UHF100

UHF200

Operating Instructions

For UHF100 and UHF200 40 Channel UHF
2-way Citizen Band Radio

Downloaded from www.cbradio.nl

oricom®

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N13134
Z765

This unit complies with all relevant Australian and New Zealand approval requirements.

Please read before installing or opearating Your Oricom Radio

The operation of this 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 General User Radio License for Citizen Band Radio and operation is subject to conditions contained in those licences.

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

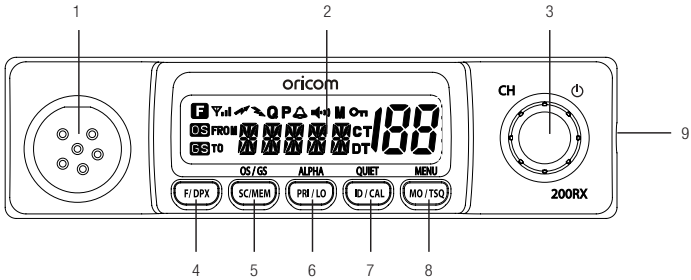
UHF100

1 x RF Radio
1 x Remote Head Unit with 2m cable
1 x UHF100 Standard Microphone
1 x DC Power Cord with inline fuse
1 x Mounting bracket with mounting screws for RF Radio
1 x Mount bracket with mounting screw for Remote Head Unit
1 x Microphone Hanger
1 x User Guide

UHF200

1 x RF Radio
1 x Controller Speaker Micrphone
1 x DC Power Cord with inline fuse
1 x Mounting bracket with mounting screws for RF Radio
1 x Microphone Hanger
1 x 2m long Extention cable
1 x Coupler for extention cable
1 x User Guide

Front View Remote Head unit (UHF100)

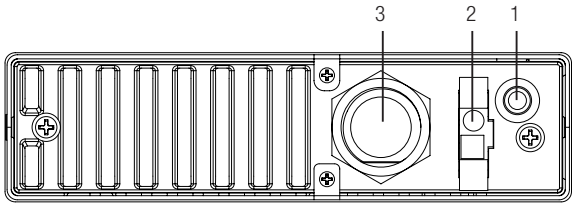


1. Microphone connector
2. LCD Display
3. Power On/Off, channel & Volume control
4. Function button by short push & Duplex On/Off by long push
5. Open Scan, Memory On/Off, Group Scan
6. Priority Channel On/Off, Key Lock On/Off, Alpha-numeric display
7. ID setting, 5 tone SelCall, Quiet
8. Monitor, TSQ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

Rear View

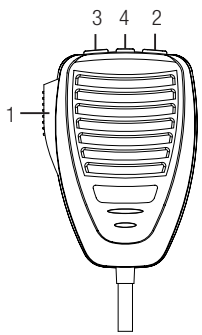
Rear view of Radio (UHF100 & 200)

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



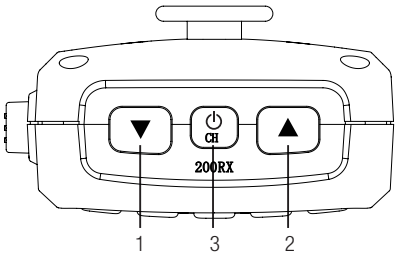
Standard Microphone (UHF100)

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



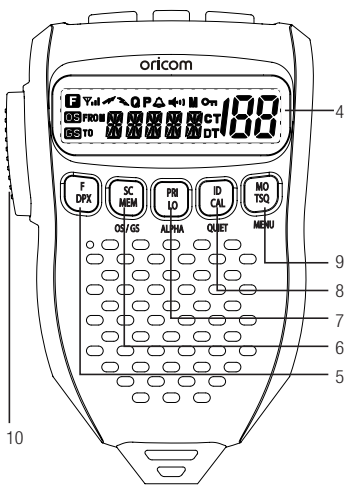
Top view of Contoller Speaker Microphone (UHF200)

1. Volume **Down**, Channel **Down**
2. Volume **Up**, Channel **Up**
3. Power **On/Off**

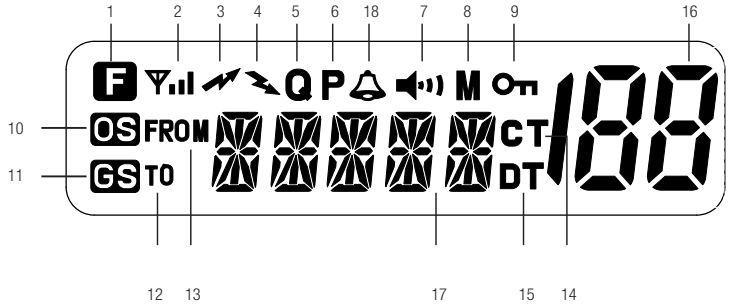


Front view of Contoller Speaker Microphone (UHF200)

4. LCD Display
5. Function button & Duplex On/Off
6. Open Scan, Memory On/Off, Group Scan
7. Priority Channel On/Off, Key Lock On/Off, Alpha-numeric display
8. ID setting, 5 tone Selcal, Quiet
9. Monitor, TSQ On/Off, Menu
10. PTT Switch



LCD Icons & Indicators (UHF100 and UHF200)



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

INSTALLATION

CAUTION

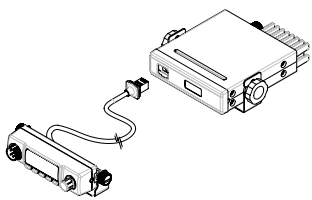
When installing your radio in your vehicle, check that during installation you do not damage any wiring or vehicle components that may be hidden around the mounting position.

If you are unsure about how to install your radio, we suggest for optimum performance 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. **Do not press the PTT or CALL button before installing the antenna.**

Screw the mounting bracket and the remote head bracket to firm surfaces.

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.



Note

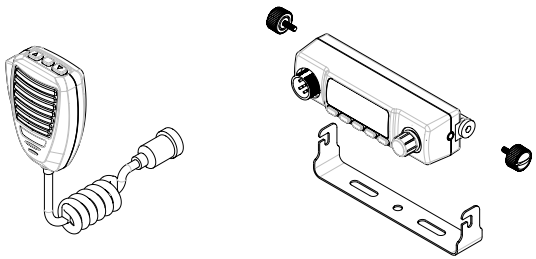
The radio contains a built-in loud speaker, The radio can be installed 'out of the way' and an external speaker can be used as an alternative (not supplied).

To mount the Remote Head (UHF100)

The remote head is supplied with a slim mounting bracket and thumb screws.

Its small size and light weight design allows it to be mounted in almost any convenient position accessible to the driver.

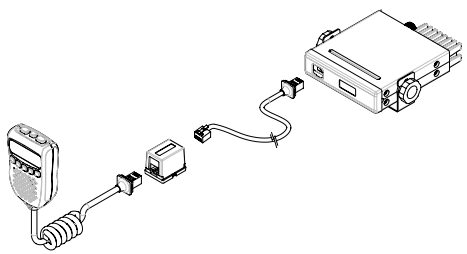
1. Fix the mounting bracket in place by screwing through the slots in the bracket.
2. Fix the remote head unit to the mounting bracket with the thumb screws provided.
3. Connect the standard microphone to the remote head socket, and tighten up the thumb screw.



Fitting the Controller Microphone Speaker (UHF200)

The Remote Head uses an 8 pin telephone style plug and socket:

1. Position the microphone plug so the plastic flap faces downwards, and press the plug into the socket until it 'clicks'.
2. Gently press the rubber boot into the hole surrounding the socket so that the slot around the boot fits neatly inside the rim of the entry hole.
3. If required use the external cable (supplied) to allow the radio to be installed further from the Controller Speaker Microphone.



Disconnecting the Remote Head/Speaker Controller Microphone

It is recommended that the remote head be left permanently connected to the radio, but if it must be disconnected, proceed as follows:

1. Lift the rubber boot and the lip of the raised area on the front panel.
2. Ease the rubber boot out of the cable entry hole and slide it along the cable away from the front panel.
3. Identify the plug locking lever, move the lever towards the plug body. At the same time gently pull the plug from the socket (see previous page).

Controller Speaker Microphone; part number, CSPKMIC

Standard Microphone; part number, MIC050

These can be purchased from the dealer you purchased the radio from or directly from Oricom.

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.

There are two possible methods of installation.

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 colors when the unit is turned on.

In additon, 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.

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.

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 senstivity.

A poor quality antenna or one not designed for the specific frequency band you are using will give poor performance. You should 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.
2. To obtain maximum performance from the radio, select a high quality antenna and mount it in a good location. **Do not press the PTT or CALL button before installing the antenna.**

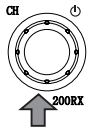
Optional accessories

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

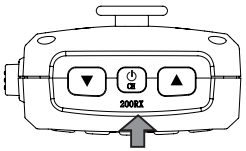
There is a jack located on the rear of the radio and on the UHF100 there is an additional jack on the side of the remote head unit.

Power on and off

* Press and hold the **PWR** button on the UHF100 Remote Head or the UHF200 microphone **PWR** button for 2 seconds.
* The default channel is set at CH01.



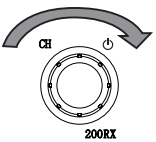
UHF100

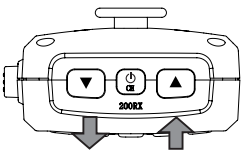


UHF200

Volume control

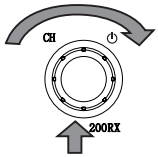
* The UHF100 has a rotary electric volume control. Adjust the volume by rotating the channel knob clock-wise or adjust the volume control by pressing the **Volume Up** or **Volume Down** buttons on the microphone.
* The UHF200 has **Volume Up** or **Volume Down** buttons on the microphone. Adjust to the preferred volume level.

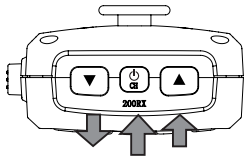


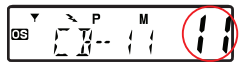


Channel Selection

* 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 40.
* The UHF200 has **Channel Up** or **Channel Down** buttons on the microphone. Briefly press the **PWR** button, this will allow you to select the preferred channel.







blinking

Tri 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.

Transmitting

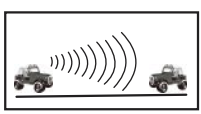
NOTE: Before transmitting on any channel, listen to check the channel is not already in use.

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.

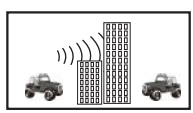
Transmitting range

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

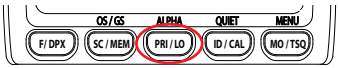
Priority Channel

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

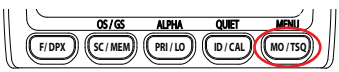
1. Select the required channel.
2. Briefly press and hold the **PRI/LO** button a loud beep is heard. The letter "P" appears when the priority channel is set.

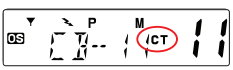


CTCSS

CTCSS (Continuous Tone Coded Squelch System)

CTCSS uses a sub-audile 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.

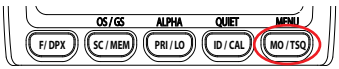
Selecting the Required CTCSS Tone

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

Enabling CTCSS on a Channel

If a CTCSS tone has been selected, it can be enabled on individual channels.

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.

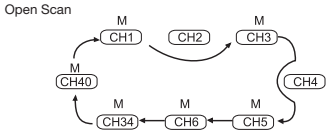
Channels can be scanned (40 channels per 5 seconds). When a signal is found, scanning will stop at that channel to allow the signal to be heard, then resume scanning when the channel is clear again.

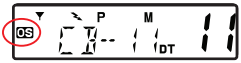
Scan Groups

The Radio features three scan modes - Open Scan, Group Scan and Memory Scan.

Open Scan

The Open Scan feature scans for activity on all 38 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.

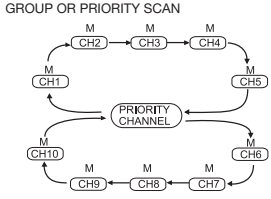


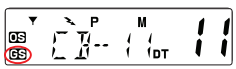


Group Scan

With Group 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.

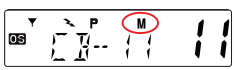




Allows you to monitor a Priority Channel while scanning other channels in the GS memory.

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.



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 UHF100. And, for the UHF200 press the **Channel Up** and **Channel Down** buttons on the microphone.
3. When the required Selcall Memory is displayed, press and hold the **ID/CAL** button to send TO.

Displaying ALPHA Names

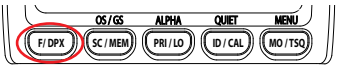
To display the Selcall's ALPHA Name You must have the radio's ALPHA display mode selected.

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, Editting 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 proceedure 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.

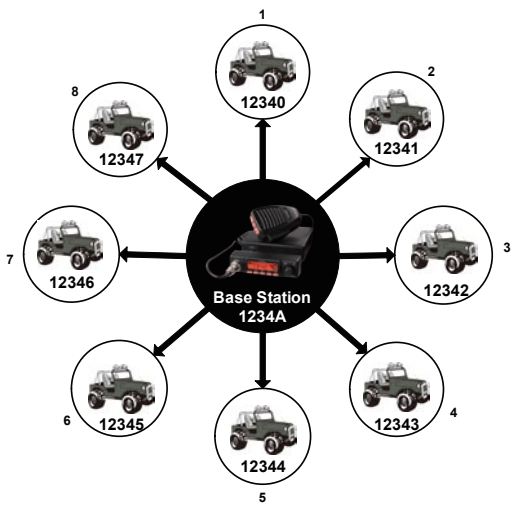
Group Calling

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	
Group ID	Individual ID
1234	0
1234	1
1234	2
1234	3
UP TO	
1234	9

100 Radios	
Group ID	Individual ID
123	00'
123	01'
123	02'
123	03'
UP TO	
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 opeartions.

- 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

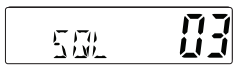
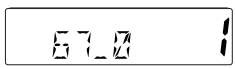
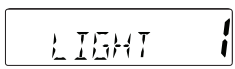
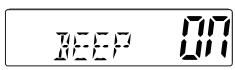
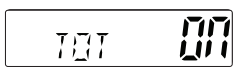
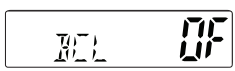
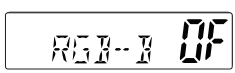
The MENU feature provides a convenient method of customizing some of the radio's functions. The following Menu Options are available. Note that some items are only available on certain channels.

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 COLOR	1. Amber 2. Red 3. Green OFF		1
	KEY BEEP ON/ OFF	On Off		ON
	2 minute and 30 second	On Off		ON
MENU	Busy channel lock	On Off		OF
	SCAN stop time control	5 sec 10 sec 15 sec P5		P5
	Roger beep	On Off		ON

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 Color

You can select from three color 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 of 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 continous 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.

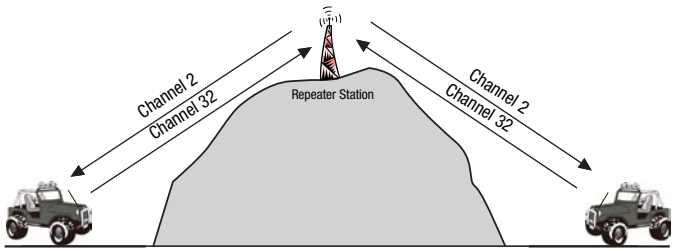
Roger Beep

This function emits a beep on the communication party to infrom the transmission is finished.

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) 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) but transmits to the repeater channel 31 through 38.

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.

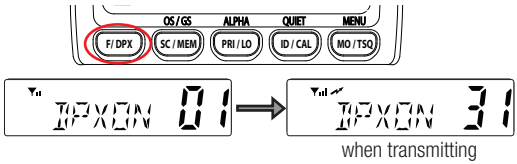
CH and Number	Simplex mode Transmit/reciever Frequency (MHz)	Duplex Mode transmit Frequency(MHz)
1	476.425	477.175 CH31
2	476.450	477.200 CH32
3	476.475	477.225 CH33
4	476.500	477.250 CH34
5	476.525	477.275 CH35
6	476.550	477.300 CH36
7	476.575	477.325 CH37
8	476.600	477.350 CH38

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 UHF100 and UHF200 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.



when transmitting

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 wide band 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.

Turn power on.

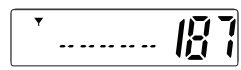
Briefly press the **F/DPX** button and then the Power button to access frequency band range.

* 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.

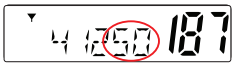
(example;)



* 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.



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/DUP** 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.

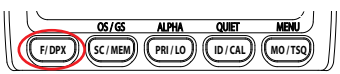
Factory reset

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	Frequency (MHz)	Usage
1	476.425	Duplex RX/Simplex
2	476.450	Duplex RX/Simplex
3	476.475	Duplex RX/Simplex
4	476.500	Duplex RX/Simplex
5	476.525	Emergency
6	476.550	Duplex RX/Simplex
7	476.575	Duplex RX/Simplex
8	476.600	Duplex RX/Simplex
9	476.625	Simplex
10	476.650	Simplex
11	476.675	Simplex (Calling channel)
12	476.700	Simplex
13	476.725	Simplex
14	476.750	Simplex

15	476.775	Simplex
16	476.800	Simplex
17	476.825	Simplex
18	476.850	Simplex
19	476.875	Simplex
20	476.900	Simplex
21	476.925	Simplex
22	476.950	No Use
23	476.975	No Use
24	477.000	Simplex
25	477.025	Simplex
26	477.050	Simplex
27	477.075	Simplex
28	477.100	Simplex
29	477.125	Simplex
30	477.150	Simplex
31	477.175	Duplex TX/Simplex
32	477.200	Duplex TX/Simplex
33	477.225	Duplex TX/Simplex
34	477.250	Duplex TX/Simplex
35	477.275	Emergency
36	477.300	Duplex TX/Simplex
37	477.325	Duplex TX/Simplex
38	477.350	Duplex TX/Simplex
39	477.375	Simplex
40	477.400	Simplex

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 these channels.

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.

Channel 22 and 23 are for Telemetry and Telecommand use, voice commnuications are not allowed on these channel by law.

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		

Oricom makes no other warranties or conditions, express or implied, including as to merchantability and fitness for a particular purpose, except as stated in this Warranty. Any implied warranties that may be imposed by law are limited in duration to the Warranty Period.

Oricom warrants that the product is free from defects in materials or workmanship during the Warranty Period. This Warranty in no way affects your statutory warranty rights under the Trade Practices Act 1974 or any other similar legislation. This Warranty does not extend to any product from which the serial number has been removed, was purchased outside of Australia or that has been damaged or rendered defective:

1. as a result of lightning, over voltage, accident, misuse, abuse or other external causes;
2. the operation outside the normal use of the product;
3. by the use of parts not manufactured or sold by Oricom; or
4. by modification or service by anyone other than:

   (a) Oricom; or (b) an Oricom authorised service provider.

The Warranty Period will be 36 months 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 warranty services. You are entitled to a replacement or repair according to the terms and conditions of this document if your product is found to be faulty within the Warranty Period. This Warranty extends to the original purchaser only and is not transferable.

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 Warranty Period of the Oricom branded product in which they are installed, whichever is longer.

During the Warranty Period, Oricom will replace and where possible repair the defective product. All component parts removed under this Warranty become the property of Oricom.

In the unlikely event that your Oricom product has a recurring failure, Oricom, at its discretion, may elect to provide you with a replacement product of its choosing that is at least equivalent to your product in performance.

Oricom does not warrant that the operation of the product will be uninterrupted or error free. Oricom is not responsible for damage that occurs as a result of your failure to follow the instructions that came with the product.

These terms and conditions together with any specific terms and conditions contained in the user guide to the product purchased constitute the complete and exclusive agreement between you and Oricom regarding the product. No change to the conditions of this Warranty is valid unless it is made in writing and signed by an authorised representative of Oricom.

Oricom is not liable for any damages caused by the product or the failure of the product to perform, including any lost profits or savings or special, incidental or consequential damages. Oricom is not liable for any claim made by a third party or made by you on behalf of a third party.

This limitation of liability applies whether damages are sought, or a claim made, under this Warranty or as a tort claim (including negligence and strict product liability), a contract claim or any other claim. However, this limitation of liability will not apply to claims for personal injury.

Nothing in this Warranty excludes, restricts or modifies any condition, warranty, right or remedy which pursuant to the Trade Practices Act 1974 applies to this Warranty and which may not be so excluded, restricted or modified. For warranties that cannot be excluded, restricted or modified, Oricom limits the remedies available to those specified in the relevant legislation.

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Customer Support

If you suspect your product is not functioning to specification, before making a warranty claim please use the following resources.

- Online Frequently Asked Questions - www.oricom.com.au and in New Zealand - www.oricom.co.nz
- Email our customer support team on support@oricom.com.au
- Contact Oricom Customer Support team on 1300 889 785 or 02 4574 8888 (Monday to Friday 9am to 5pm EST)

Please retain your purchase receipt and attach to the back page of this user guide.

Visit www.oricom.com.au to register your product online

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