

8. Using tone call

The tone call facility provides stations within a network to either call (tone encode—TE), or be called (tone decode—TD) by other stations, using the transmission of tones

Tone calls use two tones (High and Low) transmitted simultaneously to call another station. The tones used must be identical for both the transmitting and receiving transceivers.

The tones fit into two frequency bands, each with a High and Low tone, either 440 Hz or 360 Hz apart. Each of these bands must lie within the frequency range 850 Hz and 1500 Hz.

In Australia, the RFDS uses the 440 Hz frequency band, an example for this type of call would be 880 Hz and 1320 Hz. Private communications in Australia use the 360 Hz frequency band, a typical example for this type of call would be 880 Hz and 1240 Hz.

To receive a tone call your transceiver must have option TD fitted. To transmit a tone call, tone call must be enabled on the selected channel.

You cannot have the automatic tuning antenna (option AD) and 2-tone decoder (option TD) fitted to the same transceiver. Also, selective call and tone call cannot be enabled on the same channel.

Tones t1 and t2 are given values in the factory. You can override these settings by using the following *Set-up* procedure. To reinstate the original values, either enter '0' frequency or delete the latest channel information.

All displays in this section show examples of channel and frequency numbers. You must insert your selected channel and frequency numbers.

Setting up tone call

This procedure is similar to setting up selective call. Once in the set-up mode, you can skip through the non-important steps by pressing the Enter button.

Step	Action	Display shows	Remarks
1.	To start the set-up mode, hold down	SEE CALL	Hold the Call button down for approximately three seconds.
	and press Power On'Off		This turns the transceiver on, and into the preamble set-up mode.
2.	Press Enter	SEE CALL	This set-up is not required.
3.	Press Enter	SEL SELF Addr	This set-up is not required.
4.	Press Enter	SEL BEACON	This set-up is not required.
5.	Press	SEE HI	This part of the procedure allows you to enter the tone calling frequencies.
			(A)



Step Action...

6. Use the numeric buttons to enter the t1 Hi tone frequency.

Entering a new number overrides an existing frequency. Display shows...



If you enter an incorrect frequency, the display shows an error. For further details, refer to section 12, *Display messages*.

Remarks...

There are four pairs of tone frequencies that you can set, t1, t2, t3 and t4.

The t1 & t2 frequencies are pre-set in the factory. If you wish, you may alter settings.

Each tone setting has a high and low frequency.

7. Press



You must complete the next step within 60 seconds.

This sets the new t1 Hi tone frequency and allows you to set the t1 Low tone frequency.

8. Use the numeric buttons to enter the t1 Low tone frequency.



Entering a new number overrides an existing frequency.

9. Press



You must complete the next step within 60 seconds.

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This sets the new t1 Low tone frequency and allows you to set the next tone pair t2.



Step Action... 10. Steps 6 to 9 are repeated by the transceiver for t2,

t3 and t4.

Display shows... Remarks...

The display shows the same as in steps 6 to 9, except for the tone and frequency numbers.

When all four tone pairs are recorded, the display returns to the first set-up option

SEL CALL

Press
Power
On'Off

This turns your transceiver off and registers all the tone call settings you have just made.

Enabling a channel for tone calling

This procedure explains how to enable a channel for tone calling. Initially, you need to select a channel frequency you want to enable, and then choose a tone call pair for that frequency.

You can copy this information into the P-channel program.

This procedure is similar to *Enabling a channel for selective call* in section 5. Once in the set-up mode, you can skip through the non-important steps by pressing the Enter button.

The displays in this section will vary depending on the channel you select (ie the word inhibit may be replaced with a frequency number).

Step	Action	Display shows	Remarks
1.	Use the Recall or Channel and buttons to find the channel you wish to enable.	CHL Tx 4321 29 Rx 4321 An example for channel 29.	Refer to section 4, Selecting channels.
2.	Press	Entr Tx 29 Rx 4321	You will hear a 'pip'.
3.	Press Enter	Entr Tx 4321 29 Rx	You will hear a 'pip'.
4.	Press	Entr OPtion 29U	You will hear a 'pip'.



Step Action...

Display shows...

Remarks...

4. Press

Call

Repeat this action until a 't' and the required tone pair appear in the left hand two spaces of the options bar. Entr OPtION 29 t3_U__

An example for tone pair t3.

You will hear a 'pip'.

5. Press



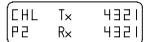
Entr Tx 4321 P__ Rx 4321 You will hear a 'pip'.

6. Use the numeric buttons to enter the channel number you wish to use.

You will notice that the display automatically inserts a 'P' to the number.

7. Press





If the channel is already used the display shows



Action... Display shows... Remarks... Step 8. If the channel is The display reverts back The information will already used, you to normal. either be stored under an can either enter existing channel number, another number or or you will have created press Enter again a new one. to override the

existing one.

Using the tone call mode

Before commencing this procedure, ensure the Mute On'Off button is in the off position (indicator off) and the antenna is tuned to the selected frequency. This section covers both transmitting and receiving a tone call.

Transmitting a tone call

Step	Action	Display shows	Remarks
1.	Use the channel buttons or Recall button to select the channel you wish to use.	CHL XX 4321 PIO Rx 4321	Ensure the channel you select is enabled for tone call. To check, press the Display button.
2.	Ensure that the channel is free from traffic.	[HL Tx 4321 PI	Listen for approximately 10 seconds.
3.	Press and hold Call for approximately 10 seconds.	The display does not change.	You will hear a tone and the Tx indicator will be lit.
	If the channel you selected was not enabled, an error message will be displayed.	Not ENAPTE	You will hear a low pitched tone. The call will not be transmitted, and you must choose another channel.
4.	You can start communication when contact has been established.		

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Receiving a tone call

To receive a tone call your transceiver must be fitted with option TD.

Step Action...

1. No action. Upon receipt of a tone call, your transceiver displays the channel number of the calling station.

Display shows...

LHT	TanE
158	CALLED

Remarks...

You will hear an alarm consisting of two sets of three short 'pips'. Following this alarm you will hear a 'pip' every four seconds.

You can cancel the 'pips' by pressing the microphone PTT button.

2. Use the microphone in the normal manner to reply to the call.

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