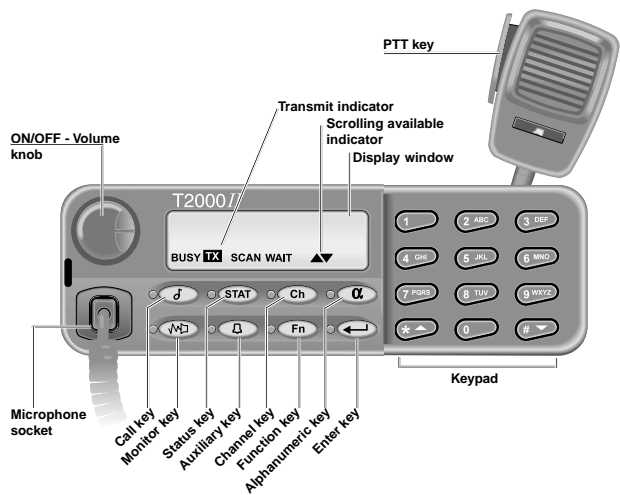




# T2020// User's Guide



T2020//

## Safety Training Information

### FCC RF Exposure Limits

This product generates radio frequency energy during transmissions. This device must be restricted to work-related use in an occupational/controlled exposure environment. The radio operator must have control of the exposure conditions and duration of all persons exposed to the antenna of this transmitter to satisfy FCC RF exposure compliance. This device is not approved for general population use.



- It must only be used with authorized accessories and antennas.
- The operator must ensure that the minimum safe distance of 0.9m (35 inches) between persons and the antenna is not exceeded during transmissions.
- Do not exceed a duty cycle ratio of 50% transmit mode to stand-by or receive modes. The radio is in transmit mode when the **PTT** key on the microphone is pressed and the **TX** indicator shows in the display window.

### Additional Safety Warnings

- DANGER: SWITCH THE RADIO OFF AT PETROL FILLING STATIONS
- DANGER: SWITCH THE RADIO OFF IN THE VICINITY OF EXPLOSIVE DEVICES (such as in a quarry that uses blasting techniques)
- Use of a handheld microphone or a radio while driving could contravene the legislation that applies in your country or state. Please check the vehicle regulations of your own country.



## Getting Started

### Introduction

Your T2020// is controlled by a microprocessor which allows it to be configured to suit the needs of your particular fleet.

This User's guide provides only a brief description of the basic features of your radio. For information about the advanced features which may also be provided, a comprehensive operators' manual is available from your Tait dealer.

### Switching On

To switch the radio on, turn the **ON/OFF-Volume** knob clockwise about one-third of a turn. You may need to finally adjust the volume when you receive your first call.

### Selecting a Channel

When first switched on, the radio resumes operation on the same channel as when it was last switched off.

To check for activity on a channel, select channel mode by pressing the **Channel** (Ch) key.

### To Change Channels

- Use the scroll keys (left and right arrows) to move through the list of available channels, or
- Use the keypad to enter a new channel number, or
- Use the keypad to enter an alphanumeric label (Alpha).

### Selecting a Group

A group is simply a collection of channels grouped together for scanning or voting. You select a group in the same way as selecting a channel.

## Making a Call

### Sending a Call

This section explains how to make a call using your T2020//.

- 1 Select the appropriate channel for the party you wish to contact (see "Selecting a Channel").
- 2 Check that the channel is free of traffic by observing the **BUSY** indicator - if it is illuminated the channel is already in use and you must wait. If your radio is preprogrammed for 'off-hook monitoring' you will hear any other traffic when you lift the microphone from its clip.
- 3 Hold the microphone about 5cm from your mouth and press the **PTT** key. Pause briefly to ensure your first word is not cut off, then speak clearly, identifying yourself and the person you wish to contact by your call signs (for example "Mobile-9 to Base"). Release the **PTT** key when you have finished talking.
- 4 When you receive a reply, proceed with your conversation as described below.

### Using the Microphone and PTT key

The **PTT** key on the side of the microphone switches the radio between transmit and receive modes. Each time the radio transmits, the **TX** indicator appears in the display.

To speak, press the **PTT** key and then release it to listen to the reply.



### Transmit Timer

The radio is fitted with a preprogrammed timer to limit the maximum length of transmissions. When this time limit is reached, a three tone warning is sounded and transmission stops. You must release the **PTT** key before proceeding.



## Receiving a Call



To be able to receive calls on a single channel, simply check that the radio has the appropriate channel selected (see “Selecting a Channel”).

To be able to receive calls on several channels, see “Scanning”.

**Responding to Calls** Your radio remains muted until there is activity on the channel. Listen for your own call sign, and respond promptly when you hear it by pressing the **PTT** key and identifying yourself (for example “Mobile-9 Receiving”).

**Monitor** Your T2020// is fitted with muting facilities which ensure you are not disturbed by calls which are not clear or are not intended for you.

The **Monitor** () key is used to override any preprogrammed muting controls, and allows you to hear all traffic on a channel. The following table describes the use of the **Monitor** () key.

	Function	To Defeat / Reactivate
<b>CTCSS/DCS mute</b>	Permits reception only if a call carries an inaudible tone or code specific to your fleet or group.	Press the <b>Monitor</b> (  ) key briefly. (If hookswitch monitoring is preprogrammed, lifting the microphone off hook will have the same effect.)
<b>Selcall mute</b>	Permits reception only if a call carries a special tone sequence which represents your identity number.	Press briefly again to reactivate.
<b>RF squelch</b>	Permits reception only if a call has a signal above a factory-set threshold. This ensures that only intelligible signals are made audible.	Hold the <b>Monitor</b> (  ) key for more than one second. Press briefly again to reactivate.

## Scanning

To have your radio monitor a number of channels for valid activity (transmissions carrying tones or codes specific to you), you can use the preprogrammed scanning facility in your T2020//.

**Scanning** To set the radio scanning through a list of preprogrammed channels:

- 1 Ensure the microphone is in its clip (‘on-hook’),
- 2 Select a group preprogrammed as a scan group (see “Selecting a Channel”), and scanning commences.
- 3 If the radio detects a channel with valid activity, it pauses there and makes the traffic audible to you. When the traffic finishes, the radio resumes scanning.

To stop the radio scanning, select another channel.


### Making a Call While Scanning

While the radio is scanning, you may lift the microphone off-hook to suspend scanning and make a call.


If the radio was monitoring channel activity when you lifted the microphone off-hook, then it remains on that channel. If the radio was scanning for traffic, then it returns to its preprogrammed ‘home’ channel.

Replace the microphone on-hook to restart scanning.

## Selcall Calls

**Introduction** If your T2020// is fitted with Selcall, you can make calls to specific individuals or groups on particular channels. For it to operate, your radio must be fitted with the Selcall module and preprogrammed appropriately. Each channel may be preprogrammed to provide its own Selcall identity immediately available with the **Call** () key.

**Sending a Selcall Call** To call another party using Selcall:

- 1 Select the appropriate channel for the party you wish to contact (see “Selecting a Channel”);
- 2 Check that the channel is free of traffic by observing the **BUSY** indicator;
- 3 Press the **Call** () key, or
  - Dial the identity number using the keypad, or;
  - Select an alphanumeric label for the call.
- 4 When the person you call replies, lift the microphone ‘off-hook’ and continue with the conversation.

**Receiving a Selcall Call** When you receive a Selcall call, your radio alerts you with a ringing sound (similar to that of a telephone) and the **CALL** indicator appears in the display.



- To accept the call, lift the microphone ‘off-hook’ and identify yourself in the usual manner. The ringing stops when you press the **PTT** key.
- To reject a call, press any key other than the **PTT** and the ringing will stop.

**Group Calls** If your radio sounds the ringing tone only once, and the caller broadcasts their message without waiting for a reply, you have received a group call. It is not normally necessary to reply to such calls.

## Alphanumeric Entry Mode

To perform repetitive operations which require several keystrokes, your T2020// may be preprogrammed with alphanumeric labels. These labels, when recalled, can perform a series of operations such as selecting a channel and sending a call.




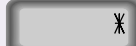





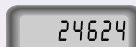
**Selecting a Sequence** 1 Press the **Alphanumeric** () key to enter the Alphanumeric Entry mode.

2 Scroll through the list of labels by using the cursor keys ( and ) until the label is displayed, or enter the label for the required party, using the keypad.

3 Press the **Enter** () key to initiate the call.

### Example

You want to call your base despatcher who has been assigned the label, BASE. The keystroke sequence and display might appear as follows:

Press Key	Display Reads	Explanation
		Most recent selection displayed
		Label not yet identified
		Label not yet identified
		New label identified
		BASE is called and the BASE number is displayed
