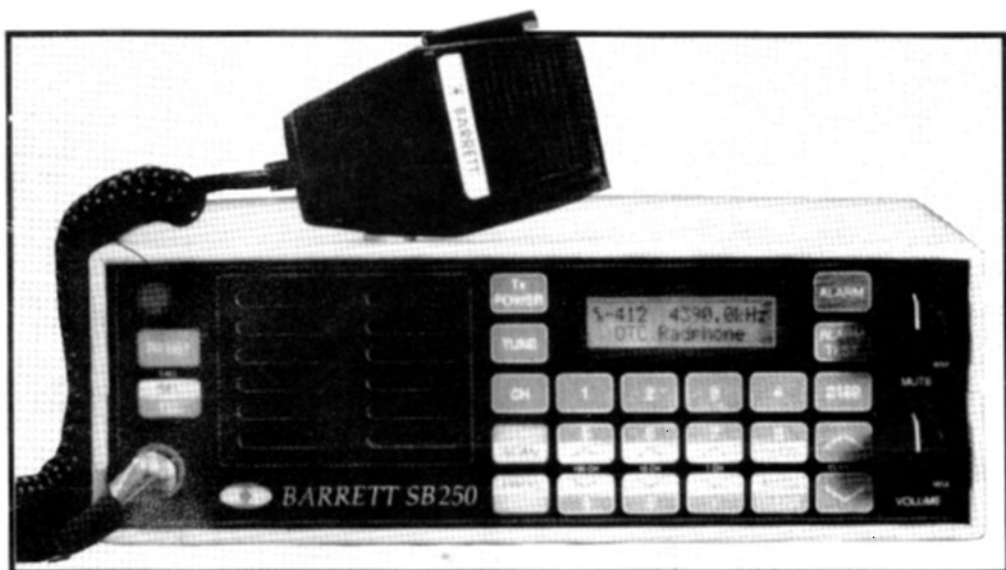


OPERATING & INSTALLATION INSTRUCTIONS



SB250LC MARINE & LAND MOBILE SSB TRANSCEIVER

BARRETT COMMUNICATIONS

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TABLE OF CONTENTS	PAGE
INSTALLATION	1
OPERATION	3
LCD DISPLAY	4
CLARIFIER	4
CHANNEL SELECTION	5
TRANSMITTER POWER	6
ALARM FUNCTION	6
2182	6
TUNING	7
AUTOMATIC TUNE DISABLE	8
CHANNEL ALLOCATION	8
REPROGRAMMING A CHANNEL	9
SCANNING CHANNELS	10
PROGRAMMING THE SCANNER	10
SELECTIVE CALLING OPTION	12
RECEIVING A CALL	12
RECEIVING A CALL DURING SCAN MODE	13
MAKING A CALL	14
TELEPHONE INTERCONNECT	15
BEACON MODE	15
DIALLING METHODS	15
TELEPHONE NUMBER LODGING	18
FREQUENCY ALLOCATION TABLES	20

☐ **INSTALLATION**

☐ **LOCATION**

1. Select a suitable location to mount your transceiver. Do not mount the transceiver in a position where it will receive direct sunlight as this may result in internal temperatures exceeding 70 deg C. When used as a marine transceiver with the SB254 manual tuner, mount both units within one metre of each other.

2. Connect the transceiver to a suitable power supply (12 volts, 20 amps). Inadequate current supply will result in abnormal transmitter performance.

CAUTION: Incorrect supply voltage may damage the SB250 transceiver.

☐ **MARINE INSTALLATION**

Mount the transceiver and tuner in a suitable operating position. The SB250 transceiver is designed to interface with the BARRETT SB255 automatic tuner or the SB254 manual tuner. Refer to the user manual provided with the tuner supplied.

☐ **GROUNDING**

On the rear of the transceiver a ground termination lug is provided. Connect the transceiver to the ground system of the vessel via a short substantial copper bonding strap. If in doubt, consult your dealer for the correct installation of a ground system. Inadequate grounding may cause transmitter RF instability.

☐ **ANTENNA**

Both the SB254 and SB255 antenna tuners are designed to work into antennae of 7 metres length, or more. Shorter loaded antennae may be used as long as they provide a load within the tuner's transformation ratio. Avoid lengths over 12 metres. Keep antenna feed wires as short as possible and avoid running antenna wires inside the hull. Radiation inside the hull may affect other electronic equipment when transmitting.

☐ **BASE STATION INSTALLATION**

Place the transceiver in a convenient operating position. Connect the 240vac to 12v dc power supply to the transceiver. It is essential that a power supply capable of at least 20 amps output is used to ensure correct operation.

Connect a suitable antenna for the frequencies to be used to the antenna socket. The transceiver requires antenna loads of nominal 50 ohms. Your dealer will advise which antenna is best suited to your system.

☐ **POWER SUPPLY**

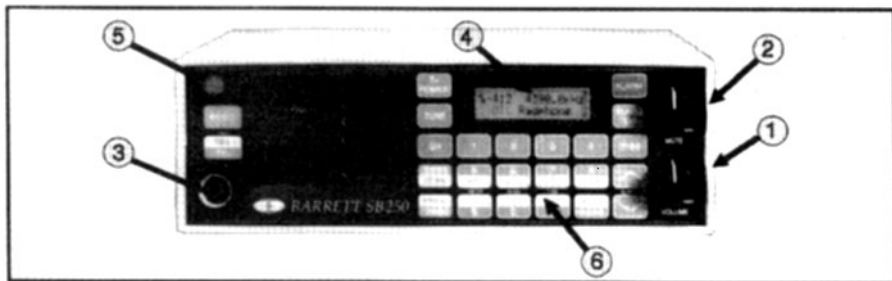
It is essential that the transceiver has a power supply that can deliver 12 volts @ 20 amps to the power input socket of the transceiver. If the supplied power lead is not able to reach the power supply point you must ensure that any extra wiring is of sufficient current capacity to ensure minimum voltage drop under maximum load conditions. Failure to provide correct power may result in unstable transmitter performance. In the case of battery powered installations it is advisable to connect the power lead directly across the battery supply as this will minimise voltage drop. The supply voltage must not fall below 11 volts at the transceiver input power plug when under full load (i.e. tune at HI power).

☐ **FUSES**

In mobile installations, a heavy duty 20A fuse must be fitted close to the power source, i.e. at the battery, not the radio. DO NOT use automotive type in-line glass fuses. HRC fuses and holders are recommended.

The SB250 transceiver is now ready for operation. The following pages describe operation.

☐ **OPERATION**



- 1.....Volume/Power On/Off Control
- 2.....Mute Control
- 3.....Microphone Socket
- 4.....32 Character by 2 line Supertwist LCD
- 5.....Power/Modulation Indicator Lamp
- 6.....24 Key Membrane Touch Panel

☐ **1. VOLUME/POWER ON/OFF**

The SB250 is turned on by rotating this control clockwise. Set volume to suit.

☐ **2. MUTE**

The mute control enables the muting function of the transceiver. Advance the mute control until the receiver goes quiet. Continuous clockwise rotation may desensitise the receiver. The mute system is audio derived and opens when audio frequencies below 1000Hz predominate.

☐ **3. MICROPHONE SOCKET - Insert the supplied microphone here**

☐ **4. LCD DISPLAY MODULE**

The display module provides information on the current status of the transceiver including:- Transmit/Receive frequencies, channel number, power mode, scan mode, alarm mode and Selcall information.

☐ **5. POWER/MODULATION INDICATOR**

When the transceiver is in receive mode, the lamp is fully lit indicating that the transceiver is on. In transmit mode the lamp intensity varies according to modulation.

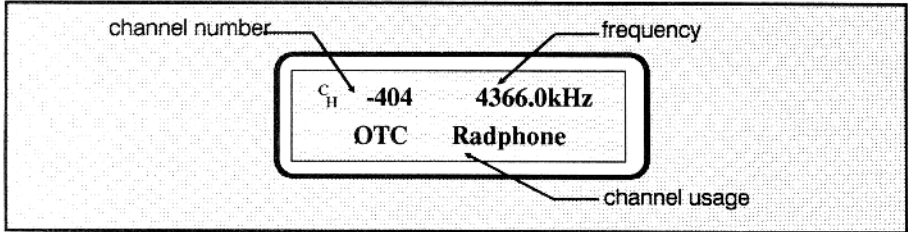
☐ **6. MEMBRANE KEYPAD**

The membrane keypad provides the interface between the user and the SB250.

☐ **LCD DISPLAY**

The SB250 is equipped with a 2 line by 16 character LCD display. The display shows channel number, frequency and channel usage. If the channel contains an OTC assigned frequency then its OTC channel number is displayed in place of the internal channel number.

☐ **DISPLAY EXAMPLE:**



When the SB250LC is in transmit mode the display will show the transmit frequency.



Pressing this key will allow you to listen on the transmit frequency. This function is useful when operating with split frequency channels.

☐ **CLARIFIER**

The SB250 has an in-built digital clarifier to allow for fine tuning of received signals.



CLARIFY



Pressing either of these buttons will shift the receiver in steps of 10Hz up or down.

Maximum clarifier deviation is +/- 190Hz (Marine mode)

+/- 50Hz (Land Mobile mode)

☐ **CHANNEL SELECTION**



This is the channel select key.

To change channel press the



key and enter the required channel number (0-255).

Once entered press the

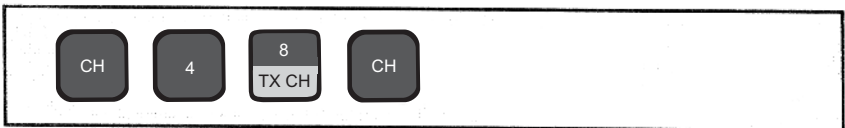


key to complete the command.

OTC frequencies can be selected by entering the OTC channel number.

☐ **CHANNEL CHANGE EXAMPLES:**

To select channel 48:



To select OTC channel 1231:



☐ **SCROLLING THROUGH CHANNELS**



These keys scroll up 100, 10 or 1 channel respectively.



These keys scroll down 100, 10 or 1 channel respectively.

NOTE: If the next channel scrolled to is empty the SB250 will jump to the next non-empty channel.

☐ **TRANSMITTER POWER**



The SB250LC is capable of altering its transmit output power from Hi to Low as required. Pressing this key will toggle the output power level between Hi and Low. In Low power mode, output power is approximately 10 Watts.

When the SB250LC is in Low power mode the LCD display will flash 'Lo Pwr'

☐ **ALARM FUNCTION**



The SB250 is equipped with a digitally synthesised alarm encoder which can be used to generate distress tones.


Two alarm systems are supported:




International Marine Radiotelephone two-tone alarm - Alternating 2200Hz/1300Hz, 500ms cycle, 50% duty.

Royal Flying Doctor Service two-tone alarm - 880Hz + 1320 Hz continuous.

The alarm signal generated by the SB250LC is dictated by the channels usage.

Double pressing of the  key will transmit the appropriate alarm for that channel..

To test the alarm encoder press the  key.

NOTE: Some channels have the alarm function disabled as required by the service providers. For example all RFDS school of the air channels have alarms disabled.

☐ **2182**



Pressing this key places the transceiver into AM transmit mode on the International Marine Distress frequency 2182.0kHz

This function is enabled only when the SB250 is configured for MARINE RADIO LICENCE. See 'CHANNEL ALLOCATION'. (J3 - IN).

TUNING

TUNE

The SB250 provides support for both manual and automatic tuners.

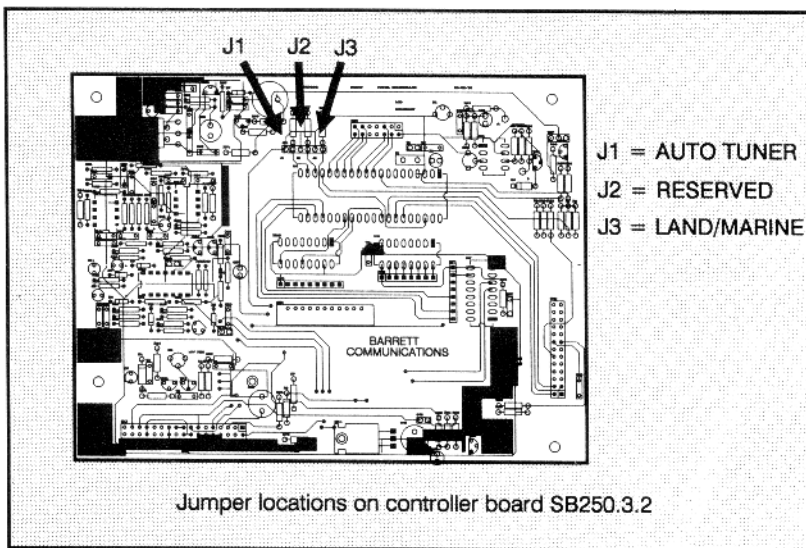
The SB250 must be configured to support the target antenna system.

SB254 is a long wire manual tuner designed specifically for the SB250.

SB255 is a fully automatic long wire antenna tuner.

SB257 is a fully automatic mobile whip antenna.

A removable jumper, J1, is provided for antenna selection inside the SB250. J1 is located on the controller board SB250.3.2. To modify the setting of J1 the covers of the SB250LC must be removed. The board SB250.3.2 is located on the underside of the transceiver



J1 out - pressing the

TUNE

key will transmit carrier.

J1 in - pressing the

TUNE

key will initiate the automatic tune sequence with the SB257.


When configured for an automatic tuner (type SB257) the SB250 will retune automatically on channel change. Fully automatic tuning can be disabled. (see section 'AUTOMATIC TUNE DISABLE').

☐ **AUTOMATIC TUNE DISABLE**



This key toggles the SB250LC between fully automatic and semi-automatic tune modes.

In fully automatic mode the SB250LC will retune on any channel change including that caused by an incoming selcall during SCAN mode. When in fully automatic mode the LCD flashes 'AUTO'.

In semi-automatic mode the SB250LC will only tune after the  key is pressed.

Pressing the  key in both modes will cause the SB250LC to retune.

NOTE: This function is only valid when the SB250LC is configured for an SB257 type tuner (J1 - in).

☐ **AT-120 STYLE SB255 AUTO TUNER**

Some older style SB255 tuners require special control signals to initiate the tune sequence. If your tuner is of this type the SB250LC must be reconfigured to support it. A wire link is provided on the SB250LC IF board (SB250.1.11). To configure for the older style of SB255 the link on the IF board must be altered and J1 should be installed. The link on the IF board is between pin 11 of IC31 and +5V or GND.

NOTE: LINK CHANGE IS ONLY REQUIRED FOR OLDER STYLE SB255/AT120 TUNERS.

PIN 11 - 5V = SB255/AT120
PIN 11 - GND = SB257 (default)

Refer to your dealer for clarification.

☐ **CHANNEL ALLOCATION**

The SB250LC contains 256 channels. Some of these channels are pre-programmed with frequencies for use with RFDS, Marine and OTC services. The channel allocation is defined by the mode in which the SB250LC is configured. There are two sets of pre-programmed frequencies within the SB250. The two sets correspond to the two most common transceiver licences in use within Australia.

The first is the Outpost Radio licence which allows use of all Royal Flying Doctor Service frequencies as well as frequencies allocated to OTC's Radio Telephone Service.

The second is the Marine Radio licence which contains all OTC service frequencies, International Distress frequencies as well as general purpose marine channels.

Jumper J3 is used to select the frequency set:

J3 OUT - OUTPOST RADIO
J3 IN - MARINE RADIO

Channel/Frequency allocation tables are provided at the end of this booklet.

Empty channels available for user frequencies are indicated by the usage message 'PRIVATE'. Some of the 'PRIVATE' channels are write protected to prevent their accidental erasure. These write protected channels are provided for important user frequencies which should not be erased.

The location of the Write Protected channels depends on the frequency set used.

OUTPOST RADIO - CHANNELS 0-19 ARE WRITE PROTECTED.
MARINE RADIO - CHANNELS 100-119 ARE WRITE PROTECTED.

Write Protected 'PRIVATE' channels and transmit frequencies on Non-write protected channels can only be reprogrammed by authorised technical personnel.

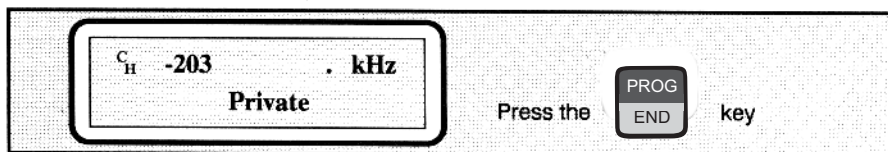
☐ **REPROGRAMMING A CHANNEL**



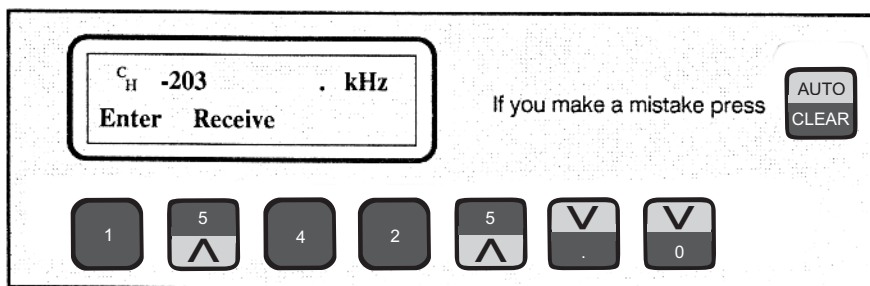
This is the programming key. Pressing this key on a Private, Non Write Protected channel will place the SB250LC into program mode.

To program channel 203 to Radio Australia 15425.0kHz

First select channel 203 (see 'CHANNEL SELECTION')



Enter the frequency.

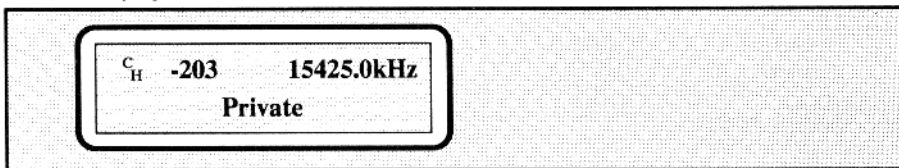


Press the



key to store.

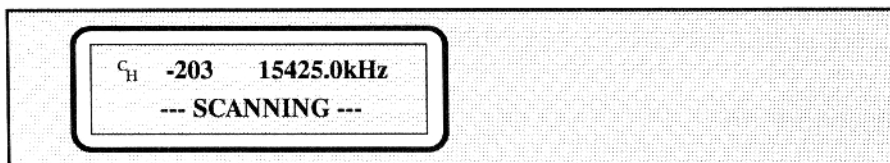
The LCD display should now look like this.



☐ SCANNING CHANNELS



This key places the SB250LC into **SCAN MODE**. The scanner function only stops on signals from a SELCALL encoder. When in **SCAN MODE** the display is as follows.



Press the microphone PTT switch or any key to exit the **SCAN MODE**.

☐ PROGRAMMING THE SCANNER

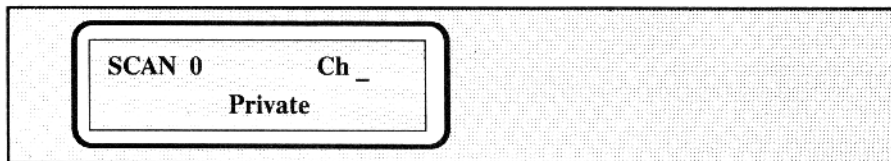
Up to ten channels can be programmed into the scan table however for the best results with SELCALL do not enter more than six channels.

To program the scan table the **SCAN PROGRAM** mode must be entered.



To do this hold the  key down.

After two seconds the SB250LC will beep and **SCAN PROGRAM** mode will be activated.



Enter the channel number of the first frequency you wish to scan.

Press the



key.

Enter the channel number of the second frequency.

Press the  **key.**

Repeat this for all frequencies you wish to scan.

When all channels have been entered press the



key to exit the **SCAN PROGRAM**

The scan table is now programmed.


To confirm this place the SB250LC into scan mode and watch that the LCD display steps through the required channels.

IMPORTANT NOTICE: When entering OTC frequencies into the scan table do not use their OTC channel number. You must enter the SB250 internal channel number for OTC frequencies. See the frequency allocation tables provided at the back of this booklet for the correct channel number for OTC frequencies.

☐ **SELECTIVE CALL OPTION**

Selcall is a digital system of signalling between HF transceivers. In the Selcall system each transceiver is assigned an individual ID and can be called using this ID. Up to 10000 ID's can be assigned in a Selective calling system.

While waiting for an incoming selcall an SB250LC can be placed into **QUIET MODE**. When in **QUIET MODE** the audio from the SB250LC is muted.

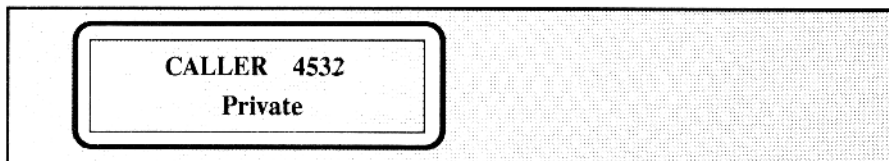
The  key toggles the SB250LC between Quiet and normal modes.

When a call is received by the SB250LC a reverberate tone is transmitted back to the caller and the SB250LC switches back to normal mode.


☐ **RECEIVING A CALL**

The Selcall option, when installed, is always listening for incoming calls. If it is necessary to monitor more than one channel the **SCAN MODE** should be used. Refer to 'PROGRAMMING THE SCANNER' for the set-up of the scan table.

To indicate that a selcall has been received an audible alarm is sounded and the LCD display shows the call as follows.

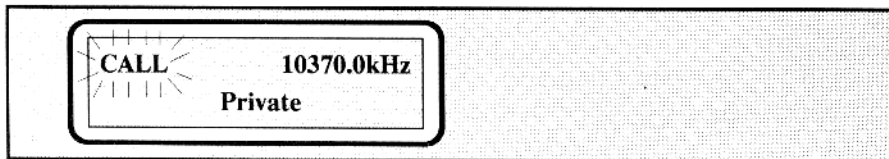


TO ANSWER THE CALL:

Press  or press the microphone PTT to clear the call and talk to the calling party.


If the call is left unanswered the audible alarm will time-out after thirty seconds.

After time-out the SB250LC will return to normal mode however the LCD display will flash 'CALL' and a periodic beep will sound.



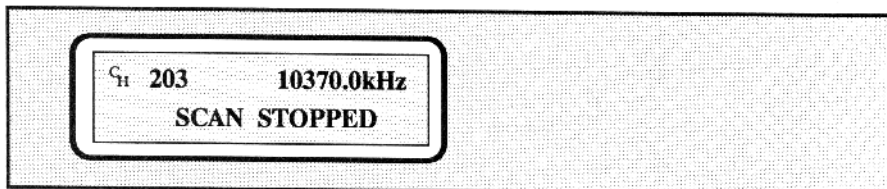
Pressing  will clear the call

Pressing  will display the caller's Selcall ID.

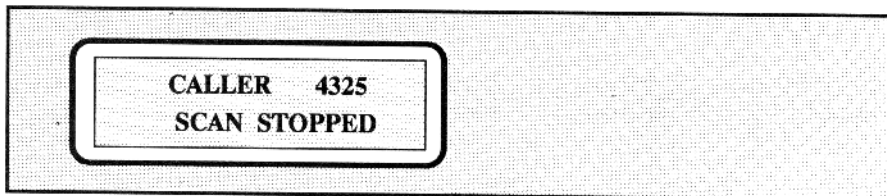
Pressing  will call back the calling party (if required)

☐ **RECEIVING A CALL DURING SCAN MODE**

If the SB250LC detects a Selcall while in **SCAN MODE** it will stop on that channel.



If the Selcall is valid an audible alarm will sound and the LCD display will indicate that a call was received




If you wish to answer the call press  or the microphone PTT switch and answer the caller.


If the call is unanswered the alarm will time-out.

After time-out the SB250LC will go back to scan mode and a periodic beep will sound.

Pressing  will cancel the selcall.

Pressing microphone PTT or a key will exit **SCAN MODE** leaving the SB250LC on the channel the Selcall was received on.

Pressing  will display the caller's ID.

Pressing  will call back the calling party.

MAKING A CALL

Select the channel on which the call is to be made.

Un-mute the SB250LC by pressing . If channel is clear then continue.

Press  key once.

Enter the desired Selcall number.

Press  to send the call.

If the call is successful a reverive signal will be heard from the called station. If the reverive is not heard try again later or try another frequency.


EXAMPLE: MAKING A CALL TO STATION 4321

Select channel on which station is to be called (see 'CHANNEL SELECTION')

Press  key.

Enter Station Selcall number

			
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Press  to send the call.

☐ **TELEPHONE INTERCONNECT OPTION**

The SB660 is a state of the art telephone to HF transceiver interface device which allows any HF user to access the telephone network from his transceiver without the aid of traditional operator assisted services. All control signals to the SB660 are based on the Selective calling format.

The SB250LC is designed to take full advantage of the SB660 interconnect. With the interconnect option fitted, the SB250LC can direct dial telephone numbers and receive calls from telephone callers.

☐ **BEACON MODE**

Channel selection is a very crucial factor in the use of any HF systems. Parameters such as distance, time of day and even solar activity all affect the choice of frequency between any two points. The SB660 is equipped with a beacon mode to help in the selection of the best frequency between you and the SB660.

Beacon mode is activated by Selcalling the SB660 interconnect with the Selcall ID XX99. XX is the first digits of the SB660 interconnect you are connecting with. When the SB660 receives this Selcall it will transmit a beacon. By requesting Beacons on a number of frequencies and listening for the beacon a decision can be made as to which frequency provided the best path.

☐ **DIALLING METHODS**

Two methods of dial up access are provided within the SB660 interconnect system. Preset Dialling is a method in which a set of up to 98 preset numbers are stored in the SB660 and each one can be called individually.

The second method allows Direct Dialling of telephone numbers.

The SB250LC supports both Preset and Direct dialling with the SB660 Interconnect.

☐ **PRESET DIALLING**

Preset telephone numbers are accessed by making a standard selcall to the SB660. The first two digits of the selcall number must be unique to the SB660 and the last two digits describe which of the 98 preset numbers to use.

EXAMPLE: MAKING A PRESET DIALLED CALL (PRESET NUMBER 90, INTERCONNECT NUMBER 60XX)

Select channel on which SB660 is operating. For best results see 'BEACON MODE' to select best path.

Un-mute SB250LC and listen for any traffic on channel. If no traffic, proceed.

Press



once

Enter Preset dialling number (Interconnect ID is 60XX)

CALLING 6090 PRIVATE	<div>6 ^</div>	<div>V 0</div>	<div>V 9</div>	<div>V 0</div>
--	--------------------	--------------------	--------------------	--------------------

Press

SEND
SCAN

 to make call

If successful revertive will be heard and call connection will commence.

Wait for telephone connection to be answered. When answered, talk as per a normal telephone call. (Don't forget to press PTT).

When the call is complete or the line is busy you should **HANG-UP** the connection.

☐ **DIRECT DIALLING**

Select channel on which SB660 is operating. For best results see 'BEACON MODE' to select best path.

Un-mute SB250LC and listen for any traffic on channel. If no traffic, proceed.

Press

SEL
TEL

 once.

Enter Selcall ID of SB660. (INTERCONNECT 60XX)

CALLING 6001 PRIVATE	<div>6 ^</div>	<div>V 0</div>	<div>V 0</div>	<div>V 1</div>
--	--------------------	--------------------	--------------------	--------------------

Press

SEL
TEL

 and enter desired phone number.

Enter Phone No. 4197322						
<div>4</div>	<div>1</div>	<div>V 9</div>	<div>7 ^</div>	<div>3</div>	<div>2</div>	<div>2</div>

Press  to make call

If successful a revertive will be heard and call connection will commence.


Wait for telephone connection to be answered. When answered, talk as per a normal telephone call. (Don't forget to press PTT).

When the call is complete or the line is busy you should **HANG-UP** the connection.

☐ TO HANG-UP

Press  once.

Enter Selcall ID of SB660.

Press  to complete HANG-UP .

☐ LAST NUMBER REDIAL

Press  twice

The last number called should be on the LCD display.

Press  to complete Redial.

☐ RECEIVING CALLS FROM A TELEPHONE CALLER

In the SB660 system telephone users can directly Selcall transceivers from their telephones. Selcalls made from a telephone handset are handled as per normal Selcall calls.

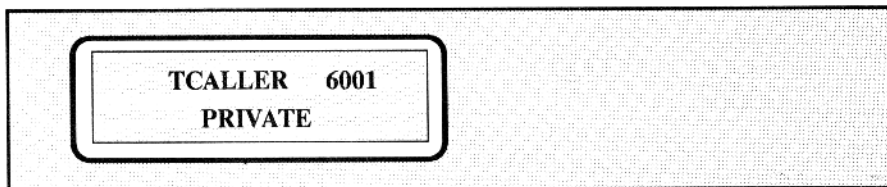
☐ TELEPHONE NUMBER LODGING

If a telephone caller Selcalls an unattended SB250LC he can then leave a telephone number in the SB250LC for the called party to ring when they return to the transceiver.

This form of Selcall message is known as a **TCALL**.

☐ RECEIVING A TCALL

When a **TCALL** is received the LCD display shows:

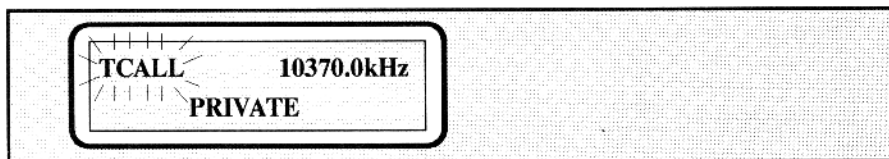


To view the telephone number stored:

Press  to clear call.

Press  twice.

If the **TCALL** times out the SB250LC will return to normal mode however the LCD display will flash 'TCALL'.



☐ **TO DIAL BACK TCALL NUMBER**



Enter Selcall ID of SB660.



☐ **MAKING A TCALL TO ANOTHER SB250.**

Proceed as for a normal telephone **DIRECT DIAL** call but enter the Selcall ID of the desired unit.

SB250 Channel/Frequency Allocation Table, MARINE RADIO Mode. (J3 In)

CH	OTC	Transmit	Receive	Channel Usage
0	----	2182.0	2182.0	Distress and safety OTC
1	404	4074.0	4366.0	OTC radphone VIB,VIH,VIM,VIP,VIT
2	405	4077.0	4369.0	OTC radphone VIS
3	412	4098.0	4390.0	OTC radphone VIA,VIB,VIT
4	415	4107.0	4399.0	OTC radphone VIB,VID,VIP
5	417	4113.0	4405.0	OTC radphone VIM,VIR,VIS
6	419	4119.0	4411.0	OTC radphone VIA,VID,VIT
7	421	4125.0	4125.0	Distress and safety OTC
8	424	4134.0	4426.0	Working & maritime safety OTC
9	427	4143.0	4435.0	OTC radphone
10	603	6206.0	6507.0	Working & maritime safety OTC
11	606	6215.0	6215.0	Distress and safety OTC
12	607	6218.0	6519.0	OTC radphone
13	802	8198.0	8722.0	OTC radphone VIS
14	806	8210.0	8734.0	OTC radphone VIP
15	811	8225.0	8749.0	OTC radphone VID,VIM,VIP
16	815	8237.0	8761.0	OTC radphone VID,VIP
17	817	8243.0	8767.0	OTC radphone VIA,VIT
18	822	8258.0	8782.0	OTC radphone VIT
19	829	8279.0	8803.0	OTC radphone VIA,VIB,VIS
20	833	8291.0	8291.0	Distress and safety OTC
21	1203	12236.0	13083.0	OTC radphone VIS,VIT
22	1221	12290.0	12290.0	Distress and safety OTC
23	1226	12305.0	13152.0	OTC radphone VIM,VIP
24	1227	12308.0	13155.0	OTC radphone VIA,VID
25	1229	12314.0	13161.0	OTC radphone VIB,VID
26	1231	12320.0	13167.0	OTC radphone VIS,VIT
27	1602	16363.0	17245.0	OTC radphone VIS
28	26	8176.0	8176.0	Working & maritime safety OTC
29	1604	16369.0	17251.0	OTC radphone VIP
30	1610	16387.0	17269.0	OTC radphone VIS
31	1612	16393.0	17275.0	OTC radphone VIP,VIT
32	1621	16420.0	16420.0	Distress and safety OTC
33	1622	16423.0	17305.0	OTC radphone VID,VIS
34	----	2201.0	2201.0	Working & maritime safety OTC
35	----	4146.0	4146.0	OTC miscellaneous
36	----	6224.0	6224.0	OTC miscellaneous
37	----	6227.0	6227.0	OTC miscellaneous
38	----	8294.0	8294.0	OTC miscellaneous
39	----	8297.0	8297.0	OTC miscellaneous
40	----	12353.0	12353.0	OTC miscellaneous
41	----	12356.0	12356.0	OTC miscellaneous
42	----	16528.0	16528.0	OTC miscellaneous

CH	OTC	MOBILE TRANSMIT	MOBILE RECEIVE	CHANNEL USAGE
44		16531.0	16531.0	OTC miscellaneous
45		2008.0	2008.0	Non-commercial calling & Working
46		2032.0	2032.0	Non-commercial calling & Working
47		2112.0	2112.0	Professional fishing calling & work
48		2164.0	2164.0	Professional fishing calling & work
49		2284.0	2284.0	Non-commercial calling & Working
50		2436.0	2436.0	Non-commercial calling & Working
51		2524.0	2524.0	Non-commercial calling & Working
52		2638.0	2538.0	Commercial calling & Working
53		4535.0	4535.0	Professional fishing calling & work
54		4620.0	4620.0	Professional fishing calling & work
55		12365.0	12365.0	OTC working
56		4030.0	4030.0	RFDS Radphone VKL
57		4045.0	4045.0	RFDS Radphone VJT
58				Private

Channels 58 to 99 are user programmable

99	Private
100	Private (write protected)
101	Private (write protected)
102	Private (write protected)
103	Private (write protected)
104	Private (write protected)
105	Private (write protected)
106	Private (write protected)
107	Private (write protected)
108	Private (write protected)
109	Private (write protected)
110	Private (write protected)
111	Private (write protected)
112	Private (write protected)
113	Private (write protected)
114	Private (write protected)
115	Private (write protected)
116	Private (write protected)
117	Private (write protected)
118	Private (write protected)
119	Private (write protected)
120	Private

Channels 120-255 are user programmable

255	Private
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☐ **SB250 Channel/Frequency Allocation Table, OUTPOST RADIO Mode. (J3 out)**

CH	OTC	MOBILE TRANSMIT	MOBILE RECEIVE	CHANNEL USAGE
0				Private (write protected)
1				Private (write protected)
2				Private (write protected)
3				Private (write protected)
4				Private (write protected)
5				Private (write protected)
6				Private (write protected)
7				Private (write protected)
8				Private (write protected)
9				Private (write protected)
10				Private (write protected)
11				Private (write protected)
12				Private (write protected)
13				Private (write protected)
14				Private (write protected)
15				Private (write protected)
16				Private (write protected)
17				Private (write protected)
18				Private (write protected)
19				Private (write protected)
20		2020.0	2020.0	RFDS Night Emergency VJN, VJI, VJJ, VJC, VJD, VNZ
21		2260.0	2260.0	RFDS Night Emergency VJN
22		2280.0	2280.0	RFDS Night Emergency VKL, VJT, VKJ
23		2360.0	2360.0	RFDS 24Hr Emergency VJY
24		2656.0	2656.0	RFDS Night Emergency VJQ
25		4010.0	4010.0	RFDS 24Hr Primary Call VKJ
26		4030.0	4030.0	RFDS 24Hr Primary Call VKL
27		4045.0	4045.0	RFDS 24Hr Primary Call VJT
28		4055.0	4055.0	RFDS 24Hr Primary Call VJC
29		4350.0	4350.0	RFDS Secondary Call VJD
30		4635.0	4635.0	School of the Air
31		4800.0	4800.0	School of the Air
32		4860.0	4860.0	School of the Air
33		4880.0	4880.0	School of the Air
34		4880.0	4926.0	RFDS Radphone VJN
35		4926.0	4926.0	School of the Air
36		4606.0	4935.0	RFDS Radphone VJI

CH	OTC	MOBILE TRANSMIT	MOBILE RECEIVE	CHANNEL USAGE
37		4980.0	4980.0	RFDS 24Hr Primary Call VJJ
38		5010.0	5010.0	School of the Air
39		5110.0	5110.0	RFDS 24Hr Primary Call VJI
40		5130.0	5130.0	School of the Air
41		5145.0	5145.0	RFDS 24Hr Primary Call VJN
42		5200.0	5200.0	School of the Air
43		5227.0	5227.0	School of the Air
44		5230.0	5230.0	School of the Air
45		5260.0	5260.0	School of the Air
46		5300.0	5300.0	RFDS 24Hr Primary Call VJB
47		5340.0	5340.0	School of the Air
48		5360.0	5360.0	RFDS 24Hr Primary Call VJQ
49		5370.0	5370.0	School of the Air
50		5410.0	5410.0	RFDS 24Hr Primary Call VJD
51		5445.0	5445.0	School of the Air
52		5731.0	5731.0	School of the Air
53		5735.0	5735.0	School of the Air
54		5740.0	5740.0	School of the Air
55		5845.0	5845.0	School of the Air
56		5850.0	5850.0	School of the Air
57		5865.0	5865.0	School of the Air
58		5895.0	5895.0	School of the Air
59		6866.0	6785.0	RFDS Radphone VJN
60		6825.0	6825.0	RFDS Secondary Call VJQ
61		6840.0	6840.0	RFDS 24Hr Primary Call VJY
62		6845.0	6845.0	RFDS Secondary Call VJJ
63		6880.0	6880.0	RFDS Secondary Call VKJ
64		6890.0	6890.0	RFDS Secondary Call VJT
65		6920.0	6920.0	RFDS Secondary Call VJC
66		6925.0	6925.0	School of the Air
67		6945.0	6945.0	RFDS Secondary Call VJB
68		6950.0	6950.0	RFDS Secondary Call VJD
69		6960.0	6960.0	RFDS Secondary Call VKL
70		6965.0	6965.0	RFDS Secondary Call VJI
71		7340.0	7340.0	School of the Air
72		7357.0	7357.0	School of the Air
73		7475.0	7392.0	RFDS Radphone VJI
74		7307.0	7410.0	RFDS Radphone VJJ
75		7465.0	7465.0	RFDS Secondary Call VJN
76		7565.0	7565.0	School of the Air

CH	OTC	MOBILE TRANSMIT	MOBILE RECEIVE	CHANNEL USAGE
77		7803.0	7803.0	School of the Air
78		7975.0	7975.0	RFDS Secondary Call VJY
79		8014.0	8014.0	School of the Air
80		8035.0	8035.0	School of the Air
81		7550.0	8144.0	RFDS Radphone VJQ
82		8150.0	8150.0	School of the Air
83		8165.0	8165.0	RFDS Secondary Call VNZ
84				Private

Channels 84 to 119 are user programmable

119				Private
120	404	4074.0	4366.0	OTC Radphone VIM, VIP
121	405	4077.0	4369.0	OTC Radphone VIS
122	412	4098.0	4390.0	OTC Radphone On request
123	415	4107.0	4399.0	OTC Radphone VIB, VID
124	417	4113.0	4405.0	OTC Radphone On request
125	419	4119.0	4411.0	OTC Radphone VIT
126	427	4143.0	4435.0	OTC Radphone On request
127	607	6218.0	6519.0	OTC Radphone VIB, VID, VIM, VIP, VIS, VIT
128	802	8198.0	8722.0	OTC Radphone VIS
129	806	8210.0	8734.0	OTC Radphone VIP
130	811	8225.0	8749.0	OTC Radphone VID, VIM
131	815	8237.0	8761.0	OTC Radphone On request
132	817	8243.0	8767.0	OTC Radphone VIT
133	822	8258.0	8782.0	OTC Radphone On request
134	829	8279.0	8803.0	OTC Radphone VIB
135	834	8707.0	8707.0	OTC Radphone VIB, VID, VIM, VIP, VIS, VIT
136	1203	12236.0	13083.0	OTC Radphone VIS
137	1226	12305.0	13152.0	OTC Radphone VIP
138	1227	12308.0	13155.0	OTC Radphone VID
139	1229	12314.0	13161.0	OTC Radphone VIB
140	1231	12320.0	13167.0	OTC Radphone VIT
141	1602	16363.0	17245.0	OTC Radphone VIS
142	1604	16369.0	17251.0	OTC Radphone VIP
143	1610	16387.0	17269.0	OTC Radphone On request
144	1612	16393.0	17275.0	OTC Radphone VIT
145	1622	16423.0	17305.0	OTC Radphone VID
146				Private

Channels 145 to 255 are user programmable

255

Private