SIGNIFY

WALKIE TALKIE

500mW CB Handheld 2-way Talk Radio

Model Number: ET0195

INSTRUCTION MANUAL

AFTER SALES SUPPORT
☎ (AUS) 1300 777 137

service@unclebills.com.au

MODEL: ET0195 PRODUCT CODE: 55913 12/2016

Welcome

Congratulations on choosing to buy a Signify product.

All products brought to you by Signify™ are manufactured to the highest standards of performance and safety, and, as part of our philosophy of customer service and satisfaction, are backed by our comprehensive 1 Year Warranty.

This comprehensive instruction manual will provide you with a detailed guide on how to operate your product and will also assist you in troubleshooting any problems that you may encounter.

If you have any queries regarding the use of this product, please feel free to phone our technical support line for some friendly advice. If you are experiencing difficulties or believe that the product may have a technical fault, we will assist you in rectifying the issue. We can generally solve most problems simply and quickly over the phone, so please always phone us first.

We are sure that you will enjoy using this product and you can expect to gain years of service from this product when it is used and maintained in the correct manner.

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Walkie Talkie / UHF Radio

Warranty Details

The product is guaranteed to be free from defects in workmanship and parts for a period of 1 year from the date of purchase. Defects that occur within this warranty period, under normal use and care, will be repaired, replaced or refunded at our discretion. The benefits conferred by this warranty are in addition to all rights and remedies in respect of the product that the consumer has under the Competition and Consumer Act 2010 and similar state and territory laws.

Our goods 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 for 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.

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1 YEAR WARRANTY

General Information and Safety Instructions

RETAIN FOR FUTURE USE

Read this manual thoroughly before first use, even if you are familiar with this type of product. The safety precautions enclosed herein reduce the risk of fire, electric shock and injury when correctly adhered to. Please keep this user manual in a safe place along with your purchase receipt and carton for future reference. If applicable, pass these instructions on to the next owner of the product. Always follow basic safety precautions and accident prevention measures when using an electrical product.

1. **CAUTION:** Please follow the instructions to prevent injuries and property damage.
2. Please follow the guidelines in the operating instructions.
3. The Radios are Private Mobile Radios (PMRs) that are operating on the licence free radio frequency band and do not require registration. They are therefore intended solely for private use.
4. The Radios are used to communicate with other PMR Radios. Never use the Radio for any other purpose.
5. The Radio and its charging base do not have user serviceable parts within. Do not attempt to repair, disassemble or modify the Radio or its accessories. To avoid any danger, contact our Service Centre if the Radio is defective.
6. Only use the accessories supplied for the Radios.
7. Follow all the information in these operating instructions, especially the safety information. Any other use is deemed improper, can cause personal injury or property damage and may void the warranty.
8. Do not use the Radio in extreme environmental conditions.
9. If you carry any kind of personal medical radio, consult a doctor before use.
10. Do not use the Radio if the aerial is damaged in any way.
11. Do not hold the antenna when the Radio is in use. Holding the antenna may cause bodily harm and will reduce the range of the Radio.

General Information and Safety Instructions (cont.)

12. Do not use the Radio in a potentially explosive setting (eg. around petrol pumps, on the lower deck of a boat or around areas that store or contain fuel).
13. Never use the Radio in close proximity to other radios to avoid interference.
14. If travelling in a car or by bike, stop before using the Radio. Switch off the Radio on an aeroplane or in a hospital.
15. This Radio may be used by children over the age of 8 and by persons with reduced physical, sensory or mental abilities or by those without experience and/or knowledge, if they are supervised or have been instructed in the safe use of the Radio and have understood the dangers that result from it. Children must not be allowed to play with the Radio. Cleaning and user maintenance may not be carried out by children, unless they are aged 8 or over and are supervised.
16. Children younger than 8 should be kept away from the Radio and the mains cable.
17. The Radio emits only a low amount of radio radiation and is therefore also suitable for children. However, to further minimise the risk of radio radiation, the antenna of the Radios should be held at a distance of at least 3cm from the head.
18. Do not make any modifications to the Radio or carry out any repairs yourself. For example, do not try to use a different antenna as this could damage the Radio and void the warranty.
19. Do not expose the Radios and the mains adaptor to water drops or splashes. Do not use the Radios in the rain. There is a risk of electric shock.
20. Store the Radios and the mains adaptor in a dry environment.
21. Connect the mains adaptor provided only to an easily accessible and correctly installed safety socket (100–240V~ 50/60Hz) that is close to the place where you have set up the Radio. Keep the socket free of obstructions so that the plug can be pulled out easily.
22. When disconnecting the power adaptor from the mains supply, always pull on the plug rather than on the cable.
23. Do not kink or damage the mains cable.
24. To avoid the risk of tripping, please avoid using extension cables.

General Information and Safety Instructions (cont.)

25. The Radios may only be used with the supplied battery pack. Improper use, or use with unapproved battery pack may present malfunction of the Radio or reduced transmission range and may void the warranty.
26. The Radios are powered by a rechargeable battery pack. Rechargeable battery packs can be fatal if swallowed. Therefore, you should keep the Radio out of reach of children. If a rechargeable battery is swallowed, it is essential to seek medical assistance immediately.
27. Before inserting the battery pack, check that the terminals in the Radio and on the battery pack are clean and, if necessary, clean them.
28. Do not throw the rechargeable battery pack into a fire, do not short-circuit the battery pack or dismantle it.
29. Please always follow the markings on the battery pack and the polarity (+/-) when inserting the battery pack.
30. Remove the battery pack if the unit will not be used for long periods.
31. Never expose the battery pack to excessive heat such as direct sunlight, fire or similar. There is an increased risk of leakage.
32. In the event of leakage, remove the battery pack from the Radio immediately. Clean the contacts before inserting a new battery pack. There is a risk of skin irritations from battery acid.
33. The Radios are operated with a rechargeable battery pack. The battery pack can be charged in the Radios using the supplied charging base.
34. The maximum range of the Radio is dependent on the environmental conditions and the surrounding building structures.
35. Use of this civil radio is governed by the ACMA radio communications (Citizen Band Radio Stations) class licence in Australia and the MED general user radio licence for citizens band radio in New Zealand. Operation is subject to the conditions contained in these licences.

General Information and Safety Instructions (cont.)

36. Except in an emergency, never operate the Radio on channel 5 or channel 35. These channels are allocated for usage only in an emergency.

Caution: If battery acid has leaked out, under no circumstances inhale any fumes created or allow it to come into contact with the skin or eyes. Leaked battery fluid can cause skin irritations. If the acid does come into contact with skin, immediately rinse the affected areas with plenty of clear water and consult a doctor immediately.

Note: Do not dispose the battery pack in normal rubbish. Dispose in accordance with your local council regulations. **NEVER** dispose the battery pack in fire or heat.

Product Overview

Walkie Talkie Section

- 500mW UHF CB Handheld 2-way Talk Radio
- 75 Channels
- CTCSS/DCS Codes (CTCSS 38 / DCS 61)
- Frequency 476.425-477.4125 MHz
- Range: Up to 5km (Open Field)
- PTT (Push to Talk) Function
- Auto Channel Scan
- Automatic Squelch
- Call Tone : 10 tones
- Key Tone: 1 tone
- Keypad Lock
- LED Torch
- LCD Display (2 Digits, with blue colour backlight)
- Low Battery Alert
- Detachable Belt Clip
- Support External Headset (not included)
- Playback Time (Standby): 16 -18 hours

Charger Section

- Dual Charging Base
- Output Voltage/Current: 7.5V ⎓ 500mA
- Charging Time: 10-12 hours
- Built-in DC Jack (for power in)
- AC/DC Adaptor Charger:
  100-240V~ 50/60Hz

Product Overview (cont.)

Included (not pictured): Charging Base, AC Adaptor, Instruction Manual and Warranty Card.

Before First Use

Prior to using your Radio, please read all safety and operating instructions thoroughly. Please ensure you follow the steps below before using this product. We recommend you keep the original packaging for storing your Radio when not in use.

1. Unpack the product but keep all packaging material until you have made sure your new Radios are undamaged and in good working order. Plastic wrapping can be a suffocation hazard for babies and young children so ensure all packaging materials are out of their reach.

2. Remove the twist-tie which is securing the electrical cord. Uncoil the cord and straighten it to remove any kinks. Do not use the product if the cord, plug or adaptor is damaged, please call the After Sales Support Line for further advice.

3. Plug the DC connector into the DC power input found on the rear of the charging base, then plug the AC power adaptor into a power outlet and turn on.

4. Follow the **Inserting the Battery** instructions on page 12 of this manual.

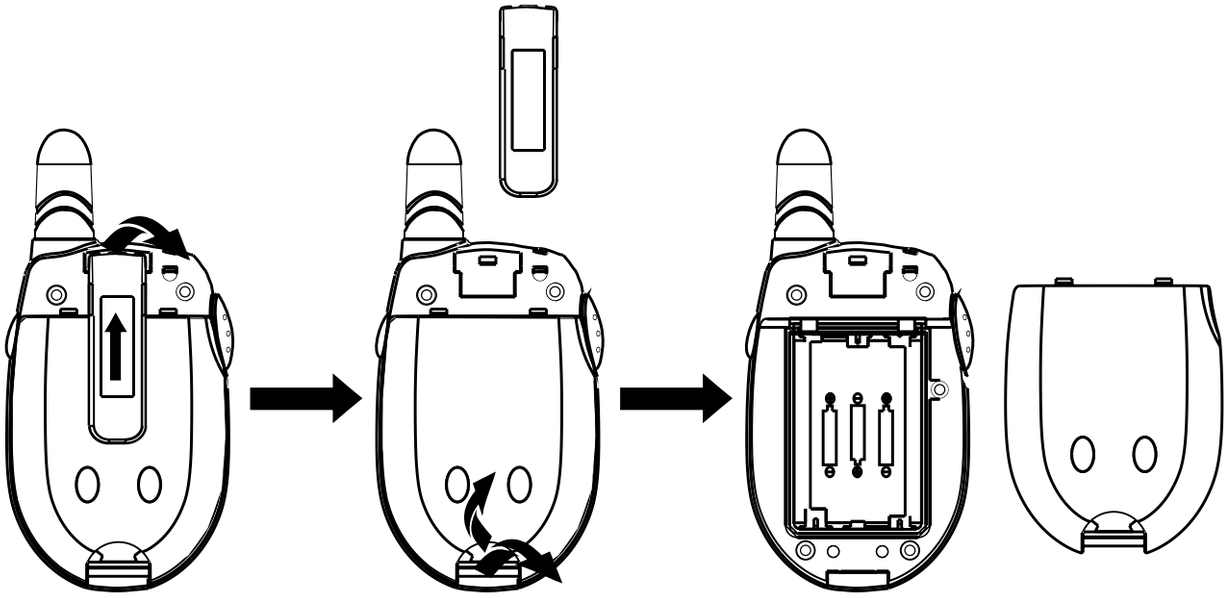
5. Before first using the battery pack, please note it will need to be full charged. Follow the **Charging the Battery** instructions on page 13 of this manual for more detailed instructions on charging the battery pack. The battery pack will take around 14 hours to completely charge.

Getting Started

This pack contains two ultra-compact 500mW UHF CB Radios that are built for Australian standards. They are operating on the licence free radio frequency band in Australia and there are 75 available radio channels. The pack is equipped with up to 5 kilometres operating range (open field), rechargeable battery packs, a backlight LCD display screen, auto squelch and many more features enabling you to take the Radios anywhere.

Inserting the Battery

Each Radio is operated using a NiMH rechargeable battery pack (in the following referred to as “battery pack”). The battery compartment is located at the rear of the Radio. Please see diagram below for assistance on how to insert the battery pack.



1. Make sure the Radios are turned off. Remove the belt clip by pushing the small lever located inside the top of the clip backwards towards you (with the belt clip facing you) and then by pushing the belt clip straight upwards. A pen or fingernail can be used to push the lever backwards.
2. To release the battery cover, push down on the battery safety tab located at the bottom of the battery compartment. Take the cover off the battery compartment by lifting the cover upwards, towards you.

Getting Started (cont.)

3. Observing the orientation on the battery pack, insert the battery pack by first inserting the top part of the battery pack into the battery compartment, then by pushing down the bottom part of the battery pack firmly, until it clicks into place. Ensure that the battery information label is facing you and that the arrow on the label is pointing up.
4. Replace the battery compartment cover by aligning the tabs on the top of the battery cover, with the ridges inside the top of the battery compartment. Then push down the battery cover and click the battery safety tab back down into place.
5. Push the belt clip back into place.

Note: The Radios may also be powered with 3 AAA regular Alkaline batteries. The TX power is always lower for alkaline batteries. Please make sure you observe the correct polarity markings (found inside the battery compartment), before inserting the batteries. Do not leave batteries installed over a long period of time as leakage may occur and this can destroy the Radio. Do not use the charging base to charge the Radios unless the batteries that have been inserted are rechargeable batteries. This will cause the batteries to leak and it will damage the product.

Warning: To avoid damage to the unit do not mix old and new batteries.

Charging the Battery

1. Make sure that the Radios are turned off.
2. Plug the DC connector into the DC power input found on the rear of the charging base, then plug the AC power adaptor into a power outlet and turn on.
3. Place the units into the charging base ensuring that the Radios are in the correct way. The charging points on the base of the charging base should come into contact with the charging points on the back of the Radio.

Getting Started (cont.)

4. Once the Radios are correctly inserted into the charging base, the two LED indicator lights on the charging base will illuminate red. This means that the battery pack is correctly connected to the charging base.
5. When first charging the battery pack it may take up to 14 hours to fully charge. After this initial charge, it will only take approximately 10 hours for the battery pack to charge.
6. When the Radios are sitting in the charging base, the red LED indicator lights on the charging base will stay illuminated.

Note: The indicator lights on the charging base will NOT turn off once charging is complete. To check if the Radios are fully charged you will need to take the Radios out of the charging base and check the battery indicator on the display screen, after 10-14 hours charge.

7. Once your Radios are charged, switch off and unplug the power cord from the mains outlet and unplug the adaptor from the charging base. Store safely away.

Warning: DO NOT attempt to charge any type of regular Alkaline battery in this unit (only rechargeable batteries can be charged by the charging base).

Battery Level Indicator

The battery charge level is indicated by the number of bars inside the battery icon on the display screen.

 Battery full  Battery 2/3 charged  Battery 1/3 charged  Battery empty

- If the battery charge level is too low, the battery icon will flash and a beep will be heard to indicate that the battery pack needs to be recharged.

Basic Operations

Turning the Radio On

To switch on the Radio, press and hold the power **(⏻)** button for 2 seconds. The LED screen will illuminate and the Radio will beep.

When the Radio is turned on for the first time, the following default parameters will be selected:

- Channels: 01
- CTCSS/DCS Code: 01
- Keypad Lock: Off
- VOX On/off: Off
- Call Tone: 1
- Roger Tone: On
- Key Tone: On
- Lock Status: Unlocked
- Repeater Function: Off

Turning the Radio Off

To switch the Radio off, press and hold the power **(⏻)** button. The display will switch off and the Radio will beep.

LCD Backlight

To activate the backlight of the display screen, press any button except the menu **(M)** button. The LCD backlight will light up for 5 seconds.

Torch Light

The torch light button is located on the right hand side of the Radio. Press the torch button to turn the torch on and once again to turn the torch off.

Keypad Lock Mode

- To activate the keypad lock, press and hold the menu **(M)** button for 3 seconds until the keypad lock symbol is displayed on the display screen. The keypad of your Radio is now locked.
- When the keypad lock is activated, you can still use the PTT (Push To Talk) button to transmit communications, plus your Radio will still receive transmissions. The call **(C)** button and power **(⏻)** button are also functional.

Basic Operations (cont.)

- To deactivate the keypad lock, press and hold the menu **(M)** button until the keypad lock symbol on the display disappears.

Volume

The volume level can be adjusted from 1 (minimum volume) to 8 (maximum volume). Press the up **(▲)** button to increase the volume or press the down **(▼)** button to decrease volume.

Note: Please ensure that the keypad lock is turned off in order to use the up **(▲)** and down **(▼)** buttons to adjust the volume.

Energy Saving Mode

When the Radio has not been used for 6 seconds, energy saving mode will automatically activate and the backlight of the LCD display will turn off. Energy saving mode does not affect the reception of transmissions and the standard mode will automatically reactivate as soon as a signal is detected.

Auto Squelch

The Radio is equipped with an automatic squelch system which shuts off weak transmissions and unwanted noise.

Basic Operations (cont.)

Using the Radio

To Transmit and Receive

The Radio uses the UHF channels. Please refer page 21 for channel guidelines in Australia and New Zealand. As soon as the Radio is switched on it will enter reception mode, but will not transmit any radio signals automatically. The default channel for both Radios is 01.

1. The Radios are ready to communicate to each other if the channels selected on both the Radios are the same. When the channel is clear, speak through the Radio by holding the PTT button located on the left side of the Radio; the transmission indicator icon **(TX)** will appear on the display screen for voice transmission. When you have finished speaking, release the PTT button and listen for a response.

Warning: For optimum use, hold the Radio vertically and speak in a clear, normal conversational voice into the microphone from a distance of around 5-8cm with the antenna at approximately 45^{o} angle away from your head.

Warning: For maximum range and to extend the life of the batteries, avoid touching the antenna with your hand when transmitting. The radio transmitting range will shrink when the antenna comes into contact with a person's body.

2. You can also press the call **(C)** button to generate a call tone signal first. This tone will alert the other Radio of your transmission. The **(TX)** icon will appear on the display screen for call tone transmission. A call tone can only be transmitted once (not more than three seconds) in any 60 seconds period, no matter how often you press the call **(C)** button. For detailed instructions on changing the call tone please see page 27 of this manual.
3. When you are receiving an incoming transmission or a call tone on the current channel, the receiving indicator icon **(RX)** will appear on the display screen and you will be able to hear the voice transmission or a call tone. Adjust the volume to the desired level if necessary.

Basic Operations (cont.)

When you are receiving a transmission, the receiving indicator icon **(RX)** will be displayed on screen. When you are making a transmission, the transmission indicator icon **(TX)** will be displayed.

Note: This Radio is capable of operating up to 5 kilometres open free range. Any obstructions such as buildings, trees, RF interference, electrical appliances will affect the performance of the transmission.

UHF CB Radio Channels

This Radio operates in 75 effective channels out of 80 main channels (1-80 with 22, 23, 61, 62 and 63 prohibited for voice transmitting) with 99 sub-channels (38 CTCSS and 61 DCS private codes) for each channel. CTCSS/DCS private codes ensure that your communication is not interrupted unnecessarily by other radios. Please refer to the Channels Frequency Table and CTCSS/DCS Frequency Table on page 23 and 25 of this manual for further information. It is important to note the below limitations:

- Except in an emergency, never operate the Radio in channel 5 or channel 35.
- Channel 11 is the customary calling channel for establishing communication.
- Channel 40 is the customary road vehicle channel.

Before selecting a channel for transmission, always listen to it first to ensure it is not already being used. Avoid selecting a busy channel. When the Radio keeps on receiving a signal from an unknown party, the **RX** icon will be displayed.

To Select a Channel Manually

1. To select a channel manually, press the menu **(M)** button once and the channel number will flash.
2. Use the up **(▲)** and down **(▼)** buttons to select the desired channel number (1-80). Press the PTT button to confirm.
3. Repeat the above steps with the other radio, ensuring that the same channels are selected. You are then ready to communicate.
4. To change channels carry out the same steps as above.

Basic Operations (cont.)

Note: To communicate with other models and brand of radios, the actual radio frequency and sub-channel (CTCSS/DCS) frequency must be matched.

To Scan Channels Automatically

Channel scan performs searches for active signals in an endless loop of channels. This can help you to locate channels that your other Radio or other PMRs in your area and enable you to communicate with them.

1. Press and hold down the call **(C)** button until the channel number located on the display starts to scan automatically through the channels.
2. The channel number on the display screen changes rapidly until an active signal is detected. When an active signal is detected, the channel scan pauses on the active channel which is transmitting. The Radio will stay on this active channel until the transmission has stopped. But if the active channel does not transmit, the channel scan will continue.
3. To manually resume channel scanning, press the up **(▲)** button to resume scanning or the down **(▼)** button to resume scanning back previous channels.
4. If you want to stay on the selected channel, press the PTT button to stop the scan.

Note: In this mode, only the main channels will be scanned, not the CTCSS/DCS (sub-channels). After you have selected your main channel and have stopped the scan, follow the instructions on page 24 to select the CTCSS/DCS code for sub-channel.

Note: Channel 40 is generally used for customary road vehicle channel and may be active in your area. As a result, the Radio auto-scan may constantly stop in those active channels. This is not a fault of the product. To resume scanning, please follow the steps above.

Basic Operations (cont.)

Channel Frequency Table

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
***1**	476.425	**21**	476.925	***41**	477.425	**++61**	476.9375
***2**	476.450	**+22**	476.950	***42**	477.450	**++62**	476.9625
***3**	476.475	**+23**	476.975	***43**	477.475	**++63**	476.9875
***4**	476.500	**24**	477.000	***44**	477.500	**64**	477.0125
****5**	476.525	**25**	477.025	***45**	477.525	**65**	477.0375
***6**	476.550	**26**	477.050	***46**	477.550	**66**	477.0625
***7**	476.575	**27**	477.075	***47**	477.575	**67**	477.0875
***8**	476.600	**28**	477.100	***48**	477.600	**68**	477.1125
9	476.625	**29**	477.125	**49**	477.625	**69**	477.1375
10	476.650	**30**	477.150	**50**	477.650	**70**	477.1625
11	476.675	***31**	477.175	**51**	477.675	***71**	477.1875
12	476.700	***32**	477.200	**52**	477.700	***72**	477.2125
13	476.725	***33**	477.225	**53**	477.725	***73**	477.2375
14	476.750	***34**	477.250	**54**	477.750	***74**	477.2625
15	476.775	****35**	477.275	**55**	476.7875	***75**	477.2875
16	476.800	***36**	477.300	**56**	476.8125	***76**	477.3125
17	476.825	***37**	477.325	**57**	476.8375	***77**	477.3375
18	476.850	***38**	477.350	**58**	476.8625	***78**	477.3625
19	476.875	**39**	477.375	**59**	476.8875	**79**	477.3750
20	476.900	**40**	477.400	**60**	476.9125	**80**	477.4125

Basic Operations (cont.)

Notes on the table:

* Channels 1-8 and 31-38, 41-48 and 71-78 are used as repeater channels with 750kHz offset. Channels 1-8 and 41-48 are used for mobile reception, and channels 31-38 and 71-78 for mobile transmission. Only use this repeater function when a long distance communication via the local repeater facility is specifically required. Unless it is necessary, avoid operation on locally used repeater input channels (channels 31-38 and 71-78) or locally used repeater receiving channels (channels 1-8 and 41-48). Please see page 28 for more information on repeater channels.

** Channels 5 and 35 are for emergency calling only. Do not use these channels in non-emergency cases. According to AS/NZS 4365:2011, the operation of selective calling (including CTCSS and Scrambler) is prohibited on designated emergency channels 5 and 35.

+ Channels 22 or 23 are prohibited for the transmission of speech telephony signals, according to AS/NZS 4365:2011

++ Channels 61, 62 and 63 are locked for future use. They cannot be activated until they have been approved for use by the ACMA CBRS class licence in Australia.

Note: The maximum transmission range will vary depending on terrain and environment.

Advanced Operations

Menu Function Summary

- As listed above, there are many menu functions to choose from. Press the menu **(M)** button repeatedly to select the individual menus.
- Use the up **(▲)** and down **(▼)** buttons to change the selections in the menu.
- Press menu **(M)** button seven times to navigate through the menu. Press the PTT button once to save your selection.

MENU BUTTON	LCD DISPLAY	FUNCTION SETTING
Press 1 Time	Channel Number Flashing	Channel Setting
Press 2 Times	CTCSS/DCS Number Flashing	CTCSS/DCS Setting
Press 3 Times	**"OF"** Flashing	VOX Setting
Press 4 Times	**"CA"** Flashing	Call Tone Setting
Press 5 Times	**"tO"** Flashing	Key Tone Setting
Press 6 Times	**"rO"** Flashing	Roger Beep Tone Setting
Press 7 Times	**"rP"** Flashing	Repeater Function Setting

Note: If you make no entry in the menu for about 6 seconds, the menu will close.

CTCSS/DCS (Sub-channel) Setting

This Radio is equipped with 75 main channels and also 99 sub-channels (CTCSS and DCS). If there are many PMR users in your neighbourhood, there is a chance that some of these users are operating on the same radio channel. To prevent receiving signals from other users, sub-channels have been included. Two Radios will only be able to communicate with each other when they are operating on the same radio channel and when they have selected exactly the same sub-channel CTCSS/DCS code. This allows you to

Advanced Operations (cont.)

talk on a private sub-channel inside an active channel and is used to reduce the annoyance of listening to other users on a shared channel. Each channel has 38 CTCSS codes and 61 DCS codes.

CTCSS

The Continuous Tone Coded Squelch System (CTCSS) is a Squelch quieting system that allows groups of users to share the same channel without disturbing each other. It uses 1 of 38 low frequency tones to open and close the Squelch on the radio. The CTCSS codes are not encrypted and do not prevent others from hearing your transmission if they are on the same channel and sub-channel. They simply provide you with a quieter channel by preventing you from hearing transmissions that are not using the same code as you and are therefore not directed at you. Please refer below for the CTCSS Frequency Table and see page 25 for DCS Frequency Table..

CTCSS Frequency Table

CTCSS FREQ. No.	CTCSS FREQ. (Hz)	CTCSS FREQ. No.	CTCSS FREQ. (Hz)	CTCSS FREQ. No.	CTCSS FREQ. (Hz)	CTCSS FREQ. No.	CTCSS FREQ. (Hz)
1	67.000	**11**	97.400	**21**	136.500	**31**	192.800
2	71.900	**12**	100.000	**22**	141.300	**32**	203.500
3	74.400	**13**	103.500	**23**	146.200	**33**	210.700
4	77.000	**14**	107.200	**24**	151.400	**34**	218.100
5	79.700	**15**	110.900	**25**	156.700	**35**	225.700
6	82.500	**16**	114.800	**26**	162.200	**36**	233.600
7	85.400	**17**	118.800	**27**	167.900	**37**	241.800
8	88.500	**18**	123.000	**28**	173.800	**38**	250.300
9	91.500	**19**	127.300	**29**	179.900		
10	94.800	**20**	131.800	**30**	186.200		

Advanced Operations (cont.)

DCS

DCS (Digital Coded Squelch) is a digital extension of CTCSS. This Radio provides 61 extra, digitally coded, squelch codes that follow after the 38 CTCSS codes. CTCSS 1-38, followed by DCS 39-99. Please refer to page 25 for DCS Frequency Table.

Selecting CTCSS/DCS (Sub-channel) Codes

Follow the steps for selecting a sub-channel (CTCSS/DCS code) as desired:

1. First, select a desired channel either manually or automatically (see page 18-19 for more detailed instructions).
2. Next, press the press the menu **(M)** button twice and use the up **(▲)** and down **(▼)** buttons to select the desired CTCSS/DCS code.
3. Select off **("OF")** if you do not want to use a sub-channel using the up **(▲)** and down **(▼)** buttons on the keypad.
4. Press the PTT button when you have made your choice to exit out of the sub-channel menu.
5. Repeat the above steps with the other Radio, ensuring that the same channel and sub-channel is selected. You are now ready to communicate using a main channel and a sub-channel.
6. To change sub-channel number (CTCSS/DCS code) carry out the same steps again as above.

Important:

- To communicate between two or more radios, both the channel and CTCSS/DCS code selections must be the same.
- To communicate with other models and brands of radios, the actual radio frequency and CTCSS/DCS frequency must be matched.
- CTCSS/DCS code transmissions on emergency channels 5 and 35 are prohibited.

Advanced Operations (cont.)

DCS Frequency Table

CHANNEL No.	OCTAL CODE	CHANNEL No.	OCTAL CODE	CHANNEL No.	OCTAL CODE	CHANNEL No.	OCTAL CODE
39	023	**56**	125	**73**	245	**90**	412
40	025	**57**	131	**74**	251	**91**	413
41	026	**58**	132	**75**	261	**92**	423
42	031	**59**	134	**76**	263	**93**	431
43	032	**60**	143	**77**	265	**94**	432
44	043	**61**	152	**78**	271	**95**	445
45	047	**62**	155	**79**	306	**96**	464
46	051	**63**	156	**80**	311	**97**	465
47	054	**64**	162	**81**	315	**98**	466
48	065	**65**	165	**82**	331	**99**	503
49	071	**66**	172	**83**	343		
50	072	**67**	174	**84**	346		
51	073	**68**	205	**85**	351		
52	074	**69**	223	**86**	364		
53	114	**70**	226	**87**	365		
54	115	**71**	243	**88**	371		
55	116	**72**	244	**89**	411		

Advanced Operations (cont.)

Voice Activated Transmission (VOX)

The Radio is capable of voice activated transmission (VOX) with or without headset. In VOX mode, the Radio will transmit a signal automatically when it is activated by your voice or other sounds around you. VOX operation is not recommended if you plan to use your Radio in a noisy or windy environment. The use VOX mode ensure uneven letters both Radios are set to the same channel and sub-channel. Or alternatively, you can use this function in stand-by mode to ensure that you automatically pick up any random radio transmissions on your selected frequency in the area. If the radio picks up any transmissions, it will switch out of standby mode automatically. You can then transmit back just by speaking as long as your radio is nearby. You do not have to pick the radio up and manually press the PTT button.

Press the menu **(M)** button three times, the current voice activated transmission setting will flash on the display and the **VOX** symbol will also be displayed on the top of the display screen. The default setting will be displayed as "**OF"** (OFF).

1. Press the up **(▲)** or down **(▼)** buttons to set the voice activated transmission sensitivity level between 1 and 3, with 3 being the most sensitive.
2. To turn voice activated transmission mode off, follow the above steps and then select the "**OF"** option.
3. Press the PTT button to confirm and return to standby mode.

Advanced Operations (cont.)

Call Tone Setting

You can transmit call tone signals to alert other Radios. The Radio has 10 different call tones to choose from. To select the call tone, refer to the following instructions:

1. Press the menu **(M)** button four times the call tone **"CA"** icon will display and the current call tone number selection will be flashing.
2. Press the up **(▲)** or down **(▼)** buttons to change to another call tone.
3. Once you have made your selection, press the PTT button once to exit out of the menu. Your call tone signal will be saved.
4. Press the call **(C)** button briefly. The call tone will be transmitted on the selected channel.

Note: You cannot transmit another tone signal until one minute has elapsed.

Key Tone Setting

To enable or disable the key tone beep:

1. Press the menu **(M)** button five times and **"tO"** will be flashing on the LCD display.
2. Press the up **(▲)** or down **(▼)** buttons to enable the key tone beep or to disable it.
3. Press the PTT button to confirm your selection and return to the standby mode.

Roger Beep Tone Setting

A roger beep tone setting enables you to send a beep tone at the end of each transmission after every release of the PTT button. This will prompt any receiving unit that your transmission has ended. To set up the roger beep tone:

1. Press the menu **(M)** button six times and **"rO"** will be flashing.
2. Press the up **(▲)** or down **(▼)** buttons to enable **("ON")** or disable **("OF")** the roger beep.
3. Press the PTT button to confirm your selection and return to the standby mode.

Advanced Operations (cont.)

Repeater Function Setting

Repeater facility is a third party facility which is only available in some local areas and assists you in extending your communication range. Only use this function for extending your communication range when you know the channel of the repeater facility in your area. Repeaters are used to retransmit or relay your signal. Repeaters will extend the range of the Radio and overcome the shielding effect caused by solid obstructions. To activate repeater function.

1. Press the menu **(M)** button seven times and **"rP"** will be flashing.
2. Press the up **(▲)** or down **(▼)** buttons to enable **("ON")** or disable **("OF")** the repeater function.
3. Press the PTT button to confirm your selection and return to the standby mode.

Note: Channels 1-8 and 31-38, 41-48 and 71-78 are used as repeater channels with 750kHz offset. Channels 1-8 and 41-48 are used for mobile reception and channels 31-38 and 71-78 for mobile transmission. Only use this repeater function when a long distance communication via the local repeater facility is specifically required. Unless it is necessary, avoid operation on locally used repeater input channels (31-38 and 71-78) or locally used repeater receiving channels (1-8 and 41-48).

Advanced Operations (cont.)

Connecting a Headset (not included)

This Radio is equipped with a headset output which means you can connect a compatible headset (not included) to listen and talk through the headset.

- As soon as a headset is connected to the jack socket, the speaker on the Radio will deactivate.
- If the VOX function is activated (depending on the VOX sensitivity level) the Radio switches automatically to transmit.

Note: No headsets are included in this pack. Most generic headsets with **2.5mm connector** and in-built microphone will work with this product and can be purchased at good Computer and Electronic stores.

To Restore Default Setting

1. Turn the Radio off.
2. Press the power **(⏻)** button and the menu **(M)** button at the same time.
3. Once the LCD screen displays channel **"1"**, the Radio is reset.

Frequently Asked Questions

Problem	Solution
No power	• Ensure the battery pack is installed properly. • The battery pack may need to be recharged (see page 13).
Weak reception	• Press the up **(▲)** button to increase the volume. • The receiving signal may be weak and/or out of range. In this case, change to a new channel or change the sub-channel to increase reception. • Any obstructions such as buildings, trees, RF interference, electrical appliances will affect the performance of the transmission. Choose a relatively open free space to transmit or receive.
Cannot change channels	• Ensure the keypad lock has been turned off (see page 15). • If the Radio can not change channels, turn off the Radio and take out the battery pack. Re-insert and turn back on after 1 minute. • Recharge the battery pack if there is a low battery alert.
Limited range	• Recharge the battery pack if there is a low battery alert. • The maximum range will vary depending on terrain and environment. Open fields provide the maximum range while steel/concrete structures, heavy foliage and use in buildings and in vehicles may limit the range significantly. • Wearing the Radio close to the body, such as in a pocket or on a belt, will decrease the range. Change the location of the Radio.

Frequently Asked Questions (cont.)

Problem	Solution
Sound distortion problems	• If you are transmitting, speak in a clear and normal voice into the microphone from a distance of around 5-8cm with the antenna at approximately 45^{o} angle away from your head. • If you are receiving, set the volume to a comfortable level. • If the Radios are too close to each other, increase your distance; they must be at least 1.5m apart. • The Radios may be too far apart, or obstacles may interfere with transmission. The talk range is up to 5km in clear, unobstructed conditions.

Cleaning and Maintenance

- Disconnect the Radio from the power supply.
- The Radio will require “dusting” to keep it clean. Use a standard duster or dry microfibre cloth to remove the dust from the Radio.
- If the Radio does become soiled with anything other than dust on the exterior, clean the Radio by wiping over the surface with a slightly damp cloth and then polish dry with a soft cloth.

Note: Do not use detergents or abrasive cleaners, and do not allow moisture, water or other liquids to enter the Radio.

Storage

- Before packing the Radios and accessories away for storage in its original carton, ensure it is clean and free of dust.
- Store the Radio in a clean and dry place, out of children’s reach.

Cleaning and Maintenance (cont.)

- Do not place heavy objects on top during storage.
- Ensure you remove the battery pack from the Radios before storing the Radios and accessories away for long periods of time.

Important Information Concerning UHF CB Radio

The use of the Citizen Band radio service is licenced in Australia by the ACMA Radio communications (Citizens Band Radio Stations) Class Licence and in New Zealand by the Ministry of Economic Development New Zealand (MED). A General User Radio Licence for Citizens Band radio and operation is subject to conditions contained in those licences.

The class licence for users and equipment operating in the CB/PRS 477 MHz band has been amended. This radio meets the new 80 channel standard. In simple terms the same amount of spectrum is available; however, radio transceivers can now operate in a narrower bandwidth and hence use less spectrum. These radios are generally referred to as narrowband or 12.5 kHz radios. By using 12.5 kHz channel spacing instead of 25 kHz, the 40 channels originally allocated can now expanded to 80 channels thereby doubling the channel capacity and relieving congestion in the UHF CB/PRS band. Original 40 channel wide band Radios will continue to operate on the original 40 channels, however they will not be able to converse on the newer channels 41 – 80. The newer narrowband radios will be able to converse with all older 40 channel wide band radios on all channels 1 to 40 as well as the newer channels allocated from 41 to 80.

The mixing of narrowband and wide band radios in the same spectrum can cause some possible operating issues of interference and varying levels of received volume.

Important Information Concerning UHF CB Radio (cont.)

Possible Issues

When a new narrowband radio receives a transmission from an older wide band radio the speech may sound loud and distorted – simply adjust your radio volume for best performance. When an older wide band radio receives a signal from a new narrowband radio, the speech may sound quiet - simply adjust your radio volume for best performance. Depending on how close your receiving radio is to another transmitting radio, there can be interference from the transmitting radio if it is using a channel adjacent to the channel you are listening to. Simply try going up or down a few channels from the currently selected channel.

The above situations are not a fault of the radio but a symptom of operating wide band and narrowband radios in the same bandwidth. This possible interference will decrease over time as the population of wide band radios ages and decreases.

Further information and updates are available from the Australian Communications and Media Authority (ACMA) at: **www.acma.gov.au** and the Ministry of Economic Development (MED), Radio Spectrum Management at: **www.rsm.govt.nz**

Walkie Talkie / UHF Radio

Repair and Refurbished Goods or Parts Notice

Unfortunately, from time to time, faulty products are manufactured which need to be returned to the Supplier for repair.

Please be aware that if your product is capable of retaining user-generated data (such as files stored on a computer hard drive, telephone numbers stored on a mobile telephone, songs stored on a portable media player, games saved on a games console or files stored on a USB memory stick) during the process of repair, some or all of your stored data may be lost. We recommend you save this data elsewhere prior to sending the product for repair.

You should also be aware that rather than repairing goods, we may replace them with refurbished goods of the same type or use refurbished parts in the repair process.

Please be assured though, refurbished parts or replacements are only used where they meet ALDI's stringent quality specifications.

If at any time you feel your repair is being handled unsatisfactorily, you may escalate your complaint. Please telephone us on 1300 777 137 or write to us at:

UNCLE BILL'S AUSTRALIA PTY LTD
PO Box 6292
Silverwater NSW 1811 Australia

service@unclebills.com.au
1300 777 137
Opening Hours - 9:00am - 4:30pm (Mon-Fri),
9:00am - 3:00pm (Sat)

Responsible Disposal

At the end of its working life, do not throw this product out with your household rubbish. Electrical and electronic products contain substances that can have a detrimental effect on the environment and human health if disposed of inappropriately. Observe any local regulations regarding the disposal of electrical consumer goods and dispose of it appropriately for recycling. Contact your local authorities for advice on recycling facilities in your area.

Please keep the original packaging carton and materials in a safe place. It will help to prevent any damage if the product needs to be transported in the future. In the event it is to be disposed of, please recycle all packaging material where possible.

If you require another copy of this instruction manual please contact service@unclebills.com.au to obtain an electronic copy.

The Radio has been fully tested and meets all requirements as set out by the below testing standards:

AS/NZS CISPR 22
AS/NZS 4365

Specification Table

MODEL:	ET0195
COLOUR:	Black
DIMENSIONS:	8.5 x 11 x 13.5cm
NET WEIGHT:	280g
AC/DC ADAPTOR CHARGER:	100-240V~ 50/60Hz 0.3A
OUTPUT:	7.5V ⎓ 500mA
BATTERY:	3.6V ⎓ NiMH 600mAh Rechargeable Battery Pack (each radio)
WARRANTY:	1 Year
VERSION NO:	1.0
ISSUE DATE:	24th July, 2017