



Getting Started

First Use of Radio























M50TK-000-050

Back in Menu

Toggle (A/B) or

Send (make call)

Send (make call)

Manual Dialling

Menu, Select,

Alphanumeric Keypad

Handset Microphone

Function Key 1

Press to Talk (PTT) or Send

(make call) **Function** Key 3 or Action List





Caller ID

Call # of # (20 maximum)

Install the

Battery

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. For more information on trunking call functions, contact your

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 User 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 immediately

30782X

To make

the call.

short

press:



Making Calls

Normal mode

Use the upper

16-way

Selector

Handset mode

Illustration shows

the recommended

mode. Use the lower

microphone to speak

Dial the number

(5040 radios only)

Keypad

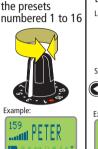
Example

method for use in handset





Menu Use the Menu The selector uses to make a call Long press PRESET







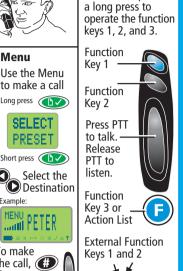
Press PTT to talk. Release PTT to listen.

Function Kevs Use a short press or a long press to keys 1, 2, and 3.





Long press for Menu or exit Menu. When in Menu,



Call Information

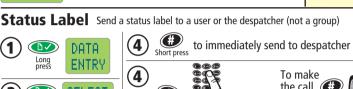
Go. Call accepted. Press PTT to Talk. Release PTT to listen QUELLED Queued. Recipient has queued your call. ENGAGED Engaged. Recipient is busy. SYS BUSY System is busy. Recipient has turned radio off Recipient is in Quiet mode (do not disturb) Recipient is out of range Wait. System is busy but will WAIT connect you as soon as possible UNAVAIL Unavailable. Call is not permitted.

Unobtainable, Number is not supported. JNOBTAIN Accepted. Call has been accepted. ACCEPTED QUIET Quiet. Do not disturb Callback, Return call by CALLBACK pressing PTT or Menu. Preset call numbers with label

CAR9 Preset call number without label OR same 208 fleet but not set as a preset call on your radio 0 FLEE Call is from different fleet PHONE Call is from PSTN Call is from PABX

ENTR' (2) 🖤 SELECT











short



the call,

Alphabet

Alpha

Bravo

Charlie

Delta

Fcho

Hotel

India

Juliet

Kilo

Lima

Mike

Oscar

Pana

Ouebec

Romeo

Sierra

Tango

Victor

X-ray

Yankee

Whisky

Uniform

November

M

Foxtrot

CL1/3

CI - Call

Lockon.

SCI = Status

MCL = Message

Keylock is on.

Long press to unlock

CODE

PIN using

keypad

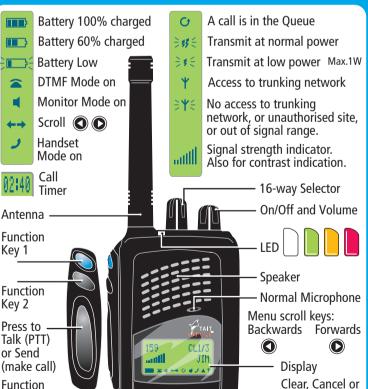
(pérsonal

number).

identification

Enter Security

Radio Configuration F3 Action List Write your setting **Presets** 3 **Status Labels** Radio Identification radio# network # aroup # **Group Information** Emergency Call Numbers



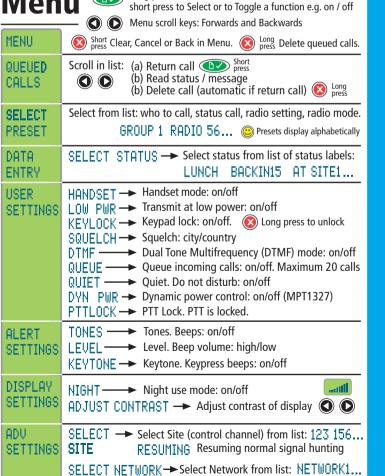
🖪 🕢 🕞 🔇

1 (2 ABC) (3 DEF)

4 GH) (5 JKL) (6MN)

7PQRS (8 TUV) (9WXYZ)

 \odot \bigcirc \bigcirc



SW VER Software MAIN DB Database

INFO → from list: HW VER Hardware CAL DB Calibration

Select

UERSION version

Modes

Dynamic Power Control MPT1327 Conventional Mode Radio to radio Automatically reduces the transmit power in high signal strength areas.

Backlighting

When you press a key, the backlighting is turned on. Turns off after 1 to 10 seconds of no activity.

Niaht Use mode

If on, the keypad backlighting is turned on when there is activity on the channel or if a scan group is selected. Turns off after 1 to 10 seconds of no activity



Handset mode 🗾 LED slowly flashes red and green. Handset icon is displayed.

Monitor mode In conventional mode.

Groups

Group Calls

Broadcast Call – Group members can listen but not respond. Conference Call – Group members can

isten and respond. A user can be assigned to some groups, all groups or no groups.

Trunked – Permanent groups are set by the trunking system. Persons are assigned when the radio is configured.

A user can become a member of a group temporarily by selecting the group or wher the despatcher assigns the user to a group **Group Call Limitations**

Temporary Groups

Sender has no indication of how many group members have received the call No connection acknowledgment. Need the recipient to acknowledge by voice. Radios that are off, out of range, or engaged

Group Numbering Scheme

User's have an individual ID plus membership in none, some or all of the Group IDs.



Group Types

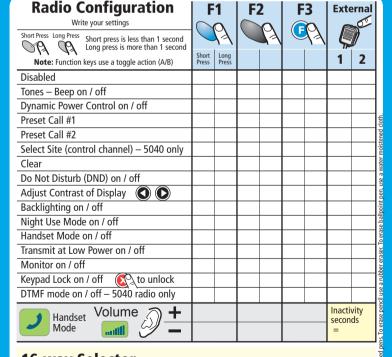
- User Selectable Group Scan Group
- User Selectable plus Scan Group Permanent Group
- Dynamic Group Manual Group Select

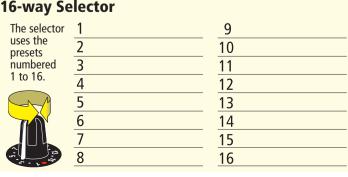
Manual Group Select

Users can select the groups that they want to be assigned to using the 16-way selector.

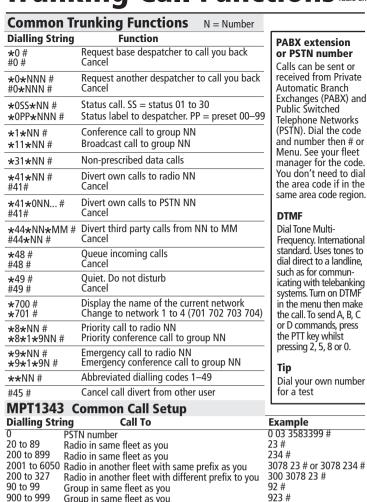
Group Select

The despatcher controls which groups the user is assigned to. This feature can be dependent or independent of the position of the 16-way selector, so that group control from the despatcher can be ignored or accepted.

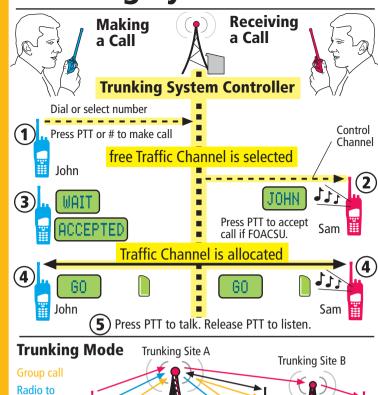




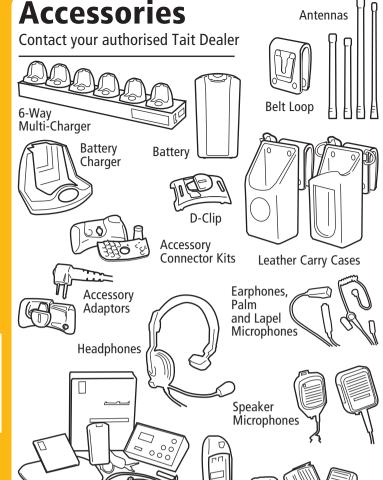
Trunking Call Functions 5040 radio only

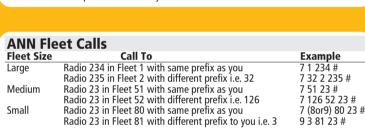












LMS Dialling		
Call Type	Call To	Example
Own fleet	Radio 213 in Fleet 34 in same fleet as you	213 #
Interfleet	Radio 215 in Fleet 36 (another fleet)	36 215 #
Interprefix	Radio 217 in Fleet 38 (another fleet) of Prefix 202	202 38 217 #

Preset Numbers Example **Dialling String** Preset strings (leading zero)

Conventional Channels Dialling String Example Conventional channels

Performance

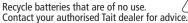
To maintain the optimum performance of the radio:

- ◆ 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:

- Short condition the battery weekly.
- ◆ Long condition the battery only for the following conditions: on first use, if performance is poor, and after more than two weeks of storage.
- ◆ Turn the radio off when it is unattended for long periods.
- ◆ Avoid extreme temperatures as they damage the cell chemicals. The ideal temperature range is 15° to 25°C (59° to 77°F).
- ◆ Clean electrical contacts of the battery and charger weekly, using a clean dry Q-tip™ /
- ◆ Use only Tait Orca 5000 series battery chargers with software version 2.07+.

Recycle











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 clean
- ◆ Do not put the radio and accessories in fluids.

radio Call is

repeated by

landline

Radio to

PABX/PSTN

or from

transmitter or

- ◆ 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.

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

Radio is incorrectly configured.

Contact your authorised Tait

dealer or your company

administrator

ERROR XX



Battery is too low to operate the radio. Turn off the radio. Charge the battery.

Checklist

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

Belt Loop

the accessory needs

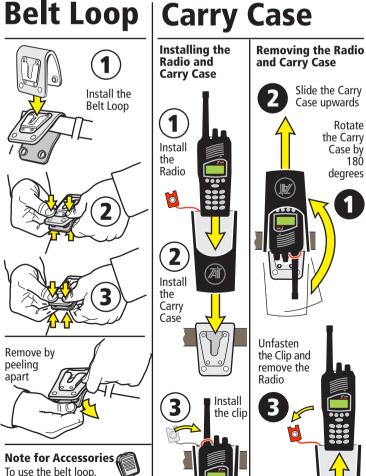
For example: a lapel

the D-clip fitting.

microphone.

Removing

the D-clip



Safety Precautions

It is important for your safety and the safety of others to comply with the following 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.

Slide the Carry

Case upwards

Rotate

the Carry

Case by

degrees

180

Servicing and Programming Kits

- ◆ 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 band 406 to 406.1 MHz. This band is reserved for use by
- ◆ 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
- ◆ Turn off the radio in hazardous atmospheres as an explosion or fire could occur, unless the radio is qualified for use in such environments.
- ◆ Do not replace batteries in hazardous atmospheres as an explosion or fire could occur, even if the radio is qualified for use in such environments.
- ◆ Do not use damaged radios in hazardous atmospheres as an explosion or fire could occur. If the radio was originally qualified for use in such environments, the radio is not qualified if it has a cracked casing.
- ◆ 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.

Exposure to Radio Frequency Energy

The Tait Orca 5000 series radio generates and radiates radio frequency (RF) electro-magnetic energy (EME). The Tait Orca 5000 series radio and accessories have been designed to comply with international standards and guidelines.

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. Do not use your radio in these areas unless the radio is qualified for use in such areas.