



## **Getting Started**



### Radio Configuration

Your Tait Orca radio has been configured for your requirements by your authorised Tait Dealer or your company administrator. Therefore, some functions will vary in operation or will not be available. The configuration information can be written onto this User Guide

#### Batteries

Use Tait Orca 5000 NiCd/NiMH batteries or Tait Orca Elan/Excel/Eclipse NiCd/NiMH batteries For more information on batteries, refer to the Battery Care Guide.

**IMPORTANT** 

Do not put Tait Orca 5000 batteries into older battery chargers. Tait Orca 5000 NiCd/NiMH batteries are ONLY for Tait Orca battery chargers with software version 2.07+.

#### **Parts**

If any parts are damaged or missing, report this to your authorised Tait dealer

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(15 maximum)

Talk Around

Repeater

adjust speaker volume.

select channel.

100% Synthetic Paper: Waterproof, Strong, Chemical Resistant, Recyclable. Solvent based ink

M5020-200-00-050 Printed in New Zealand M5020- 200- 00- 050

Press PTT to

Talk. Release

to Listen

Short Condition the

battery every week.

1

## Making Calls

SELECT Select

u 16-way Selector

Press PTT to talk to all

persons on the same

Channel, Release PTT

You can only transmit

or receive on one

Channel at a time.

Channel is

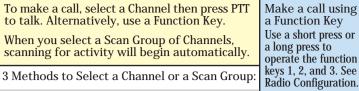
busy: Wait

Using the PTT

to listen.

Channel Mode

Turn to select from the first 16 in the list.



Dial Number To Cancel: To Select Function Key 1 ·

u Keypad Select 12X Short press Channel Long press Mode Scroll to Select

Short press for normal scroll Long press for 

> listen. **Function** Kev 3 or **Action List**

Function

Press PTT

to talk.

Release

PTT to

External . Function Keys 1



Handset Operation The illustration shows the recommended method for handset operation. Use the lower microphone to speak.

## Selcall Calls

Variable Selcall

Press PTT to

talk. Release

PTT to listen.

CALL

There is usually no

need to respond to

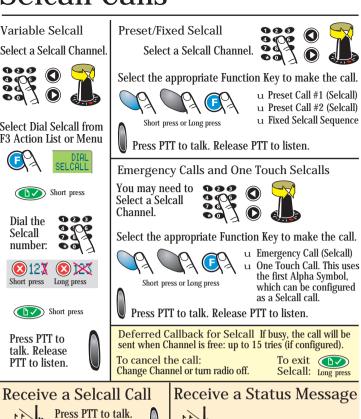
Caller Identity

Call status

a Group Selcall.

TONE +

STAT 00 +



CALL

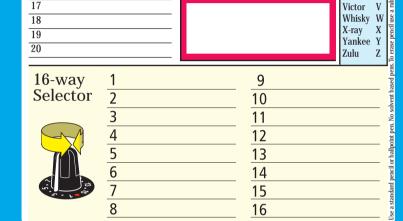
UNCH

Status Message (8 characters)

or Status Number 00 to 99

Caller

identity



Radio Configuration

2

F3 Action List

Radio Identification

**Group Information** 

**Emergency Call Numbers** 

Alphabe

Alpha

Bravo

Charlie

Delta

Fcho

Foxtro Golf

Hotel

India

Juliet

Kilo

Lima

Mike

Oscar

Papa

Sierra

November N

Quebec Q

Romeo R

Uniform U

Alpha Symbols

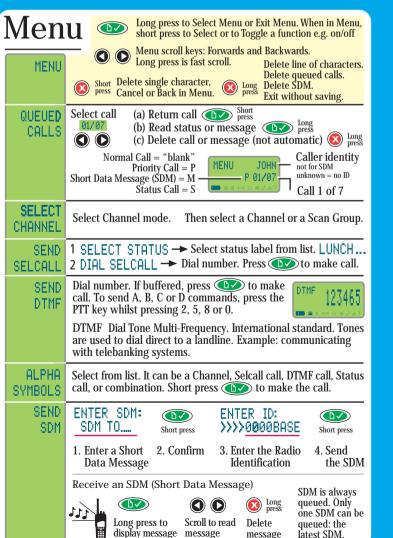
15

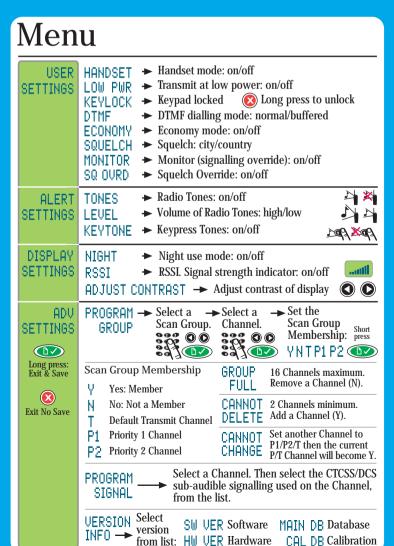
16

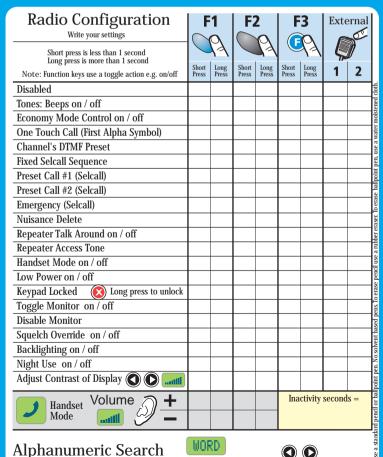


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 15

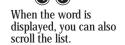
- Handset Microphone











Short press to delete the last character then a new search is made. Long press to delete all search characters. To exit search, long press once or twice.

Type in the word you want. The

closest match.

radio will search and display the

## **Conventional Features**

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 Flasi 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

Squelch allows reception of intellgible signals that are above the factory-set signal threshold, thus reducing noise. Set via the Menu to city or country.

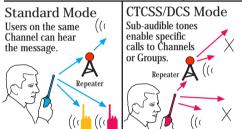
#### Squelch Override

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.

#### Nuisance Delete

If a Channel in a Scan group is busy for a long time and you do not want to listen to the conversation, you can temporarily remove it from the scanning regime using Nuisance Delete.

To apply Nuisance Delete to the currently selected Channel, press the function key (if configured). This will remove the currently selected Channel from the scanning regime. Select the Scan Group again to reset and remove Nuisance Delete.



Selcall Mode Audible tones (beeps) enable selective call to be made to Individuals or Groups



#### Slow flash = every 2 seconds Medium flash = every 1 second **Indicators** Fast flash = four per second

Flash fast Medium pitch beep, short Radio power-up sequence

Flash medium

Steady

Channel is busy

│ \_ \_ Flash fast

Flash

slow

Repeater talk

around (RTA)

Transmit at low power

Medium pitch beep.

Medium pitch warble, long

Medium pitch beep, long

Call time is almost up.

duration, three times.

10 seconds to go

or use a free channel

No transmit

duration, repeating.

short duration.



Steady





Flash slow

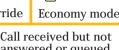




Low pitch beep. Function turned off



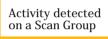




Call received but not answered or queued Press PTT to return the call.

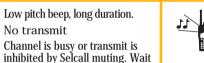








Low pitch beep, for



Medium pitch beep, short duration, two

Squelch Override

## **Accessory Use**





## Looking after your Radio

- u Your radio does not require routine maintenance. However, it is a sophisticated electronic device and should be treated with care.
- u 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.
- u Clean the electrical contacts on the battery and charger weekly, using a clean dry Q-tip<sup>™</sup>/cotton bud.
- u Do not put the radio and accessories in fluids.
- u Do not drop the radio onto hard surfaces, place it down carefully.
- u Do not use if the radio, antenna or accessories are damaged.
- u Repairs and modifications must only be carried out by a Tait approved dealer.
- u Always have the D-Clip or protective cover installed to protect the radio from dust ingress and electostatic discharges.

## Performance

To maintain the optimum performance of the radio:

- u Use only the supplied antenna.
- u Use only the radio and accessories for their design purpose.
- u Use only accessories that are approved by Tait Electronics Ltd.
- u 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:

- u Short condition the battery weekly.
- u Long condition the battery only for the following conditions: on first use, if performance is poor, and after more than two weeks of storage.
- u Turn the radio off when it is unattended for long periods.
- u Clean electrical contacts of the battery and charger weekly, using a clean dry Q-tip<sup>™</sup> /cotton bud.
- u Use only Tait Orca 5000 series battery chargers with software version 2.07+

### Recycle

Recycle batteries that are of no use. Contact your authorised Tait dealer for advice









# 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.



Slow flash. Low pitch beep, short duration, every 5 seconds. Battery is low. Charge the battery



Low pitch beep for 10 seconds. Battery is too low to operate the radio. Turn off the radio. Charge the battery. 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

### Checklist

- u Is the radio turned on?
- u Is the correct channel selected?
- u Is the battery installed on the radio? u Is the battery charged?
- u Is the antenna damaged?
- u Is the battery charger working properly?

Fast flash, High pitch beeps. Radio is stunned. Contact he despatcher

### Call Information

#### ACK RECEIVED STATUS 32

Acknowledgement and status received from recipient of call.

### NO ACKNOWLEDGE

No Acknowledge. Recipient has not acknowledged your call

### Security

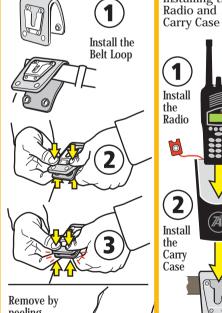
### Keypad lock is on.

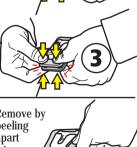




Enter Security PIN code using keypad (personal identification number).

## Belt Loop







the accessory needs

For example: a lapel

the D-clip fitting.

microphone





Installing the

1





## Carry Case

**FCC RF Exposure Limits** Removing the Radio and Carry Case This product generates radio frequency energy during transmissions. It is classified by the FCC as suitable for general population use in an uncontrolled exposure environment. The following conditions apply Slide the Carry to the use of this radio Case upwards u It must only be used with authorised accessories and antennas Rotate the Carry

Case by

degrees

18Ŏ

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

#### **Additional Safety Precautions:**

- u When transmitting, hold the radio microphone 25–50mm (1–2 inches) from your mouth
- u When transmitting, keep the antenna at least 25mm (1 inch) from any part of your body, especially your face and eyes.
- u Turn off the radio where radio waves could interfere with electronic devices.
- u Turn off the radio at fuel/gas stations.
- u Turn off the radio in an area where detonators/explosives are being used.
- u Turn off the radio before boarding/leaving an aircraft and whilst on board an aircraft.
- u Do not use the radio whilst driving vehicles or operating machinery.

Safety Precautions

- u Do not use earphones or headsets at high volume levels. u Do not transmit in frequency bands that are reserved for use by distress beacons, such
- u Do not put the radio, battery or accessories in liquids as they will be damaged.
- u 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:

- u Turn off the radio, unless the radio is qualified for use in hazardous atmospheres.
- u Do not replace batteries, even if the radio is qualified for use in hazardous atmospheres.
- u Do not use damaged radios. If the radio was originally qualified for use in such environments, the radio is not qualified if it has a cracked casing.
- u Do not modify the configuration of a radio that is qualified as intrinsically safe for use in hazardous atmospheres. If you do, it will not be qualified.

### **Electromagnetic Interference**

Turn off your 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 qualified for use in such areas