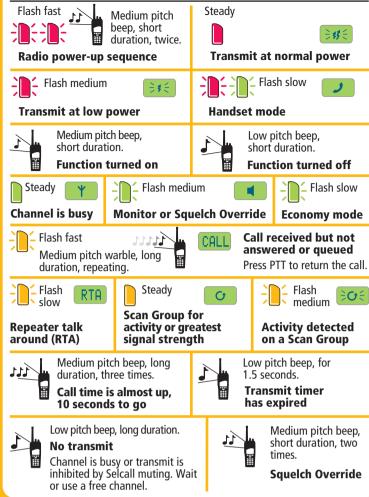
### Performance

To maintain the optimum performance of the radio:

- Use only the supplied antenna.
- Use only the radio and accessories for their design purpose.
- Use only accessories that are approved by Tait Electronics Ltd.
- ◆ Avoid high temperatures. If the temperature exceeds 80°C (176°F) the radio will make two short high-pitched beeps and will not work. Temperatures above 90°C (194°F) cause permanent damage to the radio.
- To maintain the optimum performance of the battery:
- Charge the battery as soon as the radio gives the 'low battery' warning.

- Short condition the battery weekly.
- Long condition the battery only for the following reasons: on first use, if performance is poor, and after more than two weeks of storage.
- Do not charge a battery that has had little or no use.
- Do not leave charged batteries in the charger for more than a day.
- Turn the radio off when it is unattended for long periods.
  - Recycle

### Indicators



# Troubleshooting

- If the display is blank after turning on the radio and the radio turns itself off automatically after a few minutes, it is likely there is no power.
- Fast flash. Radio is incorrectly configured. Contact your authorised Tait dealer or your company administrator.
- Contact your authorised Tait dealer or your company administrator. ERROR XX
- Slow flash. Low pitch beep, short duration, every 5 seconds. 2003 Battery is low. Charge



High pitch beep, short duration, two times. Temperature is too high. Turn off the radio and allow the radio to cool down in a cool place

Slow flash = every 2 seconds Medium flash = every 1 second

Fast flash = four per second

Fast flash. High 111 pitch beeps. Řadio is stunned. Contact the despatcher







# **Accessory Use**



#### **Belt Loop Carry Case** Installing the **Removing the Radio** $(\mathbf{1})$ Radio and and Carry Case **Carry Case** Slide the Carry Install the 2 Case upwards Belt Loop $\mathbf{1}$ Rotate the Carry Install Case by 180 Radio degrees 6 2 ÂÌ Install 3 the Carry Case Unfasten Remove by the Clip and peeling remove the apart Radio Instal 3 3 the clip Note for Accessories To use the belt loop, the accessory needs the D-clip fitting. ÂÌ 16A For example: a lapel microphone

#### Checklist ◆ Is the radio turned on? ◆ Is the correct channel selected? ◆ Is the battery installed on the radio? ♦ Is the battery charged? ♦ Is the antenna damaged?

◆ Is the battery charger working properly?

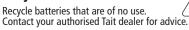
### **Call Information**

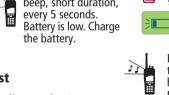
ACK RECEIVED STATUS 32 Acknowledgement and status received from recipient of call.

NO ACKNOWLEDGE

No Acknowledge. Recipient has not acknowledged your call









### **Safety Precautions**

- ◆ When transmitting, hold the radio microphone 25–50mm (1–2 inches) from your mouth. • When transmitting, keep the antenna at least 25mm (1 inch) from any part of your
- body, especially your face and eyes.
- Turn off the radio where radio waves could interfere with electronic devices.
- Turn off the radio at fuel/gas stations.
- Turn off the radio in an area where detonators/explosives are being used.
- Turn off the radio before boarding/leaving an aircraft and whilst on board an aircraft.
- Do not use the radio whilst driving vehicles or operating machinery.
- Do not use earphones or headsets at high volume levels
- Do not transmit in frequency bands used by distress beacons, such as 406–406.1 MHz.
- Do not put the radio, battery or accessories in liquids as they will be damaged.
- Do not allow children to play with the radio; it is not a toy.

### Hazardous Atmospheres

A hazardous atmosphere has the potential for fire or explosion from dusts, gases, liquids and solids. Make sure of the following in hazardous atmospheres:

- Only use approved Intrinsically Safe (IS) radios, batteries and other accessories.
- Refer to the service manual for a list of approved items.
- Do not use battery chargers in hazardous atmospheres.
- Turn off and do not use non-approved radios.
- Only use **IS** batteries with **IS** radios.
- Do not use damaged or cracked radios.
- Do not modify **IS** radios.

### Electromagnetic Interference

Turn off the radio where radio waves could interfere with electronic devices. Some facilities use equipment that is sensitive to Electromagnetic Interference such as: hospitals, medical centres, aircraft and some industrial facilities. Only use your radio in these situations if the radio is gualified for use in such areas.

Note: The warning below applies to FCC approved radios in 800 MHz and 900 MHz frequency bands:

### FCC RF Exposure Limits

This product generates radio frequency energy during transmissions. It is class-ified by the FCC as suitable for general population use in an uncontrolled ex-posure environment. The following conditions apply to the use of this radio: It must only be used with authorised accessories and antennas.

- Do not exceed a duty cycle ratio of 20% transmit mode to standby or receive modes. The radio is in transmit mode when the PTT key on the radio is pressed and the TX indicator LED is lit.

