Uniden®

# OWNER'S MANUAL

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**UNIDEN Model uh012sx UHF CB Radio**

# Contents

**Introduction** **2**
Features 2
Preventative Maintenance 2
Troubleshooting 2

**Controls/Connectors** **3**

**Indicators** **4**

**Included with your uh012sx** **5**

**Operation** 6
Setting the FM Squelch 6
Selecting a Channel 7
Transmitting 7
Using Repeater Channels 7
Operating the uh012sx in Duplex Mode 8
Scanning (Open Scan) 8
Open Scan (OS) Mode 8
Programming the Instant Priority Channel 9
Recalling the Instant Channel 9
Continuous Tone Coded Squelch System (CTCSS) 9

**UHF CB Channels & Frequencies** **10**

**Warranty** **11**

# Introduction

The Uniden uh012sx 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

- Transmit and Receive FM 40CH (UHF-CB, TX Power 5w)
- 7 Segments LED
- Instant Channel (programmable)
- One touch Instant Channel recalling
- Duplex Capability (from CH01 - CH08 per channel)
- Open Scan
- 38 Built-in CTCSS codes
- Rotary Channel Select
- Variable Squelch Level Adjust
- Volume Control with Power On/Off Switch.
- Compact Dimensions: 127mm(w) x 36mm(h) x 148mm(l)

## Preventative Maintenance:

The following system checks should be made every six to twelve months:

- Check the Standing Wave Ratio (SWR).
- Inspect the tightness of all electrical connections.
- Inspect the antenna coaxial cable for wear or breaks on the shielding.
- Inspect the tightness of all screws and other mounting hardware.

## Troubleshooting:

Should the unit malfunction or perform poorly, follow these procedures.

**If the transceiver is completely inoperative...**

- Check the power cord and fuse.

**If there is trouble with receiving...**

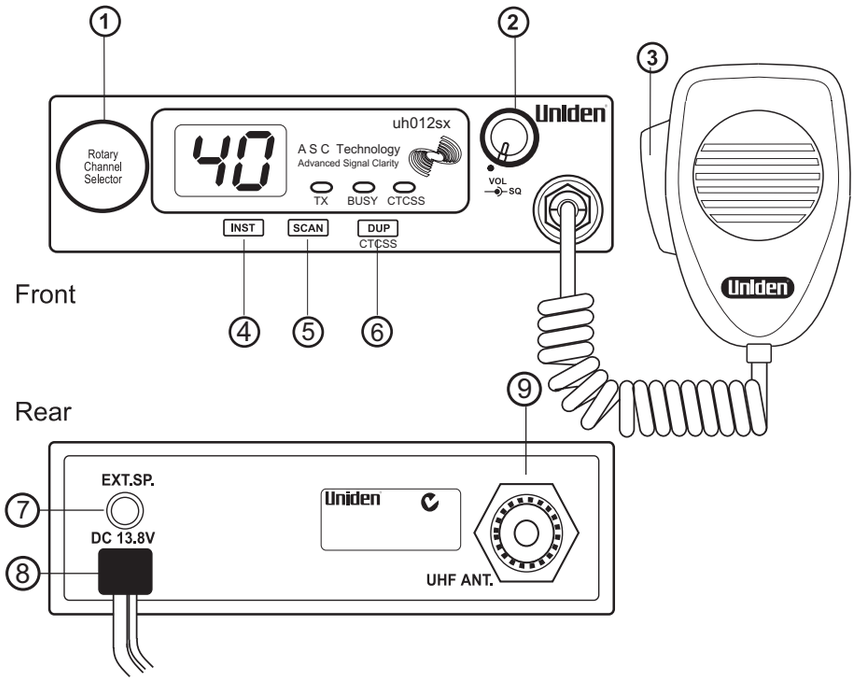
- Check the VOLUME control setting. Be sure the SQUELCH is adjusted properly. Possibly the radio is over-squelched.
- Check the CTCSS code.

**If there is trouble with transmitting...**

- Check that the transmission line (coaxial cable) is securely connected to the ANTENNA connector.
- Check that the antenna is fully extended for proper operation.
- Check that all transmission line (coaxial cable) connections are secure and free of corrosion.

## Memory Backup:

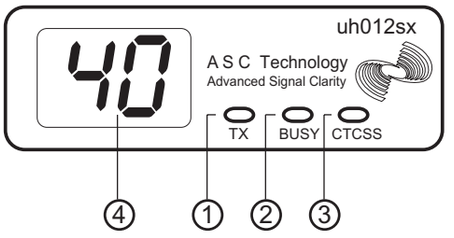
# Controls/Connectors




## Controls and Connectors

| *Ref* | *Item* | *Page* | *Ref* | *Item* | *Page* |
|---|---|---|---|---|---|
| 1 | Rotary Channel Selector | 7 | 6 | DUP - Duplex On/Off /CTCSS - Continuous Tone Coded Squelch System | 8<br>9 |
| 2 | On/Off Volume & Squelch | 6 | 7 | External Speaker Jack | - |
| 3 | Push to Talk (PTT) Switch | 7 | 8 | Power Input (13.8V DC) | 2 |
| 4 | INST - Instant Channel Recall & Instant Channel Programming | 9 | 9 | UHF Antenna Connection | 2 |
| 5 | SCAN - Scan On/Off | 8 | | | |

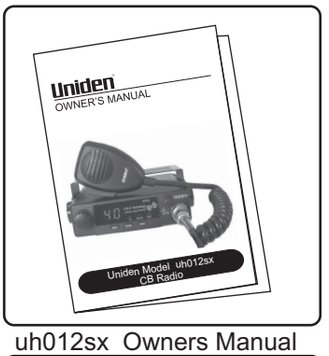
# Indicators



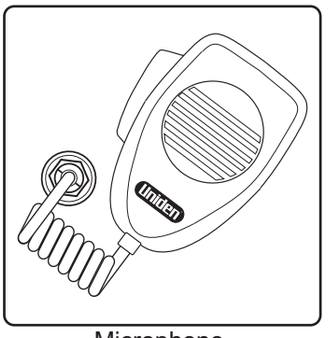

## Indicators

| | | |
|---|---|---|
| ① | **TX** LED | It is turned on when transmitting condition. |
| ② | **BUSY** LED | It is turned on when receiving a signal or decoding a CTCSS code. It blinks while receiving a signal in scan mode. |
| ③ | **CTCSS** LED | It is turned on when the current displayed channel has CTCSS set. It blinks when the CTCSS code is decoded OK. |
| ④ | **CH** LED (40) | Indicates the Channel Number. |

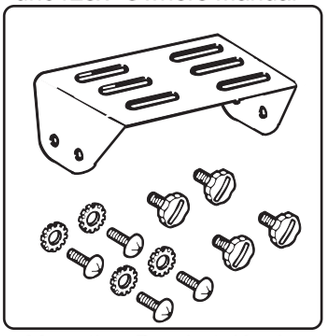
# Included with your uh012sx



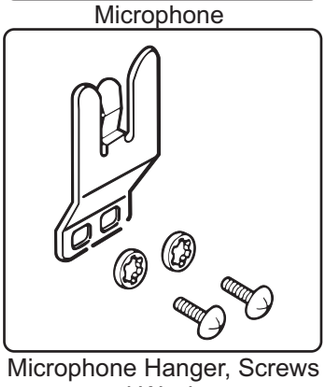

uh012sx Owners Manual



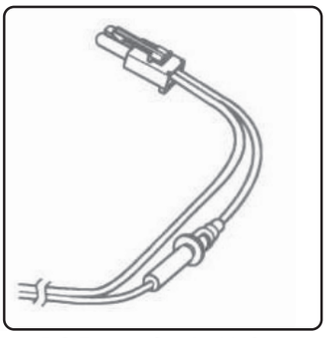

Microphone



Mounting Bracket, Knobs Rubber Washer, Washer Stars And Screws

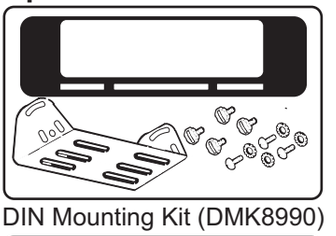


Microphone Hanger, Screws and Washers

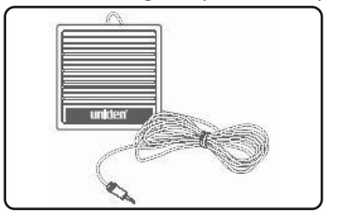


DC Power Cord with fuse

## Optional Accessories



DIN Mounting Kit (DMK8990)




External Speaker (MS100)

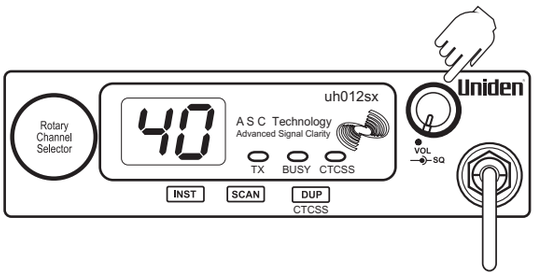
# Operation

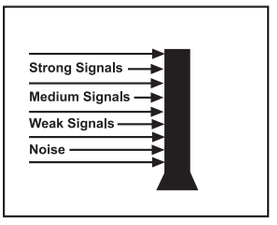
## Setting the FM Squelch

Turn the Unit ON by rotating the volume control clockwise. Turn the outer ring of the control to adjust the Squelch.

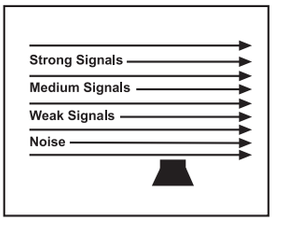
NOTE

*You must select a channel which is not in use before setting the SQUELCH control. (see p.7)*

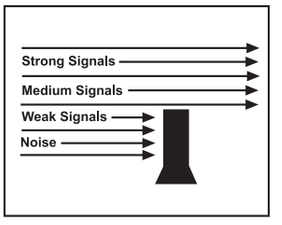



Think of the squelch control as a gate. If you turn Squelch fully clockwise it raises the 'Squelch gate' so high that no signals get through.




If you turn the Squelch fully counterclockwise it lowers the 'Squelch Gate' to the extent that all signals get through - weak, medium and strong signals and noise.

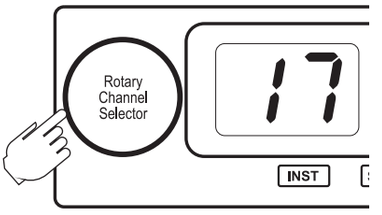



To set the 'Squelch Gate' to the desired level, turn the squelch knob counterclockwise until you hear noise. Then carefully turn the Squelch knob clockwise until the noise fades. Now only strong signals get through.

# Operation

## Selecting a Channel

Turn the Rotary Channel Selector to select the desired *channel.*

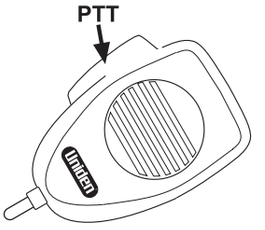



NOTE

*For your reference a list of the available channels, corresponding frequencies and guidelines for their use is printed on page 10. For Australia, Channels 05 and 35 are reserved for Emergency Calls.*

## Transmitting

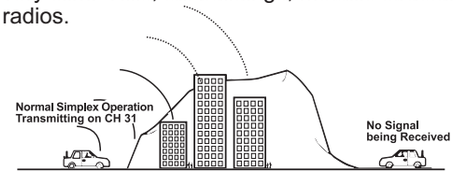
The uh012sx uses the 40 UHF-CB Channels **(Channels 22 and 23 are for telemetry and telecommand applications. Transmit is inhibited on these channels).**



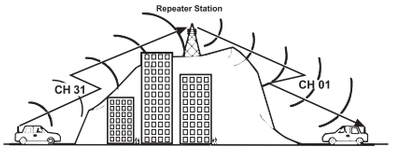

Select the desired channel. Press the microphone's PTT button and speak normally into the microphone. Hold it approx. 7cm from your mouth. Release the PTT button to end the transmission and listen for a reply.

## 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.




Standard Operation without the aid of a Repeater Station.




Operation with the aid of a 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-coverts your signal and retransmits on CH01.

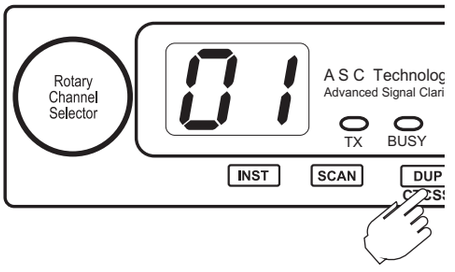
# Operation

## Operating the uh012sx in Duplex Mode

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

Press DUP to switch Duplex On.

"r" (for repeater) is displayed in place of the 1st digit of the channel number indicator. e.g. 01 : normal channel 1
r1 : duplex channel 1



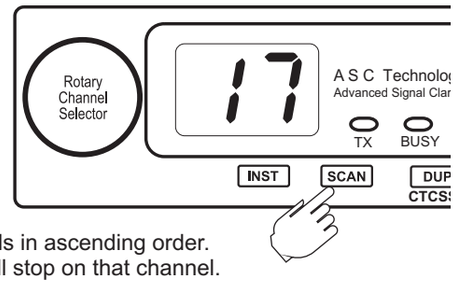

If Duplex is not required - press DUP again to switch Duplex off.
Only channels 01 - 08 are available for Duplex.

NOTE *Check with your local Retailer for information on available repeaters.*

## Scanning (open scan)

The uh012sx has a scanning feature that allows you to search for active channels automatically.

Press SCAN and Scanning starts.




## Open Scan (OS) Mode

Allows continuous scanning of all channels in ascending order.
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.

To deactivate SCAN, press SCAN or the PTT button on the microphone.

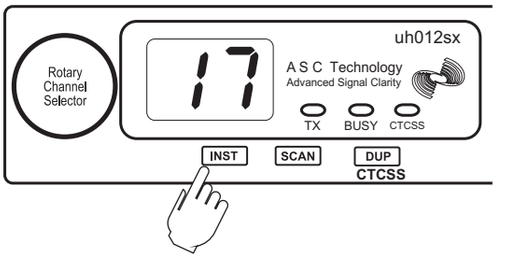
NOTE *If SCAN is deactivated while on an active channel, the uh012sx will stay on that channel. If no channels are active, the uh012sx will reinstate the starting channel.*

# Operation

## Programming the Instant Priority Channel

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

Press and hold INST for 1.5 seconds to store the new setting.



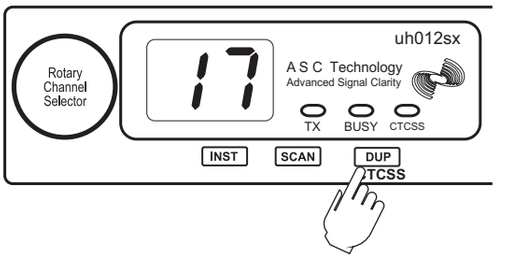

## Recalling the Instant Channel

Momentarily press the INST key at any time to return to the Instant Channel (except during CTCSS CODE setting).

## Continuous Tone Coded Squelch System (CTCSS)

This feature allows signals to be received only from callers who have selected the same CTCSS code.

Turn the Rotary Channel Selector to select the channel you want to set CTCSS code.
Press and hold **DUP/CTCSS**. The channel display will flash the CTCSS code.
Turn the Rotary Channel Selector to select a desired CTCSS code. If you select oF and press **DUP/CTCSS** then CTCSS will not set and CTCSS LED will be off.
If you select a code from 01 to 38 and press **DUP/CTCSS** then the selected code is set and CTCSS LED will be on.




If there is no selection for 10 seconds the operation is timed out.

NOTE *Channels 05 and 35 are Emergency Channels. CTCSS will not operate on these channels.*

# UHF CB CHANNELS & FREQUENCIES

NOTE

***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 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 |

# WARRANTY

## UNIDEN uh012sx UHF CB Radio

### Two Year Limited Warranty

**Note:** 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 uh012sx 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 TWO (2) Years 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, (F) Installed, programmed or serviced by anyone other than an authorized Uniden Repair Agent, or (G) Where the Serial Number label of the product has been removed or damaged beyond recognition.

**Parts Covered:** This warranty covers for 2 years, the main unit only.

**Accessories:** Microphone, Power cord etc are covered for 90 days.

**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 and service. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS GUARANTEE IS IN ADDITION TO AND DOES NOT AFFECT YOUR RIGHTS UNDER THE CONSUMER GUARANTEES ACT.

**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:

**UNIDEN AUSTRALIA PTY LTD**
Service Division
345 Princes Highway,
Rockdale, NSW 2216
Fax (02) 9599 3278

**UNIDEN NEW ZEALAND LTD**
Service Division
150 Harris Road, East Tamaki,
Auckland
Fax (09) 274 4253

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