

IMPORTANT!

User Upgrade to 77 Channel!

**This Narrowband UHF CB radio currently
operates on 40 UHF CB Channels
- from *Channel 01* to *Channel 40*.**

**Soon the ACMA will permit operation
on additional channels
- from *Channel 41* to *Channel 80*.
A total of 77 usable channels.**

As soon as the mandatory ACMA standard is published Uniden will provide, free of charge, user information to allow all 77 channels to operate.

**Uniden expects the information
to be available about April 2011.**

The user information will be published on the Uniden website.

www.uniden.com.au for Australia

www.uniden.co.nz for New Zealand

Please check for the latest information.

Uniden®

UH7700NB **Mini Compact** **UHF Mobile Radio**

For more exciting new products please visit our website:

Australia: www.uniden.com.au

New Zealand: www.uniden.co.nz

OWNER'S MANUAL

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Introduction

The Uniden UH7700NB is designed to provide you with years of trouble free service. Its rugged components and materials are capable of withstanding harsh environments. Please read this Operating Manual carefully to ensure you gain the optimum performance of the unit.



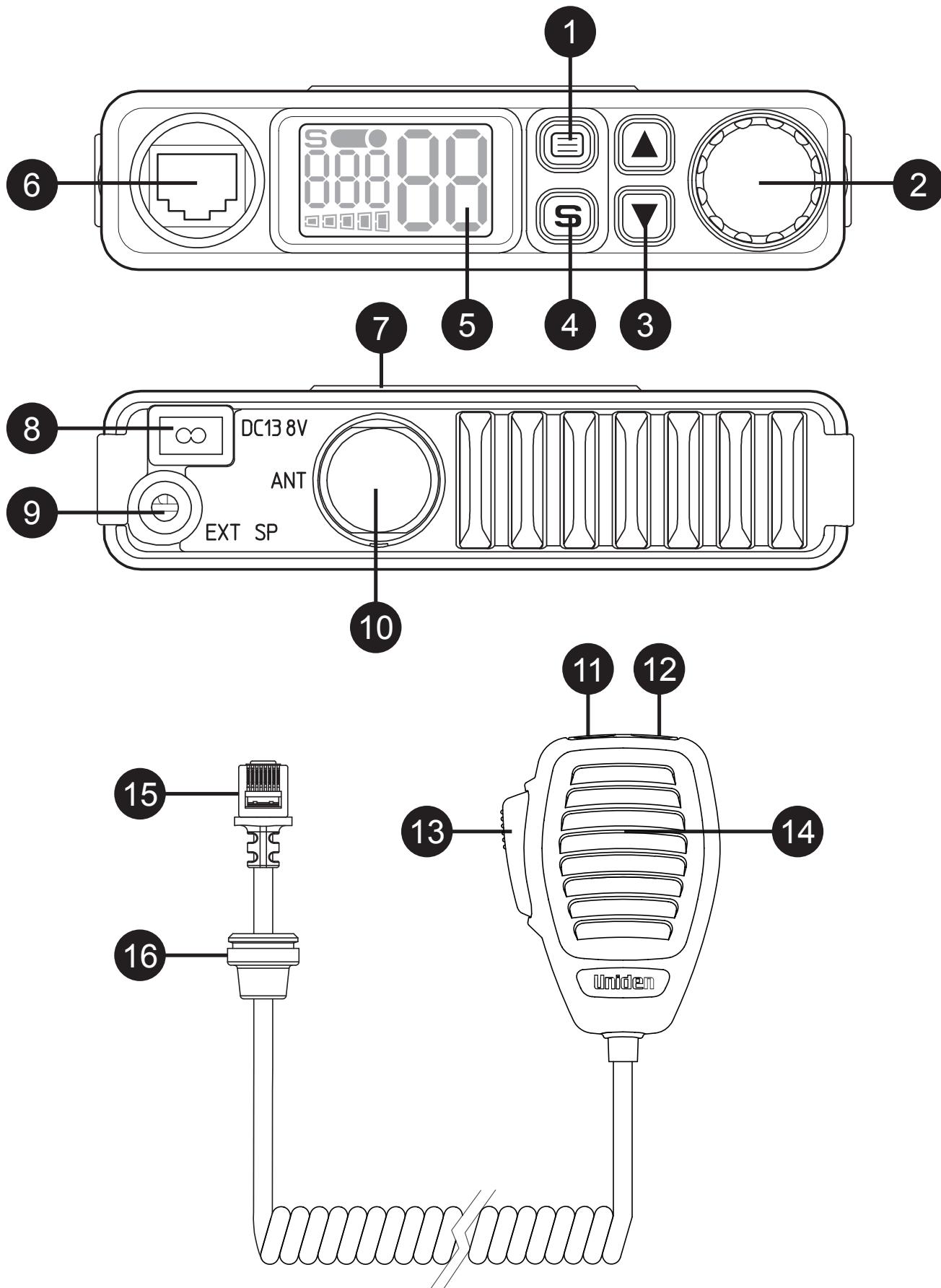
NOTE

The citizen band radio service is licenced in Australia by ACMA Radio-communications (Citizen Band Radio Stations) Class Licence and in New Zealand by MED General User Licence for Citizen Band Radio and operation is subject to conditions contained in those licenses.

Features

- Narrow Band (NB) Radio
 - Communicate with up to 77 Channels in the UHF CB Band*
 - 12V DC Power Input
 - Built-in AVS Circuitry†
 - Transmission power 5W
 - LCD display
 - Signal strength and RF power (S/RF) meter
 - Instant channel programming
 - One touch Instant channel recalling
 - Selectable scanning type from group scan (GS) and open scan (OS).
 - Scan channel memory On/Off function separately divided into OS and GS
 - Monitor On/Off function
 - Duplex capability*
 - Key Beep On/Off function
 - Rotary Channel select knob
 - Busy Channel lock-out function
 - Roger beep function On/Off
 - 5 different CALL Tones
 - 38 built in CTCSS (Continuous Tone Coded Squelch System) codes and 104 DCS (Digital Coded Squelch) are selectable
 - Auto squelch detection threshold control ("oF", "1" ~ "9")
 - Volume control ("oF", "1" ~ "40")
 - Power On/Off control SW
 - Optional External Speaker
 - Flip LCD function
 - 7 LCD/Key Backlight Colour Options
 - 4 LCD/Key Backlight Brightness Levels
 - Under and over voltage alert function
- * Refer to p.23 - p.25 for channel information
- † AVS - Automatic Volume Stabilizer detects and manages incoming audio to comparable levels.

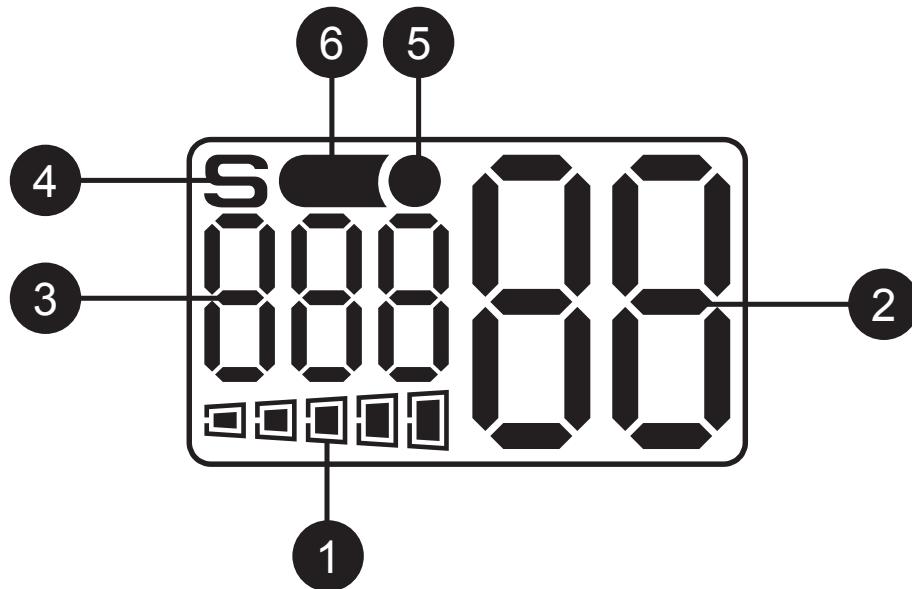
Controls & Connectors



Controls & Connectors

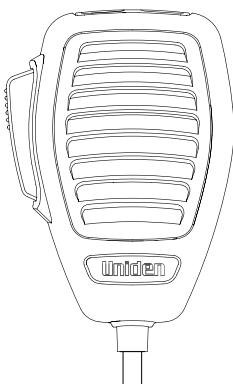
- 1  Menu Button / Monitor function (press & hold)
- 2 PUSH control - Squelch Select (press) /Power On/Off (press & hold)
- 3  - Volume Up/Down control
- 4  Channel Scan button / Scan Memory (press & hold)
- 5 Liquid Crystal Display (LCD)
- 6 MIC - Front Microphone Jack
- 7 Speaker
- 8 Power Input Connection (13.8VDC)
- 9 **EXT SP** - External Speaker Jack
- 10 UHF Antenna Connection
- 11 **CALL** - Call Tone Button
- 12 **INST** - Instant Channel Button
- 13 **PTT** - Push To Talk Button
- 14 MICROPHONE
- 15 RJ45 type plug
- 16 Front MIC Jack Cover

Indicators



- 1 - Receive Signal Level (Channel Busy Indicator)
-
- 2 - Channel Number / Menu Item Setting
- 3 - CTCSS/DCS Code number / Menu Item
- 4 - Scan mode
- 5 - Channel in Memory
- 6 - Instant Channel

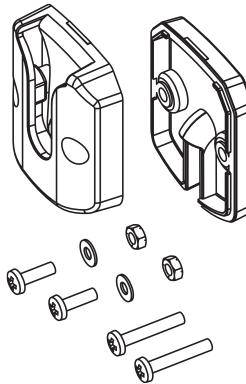
Included with your UH7700NB Radio



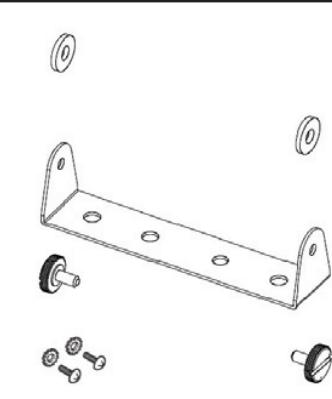
Standard Microphone



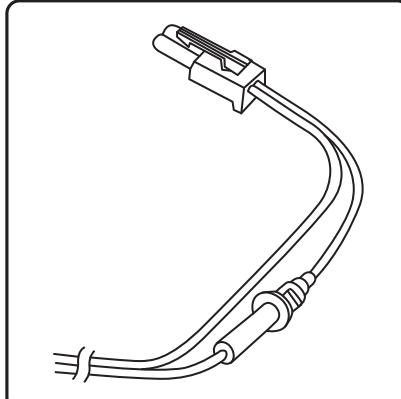
Owner's Manual



Microphone Hanger
with screws, washers



Mounting Bracket with
mounting screws



DC Power Cord
with fuse

Optional Accessories:

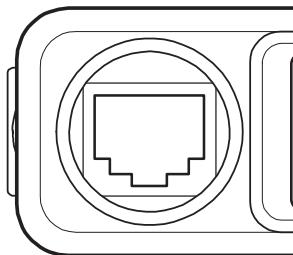
- BTMIC kit
- UHF Antenna
- External Speaker

Visit the UH7700NB page on the website for more information on the availability of optional accessories;

www.uniden.com.au for Australia

www.uniden.co.nz for New Zealand

Connecting the Microphone



MIC Jack

Push the MIC plug at the end of the microphone into the MIC jack until the connection locks into place. Gently tug the MIC cord to test that the connection is locked. Use the rubber cover which is on the MIC cord to seal the MIC jack entry from dust.

Disconnecting the MIC from the MIC Jack

Pull back the rubber cover and move it down along the cord. Using the flat blade of a screwdriver or similar object carefully push the lock tab of the MIC plug towards the MIC cord and at the same time tug on the MIC cord to draw back the MIC plug.

Mounting the MIC Hanger

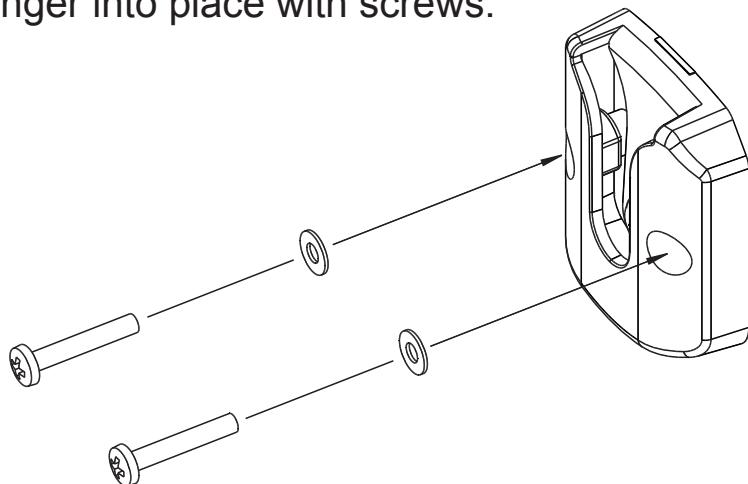
The Microphone Hanger comes in two parts. How and where you mount the MIC hanger will determine which parts to use.

Conventional Mounting with Screws

Use the front part of the MIC Hanger only.

Locate a suitable mounting position and mark and drill two 3mm holes.

Fix the MIC Hanger into place with screws.



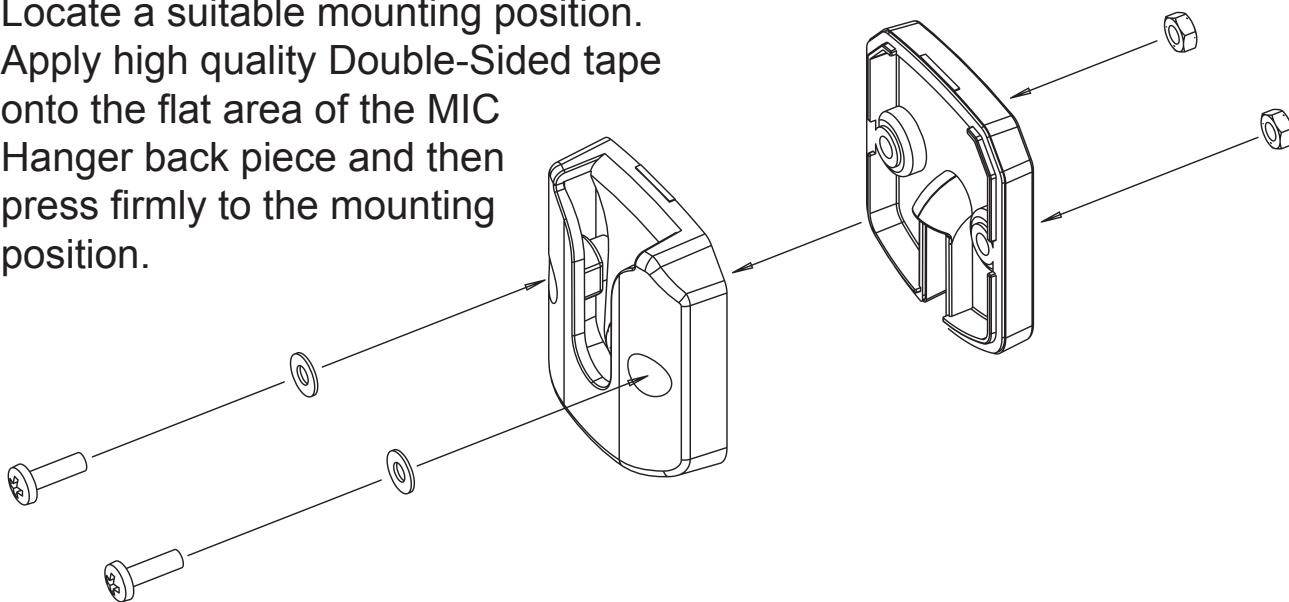
Conventional Mounting with Double Sided Tape (not supplied)

High quality Double-Sided tape can be found at good retail stores.

Secure the front and back pieces of the MIC Hanger using the supplied binding screws.

Locate a suitable mounting position.

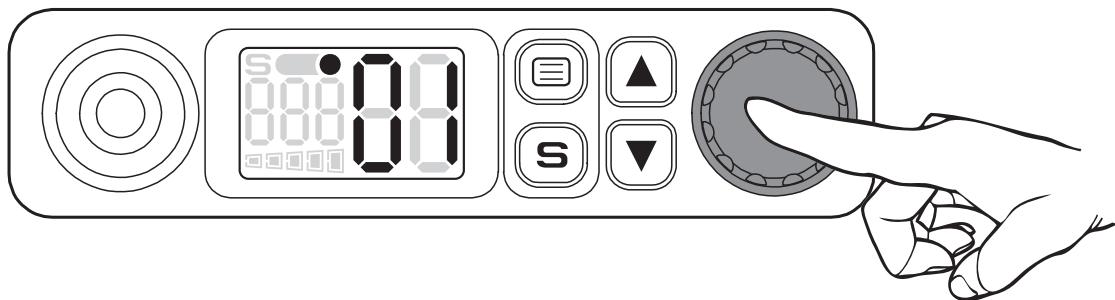
Apply high quality Double-Sided tape onto the flat area of the MIC Hanger back piece and then press firmly to the mounting position.



Operation

Turning on the Power

Press and hold the Power/Channel Selector.



Low-Voltage/High-Voltage Alert



NOTE

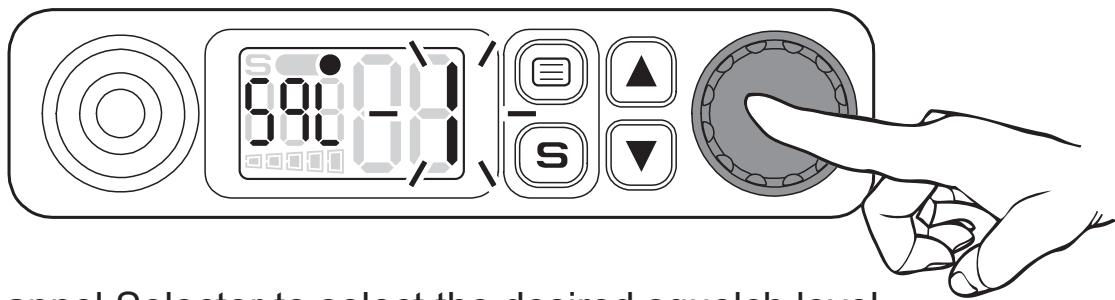
If the power supply voltage exceeds 18VDC, an alert tone sounds and **dc HI** flashes for 5 seconds. The power source must not exceed 25VDC otherwise permanent damage may occur to your radio, which may not be covered by the manufacturer's warranty.

If the input voltage falls below 10VDC, **dc Lo** flashes for 5 seconds. The power turns off automatically if voltage falls below 8.5VDC.

Switch your UH7700NB OFF and disconnect it from the power source, before locating the cause of the power supply problem.

Setting the Squelch Level

Press the Power/Channel Selector momentarily. **SqL** shows and the current squelch level will flash.



Turn the Channel Selector to select the desired squelch level.

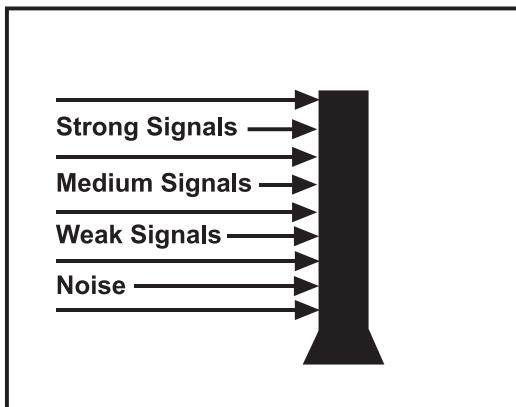
Operation

- oF(off) - squelch open.
- 1 - max sensitivity (min squelch)
- 5 - med sensitivity (med squelch)
- 9 - min sensitivity (max/tight squelch)

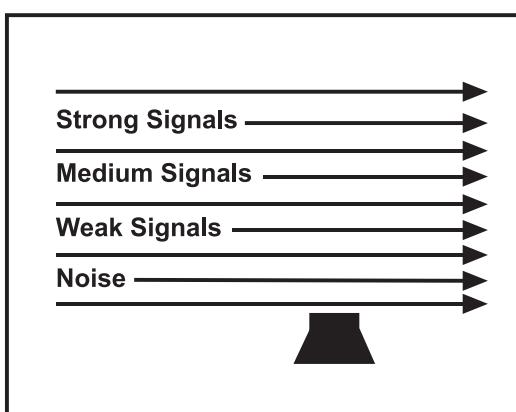


NOTE

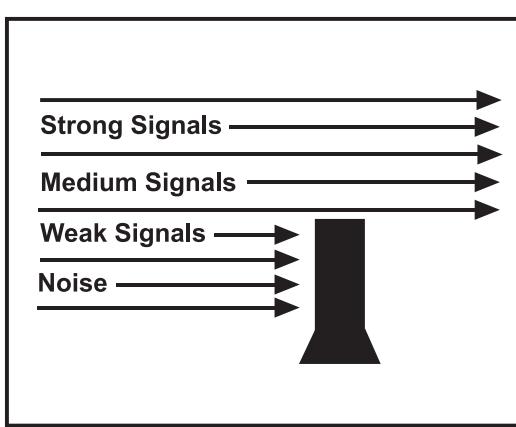
You must select a channel which is not in use before setting the SQUELCH control. (see p.12 for "Selecting a Channel").



Think of the squelch control as a gate. If you increase the squelch level to maximum it raises the 'Squelch gate' so only the strongest signals get through.



If you decrease the squelch level to minimum it lowers the 'Squelch Gate' to the extent that weak signals can get through.

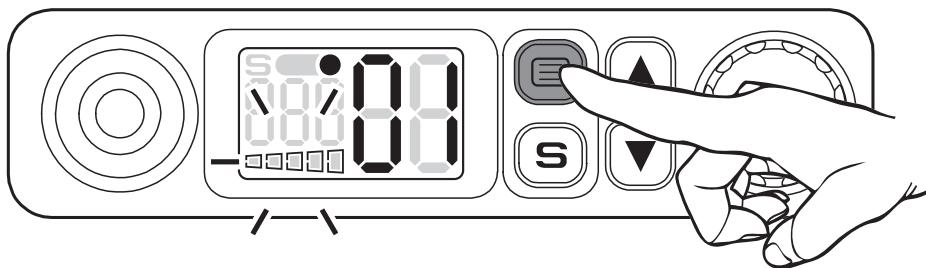


If unwanted weak and noisy signals are getting through increase the squelch level ('Squelch Gate') to a medium level. Now only medium and strong signals get through.

Operation

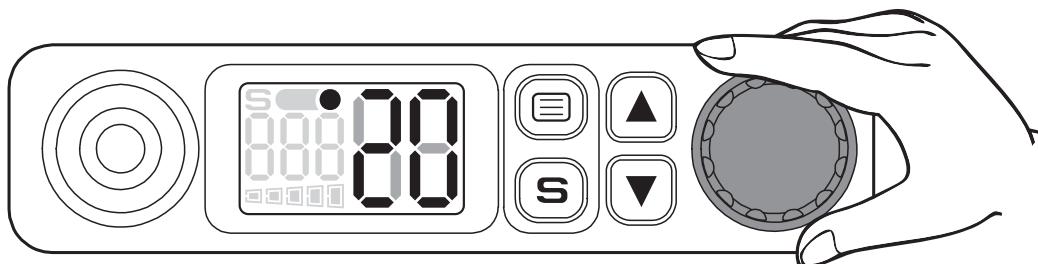
Monitor

Press and hold  to open the squelch and receive all weak signals.
Press and hold  again to cancel.



Selecting a Channel

Turn the Channel Selector to select the desired channel.



For your reference a list of the available channels, corresponding frequencies and guidelines for their use and selection is printed on page 23. For Australia, Channels 05 and 35 are reserved for Emergency Calls.

Programming the Instant Priority Channel

Turn the Channel Selector to select the Priority Channel you prefer.

Press and hold **[INST]** on the microphone for 2 seconds to store the new setting.

The  icon appears.



Operation

Recalling the Instant Channel

Momentarily press [**INST**] on the microphone at any time to return to the Instant Channel. Press [**INST**] again to return to the previous channel.

Transmitting

The UHF CB Radio uses up to 77 UHF-CB Channels.



NOTE

For your reference a list of the available channels, corresponding frequencies and guidelines for their use and selection is printed on page 23. For Australia, Channels 05 and 35 are reserved for Emergency Calls.

Select the desired channel. Press the microphone's PTT button 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.

Call Function

Press [**CALL**] on the microphone. A three second ringing tone will be transmitted. You may select from 5 types of tones (see p.18 for "Selecting the Call tone").



NOTE

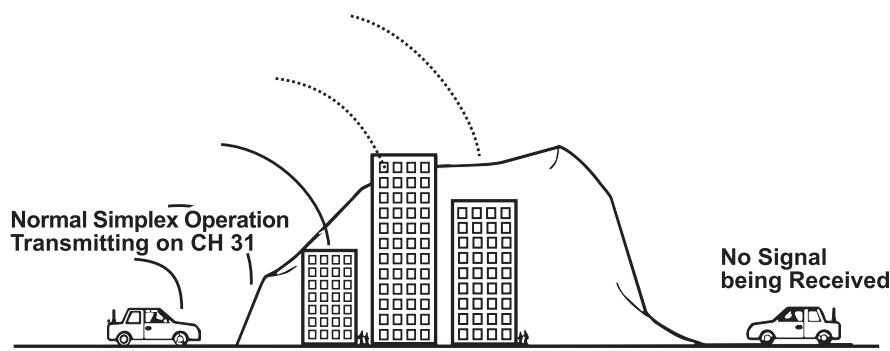
Current regulations require calling tones to be restricted to one transmission per minute. If a second transmission is attempted within one minute then an error tone will sound.

Using Repeater Channels

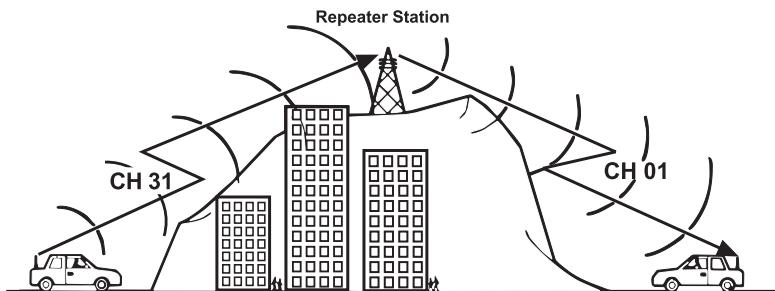
UHF CB Repeaters are used to retransmit or relay your signal. Repeaters will extend the range of your radio and overcome the shielding effect caused by solid obstructions. In normal Simplex operation, your radio transmits on one particular frequency and receives on that same frequency.

If there is a barrier that partially blocks your transmitted signal, the probability of another radio receiving the signal is very slim. Hills, tall buildings, metallic structures,...etc tend to act as a screen between radios.

Operation



Standard Operation without the aid of a Repeater station.



Operation with the aid of a Repeater Repeater Station (Duplex).

The signal coming from your radio is received by the Repeater Station and the re-transmitted at the same time on another channel. This operation is called “Duplexing”.

For example,

CH01 on Duplex Mode will Receive on CH01 but Transmit on CH31
CH02 on Duplex Mode will Receive on CH02 but Transmit on CH32
etc...

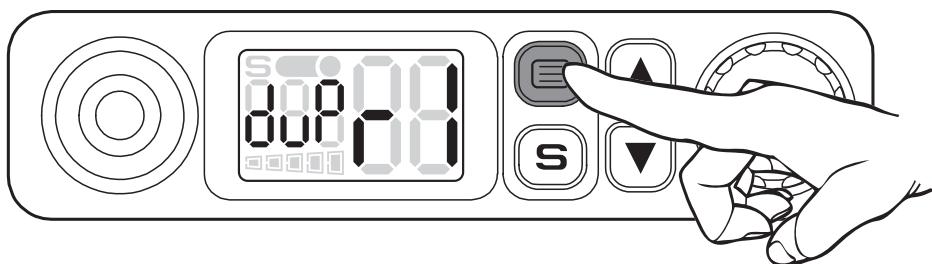
If you transmit on CH01 Duplex mode, you are actually transmitting on CH31 the repeater station down-converts your signal and retransmits on CH01.

Operation

Operating the UHF CB Radio in Duplex Mode

For this example we are adopting CH01 as the channel being used in your area for repeater use.

1. Press  2 times. The duplex setting flashes.
2. Turn the Channel Selector or press  /  to change the setting between simplex and duplex (“r” for repeater channels 01 - 08 or “n” for repeater channels 41 - 48).



3. Press  to store the setting.
4. Press and hold  to save & exit the menu mode. Only channels 01 - 08 and 41 - 48 are available for Duplex.



NOTE

Check with your local Retailer for information on available repeaters.

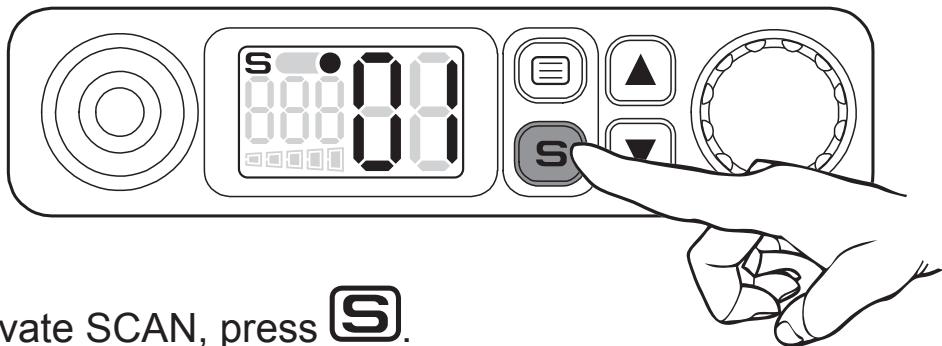
Scanning

The scan feature allows you to search for active channels automatically.

The UH7700NB has two types of scanning; Open Scanning (OS) and Group Scanning (GS), to give you flexibility and allow you to use the radio more effectively.

1. Press  and Scanning starts. The  icon appears. The scan direction can be changed at any time by rotating the channel selector left or right.

Operation



2. To deactivate SCAN, press **S**.

Open Scan (OS) Mode

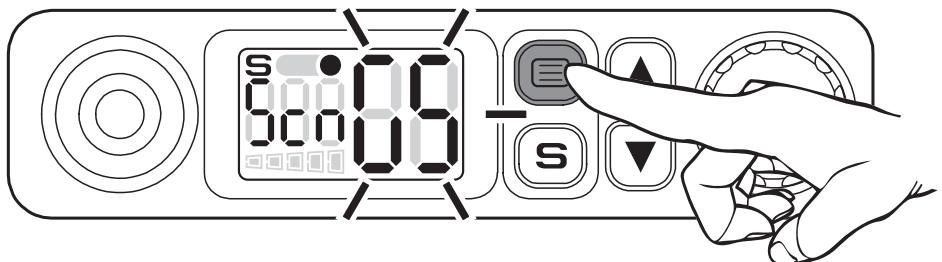
Allows continuous scanning of all selected channels. If an active channel is found, scanning will stop on that channel. If the received signal ceases, the unit will wait 3 seconds for the signal to return, otherwise scanning resumes. After transmission in scan mode, the unit will wait 20 seconds for the signal to return, otherwise scanning resumes. To skip the active channel, turn the Channel Selector.

Group Scan (GS) Mode & Priority Watch

Includes the accessory feature, Priority Watch, which allows you to monitor the Instant Priority Channel while scanning.

To use GS Mode Scanning:

1. Press **MENU** 3 times. **Scn** shows and the oS/GS setting flashes.
2. Turn the Channel Selector or press **▲** / **▼** to change the setting to GS.
3. Press **MENU** to store the setting.
4. Press and hold **MENU** to save & exit the menu mode.



GS Scanning checks the Instant Priority Channel for activity every 1.5 seconds.

Operation

If the Priority Channel becomes active the radio will stay on that channel for as long as the signal is present. If the received signal ceases, Priority Scanning continues after 3 seconds. If scanning stops on a channel which is not a Priority Channel, the radio will continue monitoring the Priority Channel for activity while listening to the active one.

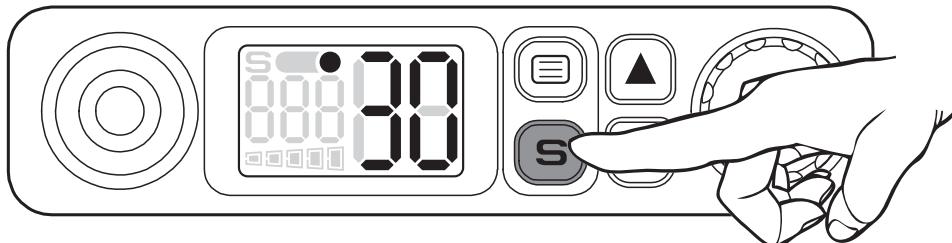
To deactivate SCAN, press the  button.

Add/Remove Channels from SCAN Memory

Select which Scanning Mode you wish to use; OS or GS.

Select the channel you want to store.

Press and hold  to store. The  icon appears and a short tone is heard. To remove the channel from SCAN memory, press and hold  once more. The  icon disappears.

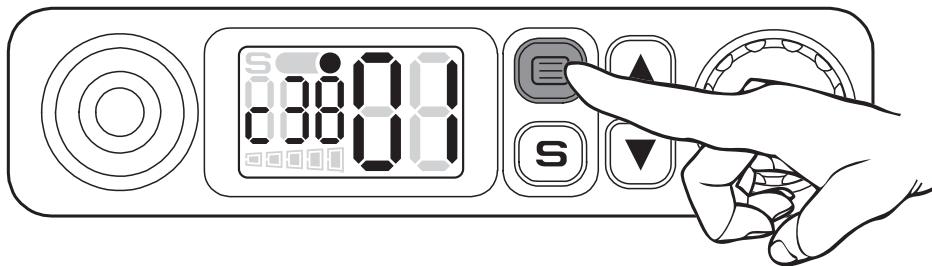


CTCSS (Continuous Tone Coded Squelch System) & DCS (Digital Coded Squelch)

Turn the Rotary Channel Selector to the desired channel to use CTCSS or DCS.

1. Press  1 time. CTCSS/DCS setting appears.
2. Turn the Channel Selector or press  /  to select the desired CTCSS code 01 - 38 or DCS code 01 - 104 (code 100 - 104 is represented by o0 - o4). To turn off CTCSS/DCS select the **oF** code.
3. Press  to store the setting.
4. Press & hold  to save & exit menu mode.
The CTCSS/DCS code displays for the selected channel.

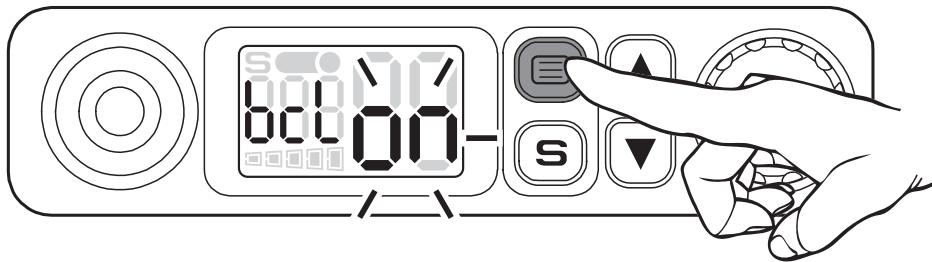
Operation



Busy Channel Lockout

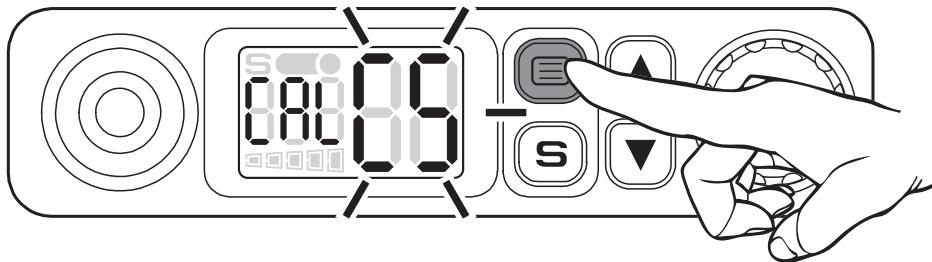
If the channel is already in use, you can prevent the UHF CB Radio from transmitting . This is particularly important when using CTCSS/DCS.

1. Press 4 times. The BCL setting flashes.
2. Turn the Channel Selector or press / to change the setting between ON or OFF.
3. Press to store the setting.
4. Press and hold to save & exit menu mode.



Selecting the Call tone

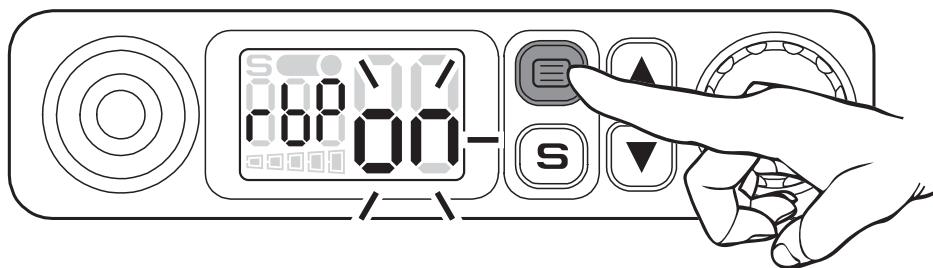
1. Press 5 times. The call tone setting flashes.
2. Turn the Channel Selector or press / to change the setting between 1, 2, 3, 4 and 5.
3. Press to store the setting.
4. Press and hold to exit from the menu mode.



Operation

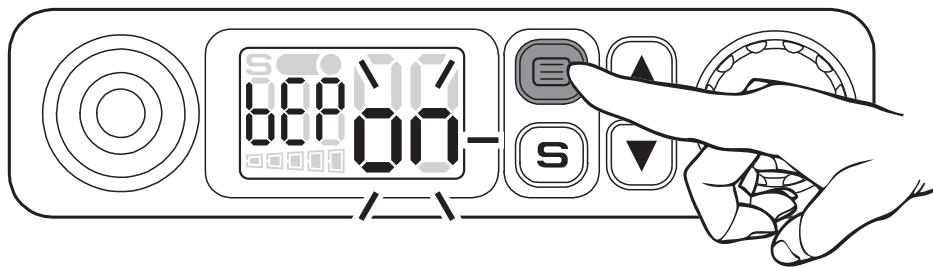
Roger Beep

1. Press  6 times. The roger beep setting flashes.
2. Turn the Channel Selector or press  /  to change the setting between ON or OFF.
3. Press  to store the setting.
4. Press and hold  to save & exit menu mode.



Beep On/Off

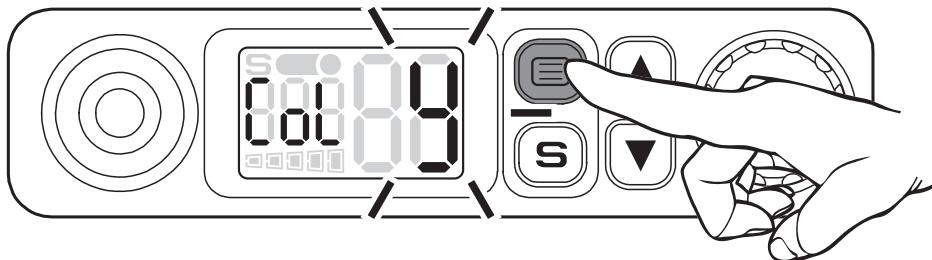
1. Press  7 times. The Beep setting flashes.
2. Turn the Channel Selector or press  /  to change the setting between ON or OFF.
3. Press  to store the setting.
4. Press and hold  to save & exit menu mode.



Backlight Colours

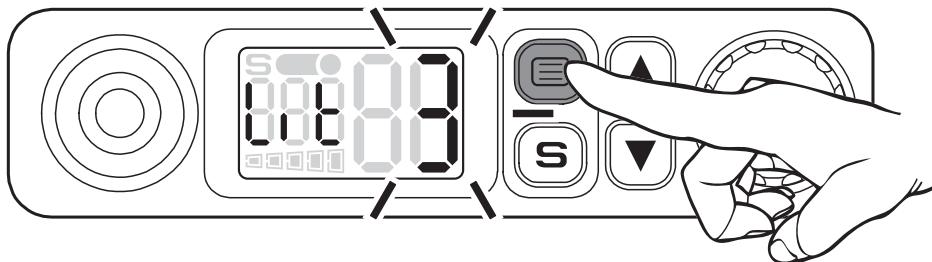
1. Press  8 times. The Backlight setting flashes.
2. Turn the Channel Selector or press  /  to change the setting between Blue, Red, Purple(magenta), Green, Cyan, Yellow and Clear (white).
3. Press  to store the setting.
4. Press and hold  to exit from the menu mode.

Operation



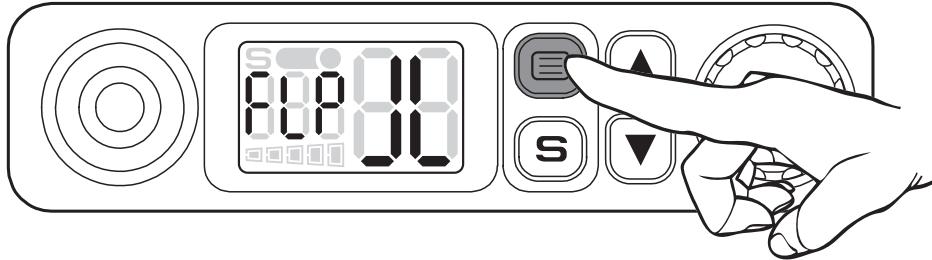
Backlight Brightness

1. Press 9 times. The Backlight Brightness setting flashes.
2. Turn the Channel Selector or press / to change the setting between Off (oF), 1(Lo), 2(mid) and 3(Hi).
3. Press to store the setting.
4. Press and hold to save & exit menu mode.



LCD Flip

1. Press 10 times. The Flip setting flashes.
2. Turn the Channel Selector or press / to change the flip orientation.
3. Press to store the setting.
4. Press and hold to save & exit menu mode.



CTCSS codes table

Code No.	Frequency (Hz)	Code No.	Frequency (Hz)
“oF”	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	223.6
17	118.8	37	241.8
18	123.0	38	250.3
19	127.3		

DCS codes table

Code No.	DCS Code (Octal)	Code No.	DCS Code (Octal)	Code No.	DCS Code (Octal)
1	023	36	223	71	445
2	025	37	225	72	446
3	026	38	226	73	452
4	031	39	243	74	454
5	032	40	244	75	455
6	036	41	245	76	462
7	043	42	246	77	464
8	047	43	251	78	465
9	051	44	252	79	466
10	053	45	255	80	503
11	054	46	261	81	506
12	065	47	263	82	516
13	071	48	265	83	523
14	072	49	266	84	526
15	073	50	271	85	532
16	074	51	274	86	546
17	114	52	306	87	565
18	115	53	311	88	606
19	116	54	315	89	612
20	122	55	325	90	624
21	125	56	331	91	627
22	131	57	332	92	631
23	132	58	343	93	632
24	134	59	346	94	654
25	143	60	351	95	662
26	145	61	356	96	664
27	152	62	364	97	703
28	155	63	365	98	712
29	156	64	371	99	723
30	162	65	411	100 (do0)	731
31	165	66	412	101 (do1)	732
32	172	67	413	102 (do2)	734
33	174	68	423	103 (do3)	743
34	205	69	431	104 (do4)	754
35	212	70	432		

UHF Channel Guidelines

Always listen on a channel (or observe the receive signal level meter) to ensure it is not already being used before transmitting.

Channels 5 and 35 are used for emergency channels.
CTCSS and DCS will not operate on these channels.

Please follow these guidelines for channel use in Australia:

- Channels 05 and 35 are Emergency Channels.
- Channel 11 is a Calling Channel.
- Channels 22 and 23 are for telemetry and telecommand applications and TX is inhibited on these channels.



NOTE

General communication is accepted on all other channels with these guidelines:

- Channel 40 - road channel (Australia).
- Channels 01-08 (and 31-38), and Channels 41-48 (and 71-78) are repeater channels.

Important information - 80 Channel UHF CB channel expansion

To provide all users additional channel capacity within the UHF CB Band. The ACMA will change the majority of the current wideband 40 channel use to narrowband channel use. This allows for additional channels to be added, up to 80 (77 usable) Channels.

This simply means that the new narrowband radio you have purchased will have more channels than older radios. Please refer to the guidelines above and the channel chart for further channel information.

A list of currently authorised channels can also be obtained from the ACMA website in Australia and the MED website in New Zealand.

Interference / Poor Audio



NOTE

When a new narrowband radio receives a signal from an older wideband radio the speech may sound loud - however the UH7700NB's built-in AVS (Automatic Volume Stabilizer) circuitry will detect and manage incoming audio to comparable levels.

Narrowband radios operating on CH41 - CH80 may encounter interference from a nearby wideband radios transmitting on high power on an adjacent channel (frequency).

When an older wideband radio receives a signal from a new narrowband radio the speech may sound quiet - the wideband radio user simply adjusts their radio volume for best performance.

The above situations are not a fault of the radio but a symptom of mixed wideband and narrowband radios in current use. It is expected that as older wideband radios are phased out this issue will be eliminated.

UHF CB Channels & Frequencies

CH No.	Simplex Mode Transmit / Receive Frequency (MHz)	Duplex Mode Transmit Frequency (MHz)	CH No.	Simplex Mode Transmit / Receive Frequency (MHz)
1	476.425	477.175 (CH31)	21	476.925
2	476.450	477.200 (CH32)	22	476.950 (RX only)
3	476.475	477.225 (CH33)	23	476.975 (RX only)
4	476.500	477.250 (CH34)	24	477.000
5	476.525	477.275 (CH35)	25	477.025
6	476.550	477.300 (CH36)	26	477.050
7	476.575	477.325 (CH37)	27	477.075
8	476.600	477.350 (CH38)	28	477.100
9	476.625		29	477.125
10	476.650		30	477.150
11	476.675		31	477.175
12	476.700		32	477.200
13	476.725		33	477.225
14	476.750		34	477.250
15	476.775		35	477.275
16	476.800		36	477.300
17	476.825		37	477.325
18	476.850		38	477.350
19	476.875		39	477.375
20	476.900		40	477.400

UHF CB Channels & Frequencies

CH No.	Simplex Mode Transmit / Receive Frequency (MHz)	Duplex Mode Transmit Frequency (MHz)	CH No.	Simplex Mode Transmit / Receive Frequency (MHz)
41	476.4375	477.1875 (CH 71)	61	N/A (guard CH)
42	476.4625	477.2125 (CH 72)	62	N/A (guard CH)
43	476.4875	477.2375 (CH 73)	63	N/A (guard CH)
44	476.5125	477.2625 (CH 74)	64	477.0125
45	476.5375	477.2875 (CH 75)	65	477.0375
46	476.5625	477.3125 (CH 76)	66	477.0625
47	476.5875	477.3375 (CH 77)	67	477.0875
48	476.6125	477.3625 (CH 78)	68	477.1125
49	476.6375		69	477.1375
50	476.6625		70	477.1625
51	476.6875		71	477.1875
52	476.7125		72	477.2125
53	476.7375		73	477.2375
54	476.7625		74	477.2625
55	476.7875		75	477.2875
56	476.8125		76	477.3125
57	476.8375		77	477.3375
58	476.8625		78	477.3625
59	476.8875		79	477.3875
60	476.9125		80	477.4125

Warranty

UNIDEN UH7700NB Mini Compact UHF Mobile Radio



NOTE

Please keep your sales docket as it provides evidence of warranty.

Important: Evidence of original purchase is required for warranty service.

Warrantor: Uniden Australia Pty Limited
A.B.N. 58 001 865 498
Uniden New Zealand Limited

Warranty is only valid in the original country of purchase.

ELEMENT OF WARRANTY: Uniden warrants to the original retail owner for the duration of this warranty, its UH7700NB (herein after referred to as the Product), to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original retail owner only, shall terminate and be of no further effect THREE (3) years after the date of original retail sale. This warranty will be deemed invalid the product is;

- (A) Damaged or not maintained as reasonable and necessary,
- (B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden,
- (C) Improperly installed,
- (D) Repaired by someone other than an authorized Uniden Repair Agent for a defect or malfunction covered by this warranty,
- (E) Used in conjunction with any equipment or parts or as part of a system not manufactured by Uniden, or
- (F) Where the Serial Number label of the product has been removed or damaged beyond recognition.

Warranty only valid in the country of original retail/sale.

PARTS COVERED: This warranty covers for three (3) years, the Product.

Warranty

STATEMENT OF REMEDY: In the event that the Product does not conform to this warranty at any time while this warranty is in effect, the warrantor at its discretion, will repair the defect or replace the Product and return it to you without charge for parts or service. This warranty does not provide for reimbursement or payment of incidental or consequential damages.

This EXPRESS WARRANTY is in addition to and does not in any way affect your rights under the TRADE PRACTICES ACT 1974 (Cth) (Australia) or the CONSUMER GUARANTEES ACT (New Zealand).

PROCEDURE FOR OBTAINING PERFORMANCE OR WARRANTY: In the event that the product does not conform to this warranty, the Product should be shipped or delivered, freight pre-paid, with evidence of original purchase (e.g. a copy of the sales docket), to the warrantor at:

**UNIDEN AUSTRALIA
PTY LIMITED**

Service Division
345 Princes Highway,
Rockdale, NSW 2216
Fax (02) 9599 3278

www.uniden.com.au

**UNIDEN NEW ZEALAND
LIMITED**

Service Division
150 Harris Road,
East Tamaki, Manukau 2013
Fax (09) 274 4253

www.uniden.co.nz

THANK YOU FOR BUYING A UNIDEN PRODUCT.

Uniden®

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UTZZ01945ZZ(0)

Uniden®

uh710sx

uh710sx-2

uh720sx

uh720sx-2

OWNER'S MANUAL

WARNING!



The citizen band radio service is licenced in Australia by ACMA Radio-communications (Citizen Band Radio Stations) Class Licence and in New Zealand by MED General User Licence for Citizen Band Radio and operation is subject to conditions contained in those licenses.



It is illegal to operate this radio transceiver outside of Australia and New Zealand.



Do not plug in any AC Adapter plug into the EXT. SPKR/MIC (SM-065) phone jack.

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INTRODUCTION

The uh710sx/uh720sx UHF CB radio is compact, rugged and fits easily in your hand. This hand held UHF radio will give you consistent, outstanding performance in virtually all conditions and situations. To ensure that you get the most from the uh710sx/uh720sx's features, please read this operating guide carefully before using the unit.



Radio images in this manual show uh720sx, however the display indicators and keys are the same for the uh710sx.

Features

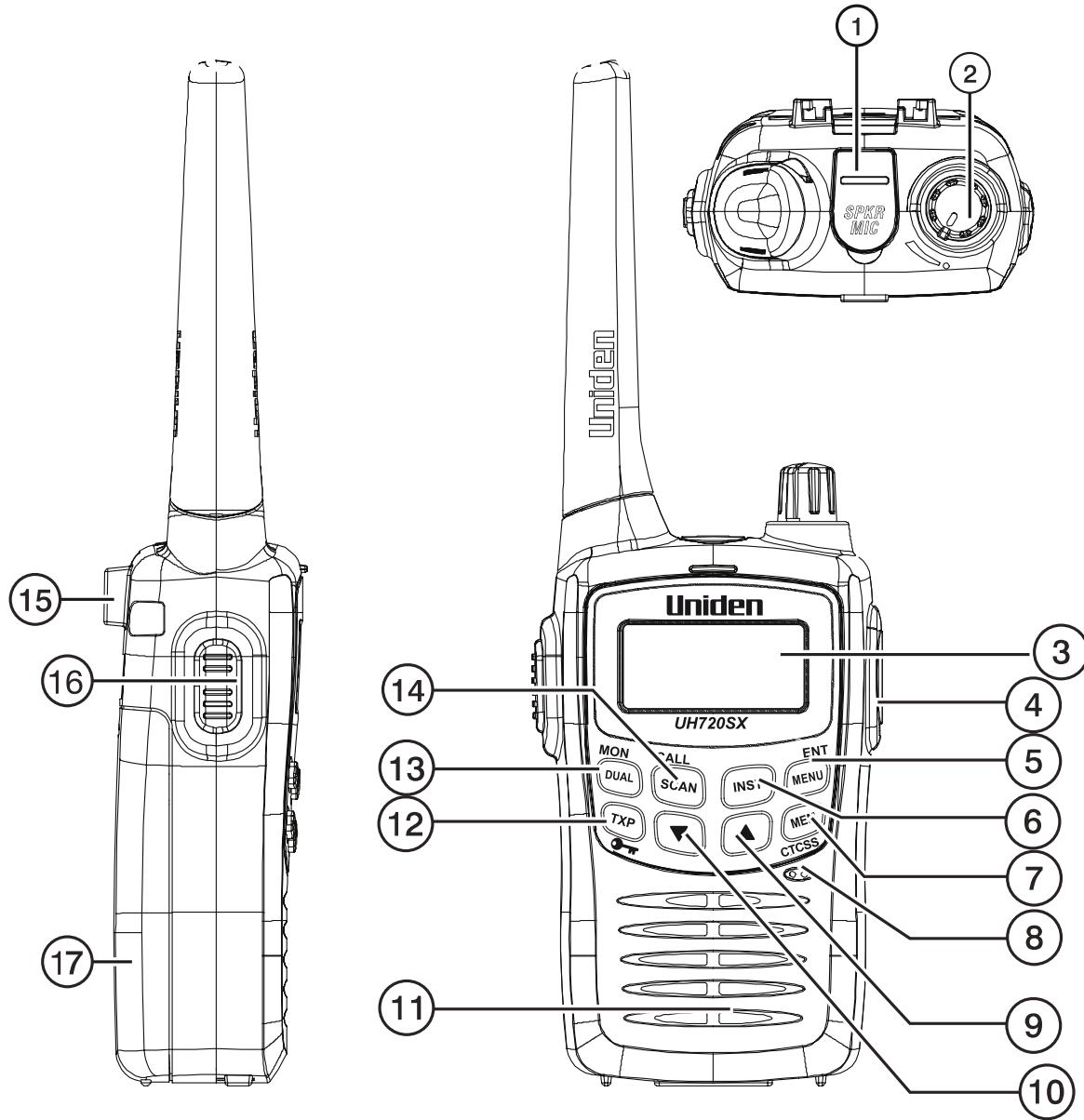
- Transmit 38 UHF-CB channels*
- Receive 40 UHF-CB channels
- TX output power:
 - uh710sx - 0.1W / 0.5W / 1.0W
 - uh720sx - 0.1W / 0.5W / 2.0W
- Up to 10 km + range**
- LCD display
- Battery level indicator
- Low Battery Alert
- AA Battery Compatible
(Rechargeable or optional Alkaline)
- Battery Power Save On/Off
- Desktop charger
- DC charge jack
- +12V to +24V DC Cigarette lead
charger (optional for uh710sx)
- Channel select
- Backlit LCD and keypad:
 - uh710sx - orange
 - uh720sx - white
- Monitor
- Room monitor
- Instant Channel Programming
- One Touch Instant Channel Recall
- Dual watch
- Group Scan with Priority CH Watch
- Open Scan
- OS/GS Scan separately
- Channel Memory
- Selectable scan direction upward
or downward
- Duplex capability
- 5 Level VOX (Voice Activated
Function)
- 5 Level Room Monitor transmission
threshold
- Selectable 3 squelch position
("1" = threshold, "2" = middle, "3"
= tight)
- Busy CH Lock-Out Function
- 5 different CALL tone
- Roger beep
- Key beep On/ Off
- Keypad lock
- 38 Built in CTCSS (Continuous Tone
Coded Squelch System) codes and
104 DCS (Digital Coded Squelch
System) codes are selectable
- Volume and Power On/OFF Control
Knob
- External Speaker / Microphone
capability

* See UHF-CB Channels & Frequencies, page 25 for available channels.

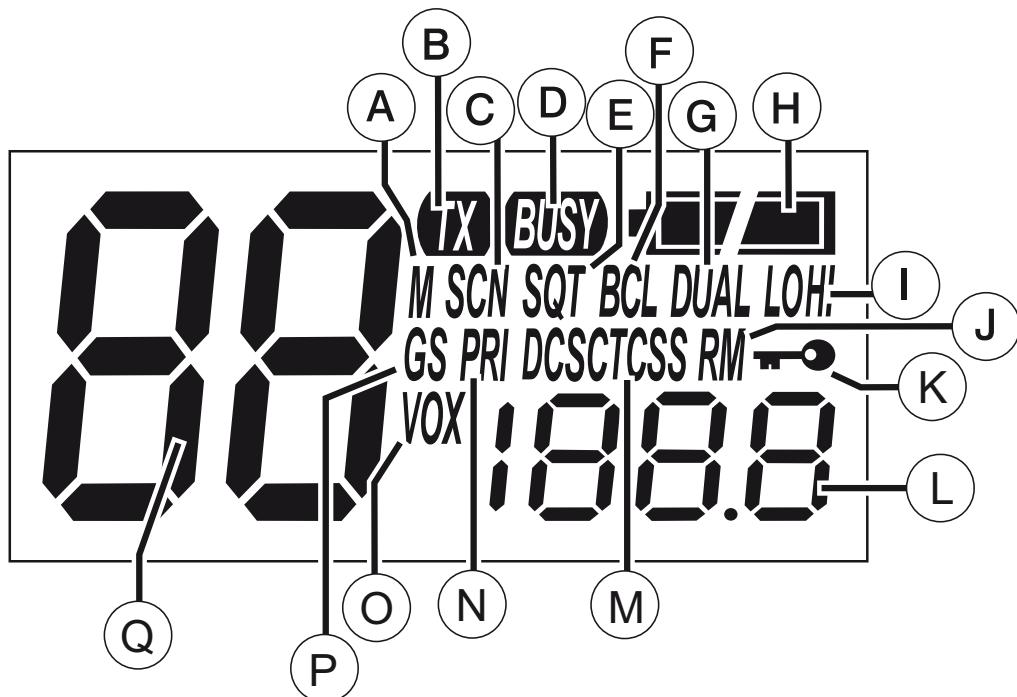
** Range varies depending on the environment. 10km + range is noted in a flat open environment @ 2W transmit power. 6km + range is noted in a flat open environment @ 1W transmit power.

CONTROLS & INDICATORS

- | | |
|--|---|
| 1. EXT. SPKR/MIC Jack | 10. Down Button |
| 2. On/Off Volume Knob | 11. Speaker |
| 3. LCD Display | 12. Transmit Power
Select/Keylock Button |
| 4. Cigarette Lead Charger Jack | 13. Dual Watch/Monitor Button |
| 5. Menu/Enter Button | 14. Scan/Call Tone Transmit Button |
| 6. Instant Button | |
| 7. Memory On/Off &
DCS/CTCSS Button | 15. Belt Clip Catch |
| 8. Microphone | 16. PTT (Push-to-talk) Button |
| 9. Up Button | 17. Battery Cover |



CONTROLS & INDICATORS



- A. Memory
- B. Transmit
- C. Scan
- D. Busy
- E. Squelch
- F. Busy Channel Lockout
- G. Dual Watch
- H. Battery Level Indicator
- I. Transmission Power Level Indicator (High/Low)
- J. Room Monitor
- K. Key Lock
- L. DCS/CTCSS code
- M. DCS/CTCSS Indicator
- N. Priority
- O. Voice Activation
- P. Group Scan
- Q. Channel Number

INCLUDED IN YOUR uh710sx/uh720sx PACK

	uh710sx	uh710sx-2	uh720sx	uh720sx-2
Radio	1x uh710sx	2x uh710sx	1x uh720sx	2x uh720sx
Rechargeable Batteries (AA NiMH)	3x 700mAh	6x 700mAh	3x 1800mAh	6x 1800mAh
Beltclip	1x	2x	1x	2x
Earpiece Mic (EM-065)	1x	2x	1x	2x
External Speaker Mic (SM-065)	-	-	1x	2x
Desktop charger	1x single	1x twin	1x single	1x twin
Cigarette lead charger (CK-720)	-	-	1x	2x
AC Adaptor (AAD-065S(M))	1x	1x	1x	1x
Owner's Manual	1x	1x	1x	1x



If any of these items are missing from the box, contact your Uniden Dealer.

Optional Accessories

- +12V to +24V DC Cigarette Lead Charger (CK-720)
- Voice Activated (VOX) Headset (VM-041)
- Leather Case (LC-720)
- Commercial Quality Speaker Microphone (SM-060CQ)
- Commercial Quality Air Tube (EM-064CQ)
- Commercial Quality Referee's Kit (RK-060CQ)
- Commercial Quality Rubber Car Hook (EM-060CQ)

GETTING STARTED

Battery installation

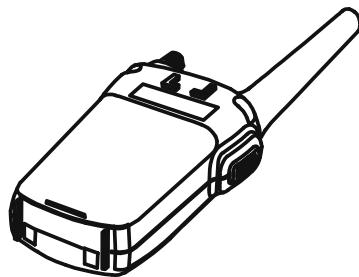
Your uh710sx/uh720sx pack includes 3 AA rechargeable NiMH batteries to power the unit. You must install and then charge the batteries for 15 hrs before use. The uh710sx/uh720sx can also use 3 AA Alkaline batteries.



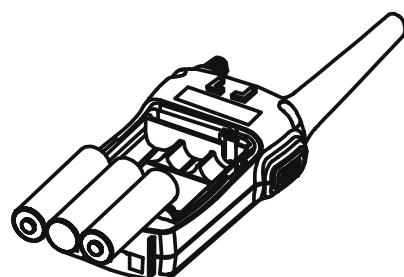
Do not mix old and new batteries to avoid damage to the unit.

To install batteries :

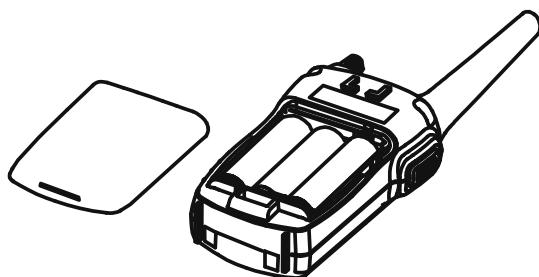
1. Make sure your radio is OFF.



2. Remove the battery compartment door by pressing down then sliding the cover away from the radio.
3. Install the batteries to the battery compartment.



4. Replace the battery compartment door.



Belt Clip

To attach the belt clip:

Slide the belt clip into the catch until it snaps into place.

To remove the belt clip:

Pinch and hold the belt clip and latch and then slide the belt clip up and out of the catch.

GETTING STARTED

Charging Batteries Using The Desktop Charger

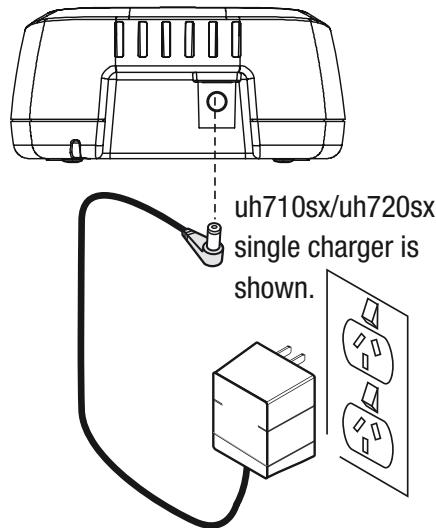
1. Connect the AC adaptor to the charging cradle.
2. Place the battery installed unit with keys facing forward onto the charging cradle to charge the batteries. The charge LED lights to indicate charging.



Warning Notice!
Use only the supplied
AAD-065S(M) power adaptor or
supplied cigarette lead adaptor
(uh720sx pack only) if
rechargeable batteries will be
used in the radio.



*Battery charging times vary.
A longer time is required
to charge higher capacity
batteries.*



Charging Batteries Using The Cigarette Lead Charger

(supplied with uh720sx packs only)

1. Connect the cigarette lead charger into the DC charge jack of the radio.
2. Connect the adaptor end to a cigarette jack (cigarette lead charger input voltage: +12V to +24V DC). The charge LED lights to indicate charging.

Rechargeable NiMH Batteries	Charging Time
1800mAh	9 hrs
700mAh	4 hrs

Battery Life

Duty cycle: TX 5% - RX 5% - STANDBY 90 %

50hrs typ.(AA SIZE 1800mAh ALKALINE)

50hrs typ.(AA SIZE 1800mAh Ni-MH)

20hrs typ.(AA SIZE 700mAh Ni-MH)

Condition measured:

Volume Level at rated power (50mW @ 16 ohms)

Transmit Level; LO

Standby; Battery Save ON

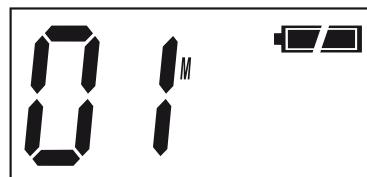
GETTING STARTED

Battery Level Display

The  icon in the upper right hand corner of the screen indicates the uh710sx/uh720sx current battery voltage level at all times. The battery level is displayed in 4 levels:

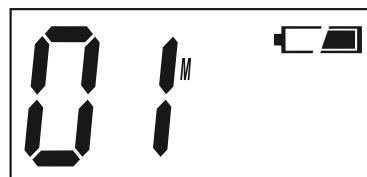
LEVEL 3

Battery 100% full



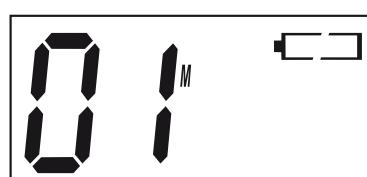
LEVEL 2

Battery approx
30% capacity



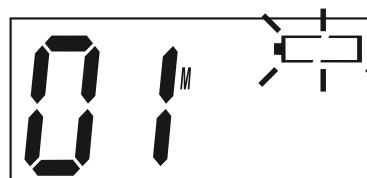
LEVEL 1

Battery approx
15% capacity

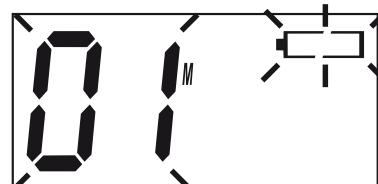


LEVEL 0

Almost Empty



When  is pressed at Level 0, the PTT Error Tone will be heard and the channel number and the battery icon will flash.



GETTING STARTED

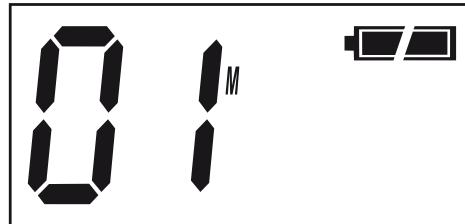
Low Battery Alert

The LCD on your radio shows a battery meter in the upper right hand corner.



Icon indicates a fully powered unit.

The Low Battery Alert beep will sound when the battery level drops to Level 1.



If you continue to use the radio at Level 1 the Low Battery Alert beep will sound at approximately 15 minutes intervals until the radio is turned off or the batteries are recharged to a higher level.

If the battery level falls to Level 0 (flashing empty) the LCD display will turn off after 30sec. An error tone will sound if any key is pressed.

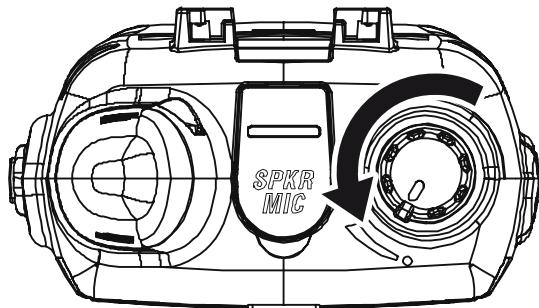
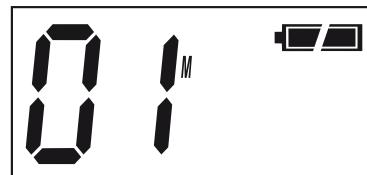
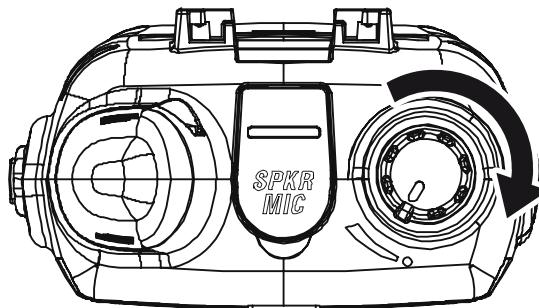
Recharge the NiMH batteries or replace the Alkaline batteries immediately to continue using the radio.

OPERATION

Power On/Off

To turn the unit ON, rotate the **[ON/OFF VOLUME]** knob clockwise until a “click” is heard. A channel number and battery level should appear on the display.

To turn the unit OFF, rotate the **[ON/OFF VOLUME]** knob counter-clockwise until a “click” is heard to save the battery life. The display will disappear.



Volume

Rotate the **[ON/OFF VOLUME]** knob clockwise to increase the volume, counter-clockwise to decrease the volume.

Setting The Squelch

The squelch is used to eliminate any annoying background noise when there are no signals present.

1. Press once.
The current setting will flash.
2. Press or to select desired squelch setting.
SQL-1 : Max sensitivity (Threshold)
SQL-2 : Med sensitivity
SQL-3 : Min sensitivity (Tight)
3. Press and hold to save setting and exit.

If SQL-3 is selected **SQT** will flash continuously.

OPERATION

Selecting A Channel

Press or to select the desired channel.



If you press and hold or the channel numbers will scroll rapidly.



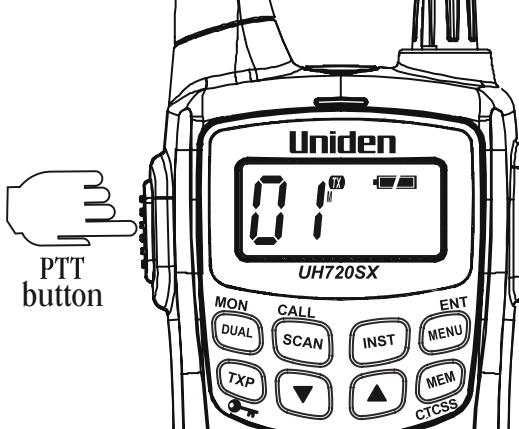
To Transmit And Receive

The radio uses the 40 UHF-CB Channels. For your reference a list of the available channels and corresponding frequencies is printed on page 25. (Channels 22 and 23 are for telemetry and telecommand applications).

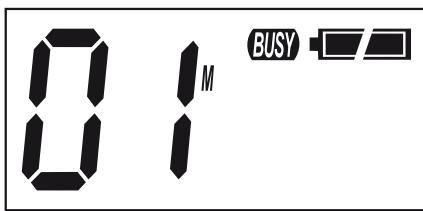
Transmit is inhibited on these channels).

1. The maximum RF transmit power of the uh720sx is 2 Watts and uh710sx is 1 Watt.
2. Before you transmit, listen for activity on the selected channel.
3. When the channel is clear, press and hold the to transmit.

TX appears on the LCD.



Hold the radio with microphone approximately 5 cm in front of your mouth with the antenna at approximately 45° angle away from your head. Speak in a clear, normal conversational voice.



4. When you have finished speaking, release the and listen for a response then **TX** disappears on the LCD. **BUSY** appears while receiving a signal.

OPERATION

To Operate In Duplex Mode (Repeaters)

The Duplex function enables you to access local repeater stations.

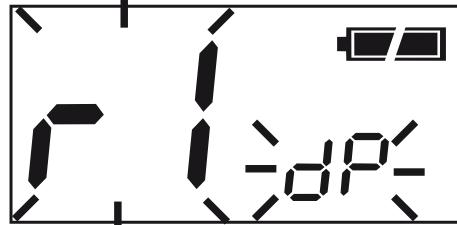
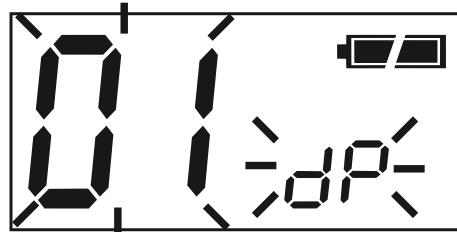


You can only activate Duplex on CH01-CH08.

UHF CB Repeaters are used to retransmit or relay your signal. Repeaters will extend the range of your radio and overcome the shielding effect caused by solid obstructions.

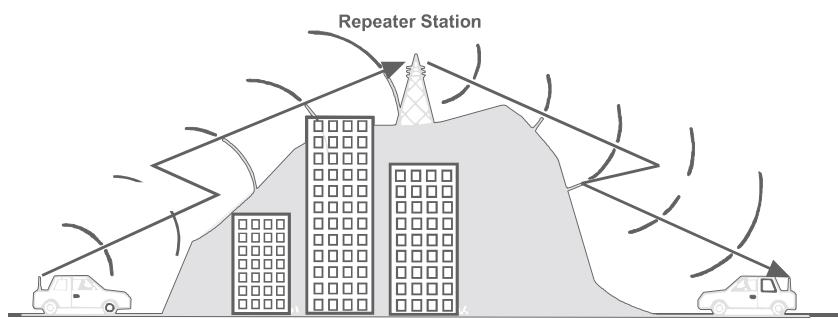
Eg. CH01 is being used in your area for repeater use.

1. Press twice.
dP will flash.
2. Press or to change the selection.
r appears when duplex is selected.
3. Press and hold to save and exit.



Contact your retailer for a list of repeaters available in your area.

Operation with the aid of a Repeater



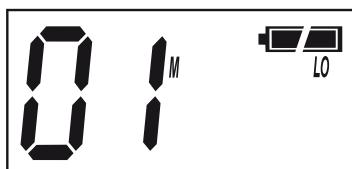
OPERATION

Transmit Power Select

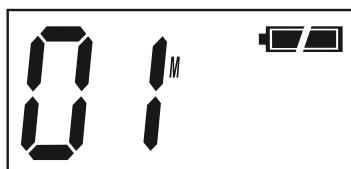
The uh720sx has three transmit power levels: 2 Watt, 0.5 Watt and 0.1 Watt. The uh710sx has three transmit power levels: 1 Watt, 0.5 Watt and 0.1 Watt.

To change your transmit power level:

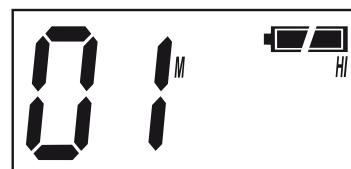
1. Press while in the 'power middle level' to change to 'power high level.'
2. Press while in the 'power high level' to change to the 'power low level.'
3. Press while in the 'power low level' to change to 'power middle level.'



TX Power Low



TX Power Middle



TX Power High



Transmitting on a higher level will use more Battery power but will enable you to transmit further.

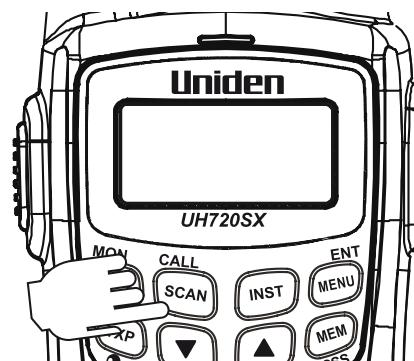
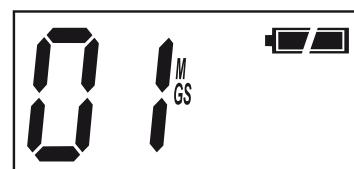
Scanning

The uh710sx/uh720sx has two types of scanning; Open Scanning (OS) and Group Scanning (GS), OS Scan searches all the channels and frequencies in its memory continuously. GS Scan is similar to OS scan but has the added ability to monitor the priority channel every 1.5 seconds.

Scanning allows you to search for active channels programmed in the OS or GS memory.

To initiate scanning,

1. Assuming the unit is on CH01 when switched on.
2. Press and scanning starts. **SCAN** flashes during scanning.



OPERATION

Open Scan (OS) Mode

(the absence of GS icon indicates that the unit is on OS mode)

Allows continuous scanning of channels stored in the Open Scan (OS) memory.

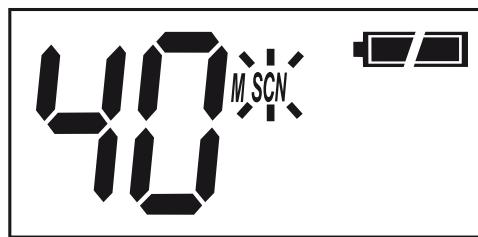
If an active channel is found, scanning will stop on that channel.



The factory has preprogrammed all the 40 UHF channels into the Open Scan channel memory. However, you can change or customise the channels by following the steps on programming Scan Channels on page 18.

Example. CH40 becomes active

If the received signal cease, the unit will wait for at least 3 seconds for the signal to return, otherwise scanning resumes.



To skip the active channel, press or . Scanning resumes.

To deactivate SCAN, press or .



1. If SCAN is deactivated while in an active channel, the radio will stay on that active channel. If no other channels are active, the radio will reinstate the starting channel.

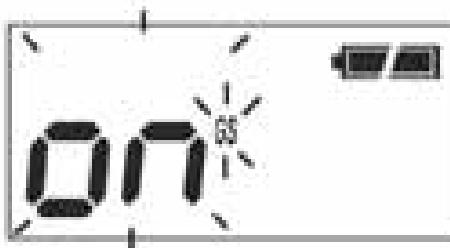
2. If OS Scanning is initiated when there are no channels programmed in OS memory, an error tone will be heard and scanning will not start.

OPERATION

Group Scan(GS) Mode

To change between OS and GS scan;

1. Press  four times.
GS setting **ON** or **OFF** will flash.
2. Press  or  to change the selection.
3. Press and hold  to save and exit.



To initiate scanning,

1. When  is pressed during Group Scan Mode, **SCN** will blink and Group Scan Scanning begins.
2. To deactivate GS scanning, press  or .



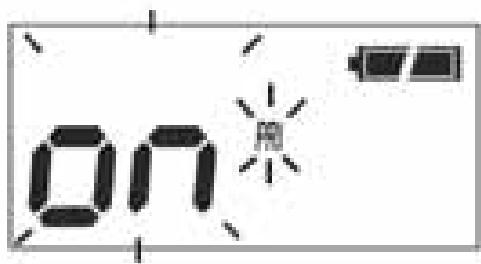
1. If **SCAN** is deactivated while it is tuned to an active channel, the uh710sx/uh720sx will stay on that active channel. If none of the channels re-active, the radio will reinstate the Scan start channel.
2. If GS Scanning is initiated when there are no channels programmed in GS memory, an error tone will be heard and scanning will not start.

OPERATION

Priority Channel Watch During Group Scan

The feature allows user to monitor the Instant Priority channel (see page 19) every 1.5 secs during Group Scanning. The Priority Channel can also be monitored with Dual Watch, see page 19.

1. Press  three times. **PRI** setting flashes.
2. Press  or  to change the selection.
3. Press and hold  to save and exit.



Programming Scan Channels

1. Select which Scanning Mode you wish to use on the channel OS or GS Mode.



OS is indicated by the absence of the GS icon.

2. Select the channel you want to store by pressing  or .
3. Press  to store.
M icon appears.
4. To remove the channel from Memory, Press  to remove.
M icon disappears.

Drop-Out Delay

While scanning, the radio stops at a busy channel and receives a signal. When the received signal is over, the unit will wait for 3 seconds for the return of the signal, otherwise, the radio resumes scanning.

OPERATION

Programming the Instant Priority Channel

Select the Channel you want to store as the Instant Priority Channel by pressing \blacktriangle or \blacktriangledown .

Press and hold INST for 3 seconds to program the channel. **PRI** icon appears.

Recalling the Instant Channel

Momentarily press the INST button to return to the Instant Channel.

Dual Watch

When Dual Watch function is active, priority channel is watched every 1.5 seconds.

Press DUAL^{MON} to activate or deactivate Dual Watch. **DUAL** appears on the display when activated.

Monitor

This feature enables users to listen in for weak signals on the current channel at the press of a button.

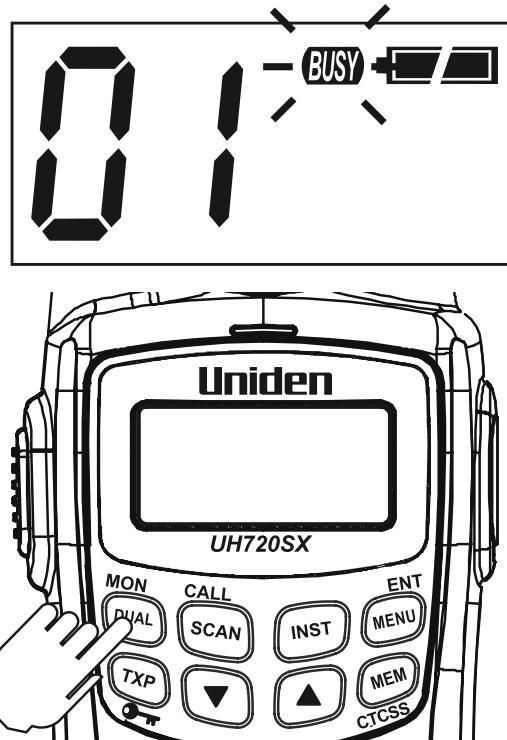
To use monitor,

- For continuous listening.

Press and hold DUAL^{MON} .

A double tone beep will be heard and the receiver circuit will stay open, letting in both the noise & weak signals.

- Display shows **BUSY**.
- To return to normal receive mode press and hold DUAL^{MON} .

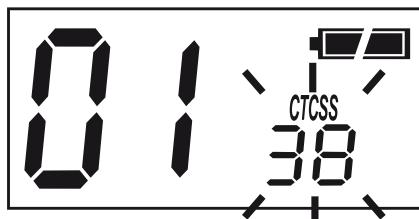
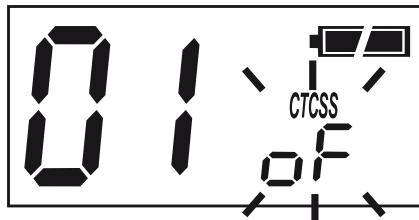


OPERATION

CTCSS

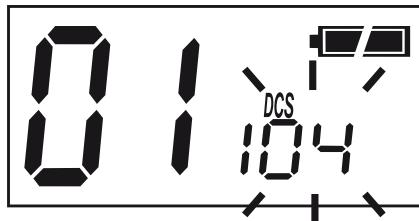
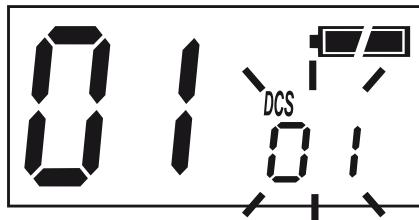
CTCSS is a feature that allows a group to talk to each other without hearing other users on the same channel.

1. Select desired channel.
2. Press and hold . The current DCS/CTCSS setting flashes.
3. Press  or  to select desired CTCSS code.
4. To select off code, press and hold . **oF** flashes.
5. Press  to save and exit.



DCS

DCS is a digital extension of CTCSS. It provides 104 extra, digitally coded, squelch codes that follow after the 38 CTCSS codes. CTCSS 1-38, followed by DCS 1-104.



Follow the steps for changing CTCSS code but select DCS code as desired.



Channels 05 and 35 are used for emergency channels. CTCSS and DCS will not operate on these two channels.

OPERATION

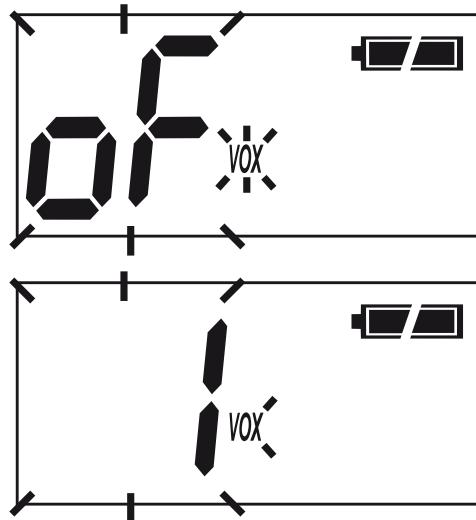
VOX

VOX is the automatic transmitting function by inputting voice into the VOX headset mic without pressing the PTT key.

While headset microphone is not connected, VOX function is inactive even if vox level setting is from 1 to 4.

VOX blinks while VOX function is active.

1. Press  **MENU** five times.
The current vox setting flashes.
2. Press  or  to select desired setting.
The 5 VOX levels are from 1 (High sensitivity) to 4 (Low sensitivity) and Off.
3. Press and hold  to save and exit.



Room Monitor

The Room Monitor function sets the radio to operate as a transmitter only - receive (speaker) is disabled.

The TX is activated by voice activation (VOX) without pressing . TX will activate when the detected voice/noise volume exceeds the set threshold. If the voice/noise keeps TX open for over 4 seconds then TX will continue automatically for an additional 15 seconds. TX will finish when voice/noise volume falls below the set threshold for 15 seconds.

While in Room Monitor mode;

- The receive function is disabled.
- **RM** flashes on the display.
- Dual Watch function, if ON, is disabled.
- Duplex mode is disabled on duplex channels.
- Scan mode is disabled.
- All key touch tones are disabled.

OPERATION

Room Monitor can be temporarily disabled by pressing  or holding . If no further operation is performed for 45 seconds then the temporary disable mode ends and Room Monitor mode re-activates.

1. Press  six times.
2. Press  or  to select desired setting.
The 5 Room Monitor levels are from 1 (High sensitivity) to 4 (Low sensitivity) and Off.
3. Press and hold  to save and exit.



- *If using this feature as Baby Monitor please note it is not a replacement for regularly checking the safety and security of children.*
- *The operating time is limited to the remaining charge of the battery and is not suitable for continuous overnight use.*
- *If there is any input at EXT SP MIC JACK, Room Monitor automatically turns off.*

Busy Channel Lockout

This feature prevents accidental transmission on a busy channel. For example, BCL is used when CTCSS or DCS is selected to prevent transmission when the radio detects a transmission from another unit using the same CTCSS or DCS code.

1. Press  seven times. The current BCL setting flashes.
2. Press  or  to select desired setting.
3. Press and hold  to save and exit.

OPERATION

Call Tone

Your uh710sx/uh720sx radio is equipped with 5 selectable call tones that will be transmitted when  is pressed and held.

1. Press  eight times. The current call tone setting flashes.
2. Press  or  to select desired setting.
The 5 call tones are C1, C2, C3, C4 and C5.
3. Press and hold  to save and exit.



Current regulations require calling tones to be restricted to one transmission per minute. If a second transmission is attempted within one minute then an error tone will sound.

Roger Beep

Roger Beep is a BEEP that is sent to notify the end of transmission (both PTT and VOX transmission.) Roger Beep can be heard through the speaker when Key Beep is on. Roger Beep is transmitted even if Key Beep is turned off. However, Roger Beep will not be heard from the speaker.

1. Press  nine times. The current Roger Beep setting flashes.
2. Press  or  to select desired setting.
3. Press and hold  to save and exit.

Key Beep

Assures the user that the keypad has been properly pressed by emitting a beep tone. This tone can be switched on or off.

1. Press  ten times. The current Key Beep setting flashes.
2. Press  or  to change selection.
3. Press and hold  to save and exit.

OPERATION

Battery Save

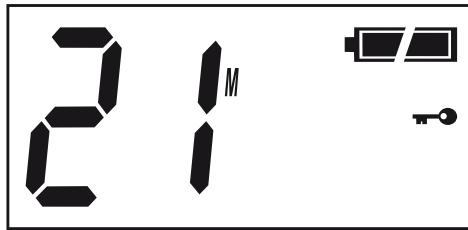
Battery Save feature extends the battery life by switching the receiver circuit power ON and OFF. This feature automatically activates during stand by mode (RX mode without signal). It turns OFF automatically when a signal is present, and activates again after channel inactivity. Battery Save can be switched on or off.

1. Press  eleven times. bS setting flashes.
2. Press  or  to change selection.
3. Press and hold  to save and exit.

Keypad Lock

To prevent accidental entries, you can lock the keypad. Press and hold the  for 1.5 Secs until it beeps to activate Key Lock. The  appears.

To unlock the keypad, press and hold  again for 1.5 Secs. The  disappears.



When the Key Lock is active, an error tone will be heard if you attempt to press the keys.

Back Lighting

The Liquid Crystal Display (LCD) is backlit for easy viewing at night or in low light situations. The back lighting automatically switches ON every time a key (except PTT) is pressed. It turns OFF 5 secs after the last key is pressed.

UHF CB CHANNELS & FREQUENCIES



Please follow these guidelines for channel use in Australia:

- *Channels 05 and 35 are Emergency Channels.*
- *Channel 11 is a Calling Channel.*
- *Channels 22 and 23 are for telemetry and telecommand applications and TX is inhibited on these channels.*
General communication is accepted on all other channels with these guidelines:
- *Channel 40 - road channel (Australia).*
- *Channels 01-08 (and 31-38) are repeater channels.*

CH No.	Simplex Mode Transmit / Receive Frequency (MHz)	Duplex Mode Transmit Frequency (MHz)	CH No.	Simplex Mode Transmit/Receive Frequency (MHz)
1	476.425	477.175 CH31	21	476.925
2	476.450	477.200 CH32	22	476.950 (RX only)
3	476.475	477.225 CH33	23	476.975 (RX only)
4	476.500	477.250 CH34	24	477.000
5	476.525	477.275 CH35	25	477.025
6	476.550	477.300 CH36	26	477.050
7	476.575	477.325 CH37	27	477.075
8	476.600	477.350 CH38	28	477.100
9	476.625		29	477.125
10	476.650		30	477.150
11	476.675		31	477.175
12	476.700		32	477.200
13	476.725		33	477.225
14	476.750		34	477.250
15	476.775		35	477.275
16	476.800		36	477.300
17	476.825		37	477.325
18	476.850		38	477.350
19	476.875		39	477.375
20	476.900		40	477.400

CTCSS & DCS CODE LIST

CTCSS Code LIST

Code No.	Frequency Hz	Code No.	Frequency (Hz)	Code No.	Frequency Hz
“oF”	OFF	13	103.5	26	162.2
1	67.0	14	107.2	27	167.9
2	71.9	15	110.9	28	173.8
3	74.4	16	114.8	29	179.9
4	77.0	17	118.8	30	186.2
5	79.7	18	123.0	31	192.8
6	82.5	19	127.3	32	203.5
7	85.4	20	131.8	33	210.7
8	88.5	21	136.5	34	218.1
9	91 .5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151 .4	37	241.8
12	100.0	25	156.7	38	250.3

DCS Code LIST

Code No.	DCS Code (Octal)						
1	023	27	152	53	311	79	466
2	025	28	155	54	315	80	503
3	026	29	156	55	325	81	506
4	031	30	162	56	331	82	516
5	032	31	165	57	332	83	523
6	036	32	172	58	343	84	526
7	043	33	174	59	346	85	532
8	047	34	205	60	351	86	546
9	051	35	212	61	356	87	565
10	053	36	223	62	364	88	606
11	054	37	225	63	365	89	612
12	065	38	226	64	371	90	624
13	071	39	243	65	411	91	627
14	072	40	244	66	412	92	631
15	073	41	245	67	413	93	632
16	074	42	246	68	423	94	654
17	114	43	251	69	431	95	662
18	115	44	252	70	432	96	664
19	116	45	255	71	445	97	703
20	122	46	261	72	446	98	712
21	125	47	263	73	452	99	723
22	131	48	265	74	454	100	731
23	132	49	266	75	455	101	732
24	134	50	271	76	462	102	734
25	143	51	274	77	464	103	743
26	145	52	306	78	465	104	754

WARRANTY

UNIDEN uh710sx, uh710sx-2, uh720sx and uh720sx-2 UHF CB Radio Limited One Year Warranty



Please keep your sales docket as it provides evidence of warranty.

Warrantor: Uniden Australia Pty Limited ABN 58 001 865 498

Uniden New Zealand Limited

Warranty only available in original country of purchase

Elements of Warranty: Uniden warrants to the original retail owner for the duration of this warranty, its uh710sx, uh710sx-2, uh720sx and uh720sx-2 UHF CB Radio (hereinafter referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

Warranty Duration: This warranty to the original retail owner only, shall terminate and be of no further effect ONE (1) year after the date of original retail sale. This warranty will be deemed invalid if the Product is;

- (A) Damaged or not maintained as reasonable and necessary,
- (B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden,
- (C) Improperly installed,
- (D) Repaired by someone other than an authorized Uniden Repair Agent for a defect or malfunction covered by this warranty,
- (E) Used in conjunction with any equipment or parts or as part of a system not manufactured by Uniden, or
- (F) Where the Serial Number label of the product has been removed or damaged beyond recognition.

Warranty only valid in the country of original retail/sale.

Parts Covered: This warranty covers for one (1) year, the Product and included accessories.

Statement of Remedy: In the event that the Product does not conform to this warranty at any time while this warranty is in effect, the warrantor at its discretion, will repair the defect or replace the Product and return it to you without charge for parts or service. This warranty does not provide for reimbursement or payment of

incidental or consequential damages.

This EXPRESS WARRANTY is in addition to and does not in any way affect your rights under the TRADE PRACTICES ACT 1974 (Cth) (Australia) or the CONSUMER GUARANTEES ACT (New Zealand).

Procedure for obtaining performance or warranty: In the event that the Product does not conform to this warranty, the Product should be shipped or delivered, freight prepaid, with evidence of original purchase, (eg. a copy of the sales docket), to the warrantor at:

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Service Division

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