



## Operating Instructions

UHF180F 80 Channel UHF CB Radio



## **Need Help?**

If you need assistance setting up or using your Oricom product now or in the future, call Oricom Support.

Australia      1300 889 785 or (02) 4574 8888  
[www.oricom.com.au](http://www.oricom.com.au)  
Mon-Fri 8am – 6pm AEST

New Zealand    0800 67 42 66  
[www.oricom.co.nz](http://www.oricom.co.nz)  
Mon-Fri 10am – 8pm NZST

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#### **Why has the ACMA increased the number of available UHF CB channels?**

To provide additional channel capacity within the UHF CB Band the ACMA will over the next 5 years change the majority of the current wideband 40 channel use to narrowband 80 channel use.

During this time wideband channel use will be gradually phased out as users upgrade their existing radio's.

This means that the new Oricom narrowband radio you have purchased will have more channels than older wideband radios. Some of these channels are locked and cannot be used, (see the attached channel chart for more information).

#### **When will this take place?**

Early in 2011 new AS/NZS Standards came into effect allowing operators to use additional narrowband channels and also use narrowband transmissions on some current wideband channels. This increased the number of channels up to 80, 75 of which are useable voice channels.

#### **What issues may users experience during the transition phase?**

When a new narrowband radio receives a transmission from an older wideband radio the speech may sound loud and distorted – simply adjust your radio volume for the best listening performance. When an older wideband radio receives a signal from a new narrowband radio the speech may sound quieter - simply adjust your radio volume for best listening performance. When operating a narrowband radio or Channel 41 - 80 interference is possible from wideband radios transmitting on high power or on adjacent frequency.

The issues described above **are not a fault of the radio** but a consequence of mixed use of wideband and narrowband radios.

It is expected that as older wideband radios are removed from service that this issue will be resolved. Most radios in use will be narrowband eliminating this issue.

**This information is current at time of printing. For further up to date information please visit [www.acma.gov.au](http://www.acma.gov.au)**

**Oricom Connecting you now.**



This unit complies with all relevant Australian and New Zealand approval requirements  
AS/NZS 4365:2011

# Please read before installing or operating Your Oricom Radio

The operation of your UHF radio in Australia and New Zealand is subject to conditions in the following licenses:

In Australia the ACMA Radio communications (Citizen Band Radio Stations) and in New Zealand by MED the General User Radio License for Citizen Band Radio.

## Safety Information and Warnings



**WARNING**

### **Potentially Explosive Atmospheres**

Turn your radio OFF when in any area with a potentially explosive atmosphere. Sparks in such areas could cause an explosion or fire resulting in injury or even death.

**NOTE:** Areas with potentially explosive atmospheres are often, but not always clearly marked. They include fueling areas such as below deck on boats; fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

### **Blasting Caps and Areas**

To avoid possible interference with blasting operations, turn your radio OFF near electrical blasting caps or in a “blasting area” or in areas posted: “Turn off two way radios.” Obey all signs and instructions.

### **Electromagnetic Interference/Compatibility**

Nearly every electronic device is susceptible to electromagnetic interference (EMI). To avoid the possibility of electromagnetic interference and/or compatibility conflicts, turn off your radio in any location where posted notices instruct you to do so such as health care facilities.

## Box Contents

### UHF180F

1 x RF Radio

1 x Microphone Hanger

1 x Standard Microphone

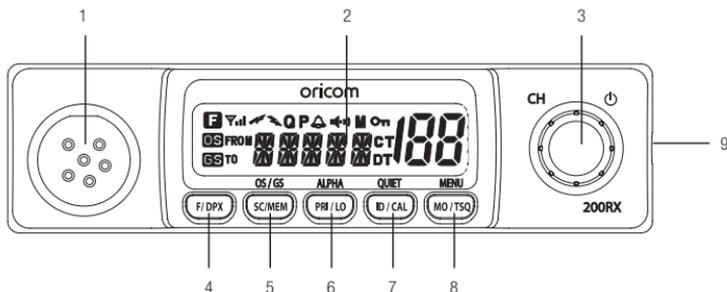
1 x User Guide

1 x DC Power Cord with inline fuse

1 x Mounting bracket with mounting screws for RF Radio



### Front View

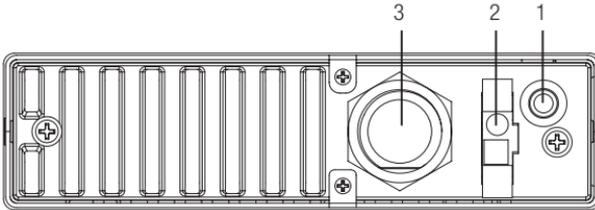


1. Microphone connector
2. LCD Display
3. Power On/Off, channel & Volume control
4. Function button by short push & Duplex On/Off by long push I1
5. Open Scan, Memory On/Off, Priority scan, I2
6. Priority Channel On/Off, Key Lock On/Off, Alpha-numeric display I3
7. ID setting, 5 tone SelCall, Quiet, I4
8. Monitor, TSQ On/Off, Menu, I5
9. External speaker Jack (3.5mm for optional 8 ohm speaker)

## Rear View

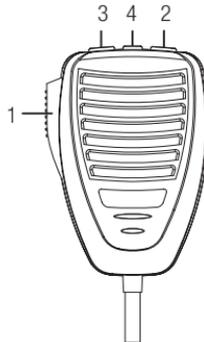
### Rear view of Radio

1. 3.5mm external jack for optional 8 ohm speaker
2. Power Supply connection
3. Antenna connection

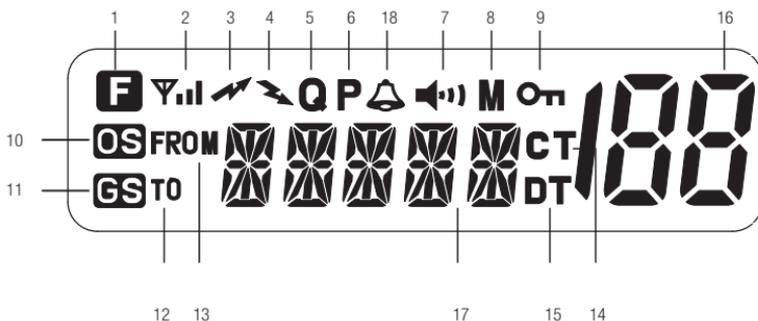


### Standard Microphone

1. Push To Talk (PTT) button
2. Volume **Up**, Channel **Up**
3. Volume **Down**, Channel **Down**
4. Power On/off, Volume and channel selector



## LCD Icons & Indicators



- |                             |                                     |
|-----------------------------|-------------------------------------|
| 1. FUNCTION                 | 10. Open Scan                       |
| 2. RX or TX Signal strength | 11. Priority Scan                   |
| 3. Transmitter Indicator    | 12. Selective call Sending "To"     |
| 4. Receiver Indicator       | 13. Selective call Receiving "From" |
| 5. Quiet mode               | 14. 38 CTCSS Tone On/Off            |
| 6. Priority On/Off          | 15. DCS On/Off                      |
| 7. Monitor On/Off           | 16. Channel number                  |
| 8. Memory On/Off            | 17. ALPHA/NUMERIC                   |
| 9. Key Lock                 | 18. Call Alarm                      |

## INSTALLATION

### CAUTION

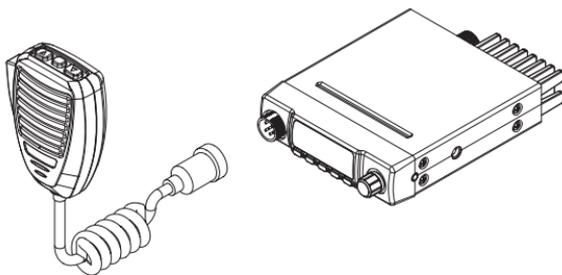
When installing your radio in your vehicle, check that during installation you do not damage any wiring or vehicle components that may be hidden around the mounting position.

For optimum performance your radio needs to be installed correctly. If you are unsure about how to install your radio, we suggest you have your radio professionally installed by a UHF specialist or Auto electrician. When installing the radio, avoid mounting it close to heaters or air conditioners. **Never press the PTT or CALL button before connecting the antenna to the radio.**

Screw the mounting bracket to a firm surface.

### To install the Radio:

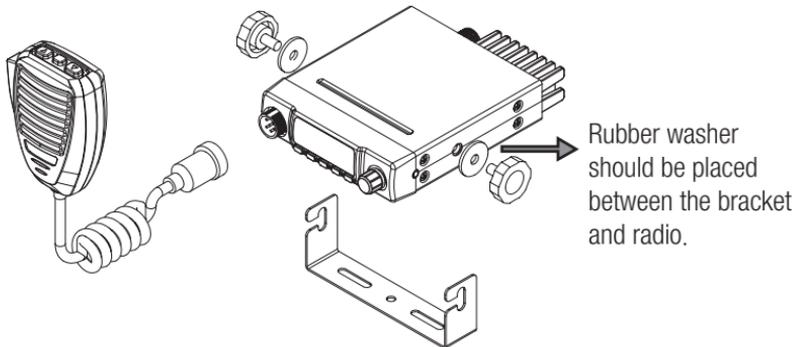
1. Fix the radio bracket in a suitable location.
2. Then fix the radio in the bracket using the thumb screws.



## Installation

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1. Fix the mounting bracket in place by screwing through the slots in the bracket.
2. Connect the standard microphone to the socket, and tighten up the thumb screw.



### **DC Power Connection**

The Radio is designed for 13.8 Volt DC, negative earth installations only (i.e. where the negative battery terminal connects to the chassis of the vehicle).

For installation on 24 volt systems an inverter (not supplied) will need to be used.

### **Over voltage protection**

The radio has a high voltage input detection system, to warn you if an overvoltage situation occurs.

Eg.: If the power supply voltage exceeds 17volts DC, the channel display (LCD backlight) will flash in 3 different colours when the unit is turned on.

In addition, when transmitting, the TX indicator will automatically select a low power output.

If the overvoltage warning appears, you must switch your radio off and disconnect it from the power source, before locating the cause of the trouble. The power source must not exceed 30volts.

### Wiring Methods

There are two possible wiring configurations for connecting to the Vehicles power supply.

#### **A. Radio stays ON when the ignition is switched OFF**

Connect the radio's negative (black) lead to the vehicle chassis, or directly to the batteries negative terminal.

Connect the radio's positive (red) lead via the 2 Amp fuse to the battery's positive terminal. Alternatively, the positive lead could be connected at the fuse box at a point that has +13.8 Volts continuously available (preferably the battery side of the ignition switch) via the 2 Amp fuse.

#### **B. Radio turns OFF with the ignition switch**

Connect the radio's negative (black) lead to the vehicle's chassis, or directly to the batteries negative terminal.

The radio's positive (red) lead should connect to an accessory point in the vehicle's fuse box via the 2 Amp fuse.

### Antenna information

The antenna (not supplied) is of critical importance, to maximize your output power and receiver sensitivity.

A poorly installed, inferior quality antenna or one not designed for the correct frequency band will give poor performance. You should only purchase an antenna designed for the 477MHz frequency band.

## Antenna installation

1. Connect the antenna to the rear antenna socket using a PL259 coaxial connector (not supplied).
2. To obtain maximum performance from the radio, select a high quality antenna and mount it in a good location. **Never press the PTT or CALL button before connecting the antenna to the radio.**

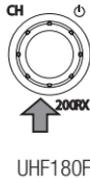
### Optional accessories

If required you may install an external (8 ohm, max 5w power) speaker fitted with a 3.5mm plug (not supplied).

There is a jack located on the rear of the radio and on the UHF180F.

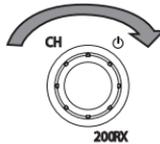
## Power on and off

- \* Press and hold the **PWR** button on the front panel.
- \* The default channel is set at CH01.



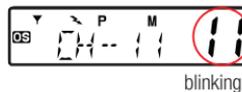
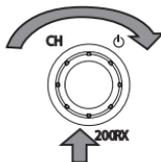
## Volume control

- \* The UHF180F has a rotary electric volume control. Adjust the volume by rotating the channel knob clock-wise or adjust the volume control by pressing the **Volume Up** or **Volume Down** buttons on the microphone.



## Channel Selection

- \* Briefly press the **PWR** button. Select the channel by rotating the channel knob clock wise or adjust the channel selection by pressing the **Channel Up** or **Channel Down** buttons on the microphone from 1 to 80.



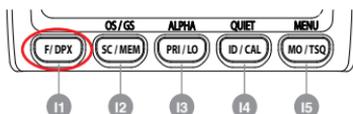
## Multi Function buttons

To use the primary function (**F, SC, PRI, ID, MO**), press the required button.

To use the secondary function (**DPX, MEM, LO, CAL, TSQ**), press and hold the button for 2 seconds.

To use the third function (**OS/GS, ALPHA, QUIET, MENU**), press **F/DPX** and press the required button.

To use the fourth function (**F/DPX to MO/TSQ**), press the on/off button briefly 2 times and then select the instant channel required using the I1 to I5 buttons.



## Transmitting

NOTE: Before transmitting on any channel, listen to check the channel is not already in use.

### Transmitting

Select the desired channel. Press the PTT button on the microphone and speak normally into the microphone. Hold it approx. 7cm from your mouth. Release the PTT button to end the transmission and listen for a reply.

### Transmitting range

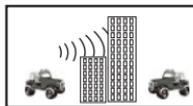
The talk range depends on the environment and terrain, it will be affected by concrete structures and heavy foliage.



Optimal Range  
Outdoors Flat, open  
areas



Medium Range  
Outdoors Buildings  
or trees Also near  
residential buildings



Minimal Range Outdoors  
Dense foliage or  
mountains. Also inside  
some buildings

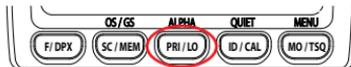
## Priority Channel

To store a Priority Channel, press the **PRI/LO** button. The letter "P" will appear when the priority channel is set. The channel you selected as your Priority Channel will then be automatically monitored during the Group Scan.

Note: You can only store one channel as your priority channel.

### To store a Priority Channel

1. Select the required channel.
2. Briefly press and hold the **PRI/LO** button a loud beep is heard. The letter "P" appears when the priority channel is set.



## CTCSS

### CTCSS (Continuous Tone Coded Squelch System)

CTCSS uses a sub-audible tone to open and close the squelch on your radio. This will allow a number of users to share the same channel without disturbing one another.



### Monitoring the Channel

Monitoring the channel is helpful as it allows you to listen for other CTCSS users not within your group.

### To monitor the channel

Press the **MO/TSQ** button. If no signals are present, a hissing noise will indicate an empty channel.

Press the **MO/TSQ** button again to restore to its previous setting.

### Selecting the Required CTCSS Tone

To pre-select the CTCSS tone on your radio, please refer to the MENU settings on page 24.

### Enabling CTCSS on a Channel

CTCSS when enabled is on all channels excluding channels 5 and 35.

1. Rotate the Channel knob to select the required channel. The letters "CT" will appear.
2. Press and hold the **MO/TSQ** button.



You may activate CTCSS on as many channels as you wish except channel 5 and 35 which are designated for emergency use.

### Disabling CTCSS on a Channel

Repeat steps 1 and 2 above.

**Note:** You will not be able to activate CTCSS if the CTCSS tone is set to 'OFF'.

## SCANNING

The radio SCAN function has the ability to allow programmable channels to be scanned for groups of users.

Channels can be scanned (40 channels per 5 seconds). When a signal is found, scanning will stop at that channel to allow the signal to be heard, then resume scanning when the channel is clear again.

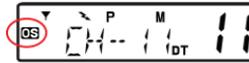
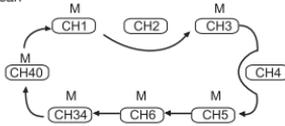
### Scan Groups

The Radio features three scan modes - Open Scan, Priority Scan and Instant Channel Scan.

### Open Scan

The Open Scan feature scans for activity on all CB channels. Once a channel is located, scanning will pause then will allow the signal to be heard. As soon as the channel is clear for 5 seconds, scanning will continue automatically.

Open Scan

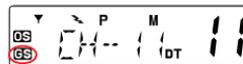
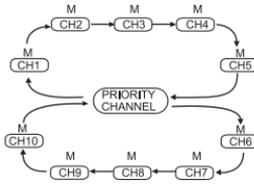


## Priority Scan

With Scan the Radio scans for activity, but in addition, it also inserts your Priority Channel into the scan sequence.

This means that your Priority Channel will be monitored regularly while scanning to ensure that no calls are missed. Any signals received on your Priority Channel will take precedence over any signals received on the other channels.

GROUP OR PRIORITY SCAN



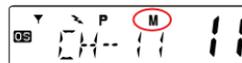
Allows you to monitor a Priority Channel while scanning other channels in the GS memory.

## Instant Channel Scan

During Open Scan press and hold **SC/MEM** button to start Instant Scan, only the channels programmed in the instant channel buttons with 'M' set will be scanned. To stop scan press the **SC/MEM** button or Push PTT.

## Memory On/Off

Push and hold the **SC/MEM** button for 2 seconds, "M" will appear above the selected channel. Press **SC/MEM** button to remove scan memory from the selected open scan mode.



## Instant Memory

To save a channel to Instant memory location Select the channel to be saved include any CTCSS or DCS settings. Briefly press the power button 2 times then press and hold the required 'I' button. The buttons have been preprogrammed with the following I1 CH1, I2 CH12, I3 CH5, I4 CH20, I5 CH40.

## Selcall

Selcall or Selective Calling is a function that allows you to selectively call another radio, using a unique ID number. Your radio has 10 programmable Selcall ID memories. The ID memories are displayed as "C0 to C9". Here you will program Selcall ID numbers of other radios.

Your Radio's Selcall Identification number is preset at "12345". **You must change this number to your own unique five digit Selcall ID number.**

## Selcall Identification Name

In addition to the Selcall ID number, each Selcall ID can be named using a 5 character ALPHA name. The ALPHA name is stored in memory along with the ID code. When an incoming Selcall is received and the Selcall matches one of those in your radio's memory. The name can be displayed instead of the Selcall ID number.

## Recalling Selcall Idents from Memory

1. Press the **ID/CAL** button to select the **CALL TO** mode.
2. To select the required Identity in memory locations 'C0' to 'C9'. Rotate the channel knob on the front display of the UHF180F.
3. When the required Selcall Memory is displayed, press and hold the **ID/CAL** button to send TO.



## Displaying ALPHA Names

To display the Selcall's ALPHA Name You must have the radio's ALPHA display mode selected.

To select the ALPHA display mode briefly press the **F/DPX** button followed by the ALPHA button. 'ALPHA' or 'NUMER' will be displayed for 2 seconds below the channel display to indicate the selected mode.

## Entering, Editing and Storing a Selcall Name or ID number

1. Briefly press the **ID/CAL** button. The **CALL TO** mode will be selected and the last-sent Selcall memory location will be displayed.
2. Rotate the Channel knob to select the required Selcall memory (locations C0 to C9). If no ALPHA name or ID number has been programmed for that memory, the radio will display '- - - -' otherwise it will display the last ALPHA name or NUMERIC code programmed into that memory.
3. With the required memory location displayed, enter the required ALPHA name or NUMERIC code as follows:
  - (a) Press and hold the **F/DPX** button until the radio beeps. The right hand character will flash. Rotate the Channel knob to select the required letter or number in the flashing character position.



The following characters are available:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z, 0 1 2 3 4 5 6 7 8 9 \_ \* -

- (b) Briefly press the **F/DPX** button again to select the next character position.
- (c) Repeat steps (a) and (b) to enter all 5 characters as required.
- (d) Now press and hold the **F/DPX** button for 2 seconds. Then the radio will beep when the name or number is stored.

Repeat the procedure to add ALPHA names or numbers to any other Selcall Idents stored in memory.

## To exit CAL-TO mode

Briefly press the **ID/CAL** button. The radio will return to normal operation.

## Receiving Selcalls

When the Radio receives an ID code that matches your Selcall ID, it will automatically transmit an alarm tone. The caller's Selcall ID name or number will be displayed.

## To return the call

Press **F/DPX** and hold the **ID/CAL** button for 2 seconds until the radio beeps. The callers Selcall Identity will be sent to the caller.

## Cancelling the Selcall Alert

To cancel the alarm and talk on the channel, press the PTT button. The alarm will be cancelled and the channel will be open for normal communication.

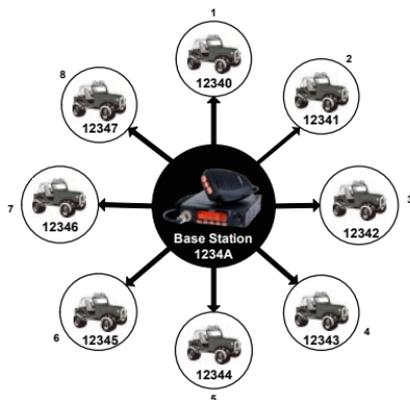
## Group Calling

The Group Calling function allows you to transmit an "ALERT" tone to all members of a group at the same time.

To setup Group Calling you must arrange your group ID codes in a certain format.

Example:

If one group consists of 8 vehicles the Group ID codes are arranged as follows:



To call the group, program the Base radio Group ID code to 1234A. When you call the group, all of the above vehicles will receive the Group Calling Tone. Group call IDs can be stored in memory the same way as a Standard Selcall ID code, please refer to Entering, Editing and Storing a Selcall ID number at page 20.

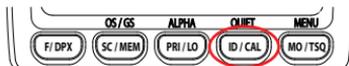
10 Radios		100 Radios	
Group ID	Individual ID	Group ID	Individual ID
1234	0	123	00'
1234	1	123	01'
1234	2	123	02'
1234	3	123	03'
UP TO		UP TO	
1234	9	123	99'

## QUIET Mode (Q)

Puts the receiver in the Q mode. When activated, the radio prevents any unwanted conversations in the channels from being heard unless the call is specifically directed to you and the Selective call ID required to open the Q mode condition has been received.

Under this condition, the PTT button is temporarily disabled.

If you wish to use the same Channel for normal communication, simply remove the Channel from Q mode.



### Setting up QUIET Mode

To setup QUIET mode you must first 'tag' the channels that you want to stay quiet, then activate the QUIET mode. Once QUIET mode is activated, the channels you have tagged will remain quiet to all incoming signals unless your Selcall Ident is received. Channels not tagged will remain open to all signals and will operate normally.

- 1) Select the channel you want to put in "Q" mode using the channel selector.
- 2) Briefly press **F/DPX** and then Quiet button. A beep is heard and the Q icon appears on the LCD display.



- 3) While in Q mode condition, when the radio receives a code matching your ID, it will perform the following operations.
  - Automatically responds to the caller by transmitting Acknowledge tones.
  - Informs you that a caller is on the channel by emitting CALL Alarm and displays FROM icon.

### Menu FUNCTIONS

The MENU feature provides a convenient method of customizing some of the radio's functions. The following Menu Options are available. Note that some items are only available on certain channels.

#### To access the Menu functions

1. Briefly press the **F/DPX** button, then the MENU button. The first Menu function is displayed.
2. Briefly press the **SC/MEM** button to cycle through each available function. After the last function has been selected, the cycle returns to the beginning.
3. Rotate the Channel knob to alter the parameters of the selected function.
4. Briefly press **F/DPX** button and then press Menu button to exit and store any changes.

**Third functions MENU list**

\* Use the channel knob to change the value of each setting.

\* Use the Scan button to select the next function.

\* If a button is not pressed within 8 seconds the Radio will automatically exit the menu mode.

\* Please see below menu modes.

Control	Functions	STEP	Display	Default
MENU	SQ Level adjust	off 7		3
	OFF, CTCSS, DCS	CTCSS 38 tone DCS 104ch		67Hz
	Back Light by 3 COLOUR	1. Amber 2. Red 3. Green OFF		1
	KEY BEEP ON/ OFF	On Off		ON
MENU	Busy channel lock	On Off		OFF
	SCAN stop time control	5 sec 10 sec 15 sec P5		P5
	Roger beep	On Off		ON
	Auto power off	Off 1 2 4		OFF

### **SQL:**

The radio has 8 preset ( off - 7) squelch levels:

off - SQ off (monitor on condition)

1 - Max sensitivity (min squelch)

7 - min sensitivity (max/tight squelch)

### **CTCSS and DCS setting**

This feature allows you to receive signals only from callers who have selected the same CTCSS and DCS code.

DCS is similar to CTCSS. It provides 104 extra, digitally coded, squelch codes that follow after the 38 CTCSS codes. CTCSS 1-38, followed by DCS 1-104.

### **Back light 3 Colour**

You can select from three colour options for the LCD backlight.

The three options are Amber, Red and Green.

### **Key Beep On/Off**

The beep tone emits a tone when you press any of the buttons on the Microphone (except PTT switch).

### **TOT (Time Out Timer)**

Australian and New Zealand standards require that if the PTT is pressed for more than 3 minutes the unit must stop transmitting. The radio is set to stop transmitting after 2 minutes and 30 seconds of continuous transmission. "TOT - On" will appear in the display and beep sound to indicate that the TOT is activated.

### **Scan stop control**

The scan resume time can be set as an optional pause of 5 (default), 10 of 15 seconds.

### **Roger Beep**

This function emits a beep to inform the other listening stations that your transmission has finished.

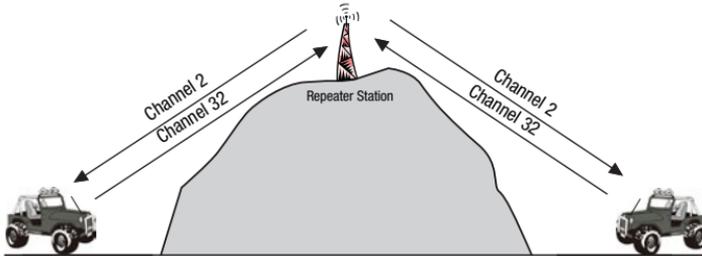
### **Auto power off**

This feature allows the radio to be connected directly to the battery of a vehicle and when enabled will automatically turn the radio off, if it has not been used for a preset period of time 1, 2 or 4 hours. The main purpose of this feature is if the radio is inadvertently left on when directly connected to the battery it automatically turns the radio off to prevent the battery from being discharged.

## Duplex Operation

### General

Your radio has a Repeater Access function to allow use of local Repeater stations (if available in your area). Repeaters are shared radio system installed by interested parties (clubs, local business etc.) that pick transmissions on specific channels and re-transmit (or repeat) the received signal to another channel.



The Repeater Access function can be set (from channel 1 to 8 and 41 to 48) used by local repeater stations. When activated, your radio will receive the Repeater on its specific channel (all repeater outputs are on channel 1 to 8 and 41 to 48) but transmits to the repeater channel 31 through 38 and 71 through 78.

e.g.

CH01 on Duplex mode will receive on CH01 but transmit on CH31

CH02 on Duplex mode will receive on CH01 but transmit on CH32.

CH and Number	Simplex mode Transmit/reciever Frequency (MHz)	Duplex Mode transmit Frequency(MHz)
1	476.425	477.175 CH31
2	476.450	477.200 CH32
3	476.475	477.225 CH33
4	476.500	477.250 CH34
5	476.525	477.275 CH35
6	476.550	477.300 CH36
7	476.575	477.325 CH37
8	476.600	477.350 CH38

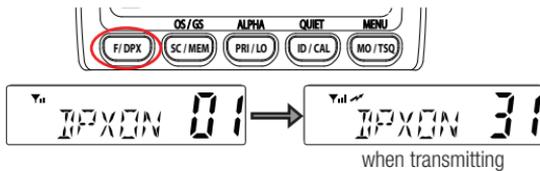
41	476.4375	477.1875 CH71
42	476.4625	477.2125 CH72
43	476.4875	477.2375 CH73
44	476.5125	477.2625 CH74
45	467.5375	477.2875 CH75
46	476.5625	477.3125 CH76
47	476.5875	477.3375 CH77
48	476.6125	477.3625 CH78

If you transmit on CH01 duplex mode, you are actually transmitting on CH31 the repeater station down converts your signal and retransmits on CH01.

Your UHF180F allows you to pre-select Duplex operation individually on each channel.

Push and hold the **F/DPX** button for 2 seconds, "DPXON" should appear on the LCD.

Push **F/DPX** button to toggle the Duplex function On and Off.



### Key Lock

Push and hold the **PRI/LO** button for 2 seconds to lock all buttons except for the buttons below.

(volume up and down, Power On/Off, Monitor, **F/DPX**, Push to talk ).



### 200 Receive (RX) only Channels

#### Manual Programming

The UHF Radio has a wideband search feature which will allow you to search Frequencies ranging from 400-512MHz (in 12.5KHz steps). You may search the full range or you may search one of 4 smaller bands separately.

## Operations

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Turn power on.

Briefly press the **F/DPX** button and then the Power button to access frequency band range.

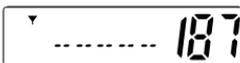
\* Display will show default frequency band range.



Briefly press the power button, the frequency number should be blinking.

\* you may use the rotary channel switch to select which channel you want.

(example;)



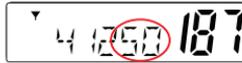
\* Press and hold the **PRI/LO** button for 2 seconds, "400" first digits should be blinking.

\* Rotary channel switch to select which 3 frequency digits you want.

(example;)



- \* press the **PRI/LO** button, next 2 digits will be blinking for the next frequency digits.
- \* Rotary channel switch to select which 2 frequency digits you want.



To store the required frequency, briefly press the **ID/CAL** button.  
Briefly press the **F/DPX** button and Power button to exit.

## Automatic programming

1. Press the PWR button to turn the radio on.
2. Briefly press the **F/DPX** button and then the Power Button.
  - \* The default Band frequency range will be displayed.
3. Briefly press the **SC/MEM** button (OS is displayed).
4. Briefly press the power or channel knob (channel will flash).
5. Turn the power or channel knob until you get to an open frequency.
6. Auto scan will commence in 2 to 3 seconds.
  - \* You will need to repeat steps 4 and 5 until the required frequency has been located.
7. To store the required frequency, briefly press the **ID/CAL** button.
8. To exit; repeat step 2.

## Factory reset

If the radio's display locks up or stops functioning properly, you might need to reset your UHF radio.

Caution: this procedure clears all the information you have stored in your UHF radio. Before you reset your UHF radio, try turning it off and on again. If your UHF radio is still not functioning correctly you may need to reset the UHF radio!

While holding the **F/DPX** button, turn the UHF radio on. INITI AL will be displayed for 1 to 2 seconds, the radio will then return to its original display.



## Channel Frequency Table

### Radiocommunications (Citizen Band Radio Stations) Class Licence 2002

No licence is required to own or operate this radio in Australia and New Zealand. The Radiocommunications (Citizen Band Radio Stations) Class Licence 2002 contains the technical parameters, operating requirements, conditions of licence and relevant standards for Citizen Band (CB) radios. CB radios must comply with the class licence for their use to be authorised under the class licence.

### UHF channels and frequencies

IMPORTANT NOTE: The operation of your UHF radio in Australia and New Zealand is subject to conditions in the following licenses:

In Australia the ACMA Radio communications (Citizen Band Radio Stations) and in New Zealand by MED the General User Radio License for Citizen Band Radio.

Channel		Tx	Rx	Channel		Tx	Rx
		Freq MHz	Freq MHz			Freq MHz	Freq MHz
01*		476.4250	476.4250	21		476.9250	476.9250
	41*	-	476.4375		61‡	—	—
02*		476.4500	476.4500	22†		476.9500	476.9500
	42*	-	476.4625		62‡	—	—
03*		476.4750	476.4750	23†		476.9750	476.9750
	43*	-	476.4875		63‡	—	—
04*		476.5000	476.5000	24		477.0000	477.0000
	44*	-	476.5125		64	477.0125	477.0125
05*		476.5250	476.5250	25		477.0250	477.0250
	45*	-	476.5375		65	477.0375	477.0375
06*		476.5500	476.5500	26		477.0500	477.0500
	46*	-	476.5625		66	477.0625	477.0625
07*		476.5750	476.5750	27		477.0750	477.0750
	47*	-	476.5875		67	477.0875	477.0875
08*		476.6000	476.6000	28		477.1000	477.1000
	48*	-	476.6125		68	477.1125	477.1125
9		476.6250	476.6250	29		477.1250	477.1250
	49	476.6375	476.6375		69	477.1375	477.1375
10		476.6500	476.6500	30		477.1500	477.1500
	50	476.6625	476.6625		70	477.1625	477.1625
11		476.6750	476.6750	31*		477.1750	477.1750

	51	476.6875	476.6875		71*	477.1875	-
12		476.7000	476.7000	32*		477.2000	477.2000
	52	476.7125	476.7125		72*	477.2125	-
13		476.7250	476.7250	33*		477.2250	477.2250
	53	476.7375	476.7375		73*	477.2375	-
14		476.7500	476.7500	34*		477.2500	477.2500
	54	476.7625	476.7625		74*	477.2625	-
15		476.7750	476.7750	35*		477.2750	477.2750
	55	476.7875	476.7875		75*	477.2875	-
16		476.8000	476.8000	36*		477.3000	477.3000
	56	476.8125	476.8125		76*	477.3125	-
17		476.8250	476.8250	37*		477.3250	477.3250
	57	476.8375	476.8375		77*	477.3375	-
18		476.8500	476.8500	38*		477.3500	477.3500
	58	476.8625	476.8625		78*	477.3625	-
19		476.8750	476.8750	39		477.3750	477.3750
	59	476.8875	476.8875		79	477.3875	477.3875
20		476.9000	476.9000	40		477.4000	477.4000
	60	476.9125	476.9125		80	477.4125	477.4125

\* The primary use for these channels is repeater operation using 750 kHz offset.

Channels 1-8 and 41-48 inclusive are used for mobile reception and channels 31-38 and 71-78 for mobile transmission. In addition, any designated repeater channel may be used for simplex operation in areas where it is not used for repeater operation.

† Speech telephony shall be inhibited on these channels.

‡ At the time of production Channels 61, 62 and 63 are guard channels and are not available for use.

Channel 5 and 35 (paired for Duplex repeaters) are reserved as emergency channels and should be used only in an emergency.

CTCSS and DCS will not operate on Channel 5 and 35.

A list of currently authorised channels can be obtained from the ACMA website in Australia and the MED website in New Zealand. Channel 11 is a calling channel generally used to call others and channel 40 is the customary road vehicle channel.

Once contact is established on the calling channel, both stations should move to another unused "SIMPLEX" channel to allow others to use the calling channel.

Channels 22 and 23 are for Telemetry and Telecommand use, voice communications are not allowed on these channels.

Channel 9 and above are the best choices for general use in Simplex mode.

**38 CTCSS CODE LIST**

CODE	Frequency(Hz)	CODE	Frequency(Hz)
OFF	OFF	20	131.8
1	67.0	21	136.5
2	71.9	22	141.3
3	74.4	23	146.2
4	77.0	24	151.4
5	79.7	25	156.7
6	82.5	26	162.2
7	85.4	27	167.9
8	88.5	28	173.8
9	91.5	29	179.9
10	94.8	30	186.2
11	97.4	31	192.8
12	100.0	32	203.5
13	103.5	33	210.7
14	107.2	34	218.1
15	110.9	35	225.7
16	114.8	36	233.6
17	118.8	37	241.8
18	123.0	38	250.3
19	127.3		

## UHF180F Technical Specification

Compliance	AS/NZS 4365:2011
Frequency Range TX	476.425 - 477.4125 MHz
Frequency Range RX	400 - 512MHz
Number of TX/RX Channels	75 UHF CB
Number of user programmable RX only Channels	200
Channel Spacing TX/RX	12.5KHz
Wide Band Scanner	400~512, 400~420, 420~450, 450~470, 470~512mHz
Operating modes	Simplex, Repeater TX offset (+750kHz)
Selcall ID	5 Digit with alpha display
Scanning Speed	130 msec per channel
Antenna Impeadance	50 Ohms
Operating Volts nominal	13.8 VDC
Operating Volts Range	10 to 15 VDC
Over Voltage Protection	Diode and voltage regulator
Over Current Protection	2 Amp fuse
Reverse Polarity Protection	Shunt diode
Frequency Stability	+/- 5ppm
<b>Transmitter</b>	
RF Output Power	Nominal 5watts
Modulation	F3E (FM)
Maximum Deviation	2.5kHz
Spurious Emissions	< -30 dBm
TX Audio pre-emphasis	+ 6dB/octave from 300Hz to 3kHz
Current Consumption during TX	1.6 Amps with 50 Ohm antenna termination
<b>Reciever</b>	
Circuit Type	Dual conversion superheterodyne
IF Frequencies	1st IF = 21.4 MHz , 2nd IF = 450kHz
Current Consumption during RX	200mA
Sensitivity	> -123dBm at 12dB SINAD
Sensitivity Receive only channels	< -110dBm for 12dB SINAD
Selectivity	+/-3.75kHz min @ 3dB to +/-15kHz max @ 40dB

## UHF180F Technical Specification

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Intermodulation Immunity	> 70dB
Spurious Immunity	> 70dB
Audio Output Power	3 Watts Maximum
RX Audio de-emphasis	-6dB/octave 300Hz to 3kHz
Audio frequency response	300Hz to 3kHz
External speaker jacks	Optional 8 Ohm mono speaker (3.5mm jack.)

## **Customer Support**

If you have any problems setting up or using this product you will find useful tips and information in the Troubleshooting section of this user guide as well as “Frequently Asked Questions” on our website [www.oricom.com.au](http://www.oricom.com.au).

If you have further questions about using the product after reviewing the resources above or would like to purchase replacement parts or accessories please call our Customer Support Team. Our dedicated local support team are more likely to be able to help you than the retailer where you made your purchase.

### **Important**

Please retain your purchase receipt and attach to the back page of this user guide as you will need to produce this if warranty service is required. Take a few moments to register your product online: [www.oricom.com.au](http://www.oricom.com.au).

### **Express Warranty (Australia)**

This Express Warranty is provided by Oricom International Pty Ltd ABN 46 086 116 369, Unit 1, 4 Sovereign Place, South Windsor NSW 2756, herein after referred to as "Oricom".

Oricom products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Oricom warrants that the product is free from defects in materials or workmanship during the Express Warranty Period. This Express Warranty does not extend to any product from which the serial number has been removed or was purchased outside of Australia.

Nothing in this Express Warranty excludes, restricts or modifies any condition, warranty, guarantee, implied term, right or remedy pursuant to the Australian Consumer Law and which may not be so excluded, restricted or modified. For such conditions, terms, guarantees and warranties that cannot be excluded, restricted or modified, Oricom limits the remedies available to extent permitted in the relevant legislation.

The Express Warranty Period will be 3 years from the date of purchase of the product evidenced by your dated sales receipt. You are required to provide proof of purchase as a condition of receiving Express Warranty services.

You are entitled to a replacement product or repair of the product at our discretion according to the terms and conditions of this document if your product is found to be faulty within the Express Warranty Period. This Express Warranty extends to the original purchaser only and is not transferable.

Products distributed by Oricom are manufactured using new materials or new and used materials equivalent to new in performance and reliability. Spare parts may be new or equivalent to new. Spare parts are warranted to be free from defects in material or workmanship for thirty (30) days or for the remainder of the Express Warranty Period of the Oricom branded product in which they are installed, whichever is longer. During the Express Warranty Period, Oricom will where possible repair and if not replace the faulty product or part thereof. All component parts removed under this Express Warranty become the property of Oricom. In the unlikely event that your Oricom product has a recurring failure, Oricom may always, subject

to the Competition and Consumer Act 2010, at its discretion, elect to provide you with a replacement product of its choosing that is at least equivalent to your product in performance.

No change to the conditions of this Express Warranty is valid unless it is made in writing and signed by an authorised representative of Oricom.

Oricom will not be liable under this Express Warranty, and to the extent permitted by law will not be liable for any defect, loss, damage or injury arising out of or in connection with a:

1. Failure by you to adhere to the warnings and follow the instructions set out in this user guide for the proper installation and use of the product;
2. Wilful misconduct or deliberate misuse by you of the product;
3. Any external cause beyond our control, including but not limited to power failure, lightning or over voltage; or
4. Modification to the product or services carried out on the product by anyone other than Oricom or Oricom's authorised service provider.

# How to make a claim under your Express Warranty in Australia

Oricom has a simple warranty process for you to follow:

- Please call or email our Customer Support Team, 1300 889 785 or support@oricom.com.au.
- A Customer Support Team member will verify after troubleshooting with you if your product qualifies under warranty. If so, they will give you a Product Return Authorisation number.
- We will then email or fax a Return Authorisation form and a Repair Notice (if necessary), together with instructions on how to return the goods for warranty service.

Please note that if a Customer Support Team member advises that your product does not qualify for return, this warranty does not apply to your product. Products that are authorised to be returned to Oricom in Australia must include all of the following:

- A completed Return Authorisation form
- A copy of your Proof of Purchase (please keep your original copy)
- The faulty product, including all accessories.

Send the approved returns to:

Oricom International Pty Ltd

Locked Bag 658

South Windsor NSW 2756 Australia

Please note that this Express Warranty excludes expenses incurred by you in returning any faulty product to us. You must arrange and pay any expenses incurred (including postage, delivery, freight, transportation or insurance of the product) to return the faulty product to us, however, we will arrange delivery of the repaired or replaced faulty product to you.

## **Important Information**

### **Repair Notice**

Please be aware that the repair of your goods may result in the loss of any usergenerated data (such as stored telephone numbers, text messages and contact information). Please ensure that you have made a copy of any data saved on your goods before sending for repair. Please also be aware that goods presented for repair may be replaced by refurbished goods or parts of the same type rather than being repaired.

## **Contact details for Oricom Support and Express Warranty Claims in Australia**

Oricom International Pty Ltd  
Locked Bag 658  
South Windsor, NSW 2756  
Australia

Email: [support@oricom.com.au](mailto:support@oricom.com.au)  
Phone: 1300 889 785 or (02) 4574 8888  
(Monday to Friday 8am to 6pm AEST)  
Web: [www.oricom.com.au](http://www.oricom.com.au)  
Fax: (02) 4574 8898

## **Contact details for Oricom Support and Express Warranty Claims in New Zealand**

Email: [support@oricom.co.nz](mailto:support@oricom.co.nz)  
Phone: 0800 674 266  
(Monday to Friday 10am to 8pm NZST)  
Web: [www.oricom.co.nz](http://www.oricom.co.nz)



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