uniden® SUNDOWNER UH-057

Handheld UHF CB Radio
with User Programmable
Built-in SELCALL

OPERATING GUIDE

uniden®

Please read this Operating Guide carefully before operating this radio

Safety Information

DO NOT operate the transmitter of any radio equipment with the antenna touching, or close to the eyes, face, or exposed body parts.

DO NOT let children operate any transmitter-equipped radio equipment.

DO NOT operate the transmitter of any radio equipment unless all the Radio Frequency (RF) connectors are secure and any open connectors are properly terminated.

Have your radio equipment serviced by a qualified technician.

Nickel-Cadmium Battery Warning

This equipment contains a Nickel-Cadmium battery.

The Nickel-Cadmium battery contained in this equipment may explode if disposed of in a fire.

DO NOT short circuit the battery.

DO NOT charge the Nickel-Cadmium battery used in this equipment in any other charger other than the one designed to charge this battery. Using another charger may damage the battery, or cause the battery to explode.

Table of Contents

Introduction

Welcome to the world of CB Radio Communication. You have chosen the most reliable, highly engineered, ultra-precise piece of communication equipment.

Description

Your UNIDEN Sundowner UH-057 represents the most advanced portable radio ever designed for use in the UHF Citizens Band Radio Service. With Built-in SELCALL, this radio allows you to call or to be called distinctively.

With its rugged physical and electrical design, this radio will give a reliable years of trouble free service.

You are encouraged to thoroughly read the rest of this operating guide to acquaint yourself with the superior characteristic and operation of your transceiver. This full featured radio operates on any of the 40 UHF frequencies designated as Citizens Band Channels by the Spectrum Management Agency.

WARNING

The Citizens Band Radio communication Service (CBRS) is under the jurisdiction of the Australian Management Agency (SMA). Any adjustment or alteration which will change the performance of the transceiver's original SMA type acceptance is STRICTLY PROHIBITED. Replacement or substitution of power or frequency determining components e.g. Crystals, Transistors, ICs, Diodes, etc. with other than those recommended by UNIDEN will cause violation to the SMA type acceptance technical requirement.

Licensing Requirements

Before using your transceiver, you must obtain a Citizens Band Radio License from the Spectrum Management Agency (SMA). Application forms and brochures relating to CBRS are available at your nearest SMA office. Mail the completed application form and the appropriate fee to the Communications Manager, in the State or Territory in which the station will be operated.

Feature Highlights

- **Full 40 Channel UHF CB Coverage**
  Operates on any of the 40 Channels designated as Citizens Band Channels by the Spectrum Management Agency.

- **Simplex/Duplex Communication**
  Allows the Uniden Sundowner UH-057 to operate via a repeater station.

- **Two Level Switchable Transmitter Output Power**
  Lets you transmit at 1 Watt or 5 Watts for short-range or long-range communication.

- **Auto-Squelch System**
  Eliminates unwanted noise when activated.

- **Liquid Crystal Display (LCD) with Backlight**
  Shows visual display of the current Channel and/or Operation. Illuminated everytime a Key is pressed for better visibility at night or under dim conditions.

- **TX/Busy LED**
  Lights RED when the unit is transmitting. Lights **GREEN** when the received signal (on the current channel) is strong enough to break the squelch.

- **Channel Scan**
  Provides rapid, automatic scanning of programmed channels.

- **Priority Scan**
  Regularly monitors your chosen priority channel every 1.5 seconds during scan mode.

- **User Programmable Channel Scan List (using LOCK-OUT switch)**
  Allows the user to customise the Channel Scan List for faster scanning.

- **Battery Save**
  Conserves the Battery Power by putting the receiver on "sleep" when monitoring inactive channel.

- **Battery Low Detection**
  Informs the user when the battery level is low and needs recharging.

- **SELCALL**
  Built-in Selcall (Selective Calling) System lets the unit to call or be called selectively.

- **Numeric Keypad**
  Installed to give the users freedom to program his own Selcall Codes or access other Selcall Functions.

- **Receiver Quieting (Tone Squelch)**
    Prevents any unwanted signal in the channel from being heard unless the required tone codes to open the "Quiet Condition" is received.
- **CALL Alarm**
    When selectively called, emits an audible alarm to notify the user that a caller is on the channel.
- **Acknowledge Tone**
    Sends a response tone automatically to the caller to acknowledge a Selective Call.
- **Group Call**
    Capable of transmitting and responding to group calls.
- **Direct Channel Keying**
    Gives the user option to select channels directly using the Numeric Keypad.
- **Rechargeable Battery Pack**
    Eliminates the costly expense of frequent Battery replacement.
- **Battery Free Memory**
    The programmed channels on the Scan List and other unit settings are retained in memory when the Battery Pack is removed from the unit.

UNPACKING

Carefully check the package contents against the list:

- Uniden Sundowner UH-057 UHF CB Radio
- Flexible Antenna
- AC Adaptor/Charger
- Standard Nickel-Cadmium Battery Pack
- Belt Clip
- Wrist strap
- This Operating Guide

If any of the items are missing or damaged, contact your place of purchase immediately.

OPTIONAL ACCESSORIES

- **Speaker-Microphone**
    A two-in-one combination for convenient transmitting and receiving.
- **Spare Battery Pack**
    A replacement pack for your rechargeable battery (Either standard or Heavy Duty Pack).
- **Battery Pack Charger**
    Desktop Rapid Charger

Controls and Indicators
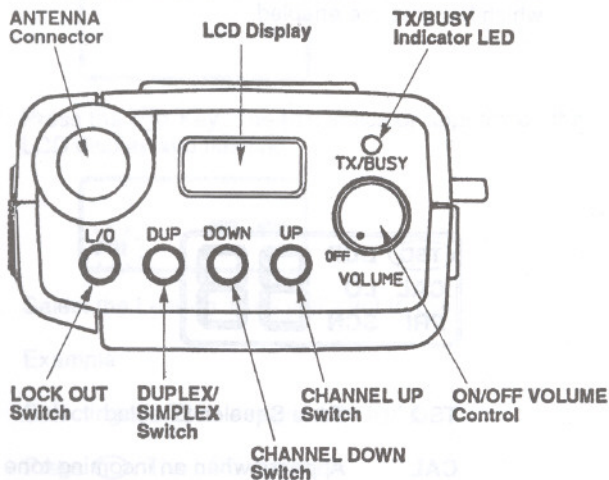
Top Indicators and Display

Antenna Connector
- connect the antenna to this **TNC** port

Lock-out Switch
- locks out a selected channel from channel scan.

Duplex Switch
- allows Simplex or Duplex Operation on Channels 1 through 8

Channel UP/DOWN Switches
- use to select a channel

On/Off Volume Control
- Rotate clockwise to turn the radio **ON** and increase the volume. Rotate counter-clockwise to turn the radio **OFF** or decrease the volume.

TX/Busy Indicator
- The **RED LED** lights when you press the **PTT** switch (to transmit). It blinks when the battery is low and needs recharging. The **GREEN LED** lights when the received signal (on the current channel) is strong enough to break the squelch.

LCD Display
- **the Liquid Crystal Display (LCD)** has several
  indicators that show the current operating mode. The
  two digits at the right show the current selected
  channel. The smaller, two/three-letter displays show
  which features are enabled.

TSQ	Tone Squelch Enabled
CAL	Appears when an incoming tone code successfully opened the Tone Squelch, or when TX Selcall codes are being transmitted.
PRI	Priority Channel Selected
DUP	Duplex Channel Operation Selected
LO	Low Power TX Selected
SCN	Scan feature enabled
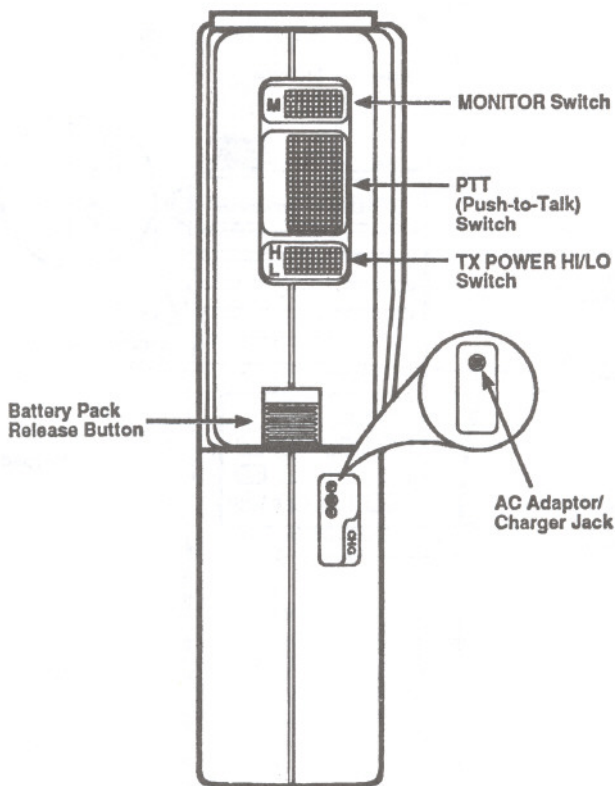
Side Controls and Connectors

Battery Pack Release Button - To remove the Battery Pack, push up on the release button and slide the Battery Pack away from the radio.

Monitor Switch - Press to set the Auto-squelch feature ON or OFF.

Push-to-Talk (PTT) Switch - Press and hold to talk. Release to listen for a reply.

TX Power HI/LOW Switch - Press to set the Transmit output power to HIGH (5W) or LOW (1W).

AC Adaptor/Charger Jack - Connect AC Adaptor/Charger here
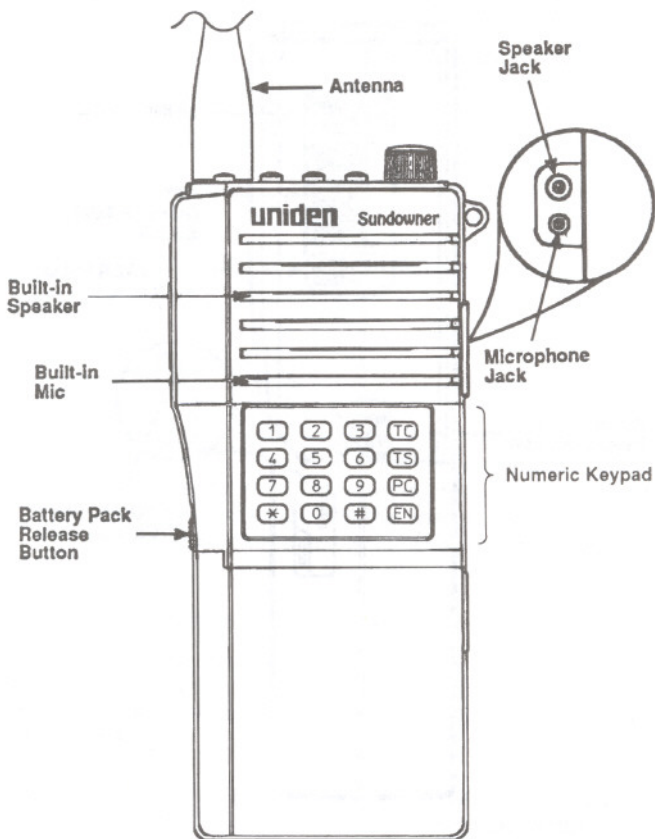
Front Controls

Built-in Speaker - Audio Output

Built-in Microphone - Speak into the microphone when transmitting.

Speaker Jack - Connect optional external speaker here.

Microphone Jack - Connect optional external microphone here.

Numeric Keypad - used for Direct Channel keying, enabling SELCALL Functions, selecting Priority Channel, and programming SELCALL Codes.

Numeric Keypad Controls and Functions
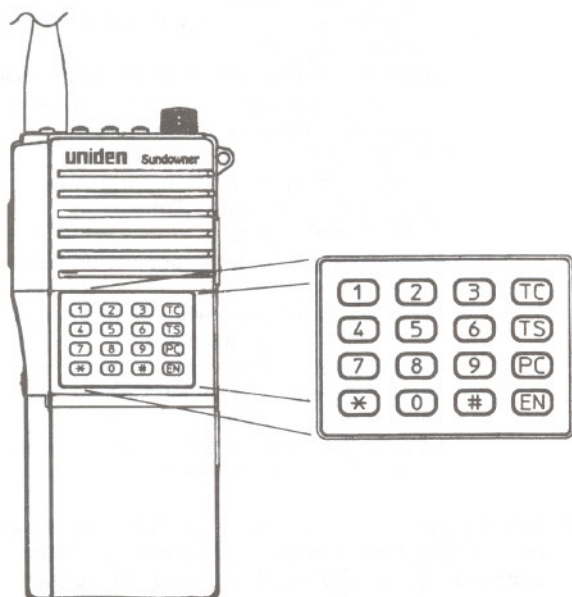
⓪ to ⑨ : **NUMERIC Keys**; Used to select channels,
enter special Receiver/Transmit Codes and
other SELCALL Parameters

✳ : **ASTERISK Key**; Press and hold for 1.5 sec
to access Tone Period Programming
: Assigned as "D" tone when programming
RX ID, TX ID, or Lead-In tone.

⌗ : **HASH Key**; Press and hold for 1.5 sec to
enter Lead-In Delay Programming
: Assigned as "F" tone when programming
RX ID, TX ID, or Lead-In tone.

(EN)	: **ENTER Key**; Press to enter the selected Channel;
	: Press to store the RX/TX Code, Lead-In Tone, Lead-In delay, and Tone Period Setting when programming
	: Press and hold for 1.5 sec to enter special programming modes.
	: Assigned as "E" tone when programming Lead-In Tone ONLY.
(TC)	: **TONE CALL Key**; Press and hold for about 1.5 sec to transmit the transmitter ID (e.g., calling other radio by transmitting its SELCALL ID)
	: Assigned as "A" tone when programming RX ID, TX ID or Lead-In Tone.
(TS)	: **TONE SQUELCH Key**; Press and hold for about 1.5 sec to put the receiver on "Quite" Mode.
	: Assigned as "B" Tone when programming RX ID, TX ID, or Lead-In Tone.
(PC)	: **PRIORITY Key**; Press this key to store or remove the selected Priority channel to/from the memory buffer.
	: Assigned as "C" tone when programming RX ID, TX ID, or Lead-In Tone.

Note: *When shipped from the factory, no SELCALL codes are stored in the memory. Error tone will be heard everytime (TC) or (TS) Key is pressed. To program, please see page 27.*

Getting Started

Antenna

To attach the antenna to the TNC connector on top of your radio, press down and rotate the antenna base clockwise until it seats firmly into place.

Battery Information

The Sundowner UH-057 comes with a standard rechargeable Ni-Cd Battery Pack. An optional heavy duty rechargeable Ni-Cd Battery Pack is also available.

Installation

THE RECHARGEABLE NICKEL-CADMIUM BATTERY PACK MUST BE CHARGED FULLY BEFORE USING IT FOR THE FIRST TIME.

When installing or removing the rechargeable Battery Pack, be sure that the power (**ON/OFF** Volume control) is turned OFF.

To remove the Battery Pack, push up on the release button and slide the Battery Pack away from the radio.
To replace, align the Battery Pack rails with the transceiver and slide toward the transceiver unit until the Battery Pack locks in place.
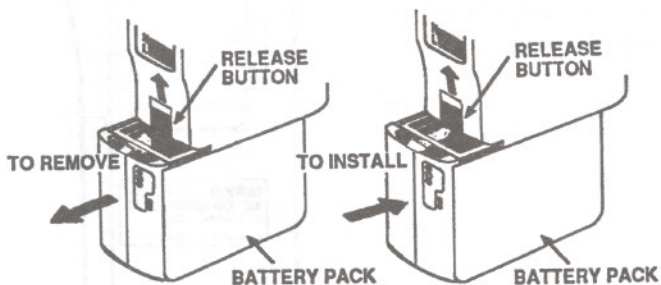
Recharging the Nickel-Cadmium Battery Pack

Note: *Before charging, be sure that the power (**ON/OFF** Volume control) is turned OFF.*
*Recharge the Ni-Cd Battery ONLY when the unit indicates a **LOW BATTERY** condition.*
(TX LED blinks during TRANSMIT)

Insert the discharged Battery Pack in the rapid charger, or connect the trickle charger to the side of the unit.

Using the trickle charger, the standard pack charges fully in 8 hours, and the heavy duty pack in 12 hours. If you have a rapid charger, the standard pack charges fully in 1.5 hours, and the heavy duty pack charges fully in 2 hours.

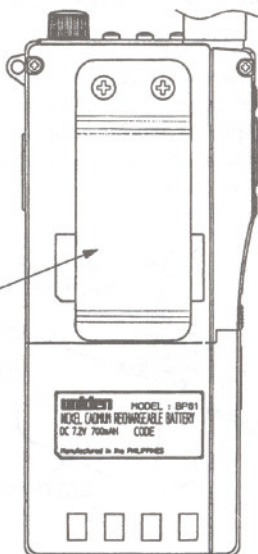**DO NOT** leave the Batteries on charger for an extended period of time.

Belt Clip Installation

Place the Belt Clip on the mounting area on the back of the Radio, making sure the holes in the clip line up with the threads in the back of the Radio.

Insert the 2 screws into the corresponding holes and tighten.

Belt Clip

CAUTION:
DO NOT tighten the screws too tight, you could damage the case.

Operation

RECEIVE

1. Turn the radio ON. Rotate the ON/OFF Volume control clockwise until you hear the click. A channel number should appear in the LCD Display.
2. Press the Ŏ or Ŏ switch or use the Numeric Keypad to select the desired channel.
3. Press the monitor switch (Auto-squelch turns OFF).
4. Rotate the ON/OFF Volume control to adjust the speaker volume to a comfortable level.
5. Press the Monitor switch (Auto-squelch turns ON).

Direct Channel Keying

Allows you to directly select a channel using the Numeric Keypad.

Example 1: Selecting CH5 directly

   - Press ⑤ then Ⓔ⃝ .

Example 2: Selecting CH25 directly

   - Press ②, ⑤ then Ⓔ⃝ .

Upon pressing the Ⓔ⃝ Key, the LCD display and the unit channel setting changes to CH25.

Auto-Squelch

Automatically eliminates the unwanted "rushing" noise when the unit is turned ON.

   - press the Monitor Switch to set the Auto-squelch feature ON or OFF

Note: *To listen to weak signal transmissions, switch OFF the Auto-squelch feature (Squelch is on minimum level).*

Channel Scan

When you pressed the ⊙ (UP) Key for more than 1.5 seconds, the scan feature starts and the **SCN** indicator appears on the LCD.

Scanning stops automatically on any active channel that is not Locked-out, receives a call and you hear the caller.

To resume scanning, press the ⊙ (UP) Key.

If there is too much activity on a certain channel and you wish to exclude it from being scanned, simply press the ⊙ (L/O) Key (please see page 18 on how to create a channel scan list).

To disable scanning:
- when on an active channel, press the ⊙ (DOWN) Key and the unit stays on the active channel.
- while scanning, press the ⊙ (UP) or ⊙ (DOWN) Key. The unit returns to the channel where scan function is activated.
- press the **PTT** switch. When the unit is on an active channel, it transmits on the same channel. When scanning, the unit transmits on the channel where scan function is activated.

SCN indicator disappears from the LCD Display.

Drop Out Delay

While scanning, the radio stops at a busy channel and receives a transmission. When the received call is over, the unit will wait for three seconds for the return of the signal. Otherwise it resumes scanning.

Priority Scan

When a priority channel is selected and scan is activated, the radio will monitor the prioritised channel regularly for activity while scanning.

While scanning, if a signal is received on the priority channel the radio will stay on that channel as long as the signal is present. Otherwise, priority scanning resumes after 3 seconds.

However, if scanning stops on a channel which is not a priority channel, the radio will continue on checking regularly the priority channel for activity while monitoring the current active channel.

To select a priority channel:

1. Enter the selected Priority channel using the Numeric Keypad.

   Example: Selecting CH20 as Priority Channel

   - Press ②, ⓪

2. Then press the ⓅⒸ Key.

   After pressing the ⓅⒸ Key, the unit setting changes to the selected priority channel and displays the PRI indicator.

Note: *Setting a Tone Squelched Channel as a Priority Channel is not possible. Any prioritised Channel when programmed to "Quiet" Mode will override the priority setting.*
Priority Scanning is inactive in TSQ Scan Mode.

To remove the Priority Channel setting

1. Manually or directly select the prioritised channel.

2. Momentarily press the ⓅⒸ Key. The PRI indicator disappears from the LCD display.

Create a Channel Scan List with Channel Lock-Out Feature

You may have certain channels that you do not want to hear every time you scan. These are channels that are busy in a major portion of time, and the scanning stops at that channel(s) often enough to interrupt the scan cycle. You can Lock-out those channels so they are not scanned.

There are two ways to do this.

1. Using the $\overset{UP}{O}$ or $\overset{DOWN}{O}$ switches, manually select the desired channel and press the $\overset{L/O}{O}$ button. The locked-out channel blinks.

2. While scanning, when the unit stops on the channel you wish to lock-out because of its too much activity, simply press the $\overset{L/O}{O}$ Key and it will be automatically removed from the scan list. Scanning resumes.

To remove the lock-out condition from a channel, manually select the channel and press $\overset{L/O}{O}$ button again. The channel stops blinking.

TRANSMIT

1. The maximum transmit power output level of UH-057 is 5 watts.

    To switch to low power, press the **HI/LO** switch. **LO** appears on the **LCD** and the transmit power output level is changed to 1 watt.

    To switch back to High power, press the **HI/LO** switch again. The **TX** power returns to high and the **LO** indicator disappears from the **LCD**.

2. Before you transmit, listen for activity on the selected channel.

3. When the channel is clear, press the **PTT** switch to transmit. The **TX LED** comes on when you transmit. Hold the radio with the microphone approximately two inches in front of your mouth with the antenna at approximately a 45-degree angle away from your head. Speak in a clear, normal, conversational voice.

4. When you are finished speaking, release the **PTT** switch and listen for an answer.

Simplex / Duplex Communication

Duplex Operation allows the Uniden Sundowner UH-057 to operate via a repeater station on Channels 1 through 8. The set receives on these channels but transmits on Channels 31 through 38 respectively.

When Duplex operation is disabled, the set receives and transmits on the same channel. (Simplex Communication)

To activate Duplex operation on a Channel where Repeater Service is available, select the channel and then press the $\overset{\text{DUP}}{\bigcirc}$ button. **DUP** indicator appears on the **LCD** Display.

To put the Duplex programmed channel back to normal Simplex operation, select the channel and press the $\overset{\text{DUP}}{\bigcirc}$ button again. **DUP** indicator disappears from the **LCD** Display.

Low Battery Level Detection

Uniden Sundowner UH-057 has a built-in battery level detector circuit. It evaluates your Battery Pack everytime you transmit to determine whether the power inside the Battery is still sufficient enough to support normal Receive and Transmit communications.

The circuit will inform you in two ways.

1. When the **PTT** switch is pressed and the **TX LED** blinks. It means the battery level is already low and needs recharging. You can still transmit, however, you must finish the conversation and have your battery charged fully to resume normal operation.

2. When the Blinking **TX LED** went unnoticed and the Battery goes down to where normal communication can no longer be supported, the circuit will disable the **PTT** switch and emit an error tone everytime you try to transmit. Have the battery pack charged fully.

Special Feature

SELECTIVE CALLING

Selective Calling (SELCALL) is a special Sequential Tone Squelch System that allows the user to receive/transmit calls selectively from/to an individual or a group, on a shared busy channel.

The Sundowner UH-057 has Selective Calling (SELCALL) system specially built-in. With exceptional features like Receiver Quieting, Group Calling, and User Programmable Parameters makes the Sundowner UH-057 superior to any of its kind.

Receiver Quieting (Tone Squelch)
When enabled, it automatically mutes the receiver audio circuit of the Radio. It will stay on its "Quiet Mode", as long as the required Selcall tone code (SELCALL ID) to open the muting circuit is not received.

Tone Squelch Scanning
Scans Tone Squelched Channels only.

Group Calling Capability
Transmits and Responds to Group Calls.

User-Programmable SELCALL Parameters
Gives the user freedom to program and configure the SELCALL parameter for efficient Selective Calling communication.

SELCALL OPERATION

Receiver Quieting

Puts the receiver on "Quiet" Mode (also known as "Tone Squelch" Mode). When enabled, the radio prevents any unwanted conversations in the channel from being heard unless the call is specifically directed to you and the required SELCALL ID to open the "Quiet" condition is received.

To enable:

1. Select the channel you want to put in Quiet Mode using either the UP/DOWN Switch or the Numeric Keypad.

   Example: Choosing CH20 as your CALL Channel

2. Press the (TS) Key for about 1.5 seconds. You will hear one beep and the TSQ indicator appears on the LCD Display.

Under this condition, the PTT Switch is temporarily disabled. If you wish to use the same channel for normal communication, simply remove the Channel from Quiet Mode.

To deactivate the Quiet Condition:

1. Manually select the Tone Squelched Channel

2. Press the (TS) Key for about 1.5 seconds. Two beeps will be heard and the TSQ indicator disappears from the LCD display.

When a call is received...

While on TSQ Condition, when UH-057 receives a code matching your SELCALL ID, it will do the following operation.

1. Automatically responds to the caller by transmitting Acknowledge tones.

2. Informs you that a caller is on the channel by emitting a CALL ALARM (three successive tones in a regular interval for 10 seconds.) and displays the CAL indicator.

3. Flashes the TSQ indicator for about 20 seconds allowing you to use the PTT Switch. If you will not be able to respond within the 20 second period, TSQ stops flashing and Quiet operation resumes.

Responding to a call automatically removes the channel from "Quiet" operation. The TSQ and CAL indicators disappear from the LCD display.

Tone Squelch Scanning

If you are using two or more channels on TSQ Mode, you can monitor all of these channels for selective calls by using the TSQ Scanning.

To use this feature:

1. Select any programmed TSQ Channel.

2. Press and hold the $\overset{\text{UP}}{\bigcirc}$ switch for about 1.5 seconds. TSQ scanning starts and the SCN indicator appears on the LCD display.

Unlike Normal Scanning, TSQ Scanning checks the detected carrier for SELCALL information. If no information is seen, TSQ scanning resumes.

When a call is received while TSQ Scanning, UH-057 follows the same response as receiving a call on a Tone Squelch Channel. It differs only on the following.

1. If the call is not answered within the 20 second period, TSQ Scanning resumes. CAL indicator remains on the LCD.

   To look for the channel where CALL is received:

   a. Cancel TSQ Scanning by pressing either the $\overset{UP}{\bigcirc}$ or $\overset{DOWN}{\bigcirc}$ Key.

   b. Using the $\overset{UP}{\bigcirc}$ or $\overset{DOWN}{\bigcirc}$ Key, browse through the TSQ Channels.

   The CAL indicator marks the channel where the call is received.

2. When answered, TSQ scanning is automatically deactivated. The channel is removed from the Quiet Operating Mode.

To deactivate TSQ Scanning:

1. Press either the $\overset{UP}{\bigcirc}$ or $\overset{DOWN}{\bigcirc}$ Key. SCN indicator disappears from the LCD and the unit returns to the Channel prior to accessing TSQ Scanning.

2. When a SELCALL is received, press the PTT Switch.

Note: *The chance of receiving and decoding Selcall Call effectively while TSQ Scanning can be increased in many different ways. You can either lessen the number of channels to be scanned to increase the scanning speed, or change some of the SELCALL Parameters (please see "Other parameters" on page 30). BE SURE THAT EVERY MEMBER OF YOUR GROUP USES THE SAME SET-UP. OTHERWISE, YOU WILL LESSEN THE CHANCE OF SELEC-TIVELY CALLING EACH OTHER.*

Tone Calling

Tone calling enables you to selectively call other radios.

To do this, the SELCALL ID of the radio you are going to call should be in the Transmitters SELCALL ID memory (please see Programming Method on page 28).

To Call:

1. Select the channel where you and your group agreed to use for Selective Calling.
2. Press and hold the (TC) Key for about 1.5 seconds. One Long Beep will be heard and CAL indicator will appear on the LCD Display while the SELCALL ID is being transmitted automatically.

An acknowledge tone coming from the called radio will be received if you had successfully made contact.

The Acknowledge Tone for the Sundowner UH-057 is a successive three Low Tone beeps.

Group Calling

Sundowner UH-057 has group calling capability. It can either respond to a group call or transmit a Group Calling Code.

Group Calling enables you to call members of your group simultaneously. However, you need to follow a certain format on programming your TX SELCALL ID to do this.

TX SELCALL ID Format

To call	Transmitter SELCALL ID
10 radios	[x] [x] [x] [x] [A]
100 radios	[x] [x] [x] [A] [A]
1000 radios	[x] [x] [A] [A] [A]
10000 radios	[x] [A] [A] [A] [A]

where: [x] is a common SELCALL ID prefixes of your group
        and,
        [A] is the internationally assigned SELCALL tone to
        identify the Group Call Code

example:

If one group comprises of 10 members with SELCALL IDs.

ranging from

        [1] [2] [3] [4] [0],
        [1] [2] [3] [4] [1],
        [1] [2] [3] [4] [2],
        [1] [2] [3] [4] [3],

            .
            .
            .

to   [1] [2] [3] [4] [9],

All in TSQ Mode at CH20

If someone transmits [1] [2] [3] [4] [A] on CH20, all of the
above unit will open their Tone Squelched Receiver.

Note: *No Acknowledge tone will be received when Group
        Call code is transmitted. If all radios will respond,
        acknowledge tone will only "litter" the channel with
        crisscrossing signal.*

To use the Group Calling Feature effectively, your RX
SELCALL ID should be well arranged and assigned.

Programming

Since UH-057 can support either 5 tone or 6 tone signalling format, you and your group must decide which format are you going to use.

Receiver SELCALL ID

To program your own receiver SELCALL ID, do the following procedure.

1. Press and hold the (EN) Key for about 1.5 seconds. Two beeps will be heard and the LCD displays:

2. Press the (TS) Key. The TSQ indicator appears on the LCD Display. Flashing.

3. Enter your chosen SELCALL ID using the Numeric Keypad.

   Example: 1 2 3 4 5

   Everytime you press the Numeric Keypad confirmation tones will be heard. The SELCALL Tone assigned to the pressed Key will be displayed on the LCD as shown: (please see page 34 for the Numeric Key SELCALL TONE assignment)

4. Press the ⒺⓃ Key to complete the programming. Two beeps will be heard and the unit returns to its previous status prior to accessing Programming Mode.

If you decided to use the 6 Tone Format, simply enter the sixth digit when programming before pressing the ⒺⓃ Key.

To remove the Receiver SELCALL ID from Memory:

1. Follow step 1 and 2 of Receiver SELCALL ID programming.

2. Press the ⒺⓃ Key.

   Programming ends and no ID will be stored in the memory. Whenever the ⓉⓈ Key is pressed, error tone will be heard.

Note: *If you made an error in entering the ID, you must abort the SELCALL programming and start over again. To abort, press any key or switch not related to SELCALL PROGRAMMING (e.g., PTT Switch, UP Key, HI/LOW Selector Switch... etc.)*

Transmitter SELCALL ID

This ID is the Identification Code of the radio you want to call. To program, do the following procedure.

1. Press the hold the ⒺⓃ Key for about 1.5 seconds. Two beeps will be heard and the LCD displays:

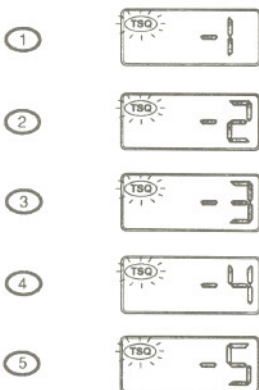2. Press the ⓉⒸ Key. The CAL indicator appears on the LCD Display, and flashing.

3. Enter the Transmitter SELCALL ID using the Numeric Keypad.

Example: 1 2 3 4 6

Everytime you press the numeric Keypad, confirmation tones will be heard. The SELCALL Tone assigned to the pressed Keypad will be displayed on the LCD as shown: (please see page 34 for the SELCALL TONE Key Assignment)

①	CAL -1
②	CAL -2
③	CAL -3
④	CAL -4
⑥	CAL -6
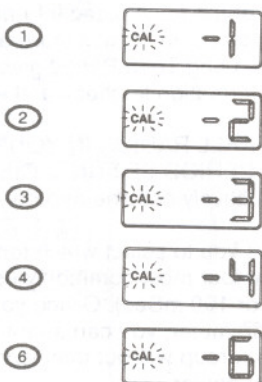
4. Press the (EN) Key to complete the programming. Two beeps will be heard and the unit returns to its previous status prior to accessing Programming Mode.

If you and your group are using the 6 Tone Format, simply enter the sixth digit before pressing the (EN) Key.

To remove the Transmitter SELCALL ID from memory:

1. Follow steps 1 and 2 of Transmitter SELCALL ID programming.

2. Press the (EN) Key. Programming ends and no ID will be stored in the memory. Whenever the (TC) Key is pressed, error tone will be heard.

Other SELCALL Parameters.

Aside from the Transmitter and Receiver ID, you should also know some of the SELCALL Parameters. Though, this parameters are not frequently changed understanding them will probably help you on your future use.

Tone Period

Tone Period is the duration of one tone in a SELCALL ID sequence. The setting of this parameter depends on your application. On long distance communication for example, where the signal strength of the transmitted information is greatly reduced and affected by noise, it is more advisable to use longer Tone Period. Long Tone Period gives the decoder more time and information to check and evaluate the code.
However, BE SURE THAT ALL RADIOS IN YOUR GROUP USES THE SAME TONE PERIOD SETTING. Otherwise you will not be able to selectively call one another.

Sundowner UH-057 allows you to select which tone period is best for you. It offers the four most commonly used tone period setting (20, 40, 70 or 100 mSec). Giving you the freedom to change this parameter, you can adapt easily to the existing system in your group without the inconvenience of having it serviced by the dealer.

To change the tone period setting,

1. Press the ✱ for about 1.5 seconds. The LCD displays:

2. Select your chosen Tone Period setting from the table below.

Key	LCD Display	Tone Period
0	P0	20 mSec
1	P1	40 mSec
2	P2	70 mSec
3	P3	100 mSec

For example, selecting 40 mSec

Press ①. The LCD displays
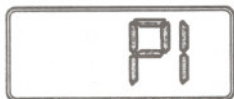
3. Press the ⓔⓝ Key to complete the programming. Two beeps will be heard and the unit returns to its previous status prior to accessing Programming Mode.

Lead-In Delay

Lead-In delay is a SELCALL transmit parameter that "wakes-up" and helps the receiver of the other radio to lock onto the incoming signal. Everytime you **Transmit** a SELCALL ID, Lead-In Delay attaches itself in the beginning of the code sequence and makes the transmitter to be ON longer prior to the code transmission. This sets the communication link between the transmitter and the other receiver more stable.

One major application of having a longer Lead-In Delay is when you are Selectively Calling another radio via a repeater station. Long Lead-In Delay helps to stabilise both the communication link from your radio to the repeater station and the communication link from the repeater to the other radio.

To change the Lead-In Delay of your radio:

1. Press the ⌗ for about 1.5 seconds. The LCD displays:

2. Select your Lead-In Delay setting from the table below.

Key	LCD Display	Lead-In Delay Period
0	L0	0.5 Sec
1	L1	1.0 Sec
2	L2	2.0 Sec
3	L3	3.0 Sec
4	L4	4.0 Sec

For example, selecting 1.0 Sec as Lead-In Delay

Press ①. The LCD displays

3. Press the ⓔⓝ Key to complete the programming.
    Two beeps will be heard and the unit returns to its
    previous status prior to accessing Programming Mode.

Lead-In Tone

The Lead-In tone when programmed "rides" on the Lead-In
Delay. Hence, when transmitting a SELCALL ID a continu-
ous tone will be heard by the receiver in the duration of the
Lead-In Delay.

Lead-In Tone's main purpose is to increase the probability
of contact between your unit and the other radio **WHEN
TSQ SCANNING**.

Normally on TSQ Scanning, if a carrier is detected and the
unit sees no SELCALL information on its first "glance" at the
particular signal, scanning resumes.

But if the Lead-In Tone is present, the unit waits further until
the SELCALL ID is received.

To program:

1. Press the ⊞ Key for about 1.5 sec.
   Two beeps will be heard and the LCD displays:

2. Press the ⊙ Key. The PRI indicator appears on the
   LCD display and flashing.

3. Select the Lead-In Tone you want to use.

   Example:

   Selecting the Tone assigned to digit 1.

   Press ①. The LCD displays:

3. Press the ⊞ Key to complete the programming.
   Two beeps will be heard and the LCD returns to its
   previous status prior to accessing Programming Mode.

To remove the Lead-In Tone:

1. Follow steps 1 and 2 of Lead-In Tone Programming.

2. Press and hold ⊞ Key for about 1.5 sec until you hear
   the two beeps. the LCD will display "E" Tone but it will
   not be programmed to the memory.

   Be careful not to press the ⊞ key twice.
   Otherwise, "E" tone will be programmed as your Lead-In
   Tone.

Note: *Make sure that all members of your group will use
the same Lead-In Tone. Else, you will lessen the
probability of receiving and successfully decoding a
selcall call while TSQ Scanning.*

Programming Guide

Keypad Assignment when Programming

Key	TC Tone	TS Tone	Lead-In Tone	Lead-In Delay (S)	Tone Period (mS)
0	0	0	0	0.5	20
1	1	1	1	1.0	40
2	2	2	2	2.0	70
3	3	3	3	3.0	100
4	4	4	4	4.0	—
4	4	4	4	—	—
6	6	6	6	—	—
7	7	7	7	—	—
8	8	8	8	—	—
9	9	9	9	—	—
TC	A	A	A	—	—
TS	B	B	B	—	—
PR	C	C	C	—	—
EN	—	—	E	—	—
*	D	D	D	—	—
#	F	F	F	—	—

Default Setting (Factory Default)
A. RX Selcall ID: None
B . TX Selcall ID: None
C. Tone Period: 40 msec
D. Lead-In Delay: 500 msec
E. Lead-In Tone: Tone "1"

IMPORTANT:

BE SURE THAT THE TONE FORMAT (5 TONE OR 6 TONE), TONE PERIOD SETTING AND THE LEAD-IN TONE OF ALL THE RADIOS IN YOUR GROUP ARE ALL THE SAME. ELSE, YOU WILL NOT BE ABLE TO SELECTIVELY CALL ONE ANOTHER EFFECTIVELY.

Care and Maintenance

Your **Uniden Sundowner UH-057** is a precision piece of electronic equipment and you should treat it accordingly. Due to the rugged design, very little maintenance is required. However, a few precautions should be observed:

- If your radio has been accidentally subjected to spray or splash, you should immediately wipe it down with a soft cloth dampened with fresh water.
- If the antenna has been damaged, you should not transmit except in case of emergency. A defective antenna may cause damage to your radio.
- You are urged to arrange a periodic performance check with your **Uniden** Dealer.

Operator Troubleshooting

Should the unit malfunction or not perform properly, the operator should perform the procedures indicated below.
1. If the transceiver is completely inoperative.
    * Check the Battery
2. If trouble is experienced with receiving.
    * Check if the Radio is Switched-On
    * Check the **VOLUME** control setting
    * Check if the antenna is securely connected to the antenna connector
3. If trouble is experience with transmitting.
    * Check if the antenna is securely connected to the **Antenna Connector**

Service

Should you find it desirable or necessary to have service performed on your Uniden Sundowner UH-057, you are urged to contact the Uniden Dealer from whom you made your purchase. Your Uniden Dealer will be able to assist you with complete service information.

If you require service that is within the terms of your warranty, you should present a copy of your receipt to your dealer to authenticate your claim.

If you find it inconvenient to obtain service assistance from your dealer, you may obtain service from Uniden Service Division. If you want this service, please pack your radio in a suitable container that will provide adequate protection. Enclose a note describing the problem and a copy of your receipt and send the radio (transportation prepaid) to:

uniden® Australia Pty. Limited
SERVICE DIVISION
345 Princess Highway,
Rockdale, NSW 2216

UHF CB CHANNEL INFORMATION

SIMPLEX Operating Mode

Channel Assignment	Transmit Frequency(MHz)	Receive Frequency(MHz)
1	476.425	476.425
2	476.450	476.450
3	476.475	476.475
4	476.500	476.500
5	476.525	476.525
6	476.550	476.550
7	476.575	476.575
8	476.600	476.600
9	476.625	476.625
10	476.650	476.650
11	476.675	476.675
12	476.700	476.700
13	476.725	476.725
14	476.750	476.750
15	476.775	476.775
16	476.800	476.800
17	476.825	476.825
18	476.850	476.850
19	476.875	476.875
20	476.900	476.900
21	476.925	476.925
22	476.950	476.950
23	476.975	476.975
24	477.000	477.000
25	477.025	477.025
26	477.050	477.050
27	477.075	477.075
28	477.100	477.100
29	477.125	477.125
30	477.150	477.150
31	477.175	477.175
32	477.200	477.200
33	477.255	477.255

SIMPLEX Operating Mode (Cont...)

Channel Assignment	Transmit Frequency(MHz)	Receive Frequency(MHz)
34	477.250	477.250
35	477.275	477 275
36	477.300	477.300
37	477.325	477.325
38	477.350	477.350
39	477.375	477.375
40	477.400	477.400

DUPLEX Operating Mode

Channel Assignment	Transmit Frequency(MHz)	Receive Frequency(MHz)
1	477.175	476.425
2	477.200	476.450
3	477.225	476.475
4	477.250	476.500
5	477.275	476.525
6	477.300	476.550
7	477.325	476.575
8	477.350	476.600

Specifications

GENERAL

Channels	: 40
Frequency Range	: 476.425MHz to 477.4MHz
Communication Mode	
CH1 to CH8	: Simplex / Duplex
CH9 to CH40	: Simplex
Frequency Control	: Phase Locked Loop (PLL)
Controls	: On/Off Volume Control, On/Off Monitor Switch HI/LOW TX Power Switch
Buttons	: UP Key, DOWN Key, L/O Key, DUPLEX Key
Status Indicator	: TX LED at PTT On: RED
	Continuous : Transmitting
	Flashing : TX/Low Battery
	TX LED at PTT Off : GREEN
	Lights ON : Busy Channel
	: TSQ (Tone Squelch)
	CAL (Call Received or Transmitting Tones)
	PRI (Priority CH Selected)
	SCN (Scanning),
	LO (Low TX Power Selected)
	DUP (Duplex Communication)
Channel Display	: Liquid Crystal Display (LCD, Dual 7 Segment)
Connectors	: Antenna, External Speaker External Microphone AC Adaptor/Charger
Size	: 62mm W x 37mm L x 150mm H
Weight	: 390 g.
Power Requirements	: 7.2V DC
Antenna Impedance	: 50 ohms, nominal
Microphone	: Built-in Electret type
Speaker	: 8 ohms, 0.5W
Operating Temperature	
Range	: 0°C to +55°C
Shock and Vibration	: Meets or Exceeds EIA Std. RS152B and RS204C
SMA Approvals	: Type accepted under MS250

Transmitter

Power Output	
HI	: 4W (nominal), 5W (max.)
LOW	: 1W (nominal)
Modulation	: F3E, ±5kHz Deviation
Frequency Tolerance	
at 25°C	: ±300 Hz (nominal)
Mic. Sensitivity	
at ±3kHz Dev.	: 4.5mV (nominal)
Hum and Noise	
(300Hz, 3kHz BPF)	
(750µS DeEmp)	: 40dB
Modulation Frequency Response	
at 1kHz ±1kHz Dev.	
500Hz	: −6dB
2000Hz	: +7dB
Current Drain	
at HIGH Power	: 1800mA

Receiver

Sensitivity	
at 12dB SINAD	: 0.35µ V (nominal)
Squelch Sensitivity	: 0.20µ V (nominal)
	(Auto-squelch: ON)
Audio-Frequency	
Response (ref: 1kHz, ±3kHz Dev.)	
500Hz	: +6dB
2000Hz	: −7dB
Total Harmonic Distortion	
at Standard AF Output	
(50mW at 4 ohm Load)	
	: 3 %
Hum and Noise	: 40dB
Adjacent Channel	
Selectivity	
at ±25kHz	: 60dB
Image Rejection Ratio	: 45dB
IF Rejection Ratio	: 55dB
Current Drain	
Max Volume	: 250mA
Squelched	: 50mA

SELCALL

Standard	: CCIR International
Encode/Decode Format	
	: 5 or 6 Tones
Transmit Tones	: 0-9, A-D, F
Receive Tones	: 0-9, A-D, F
Tone Periods	: 20, 40, 70, 100 mSec
Lead-In Delay	: 500 mSec, 1, 2, 3, 4, Sec
Lead-In Tone	: 0-9, A-F

WARRANTY

Uniden Sundowner UH-057 Handheld UHF CB Radio
Australian 1 Year Warranty

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

WARRANTOR: Uniden Australia Pty. Limited ACN 001 865 498

ELEMENTS OF WARRANTY: Uniden warrants to the original retail owner for the duration of this warranty, its Sundowner UH-057 Handheld UHF CB Transceiver 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, (F) Installed, programmed or serviced by anyone other than an authorized Uniden Repair Agent, (G) Where the Serial Number label of the product has been removed or damaged beyond recognition.

PARTS COVERED: This warranty covers for 1 year, the Sundowner UH-057 Handheld UHF CB Tranceiver Unit only. All accessories, NICAD Battery, AC Adaptor/Battery Charger, Antenna, Belt Clip, Wrist Strap 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 CONSE-QUENTIAL DAMAGES.

WARRANTY CARD: If a warranty card has been included with this product then please fill it in and return it to us within 14 days of purchase. Your name and serial number of the product will then be registered in our database and this will help us process your claim with greater speed and efficiency should you require warranty service.

PROCEDURE FOR OBTAINING PERFORMANCE OF 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, (eg/ a copy of the sales docket), to the warrantor at:

UNIDEN AUSTRALIA PTY. LIMITED
SERVICE DIVISION
345 Princes Highway, Rockdale, NSW 2216
Ph (02) 599 3100 FAX (02) 599 3278

Customers in other States should ship or deliver the Product freight pre-paid to their nearest Uniden Authorized Repair Centre. (Contact Uniden for the nearest Warranty Agent to you)