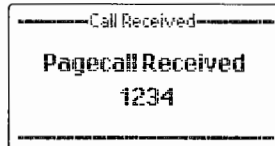**Receiving a "Pagecall" "SMS"**

When a Pagecall is received an audible alarm is sounded, the mute (squelch) is opened and the display shows the following:-

```
-------Call Received--------
  Pagecall Received
        1234
```

```
-------Pagecall Information-------
   CALL ME AS SOON AS
       POSSIBLE
```

The audible alarm will sound for thirty seconds and then time out. To cancel the alarm before the time out period and to acknowledge the call, press PTT or any key.

When the audible alarm times out the call received **"Envelope"** icon is displayed in the bottom right hand side of the display.

For details of previously received Pagecalls enter **"Call History"** by holding the

CALL key down for two seconds or more.

Remote station operational status – "Statcall"

"Statcall" allows the operational status parameters of any Barrett transceiver fitted with selcall to be accessed. This status is sent from the remote transceiver as a selcall with the status information embedded within the selcall structure. Information retrieved for remote diagnosis of transceiver performance includes:-

Selcall ID
Software version
Option level fitted and transceiver model
Receive state battery voltage
Last transmit state battery voltage
Signal strength indication of received status request selcall.
Forward power output level
VSWR of antenna

Requesting another stations status

select the channel you want to send the Status request call on. ("Beacon call" can be used to select the best channel)
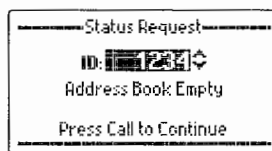
listen for traffic on that channel, if no traffic is heard then continue.

Then press the ⟨CALL⟩ key

select "Status Request" with the scroll keys

```
————Send Call————
        ▲
  StatusRequest
        ▼
```

then press the ⟨CALL⟩ key

```
————Status Request————
     ID: 123◇
   Address Book Empty
   Press Call to Continue
```
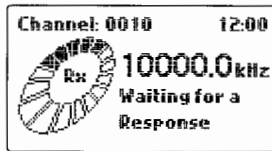
enter the identification of the station you want to request the operational status from (see **"Entering station ID's and using the address and telephone books"**)
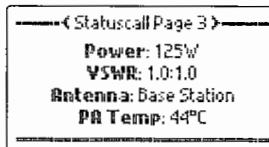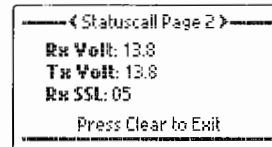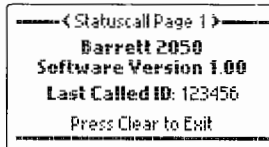
then press the ⟨CALL⟩ key

```
Channel: 0010        12:00
      10000.0 kHz
  Tx  Status Request
      ID: 1234
```
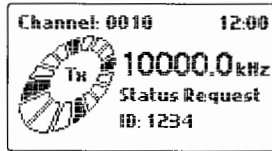
The status request is being transmitted

```
Channel: 0010        12:00
      10000.0 kHz
  Rx  Waiting for a
      Response
```

Your station is waiting for the station you called to send back its "Status data" (which sounds like the remote station sending a Selcall to you) after which the following will be displayed, use the

⟨ 1 ⟩ or ⟨def ⟩3 keys to move through the pages:-

```
-----< Statuscall Page 1 >-----
        Barrett 2050
    Software Version 1.00
    Last Called ID: 123456
      Press Clear to Exit
```

```
-----< Statuscall Page 2 >-----
      Rx Volt: 13.8
      Tx Volt: 13.8
      Rx SSL: 05
      Press Clear to Exit
```

```
-----< Statuscall Page 3 >-----
        Power: 125W
        VSWR: 1.0:1.0
    Antenna: Base Station
      PA Temp: 44°C
```

or – the following error messages:-

```
Channel: 0010        12:00
      10000.0 kHz
  Rx  No Response
     USB HF F4 INT
```

There was no response from the station you requested the status from, repeat the process or change the channel and repeat the process

Person to person(s) secure call

This facility allows a secure voice connection to be made between two or more stations.

Note:- In the protected menu "Audio Setting" section, scrambler must be enabled in the "Scrambler section" and in the "Scrambler code" section a **4** digit number entered. For security purposes this code must be the same as the code set in the station you wish to call.

select the channel you want to set up the secure link on. ("Beacon call" can be used to select the best channel)
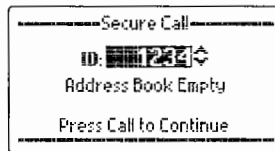
listen for traffic on that channel, if no traffic is heard then continue.

press the ⟨CALL⟩ key

select "Secure Selcall" with the scroll keys

```
━━━━━━Send Call━━━━━━
            ▲
       Secure Call
            ▼

━━━━━━━━━━━━━━━━━━━━━
```

press the ⟨ENTER⟩ key

```
━━━━━Secure Call━━━━━
       ID: ▓▓▓▓▓▓◇
     Address Book Empty

    Press Call to Continue
━━━━━━━━━━━━━━━━━━━━━
```

enter the station ID of the station you wish to call (see "**Entering station ID's and using the address and telephone books**") **Note:-** to make a secure call to multiple stations use a group call ID encompassing the required stations.

press the ⟨CALL⟩ key

wait for the selective call to be sent.

listen for revertive tone from the called station that indicates the call was successful.

If no revertive tone is heard or it was difficult to hear try another channel and repeat the process until a good channel is found. Revertive tones will not be heard if using a group call code to call multiple stations.

Tuning the receiver

The 2050 transceiver can be used as a tunable receiver. The receiver can be tuned from 500 KHz to 30 MHz. in steps ranging from 1 Hz up to 10 MHz.

Press the [Rx Tune ghi 4] key to enter the tuning receiver mode:-

Channel: 0010   12:00
Rx 10000.0 kHz
Receiver Tune
10000.000kHz
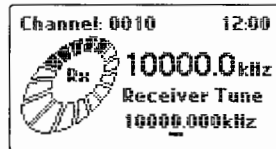
To tune the receiver move the cursor over the digit representing the frequency increment required in the receiver frequency display you wish

to tune using either the [◀ 1] or [def ▶3] keys, then use.

[▲] or [abc 2]   to tune up in frequency

[▼] or [jkl 5]   to tune down in frequency

press the [Clear] key to return to the previous operating channel.

Scanning with the tunable receiver

The receiver can scan any range of frequencies from 500 KHz to 30 MHz with a frequency step down to 10 Hz.

Setting up scan frequencies

To set up the frequency scan parameters, enter the tuning receiver mode, then:-

Press the ⌐Scan wxyz 9⌐ key for two seconds until the following is displayed:-

```
————————Lower Limit————————

  016000000  kHz

  Type lower frequency
```

Enter a new frequency, using the numeric keys, to set the lower scan limit boundary - example below shows the lower limit set to 12 MHz:-

```
————————Lower Limit————————

  12000.█——  kHz

  Type lower frequency
```

then press the ⟨ENTER⟩ key

Enter a new frequency, using the numeric keys, to set the upper scan limit boundary - example below shows the upper limit set to 14 MHz:-

```
————————Upper Limit————————

  14000.█——  kHz

  Type higher frequency
```

then press the ⟨ENTER⟩ key

```
--------Rx Scroll Step Size--------

                2500Hz
```

Using the Scroll keys select step increment required in Hz (Steps available 100Hz (0.1kHz), 250Hz (0.25kHz),1000Hz (1kHz), 2500Hz (2.5kHz) (example shown 2500Hz)

then press the ENTER key

```
--------Rx Scroll Step Rate--------

                250ms
```

Using the Scroll keys select step speed in milliseconds. (steps available 100ms, 250ms, 500ms, 1000ms (example shown 250ms)

then press the ENTER key

Start receiver scanning

To start receiver scanning, enter the tuning receiver mode, then:-

press the Scan wxyz 9 key

The receiver will now be scanning using the last entered parameters.

The receiver will now be scanning using the entered parameters.

The transceiver will halt scanning for the following reasons:-

Signal Strength Level (SSL) mute is selected and a signal with a level greater than the pre-set threshold is received.

Audio (syllabic) mute is selected and a voice signal is detected

Menu functions

Menus

The menu is divided into two sections, the "Standard Menu" and the "Protected Menu". Both sections are used to set or display transceiver parameters. The "Standard Menu" is available directly to operators as no critical operation parameters can be changed in this section.

The "Protected Menu" has some critical parameters and needs the operator to press the menu key for two seconds to enter it.

Note:- Menu items in both menus can be barred from use, if operationally required, by using Barrett 2050 PC based programming software.

Navigating the Menus

All sections of the Menus are operated using the similar key press sequences. In this section when describing the functions available in the Menu system it is assumed the operator is familiar with the following:-

press the [Menu] key to enter the "Standard Menu" section

press the [Menu] key **for more than 2 seconds** to enter the "Protected Menu" section

use the **Scroll keys** to select the menu item you require.

then press ⌄ENTER⌄ key

Once in the menu item, again use the **Scroll keys** to select a parameter or enter a value using the numeric or alpha key.
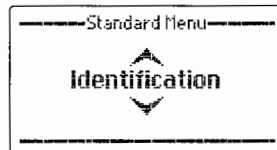
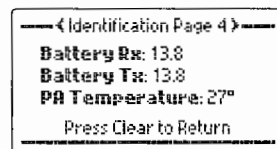When you have the parameter or value required press the

⌄ENTER⌄ key

Note:- Due to network operation requirements access to items in the Standard Menu or Protected Menu may be barred by network administrators during programming.

Standard Menu

Identification

```
————Standard Menu————

         ▲
   Identification
         ▼
```

Use the [◄ 1] and [def ►3] keys to scroll back and forth through the identification pages:-

```
————< Identification Page 1 >————
  Txcvr Type: 2050
  S/N: 212345678
  Options: 1,2,3,4,5,6,7,8
      Press Clear to Return
```

```
————< Identification Page 2 >————
  Software Version: 1.00
  DSP Version: 1.00
  Core Version: 1.00
      Press Clear to Return
```

```
————< Identification Page 3 >————
  Selcall ID1: 1111
  Selcall ID2: 2222
  Six Digit ID: 123456
      Press Clear to Return
```

```
————< Identification Page 4 >————
  Battery Rx: 13.8
  Battery Tx: 13.8
  PA Temperature: 27°
      Press Clear to Return
```

Displays the transceiver model number, transceiver serial number, options fitted, software version, DSP version, core version, the transceiver's selcall ID's, the battery voltage in receive, the battery voltage during the last transmit cycle and the PA temperature.

Display Options

Backlight Level

```
------Standard Menu------        ------Display Options------
                                 Backlight Level  ⬍
      Display Options                   High
```

Allows the backlight level on the LCD display to be adjusted to one of three viewing levels:-High, Medium or Low.

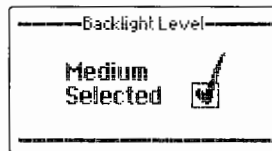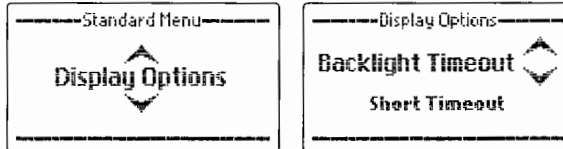Use the **Scroll keys** to select the level required (example Medium):-

```
------Backlight Level------
           ⌃
        Medium
           ⌄
```

when the level required is displayed press the ⟨ENTER⟩ key

```
------Backlight Level------
    Medium     ✓
    Selected
```

Backlight Timeout

```
------Standard Menu------
        ⌃
   Display Options
        ⌄
```
```
------Display Options------
                    ⌃
Backlight Timeout  ◇
                    ⌄
   Short Timeout
```

Allows the backlight timeout time to be set so the backlight stays on for a short time from the last key press, for a long time from the last key press or so that the backlight is permanently on or off.

Note:- Having the backlight off reduces the transceiver's power consumption.

Use the **Scroll keys** to select the required setting (example "Always on"):-

```
------Backlight Timeout------
          ⌃
      Always On
          ⌄
```

When the setting required is displayed press the ⟨ENTER⟩ key

```
------Backlight Timeout------
   Always On    ✓
   Selected
```
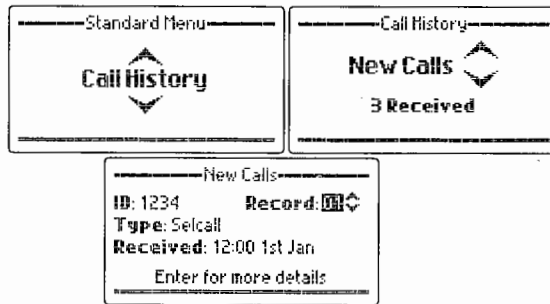
Call History

Whenever a Selcall, Telcall, All call, Group call, Sub group call, Pagecall, Statcall GPS or Emergency call is received or transmitted its details are held in a first in first out call history buffer.

Received calls that have not been viewed before are held in a section called "New Calls", received calls that have been viewed are held for future viewing in the "Inbox" all transmitted calls are stored in the "Outbox". Each history buffer can store up to 30 entries.

New Call

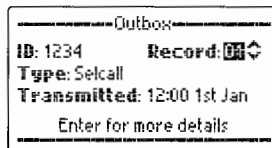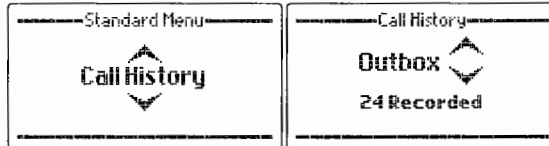This section lists all types of selcalls that have been received but not yet viewed:-

```
--------Standard Menu--------        ----------Call History----------
                                                       ⌃
         Call History                        New Calls ⌄
              ⌄
                                               3 Received


              ----------New Calls----------
              ID: 1234          Record: 🔲◇
              Type: Selcall
              Received: 12:00 1st Jan
                   Enter for more details
```

Inbox

This section lists all types of Selcalls that have been received and viewed and stored for future reference:-

```
--------Standard Menu--------        ----------Call History----------
                                                       ⌃
         Call History                         Inbox ⌄
              ⌄
                                              27 Recorded


              ----------Inbox----------
              ID: 1234          Record: 🔲◇
              Type: Selcall
              Received: 12:00 1st Jan
                   Enter for more details
```
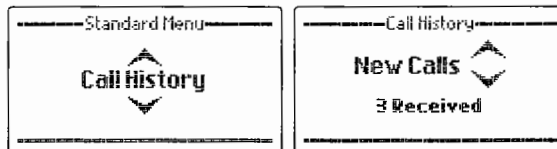
Outbox

This section lists all types of Selcalls that have been transmitted:-

```
------Standard Menu------      -------Call History-------

                                   Outbox  ⌃
    Call History  ⌃                        ⌄
              ⌄
                                   24 Recorded
```

```
-----------Outbox-----------
ID: 1234        Record:01 ⌃⌄
Type: Selcall
Transmitted: 12:00 1st Jan
      Enter for more details
```

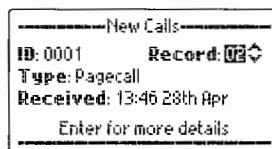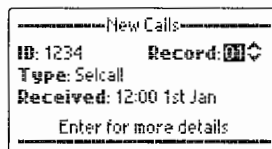Navigation when in the "New calls", "Inbox" and "Outbox" is always the same as shown in the "New Calls" example below:-

```
------Standard Menu------      -------Call History-------

                                   New Calls  ⌃
    Call History  ⌃                           ⌄
              ⌄
                                   3 Received
```

Either   Use the **Scroll keys** to select the required record:-

```
-----------New Calls-----------
ID: 1234        Record:01 ⌃⌄
Type: Selcall
Received: 12:00 1st Jan
      Enter for more details
```

```
-----------New Calls-----------
ID: 0001        Record:02 ⌃⌄
Type: Pagecall
Received: 13:46 28th Apr
      Enter for more details
```

Or   enter a record number using the numeric keys and press

the ⟨ENTER⟩ key

```
————————New Calls————————
ID: 1234        Record: 2▮
Type: Selcall
Received: 12:00 1st Jan

      Enter for more details
```

```
————————New Calls————————
ID: 0001        Record:▣▦↕
Type: Pagecall
Received: 13:46 28th Apr

      Enter for more details
```

In all cases, when a record has been selected, press the [ENTER] key for more details of the call:-

```
————————Inbox————————
Name: DUBAI BASE
Channel: 0002
Frequency:  2000.0 kHz
```

If the received Selcall ID is not listed in the transceiver Selcall ID book, associating it with a name, the following will be displayed:-

```
————————Inbox————————
Name: Unknown
Channel: 0002
Frequency:  2000.0 kHz
```

If the channel the incoming selcall was received on has been deleted since the selcall was received the following is displayed:-
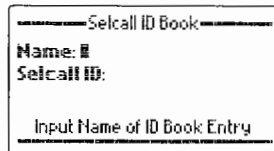
```
————————Inbox————————
Name: DUBAI BASE
Channel: 0002
Frequency: Unknown
```
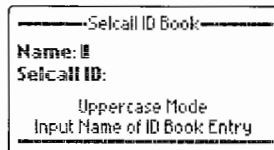
Address books

Selcall ID Book – add a new entry

```
------Standard Menu------         ------Address Books------
         ╱╲                           Selcall ID Book ╲╱
    Address Books                        20 Entries
         ╲╱
```

```
------Selcall ID Book------
         ╱╲
       Add Entry
         ╲╱
```

then press the ⟨ENTER⟩ key

```
------Selcall ID Book------
Name: ▌
Selcall ID:

   Input Name of ID Book Entry
```

press 【Tune ⇧ ?】 key if Uppercase required

```
------Selcall ID Book------
Name: ▌
Selcall ID:
        Uppercase Mode
   Input Name of ID Book Entry
```
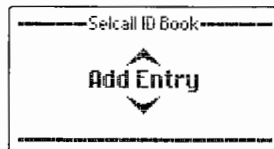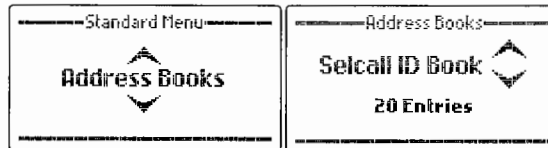
enter name to be associated with Selcall ID

```
------Selcall ID Book------
Name: MOSCOW BASE▌
Selcall ID:
        Uppercase Mode
   Input Name of ID Book Entry
```

then press ⟨ENTER⟩ key:-
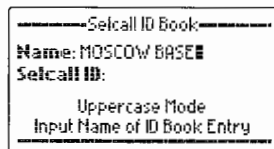
```
------- Selcall ID Book -------
Name: MOSCOW BASE
Selcall ID: ------

        Input Selcall ID
```

enter selcall ID number, four or six digits

```
------- Selcall ID Book -------
Name: MOSCOW BASE
Selcall ID: 4569--

        Input Selcall ID
```

then press the ⟨ENTER⟩ key

```
------- Selcall ID Book -------

        New
        Entry  ✍
```

Selcall ID Book – edit an entry

```
----------Standard Menu----------
              ⌃
      Address Books
              ⌄
```

```
-----------Address Books----------
                         ⌃
      Selcall ID Book  ◇
                         ⌄
         20 Entries
```

```
-----------Selcall ID Book-----------
               ⌃
      Search Entries
               ⌄
```

```
-----------Selcall ID Book-----------
Name: DUBAI BASE ◇
Selcall ID: 001234

  Press Enter to edit Selcall ID
```
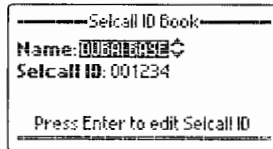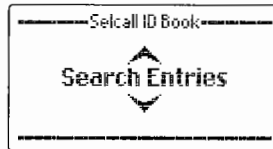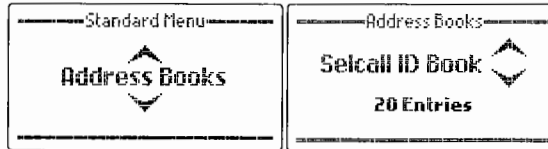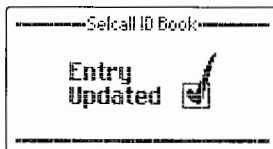
Use the **Scroll keys** to select entry and press ⟨ENTER⟩ key to edit

```
-----------Selcall ID Book-----------
Name: DUBAI BASE
Selcall ID: ⬛-----

           Input Selcall ID
```
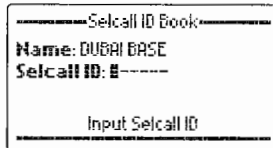
input new Selcall ID four or six digits

```
-----------Selcall ID Book-----------
Name: DUBAI BASE
Selcall ID: 547⬛--

           Input Selcall ID
```

then press the ⟨ENTER⟩ key

```
-----------Selcall ID Book-----------

      Entry      ✓
      Updated  ☑
```

Selcall ID Book – erase an entry

```
-----Standard Menu-----        -----Address Books-----
           ⌃
    Address Books               Selcall ID Book ⌃⌄
           ⌄
                                   20 Entries
```

```
-----Selcall ID Book-----
           ⌃
     Search Entries
           ⌄
```

```
-----Selcall ID Book-----
Name: DUBAI BASE ⌄
Selcall ID: 0547

Press Enter to edit Selcall ID
```
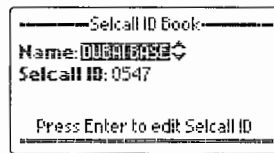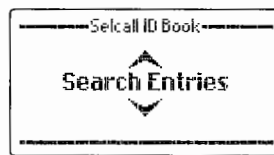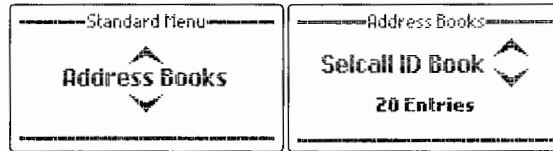
use the **Scroll keys** to select the entry you want to erase.
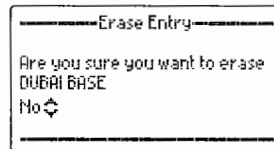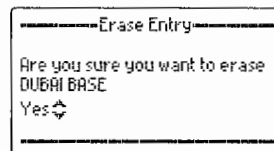
press the [Clear] key **for more than two seconds**

```
-----Erase Entry-----
Are you sure you want to erase
DUBAI BASE
No ⌄
```

use the **Scroll keys** select "Yes"

```
-----Erase Entry-----
Are you sure you want to erase
DUBAI BASE
Yes ⌄
```

press the ⟨ENTER⟩ key

```
-----Selcall ID Book-----

       Entry
       Erased
```

Phone book - add a new entry

```
-----Standard Menu-----

        ^
   Address Books
        v
```

```
-----Address Books-----

   Phone Book  <>

       05 Entries
```

```
-----Phone Book-----
Name:
Ph:

Input Name of Phone Book Entry
```

press the [Tune ⇧ ?] key if uppercase required

```
-----Phone Book-----
Name:
Ph:

        Uppercase Mode
Input Name of Phone Book Entry
```
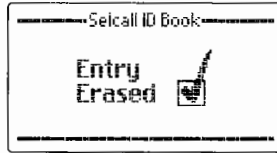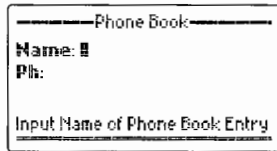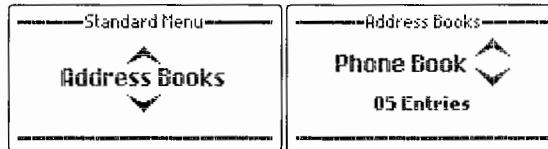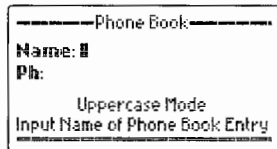
enter the name to be associated with telephone number

```
-----Phone Book-----
Name: Bill
Ph:

Input Name of Phone Book Entry
```
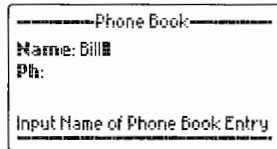
then press the [ENTER] key

```
----------Phone Book----------
Name: Bill
Ph: ▌------------------

     Input Telephone Number
```

enter the telephone number using the numeric keys (up to 16 digits)

```
----------Phone Book----------
Name: Bill
Ph: 0061895555555▌------

     Input Telephone Number
```

then press the ⟨ENTER⟩ key

```
----------Phone Book----------

     New      ✓
     Entry    ☑

```

Phone book - edit an entry

```
-----Standard Menu-----          -----Address Books-----

        ⌃                            Phone Book ⌃
   Address Books                               ⌄
        ⌄
                                      05 Entries
```

```
-----------Phone Book-----------

            ⌃
      Search Entries
            ⌄
```

```
-----------Phone Book-----------
Name: 4WDClub ⌃
Ph: 95551234

Press Enter to edit Telnumber
```
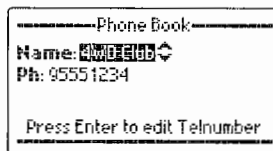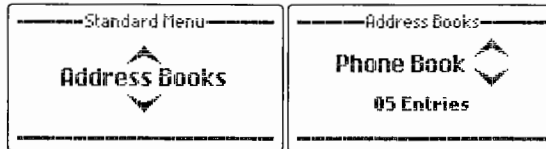
Either   use the **Scroll keys** to scroll though the phone book to find the entry you want to edit

```
-----------Phone Book-----------
Name: Barrett Comms ⌃
Ph: 0061894341700

Press Enter to edit Telnumber
```

Or   enter the first letter of the name you are looking for using the Alpha keys, for example, looking for the name Patrick:-

Key in 'p' using alpha keys, then use the **Scroll keys** to find the name:-

```
-----------Phone Book-----------
Name: Patrick ⌃
Ph: 0061894184141

Press Enter to edit Telnumber
```
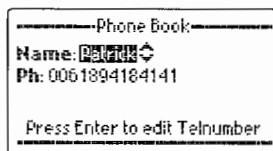
then press the ⟨ENTER⟩ key

now to edit the telephone number press the [ENTER] key

```
------Phone Book------
Name: Patrick
Ph: #--------------------

    Input Telephone Number
```

enter the new telephone number using the numeric keys (up to 16 digits):-

```
------Phone Book------
Name: Patrick
Ph: 0061895559876#------

    Input Telephone Number
```

then press the [ENTER] key

```
------Phone Book------

    Entry
    Updated  [hand icon]

```

```
------Phone Book------
Name: Patrick ◇
Ph: 0061895559876

    Press Enter to edit Telnumber
```

Phone book - erasing an entry

```
------Standard Menu------

    ⌃
  Address Books
    ⌄
```

```
------Address Books------

  Phone Book  ◇

    05 Entries
```

```
————Phone Book————
         ︿
    Search Entries
         ﹀
```

```
————Phone Book————
Name: Patrick ⇕
Ph: 0061895559876

Press Enter to edit Telnumber
```
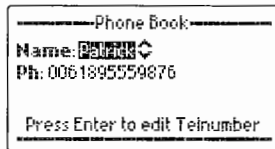
select the entry you want to erase using the **Scroll keys**.

press the [Clear] key for more than two seconds

```
————Erase Entry————
Are you sure you want to erase
Patrick
No ⇕
```

use the **Scroll keys** select "Yes"

```
————Erase Entry————
Are you sure you want to erase
Patrick
Yes ⇕
```

then press the [ENTER] key

```
————Phone Book————
    Entry
    Erased  ✓
```

IR Enable

```
-------Standard Menu-------
           ⌃
        Enable IR
           ⌄
_____
```
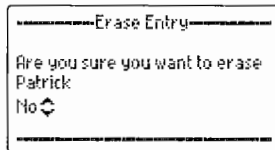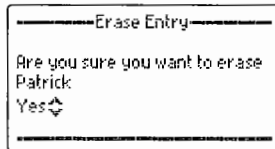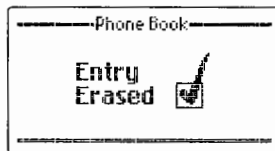
Press the ⟨ENTER⟩ key to enable the IR facility:-

```
----------IR Enable----------

    Infra Red      ✓
    Enabled       ☑
_____
```
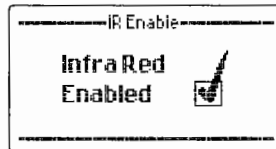
The IR facility will remain enabled ready to link to an IR equipped PC or laptop that is loaded with the Barrett 2000 series programming system for a period of 5 minutes. After this time, unless an IR link has been established, the IR is again disabled. See the "Programming section" of this manual for more details.

Audio Scrambler

```
————Standard Menu————

        ︿
  Audio Scrambler
        ︾
```

When using the internally fitted audio scrambler accessory PCB that provides backwards compatibility to the 900 series audio inversion scrambler (BCA20031) or the Transcrypt scrambler (BCA2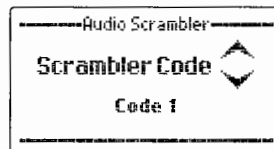0054), the scramble code is set using this option. All stations using the scramblers require the same scrambler code to be entered:-

```
————Audio Scrambler————

                    ︿
  Scrambler Code   ︾

        Code 1
```

The code can be selected between 1 and 16:-

```
————Scrambler Code————

        ︿
     Code 16
        ︾
```

press the ENTER key

```
————Scrambler Code————

     Code 16      ✓
     Selected    ☑
```
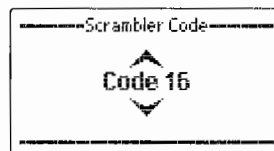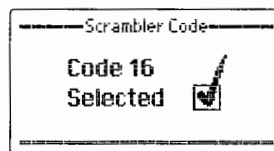
Note:- If using the internally fitted rolling code audio scrambler accessory PCB (BCA20054) the code is set on the unit before installation using an external programmer.

2040 Antenna Select (available when 2050 deployed in 2040 manpack adaptor)

```
-------Standard Menu-------      ------2040 Antenna Select------
            ⌃                         ⌃
  2040 Antenna Select         2040 Antenna ⌄
            ⌄                        50 Ohm
```
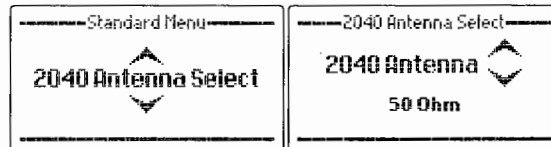
This section allows the selection of the antenna type to be used with the 2040 manpack. When an un-tuned antenna such as the whip or a long-wire is to be used "Whip/Long-wire" is selected. This enables the automatic antenna tuner. If a 50 Ohm broadband antenna or a tuned dipole is to be used select "50 Ohm". The automatic tuner is disabled and the BNC socket on the 2040 is used.

Use the **Scroll keys** to select the setting required (example "Whip L/Wire" :-

```
--------2040 Antenna--------
            ⌃
    Whip/Long Wire
            ⌄
```

press the ⟨ENTER⟩ key

```
--------2040 Antenna--------
    Whip/Long
    Wire           ✔
    Selected
```
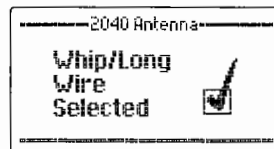
Protected Menu

General

Microphone Up/Down Keys
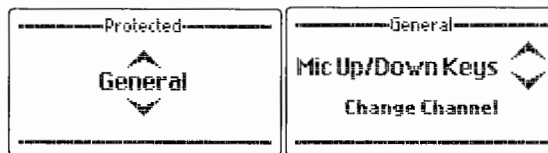
The keys on the top of the microphone can be assigned for two different functions, either as channel up/down keys or as volume control keys or they can be disabled:-

Use the **Scroll keys** to select the setting required (example "Mic keys disabled"):-

press the ⟨ENTER⟩ key

Transmit "over beep"

```
┌──────Protected──────┐  ┌──────General──────┐
│          ▲          │  │              ▲     │
│       General       │  │  Tx Over Beep ◇    │
│          ▼          │  │              ▼     │
│                     │  │     Disabled       │
└─────────────────────┘  └────────────────────┘
```
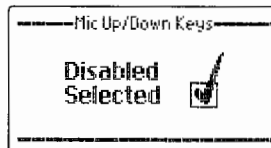
When selected the 2050 transceiver transmits a short tone when the PTT is released. It provides an audible indication to the operator at the remote station that the local station has stopped transmitting.

Use the **Scroll keys** to select the setting required (example "Tx Over Beep enabled"):-

```
┌────────Tx Over Beep────────┐
│             ▲              │
│          Enabled           │
│             ▼              │
│                            │
└────────────────────────────┘
```

press the ▽(ENTER) key

```
┌────────Tx Over Beep────────┐
│                            │
│     Enabled      ✓         │
│     Selected     ☑         │
│                            │
└────────────────────────────┘
```

Transmit timeout

```
-------Protected-------        -------General-------
                                                  ▲
        ▲                      Transmit Timeout  ◇
     General                                       ▼
        ▼                           Disabled
```
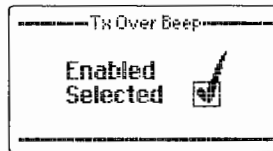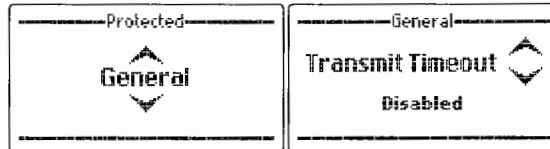
When this feature is enabled the 2050 transceiver will disable the transmitter if the PTT (push to talk button on the microphone) is held on for more than the time limit set below i.e. if the microphone is inadvertently jammed under a seat. Releasing the PTT will reset the transmitter. Settings available are "Disabled", 1 minute, 2 minutes, 3 minutes:-

Use the **Scroll keys** to select the setting required (example 2 minutes):-

```
-------Transmit Timeout-------
              ▲
            2min
              ▼
```

When the setting required is selected press the ⟨ENTER⟩ key

```
-------Transmit Timeout-------

   2min
   Selected    ✓
```
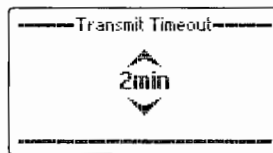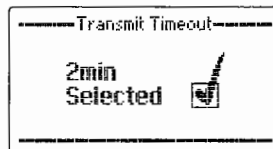
Channel Labels

This section enables the adding, editing or erasing of channel use labels, these labels are used during channel programming to indicate what particular channels are used for i.e. UNHCR Geneva:-

Edit labels

```
-----------Protected-----------       -----------General-----------
                                     
            ^                         Channel Labels  ^
         General                                      v
            v                                02 Entries
```

```
        -----Channel Labels-----
        
                ^
           Search Entries
                v
```

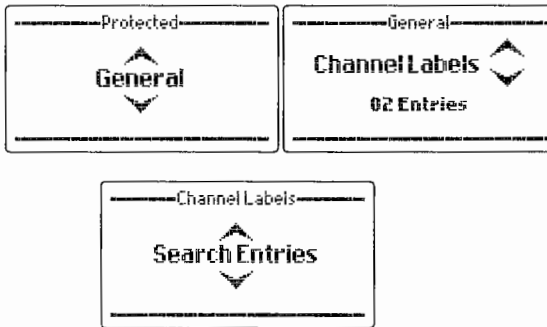**Either**   use the **scroll keys** to scroll through to the label you want to edit:-

```
        -----Channel Labels-----
        
        Label: Private ◇
        
            Hold Clear to Delete
            Press Enter to edit Label
```

Or   search for label you want to edit by entering the first letter of the label and using the **scroll keys** to select it:-

```
        -----Channel Labels-----
        
        Label: Private ◇
        
            Hold Clear to Delete
            Press Enter to edit Label
```
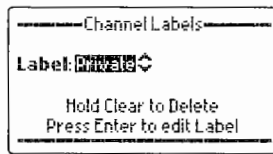
to edit the label press the ⟨ENTER⟩ key

```
        -----Channel Labels-----
        
        Label: Private█
        
            Input New Channel Label
```

edit the entry when editing is complete press the ⧖ENTER key

```
———Channel Labels———

Entry     ✓
Updated   ☑
```
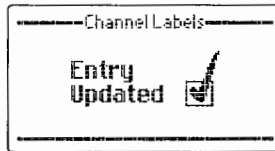
Delete a label

Enter edit mode as shown above and select the label you want to delete:-

```
———Channel Labels———

Label: Private ◇

Hold Clear to Delete
Press Enter to edit Label
```
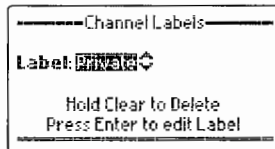
press the [Clear] key until the display below appears:-

```
———Erase Entry———

Are you sure you want to erase
Private
(in use by 0 channels)
No ◇
```
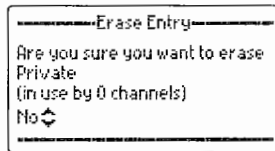
Use the **scroll keys** to select "Yes" you want to delete the entry:-

```
———Erase Entry———

Are you sure you want to erase
Private
(in use by 0 channels)
Yes ◇
```

then press the ⧖ENTER key.

```
———Channel Labels———

Entry    ✓
Erased   ☑
```

Add an Entry

```
-------Protected-------        --------General--------
                                               ◇
        ⌃                      Channel Labels  ◇
   General
        ⌄                          02 Entries
```

```
--------Channel Labels--------

          ⌃
      Add Entry
          ⌄
```

press the ⟨ENTER⟩ key

```
--------Channel Labels--------

Label: ▌

     Input New Channel Label
```
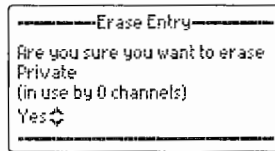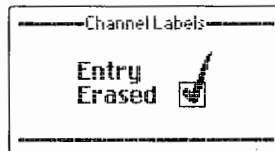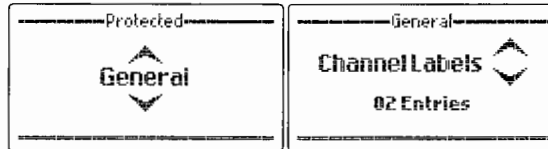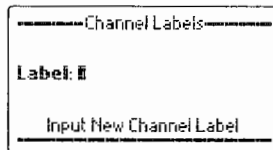
type in a new label using the Alpha keys:-.
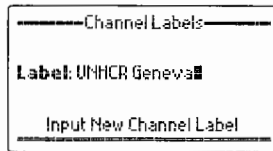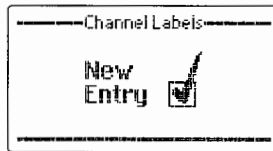
```
--------Channel Labels--------

Label: UNHCR Geneva▌

     Input New Channel Label
```

then press the ⟨ENTER⟩ key.

```
--------Channel Labels--------

    New      ✓
    Entry   ☑
```

Setting the Clock

```
-------Protected-------        -------General-------
          ^                    Set Clock  ^
       General                            v
          v                      00:00
```

ENTER
press the \/ key

```
-------Set Clock-------
         00:00
    Use ↕ keys to set time
    Use ↔ keys to move cursor
```
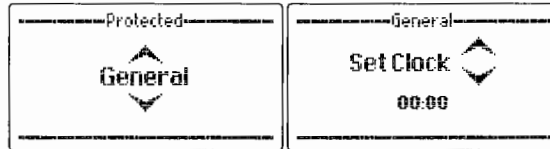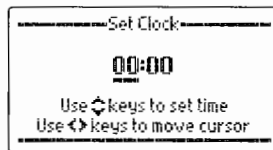
Use the Scroll keys and as shown on the screen to set the current
time for example 13:15 (1:15 PM):-

```
-------Set Clock-------
         13:15
    Use ↕ keys to set time
    Use ↔ keys to move cursor
```
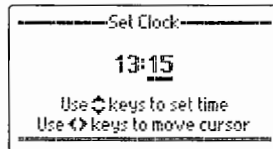
ENTER
When time is set press the \/ key.
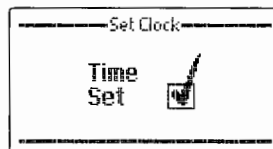
```
-------Set Clock-------
       Time    ✓
       Set    ☑
```

Setting the Date

```
----------Protected----------          ----------General----------
                                                          ^
           ^                            Set Date          v
        General
           v                            Sat 01st Jan
```

press the ⬡ENTER key

```
--------------Set Date--------------

        01  Jan  2000

    Use ⬍ keys to set date
    Use ⬌ keys to move cursor
```
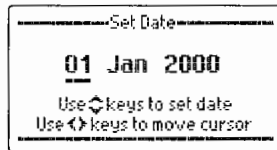
· Use the Scroll keys and as shown on the screen to set the current date for example 04 June 2004:-

```
--------------Set Date--------------

        04  Jun  2004

    Use ⬍ keys to set date
    Use ⬌ keys to move cursor
```
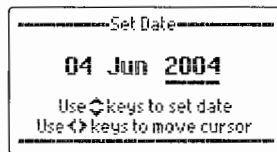
When date is entered press the ⬡ENTER key

```
--------------Set Date--------------

        Date   ✓
        Set    ☑
```

B.I.T.E. Test

```
-------Protected-------        -------General-------
                                          ^
        ^                      B.I.T.E. Test  <>
    General                               v
        v                         Untested
```
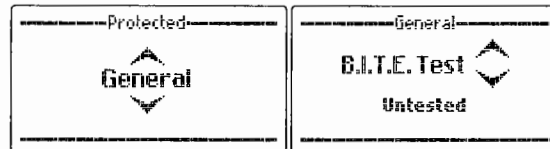
This section runs the transceiver's Built in Test Equipment (B.I.T.E.) tests. The transceiver checks vital transceiver functions and reports the results as shown below:-

press the ENTER key

```
-------BITE Test-------
Testing VCO... Passed
Testing Volume Control... Passed
Testing AGC/SSL... Passed
Testing Noise Gates... Passed
```

then press the ENTER key to continue:-

```
-------General-------
                ^
B.I.T.E. Test  <>
                v
      Passed
```
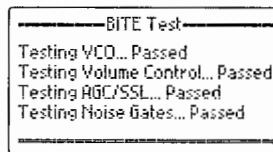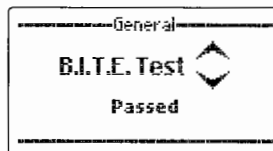
press the ENTER key to repeat the test or press the Clear key to finish.

Note:- The Audio and Signal strength mutes must not be selected when running the B.I.T.E. test or it may fail.

Option installation

```
┌─────────General─────────┐
│                      ╱╲  │
│ Option Installation  ╲╱  │
│                          │
│   No Options Enabled     │
│                          │
└──────────────────────────┘
```
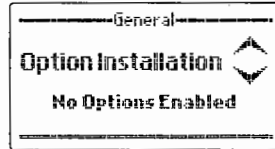
Options are installed in the Barrett 2050 transceiver by entering a PIN number supplied by the manufacturer. This PIN number is related to the electronic serial number of the transceiver. A different PIN number is provided depending on the option or combination of options required to be fitted. Most options are fitted in the factory before dispatch.

press the ⟨ENTER⟩ key

```
┌──────Install Option──────┐
│                          │
│     Enter Option Key     │
│                          │
│     ▪_____           │
│                          │
└──────────────────────────┘
```

Enter the option PIN number supplied by the manufacturer using the numeric keypad by the manufacturer then press the ⟨ENTER⟩ key

For example if the PIN number supplied is for all eight options, after entering the PIN number the following is displayed:-

```
┌─────Transceiver Pin─────┐
│  Option Pin Accepted     │
│  Option levels unlocked: │
│    1,2,3,4,5,6,7,8        │
└──────────────────────────┘
```

If an incorrect PIN number is entered the following is displayed:-

```
┌─────Transceiver Pin─────┐
│                          │
│      Pin Denied          │
│                          │
│                          │
└──────────────────────────┘
```
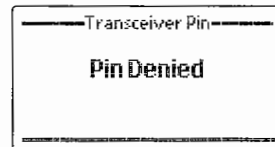
Hopping PIN number entry

```
----------Protected----------       -----------General-----------
            ⌃                                        ⌃
                                    Hopping Pin  ◇
        General                                      ⌄
            ⌄
                                         ********
```

Using the numeric keypad enter an 8 digit hopping security code.

```
------------Hopping Pin-----------

    Enter Hopping Pin

        ▓ _ _ _ _ _ _
```

then press the ⟨ENTER⟩ key

```
-----Frequency Hopping Pin-----

    Pin
    Accepted   ☑
```
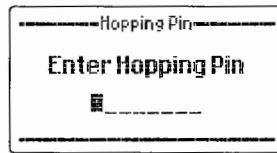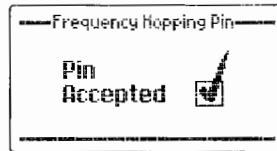
Note:- Refer to the "Frequency Hopping" section of this manual for details of PIN entry and Frequency Hopping in general

Secure Call Code

```
----------Protected---------      ---------General---------
                                                        ⌃
        ⌃                         SecureCall Code   ⌄
     General
        ⌄                                 ****
```
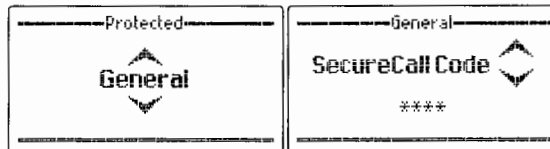
When using the person to person voice scrambler both stations require the same scrambler code to be entered:-

```
---------SecureCall Code---------

Enter SecureCall Code

        ▋---
```

Using the numeric key pad enter a four digit number:-

```
---------SecureCall Code---------

Enter SecureCall Code

        1234▋
```

then press the ⧫ENTER⧫ key

```
---------SecureCall Code---------

Code              ✓
Programmed    ☑
```

Upload Pack
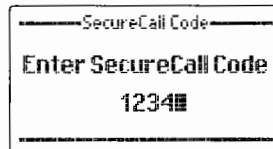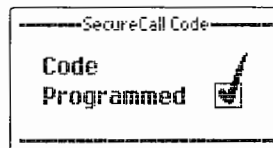
```
┌─────────Protected─────────┐  ┌─────────General─────────┐
│            ⌃             │  │                  ⌃      │
│        General           │  │   Upload Pack    ◇      │
│            ⌄             │  │                  ⌄      │
│                          │  │                         │
└──────────────────────────┘  └─────────────────────────┘
```
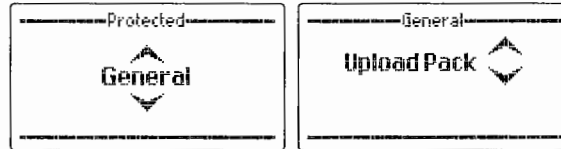
See section "Cloning (programming) from another transceiver"

Scan tables

Adding channels to a scan table

```
┌─────Protected─────┐  ┌─────Scan Tables─────┐
│        ⌃          │  │              ⌃       │
│   Scan Tables     │  │  Scan Table 1 ⌄      │
│        ⌄          │  │              Empty   │
└───────────────────┘  └─────────────────────┘
```

```
┌──────Scan Table 1──────┐
│           ⌃            │
│       Add Entry        │
│           ⌄            │
│                        │
└────────────────────────┘
```

Use the **Scroll keys** to select the channel you wish to add:-

```
┌──────Scan Table 1──────┐
│ Channel: 0003 ⌵ Entry: 01 │
│ Frequency: 3000.0 kHz  │
│ Label: Public          │
│   Select Channel to Scan │
└────────────────────────┘
```
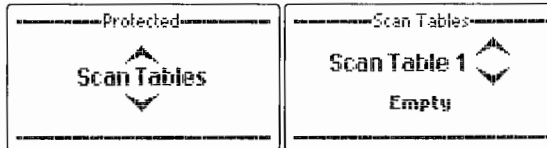
When the channel required is displayed press the ⟨ENTER⟩ key

```
┌──────Scan Table 1──────┐
│                        │
│     New                │
│     Entry      ☑       │
│                        │
└────────────────────────┘
```
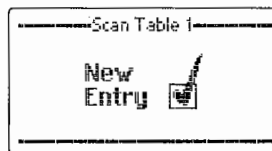
Editing channels in a Scan table

```
-------Protected-------        -------Scan Tables-------
                                          ⌃
       ⌃                        Scan Table 1 ⬍
   Scan Tables                             
       ⌄                           02 Entries
```

```
---------Scan Table 1---------
              ⌃
       Search Entries
              ⌄

```

```
---------Scan Table 1---------
Channel: 0003    Entry:▒▒⬍
Frequency: 3000.0 kHz
Label: Public

  Enter to Edit Scan Table Entry
```

Either   Use the **Scroll keys** to select the channel you wish to edit:-

```
---------Scan Table 1---------
Channel: 0005    Entry:▒▒⬍
Frequency: 5000.0 kHz
Label: Public

  Enter to Edit Scan Table Entry
```
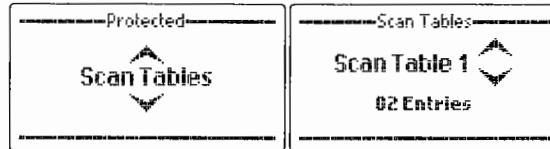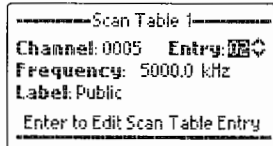
Or   Select the channel you wish to edit by entering the channel
                    number (example channel 1):-

```
---------Scan Table 1---------
Channel: 0005    Entry: 1▒
Frequency: 5000.0 kHz
Label: Public

  Enter to Edit Scan Table Entry
```

then press the ⟨ENTER⟩ key

```
—————Scan Table 1—————
Channel: 0003    Entry: 01◊
Frequency: 3000.0 kHz
Label: Public
  Enter to Edit Scan Table Entry
```
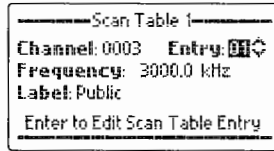
Then press the ENTER key to edit the channel number
Use the **Scroll keys** to select the new channel for the scan table
slot:-

```
—————Scan Table 1—————
Channel: 0003◊ Entry: 01
Frequency: 3000.0 kHz
Label: Public
     Select Channel to Scan
```

press the ENTER key to enter the new setting:-

```
—————Scan Table 1—————

      Entry
      Edited
```

Erasing entries in a scan table

Select the scan table and channel slot you want to remove using
the steps above:-

```
—————Scan Table 1—————
Channel: 0003    Entry: 01◊
Frequency: 3000.0 kHz
Label: Public
  Enter to Edit Scan Table Entry
```

when the entry you wish to erase is selected press the Clear key
until the following is displayed:-

```
—————Erase Entry—————

Are you sure you want to erase
entry 01 (Channel 0003)?
No◊
```

Use the **Scroll keys** to select "Yes" when you are sure you want to erase the entry:-

```
----------Erase Entry----------
Are you sure you want to erase
entry 01 (Channel 0003)?
Yes
```

then press the ENTER key

```
----------Scan Table 1----------
Entry
Erased
```
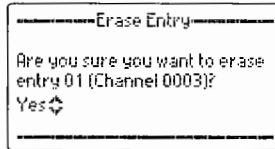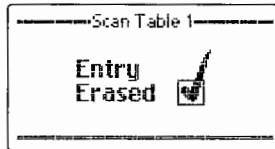
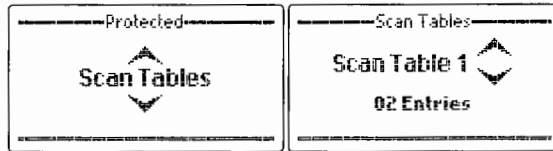**Note:-** All channels are displayed in numerical order within the scan table with respect to the entry number, there are a maximum of 30 entries in each table.

Changing Scan table labels

```
-----------Protected-----------        -----------Scan Tables-----------
              ▲                          Scan Table 1  ◇
       Scan Tables                                     
              ▼                          02 Entries
```

```
-----------Scan Table 1-----------
              ▲
        Change Label
              ▼
```

press the ⟨ENTER⟩ key

```
-------New Scan Table Label-------

        Scan Table 1▮
```
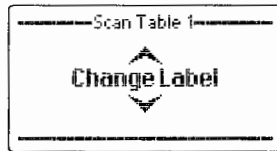
Use the ⌷Clear⌷ key to clear the old label:-

```
-------New Scan Table Label-------

        ▮

              Uppercase Mode
```
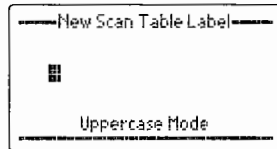
using the alpha/numeric keypad enter the new label:-

```
-------New Scan Table Label-------

        4WD Network▮
```

then press the ⟨ENTER⟩ key

```
------- 4WD Network -----------

Entry       ✓
Updated  ☑
_____
```

Scan settings

Scan Rate

```
-------Protected-------          -------Scan Settings-------
                                         ⌃
      Scan Settings                Scan Rate ◇
          ⌄                            ⌄
                                      300ms
```

```
-------Scan Rate-------
          ⌃
        300ms
          ⌄
```
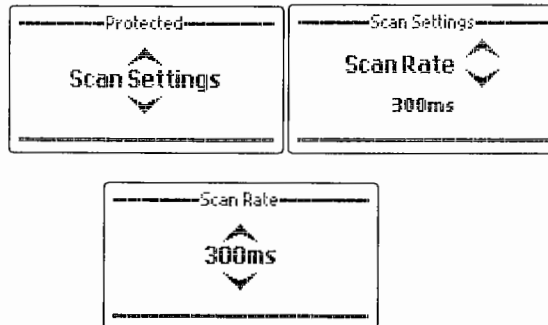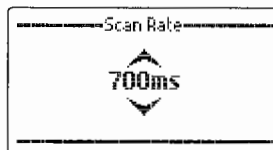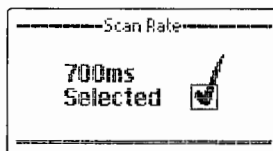
Selects the scan rate applicable to non-selcall scan channels, selectable between 300mS and 5 seconds per channel.

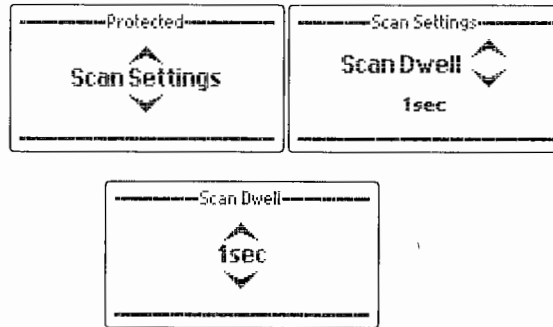Use the **Scroll keys** to select the scan resume time required (example 700mS):-

```
-------Scan Rate-------
          ⌃
        700ms
          ⌄
```

When the setting required is selected press the ◁ENTER▷ key

```
-------Scan Rate-------
     700ms      ✓
     Selected
```

Scan Dwell

```
┌──────Protected──────┐   ┌──────Scan Settings──────┐
│          ▲          │   │                 ▲       │
│    Scan Settings    │   │    Scan Dwell   ◇       │
│          ▼          │   │                 ▼       │
│                     │   │        1sec             │
└─────────────────────┘   └─────────────────────────┘
```

```
┌──────Scan Dwell──────┐
│          ▲           │
│        1sec          │
│          ▼           │
└──────────────────────┘
```

Selects the length of time the transceiver dwells(waits) on a channel after scan has been stopped by signal strength level (if signal strength level mute is set) or voice activity (if audio mute is set). The dwell time can be set from 1 to 10 seconds.

Use the **Scroll keys** to select the scan dwell time required (example 5 seconds):-

```
┌──────Scan Dwell──────┐
│          ▲           │
│        5secs         │
│          ▼           │
└──────────────────────┘
```

When the setting required is selected press the ⟨ENTER⟩ key

```
┌──────Scan Dwell──────┐
│                      │
│   5secs       ✓      │
│   Selected    ☑      │
│                      │
└──────────────────────┘
```

Scan Resume Time

```
-------Protected-------      -------Scan Settings-------
                                                    ⌃
         ⌃                   Scan Resume Time    ⌄
   Scan Settings
         ⌄                            Off
```
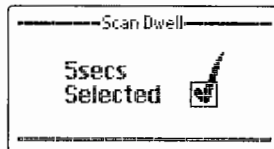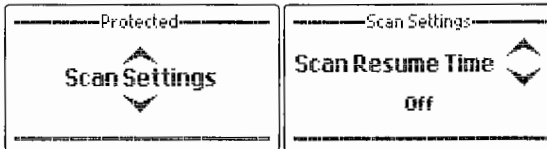
This section sets the time period after which the Barrett 2050 transceiver will automatically resume scanning from the last operation i.e. key press or PTT. The scan resume time period can be set between 1 and 30 minutes or it can be disabled.
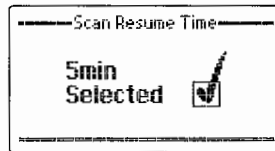
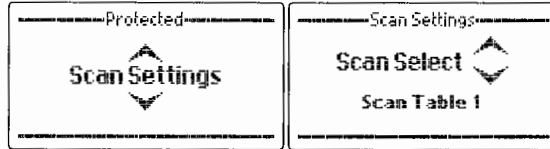Use the **Scroll keys** to select the scan resume time required (example 5 minutes):-

```
--------Scan Resume Time--------

              ⌃
            5min
              ⌄
```

When the setting required is selected press the ENTER key

```
--------Scan Resume Time--------

         5min
         Selected    ✓
```

Scan table select

This section selects the Scan table to be used when the transceiver is put in scan, or if enabled, when scan resume occurs.
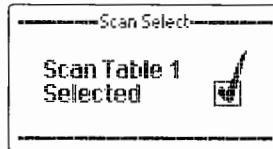There are 8 scan tables.

Note:- When scrolling through the scan tables, before selection, only those with channels entered will be displayed.

Note:- Channels can be added, removed and edited and scan tables named in the "**Scan table**" section.
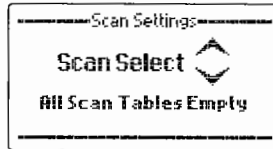
Use the **Scroll keys** to select the scan table required (example scan table 1):-


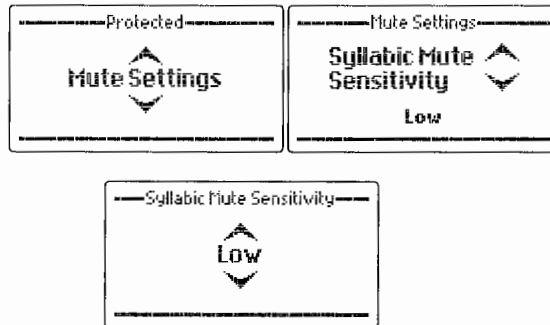When the scan table required is displayed press the key

If none of the Scan tables have any channel entries the following is displayed:-

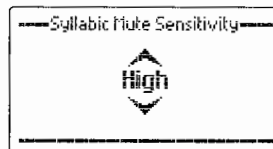**Note:-** Direct entry into this section is available by pressing the ⌜Scan wxyz 9⌝ key for **more than two seconds.**

Mute Settings

Syllabic Mute Sensitivity

```
┌─────────────────────┐ ┌─────────────────────┐
│ ──────Protected───── │ │ ─────Mute Settings── │
│          ⌃          │ │ Syllabic Mute  ⌃    │
│    Mute Settings    │ │ Sensitivity    ⌄    │
│          ⌄          │ │          Low        │
└─────────────────────┘ └─────────────────────┘
```

```
┌─────────────────────────┐
│ ──Syllabic Mute Sensitivity── │
│            ⌃            │
│           Low           │
│            ⌄            │
│                         │
└─────────────────────────┘
```

The sensitivity or "hardness of the syllabic mute (squelch) is set by this section. The mute can be set between low, medium and high sensitivity to voice activity on a channel.

Use the **Scroll keys** to select the setting required (example High):-

```
┌─────────────────────────┐
│ ──Syllabic Mute Sensitivity── │
│            ⌃            │
│           High          │
│            ⌄            │
│                         │
└─────────────────────────┘
```

When the setting required is selected press the ⎍ENTER⎍ key

```
┌─────────────────────────┐
│ ──Syllabic Mute Sensitivity── │
│                         │
│    High                 │
│    Selected     ✔       │
│                         │
└─────────────────────────┘
```