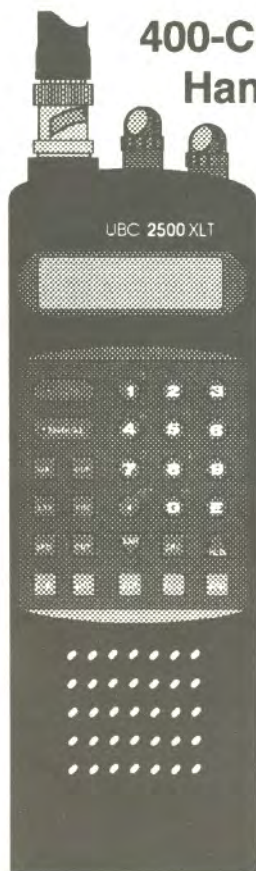


uniden[®]
Bearcat[®]

UBC 2500XLT

**400-Channel Programmable
Hand-Held Auto Scanner**



OPERATING GUIDE

PRECAUTIONS

Before you read anything else, please observe the following:

WARNING!

Uniden **DOES NOT** represent this unit to be waterproof. To reduce the risk of fire or electrical shock, **DO NOT** expose this unit to rain or moisture.

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.

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About Your New UBC 2500XLT

The UBC 2500XLT is a brand new state-of-the-art *information radio* with automatic scanning capabilities. It can store frequencies such as police, fire/emergency, marine, air, weather frequencies, and other broadcasts into 20 banks of 20 channels each. The new Rotary Tuner feature enables rapid and easy selection of channels and frequencies. And with AUTO STORE, you can automatically program any channel.

With the **UBC 2500XLT**, you can scan all 400 channels at selectable speeds, including the super fast Turbo Scan. In addition, the **UBC 2500XLT** has an automatic frequency-sorting capability for faster scanning within each bank.

What is Scanning?

Unlike standard AM or FM radio stations, most two-way communications (listed below) do not transmit continuously. The UBC 2500XLT scans programmed channels at the rate of nearly 100 channels per second (in Turbo Scan Mode), until it finds an active frequency.

Scanning stops on an active frequency, and remains on that channel as long as the transmission continues. When the transmission ends, the scanning cycle resumes until another transmission is received. An optional Delay can be set so that the scanner stays on the channel for 2 more seconds, waiting for another transmission before resuming scanning.

Types of Communication

You will be able to monitor communication such as:

- Police and fire department (including rescue and paramedics)
- Weather broadcasts
- Business/industrial radio
- Motion picture and press relay
- Utility
- Land transportation frequencies, such as trucking firms, buses, taxis, tow trucks, and railroads
- Marine and amateur (ham radio) bands
- Air band
- Public Service 800 MHz band
- Cellular band

And many more in the following frequency ranges:
25-28.995 MHz, 29-55.995 MHz, 56-69.950 MHz,
70-87.995 MHz, 88-107.950 MHz, 108-136.9875 MHz,
137-173.995 MHz, 174-221.995 MHz, 222-399.9875 MHz,
400-519.9875 MHz, 520-549.950 MHz, and 760-1300 MHz.

Unpacking

Carefully check the contents against this list:

- UBC 2500XLT Auto Scanner
- Rubber Antenna
- AC Adaptor/Charger (AAD-2500U)
- Earphone
- Leather-like Carrying Case
- Belt Clip
- This Operating Guide

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

Please read this Operating Guide thoroughly before operating the scanner.

Optional Accessories

The following optional accessories for your UBC 2500XLT are available from your local Uniden Dealer or through the Uniden Technical Service Division.

Straight Cigarette Lighter Power Cord (UA502) - Use for temporary operation from your vehicle's cigarette lighter.

Coiled Cigarette Lighter Power Cord (UA502A) - Use for temporary operation from your vehicle's cigarette lighter.

Spare Battery Pack (BP2500)

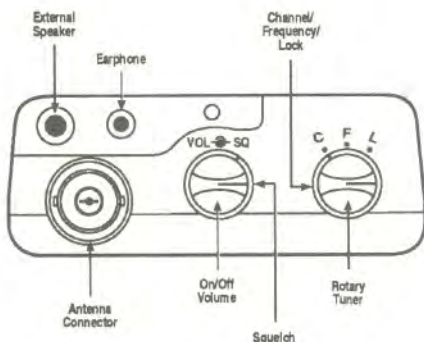
Feature Highlights

- **Turbo Scan** This lightning-fast technology enables the UBC 2500XLT to scan and search nearly 100 channels or steps per second. Because the frequency coverage is so large (see "Technical Specifications" section for band listing), a very fast scanning system is essential. That is why we combined our latest technology — Turbo Scan — into the UBC 2500XLT.
- **VFO Control** (**V**ariable **F**requency **O**scillator) Turn the Rotary Tuner to select the desired frequency or channel.
- **400 Channels** You can program each of these memory channels to store one frequency.
- **20 Banks** Each bank contains 20 channels, useful for storing similar frequencies in order to maintain faster scanning cycles.
- **25 MHz - 1.3 GHz** Indicates the range of frequencies that can be searched within the bands of your scanner. (**Note:** The frequency coverage is not totally continuous from 25.0 MHz to 1.3 GHz.)
- **Priority Channels** You can assign *one* Priority Channel in each of Banks 1 through 10. Assigning priority channels allows you to keep track of activity on your most important channel(s) while monitoring other channels for transmissions.
- **Weather Channels** Lets your scanner function as a weather information radio.
- **Auto Store** Automatically stores all active frequencies within the specified bank(s).
- **Auto Sorting** Programmed frequencies are automatically sorted within each bank for faster scanning.
- **Battery-Free Memory** The stored channels are retained in memory when the Battery Pack is removed from the scanner.

Note : Currently the Weather Service is not available in Australia.

Controls and Indicators

Top View



EXTERNAL SPEAKER JACK

When using an optional External Speaker system, connect the External Speaker plug here.

EARPHONE JACK

Plug the earphone into this jack for private listening. When the earphone is connected, the internal speaker is disconnected.

ANTENNA CONNECTOR

Connect the rubber antenna to this BNC connector and turn clockwise until it locks.

ON-OFF/VOLUME CONTROL

(Inner control) This control turns the scanner on or off, and also adjusts the volume.

SQUELCH CONTROL

(Outer control) Adjust the outer control to set the scan threshold. When monitoring a single channel in Manual Mode, adjust the Squelch Control to eliminate the background rushing noise heard in the absence of an incoming signal.

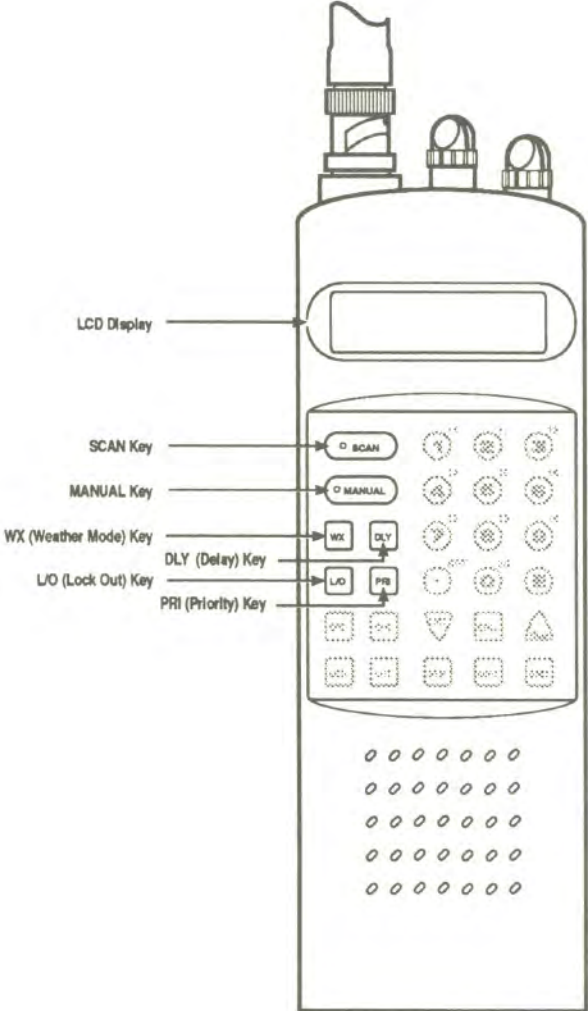
CHANNEL/FREQUENCY/LOCK SELECTOR

(Outer control) Turn the **[C/F/L]** Selector to "C" to enable channel selection, or to "F" to enable frequency selection. In the "L" position, the Rotary Tuner is disabled, and cannot be used to select (display) channels or frequencies.

VFO CONTROL (ROTARY TUNER)

(Inner control) Use the Rotary Tuner to select a channel or frequency. Turn the control *clockwise* to STEP UP, or *counter-clockwise* to STEP DOWN, a channel or frequency.

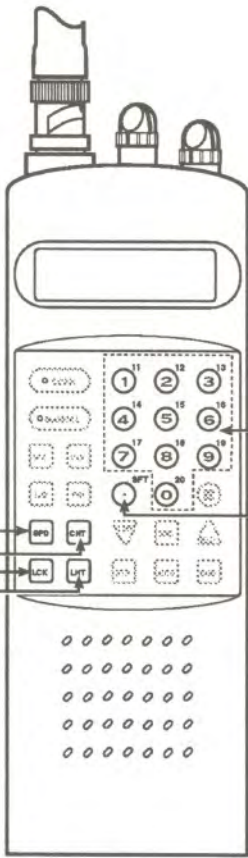
Front View



- LCD DISPLAY** The liquid crystal display (LCD) shows the current channel and frequency. It also displays the mode, status, and bank indicators.
- SCAN KEY** Press [**SCAN**] to start scanning all programmed channels that are not locked out. ("SCAN" appears on the display during scanning.)
- MANUAL KEY** In Scan or Search Mode, press [**MANUAL**] to stop scanning or searching, and to select a channel. After you stop the scanner, press [**MANUAL**] again to STEP UP a channel or frequency. Press and *hold* to rapidly step through the channels or frequencies. Use the numeric keypad to enter a channel number, and then press [**MANUAL**] to access the channel.
- WX KEY** There are 7 weather channels. Press [**WX**] to find the active weather channel in your area. ("WX" appears on the display in Weather Mode.)

Note : Currently the Weather Service is not available in Australia.

- DELAY KEY** Use [**DLY**] to turn ON or OFF the automatic 2-second delay during scanning or searching for active frequencies. (In Delay Mode, "DLY" appears on the display.) In this mode, when the scanner monitors an active frequency, searching or scanning will not resume until transmission stops for 2 seconds.
- L/O KEY** Press [**L/O**] to "lock out" or prevent scanning of the displayed channel, including Priority Channels. ("L/O" appears on the display.) To unlock a channel, press [**L/O**] again. [**L/O**] can be used in Manual Mode, or Scan Mode, only on programmed channels. To display locked out channels, turn the Rotary Tuner, or press [**HLD**], [**LMT**], [**MANUAL**] to manually step through the selected bank. (**Note:** *Locking out a channel will not erase the programmed frequency.*)
- PRI KEY** You can assign "priority" to *one* channel in each of Banks 1 through 10. To assign priority, first display the selected channel, and then press and *hold* [**PRI**] for more than 2.5 seconds. A "P" appears on the display beside the Priority Channel. In Priority Mode, the scanner monitors the Priority Channel(s) every 2 seconds. If activity is detected, the scanner monitors that channel until no signal is present. ("PRI" appears on the display.)



SPD (Speed) Key

CNT (Count) Key

LCK (Keypad Lock) Key

LHT (Light) Key

Numeric Keypad

SFT (Shift) Key

SPEED KEY Press **[SPD]** to select the scanning speed, normal or Turbo Scan. (In Turbo Scan Mode, "TURBO" appears next to "SCAN" on the display.) At normal speed, the scanner scans 16 to 20 channels per second. In Turbo speed, the scanner scans nearly 100 channels per second.

COUNT KEY Use **[CNT]** to indicate the number of times the scanner stopped on a channel during its last scan. First press **[MANUAL]** to stop scanning. Then press **[CNT]**. (In Count Mode, "COUNT" appears on the display.) Turn the Rotary Tuner (with **[C/F/L]** selector set to "C") or press **[MANUAL]** to display each channel and number count.

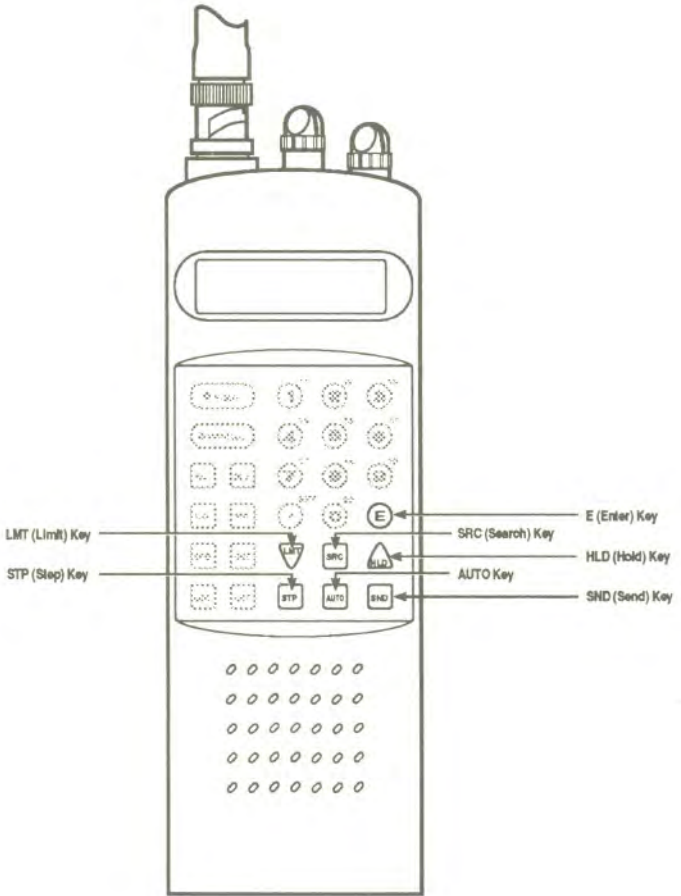
KEYPAD LOCK Press and *hold* **[LCK]** for 2 seconds to turn the keypad ON or OFF. "KEYLOCK" appears on the display when the keypad is disabled. Use this key to avoid any accidental key entries.

LIGHT KEY Press **[LHT]** to turn the display light ON for 15 seconds. Press **[LHT]** again to manually turn the light OFF.

NUMERIC KEYPAD Use these keys to program a channel for scanning. Also use to access a channel directly with **[MANUAL]**. During Scan Mode, use these keys to select or deselect any of the 20 memory banks. (Only the selected bank indicator(s) appear on the display.) **Note:** *You cannot deactivate all 20 banks.*

Bank	Channel	Bank	Channel
1	1 - 20	11	201 - 220
2	21 - 40	12	221 - 240
3	41 - 60	13	241 - 260
4	61 - 80	14	261 - 280
5	81 - 100	15	281 - 300
6	101 - 120	16	301 - 320
7	121 - 140	17	321 - 340
8	141 - 160	18	341 - 360
9	161 - 180	19	361 - 380
10	181 - 200	20	381 - 400

SFT[.] (SHIFT) KEY This key has several functions: (a) During scanning, press **[.]** with a numeric key to enter a bank number from 11 - 20. For example, to select Bank 13, press **[.] [3]**. To select Bank 20, press **[.] [0]**; (b) Press this key *twice* to clear a number you entered during programming; (c) Press this key *twice* to reset the number count in Count Mode.



LIMIT KEY This key has two functions in Search Mode: (a) to step down a frequency; and (b) to set the search band limits. To manually step down, press and *hold* [LMT]. Press and *hold* for more than one second to rapidly move down the frequencies.

To set the lower and upper limits of the search band, first enter the number for the *lower* limit and press [LMT]. Then enter the number for the *upper* limit and press [LMT].

STEP KEY Use [STP] to change the step increment when accessing frequencies. Press [STP] to change the factory preset auto step to 5 kHz, 12.5 kHz, 25 kHz, or 50 kHz, or press [.] twice to reset back to auto steps. (The selected step setting appears on the display.)

ENTER KEY (Within the numeric keypad) Press [E] to store a displayed frequency into any displayed channel. **Note:** *If you try to store the same frequency into another channel, the display will show the original channel for that frequency. To store the same frequency into the selected channel, press [E] again.*

SEARCH KEY Press [SRC] to start searching for active frequencies within preset ranges of any band. Normally, the search continues from the frequency where it left off in the previous search. The scanner will automatically start searching upward from the lowest frequency of its band. ("SRCH" appears on the display in Search Mode.)

During Search, you can press [LMT] to hold the displayed frequency, and press [LMT] again to manually step down a frequency, or press [HLD] to manually step up a frequency. Press and *hold* [LMT] or [HLD] to rapidly step through the frequencies.

HOLD KEY Press [HLD] in Search Mode to stop searching. ("HOLD" appears on the display.) Press [HLD] again to step up one channel. Press and *hold* [HLD] for more than 1 second to rapidly move through the frequencies. In Hold Mode, press [LMT] to STEP DOWN to the next lower frequency. To resume the search, press [SRC].

AUTO KEY Use [AUTO] to automatically store active frequencies into *open* (empty) channels of specified banks. To use Auto Store, first set the upper and lower limits of the band to be searched. In Search Mode, press [AUTO] to activate the Auto Store feature. Press the numeric key(s) for the bank(s) to store the frequencies. ("AUTO" appears on the display

when Auto Store is activated.) To stop Auto Store, press [HLD], [MANUAL], or [AUTO].

SEND KEY

Press [SND] to transfer a displayed frequency to any open (empty) bank channel. When the bank indicators start flashing, press the numeric keys for the selected bank. Then press [E] to complete the transfer.

LCD Display



MEMORY BANK NUMBERS

(1 through 20) Each memory bank consists of 20 channels that you can select or deselect during scanning operation, using the numeric keypad. When you *select* a bank, its number appears on the display. When you *deselect* a bank, its number disappears from the display. When you press [MANUAL] to stop scanning, only the bank of the current channel appears.

MODE INDICATORS

Indicate the current mode(s) of operation (TURBO, SCAN, PRI, DLY, AUTO, SRCH, COUNT, HOLD, L/O, WX, KEYLOCK). Each of these modes is described in the Front Panel features section, in the related key description. **Note:** *Only the active mode(s) are displayed during operation.*

STEP INDICATOR

Indicates the frequency step automatically when the scanner moves through the selected band. While searching for active frequencies, you can change the factory preset auto step to **5 kHz, 12.5 kHz, 25 kHz, 50 kHz**, or press [.] twice to reset back to auto steps. **Note:** *Manually selected steps are erased when you turn off the power.*

SIGNAL MODE INDICATOR

Displays the automatic signal selection: **AM, NFM, or WFM.**

LOW BATTERY INDICATOR

Appears on the display when the Battery Pack is low and needs recharging.

CHANNEL NUMBER

Indicates the current channel that the scanner is on.

FREQUENCY NUMBER

Indicates the frequency being received by the scanner.

Setup

The **UBC 2500XLT** comes with a rechargeable Nickel-Cadmium Battery Pack. When fully charged, this Battery Pack will supply up to 5 hours of dependable use.

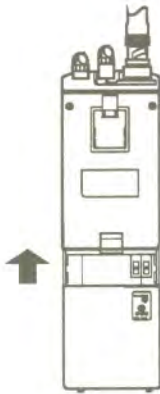
Before using the **UBC 2500XLT** for the first time, or whenever the **LOW BATTERY** Indicator appears on the LCD display, you should fully charge the Battery Pack.

Note: *When the Battery Pack is low, the Low Battery Indicator will start to blink. After about 10 minutes, the scanner will shut itself off to prevent the battery from becoming completely discharged.*

Before charging, you must first install the Battery Pack according to the steps below.

Installing the Battery Pack

1. Turn the On-Off/Volume Control OFF.
2. Slide the pack onto the bottom of the scanner until it clicks.



Charging the Battery Pack

1. Plug the AC Adaptor/Charger (AAD-2500U) into the Charging Jack located on the back of the Battery Pack.

WARNING! *Use only the supplied AC Adaptor/Charger. Any other AC adaptor or external power plug having over-voltage or reversed polarity can cause overheating or damage to the circuitry.*

2. Plug the AC Adaptor/Charger into a standard AC outlet.

To fully charge the battery, leave the Adaptor/Charger connected for 14 to 16 hours. **Note:** *You can operate the unit while the battery is charging.*

3. When charging is complete, disconnect the Adaptor/Charger from the AC outlet and from the Battery Pack.

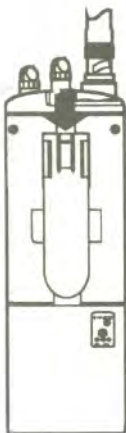
Note: *Disconnect the AC Adaptor/Charger from the unit during a power failure.*

Mounting the Flexible Antenna

Place the end of the antenna onto the BNC connector on top of the scanner and turn clockwise until tight.

Installing the Belt Clip

Place the Belt Clip slightly above the mounting area on the back of the scanner, and press downward and in.



Scanning Overview

Note: Before operating the UBC 2500XLT for the first time, make sure you have fully charged the Battery Pack.

1. Before turning on the scanner, rotate the Squelch Control fully clockwise.
2. Turn the scanner on by rotating the On-Off/Volume Control clockwise until you hear a click.
3. Adjust the volume to a comfortable listening level.
4. Turn the Squelch Control counterclockwise *just* until the "rushing" noise disappears. At the squelch threshold, any incoming signal just slightly stronger than the noise will open the squelch.

Note: When squelch is open, you can hear the broadcast (scanning is stopped). If squelch is set too tight, that is, too far **counterclockwise** from the threshold point, a stronger signal is required to open the squelch. If squelch is set on a point **clockwise** from the threshold, you will hear a constant sound (noise, if no signal is present.) The scanner will not scan.

The UBC 2500XLT has 400 memory channels, each of which can be programmed to store one frequency. The channels are divided into twenty 20-channel banks, useful for storing similar frequencies in order to maintain faster scanning cycles.

You can monitor communication in one of two ways:

- **Bank SCAN** If you have programmed channels, you can scan all programmed channels in the selected bank(s), except locked out channels. When scanning stops on an active frequency, it remains on that channel as long as the transmission continues. If the Delay Mode is on, the scanner remains on the same channel for 2 more seconds, waiting for a responding transmission. If there is no responding transmission within 2 seconds, the scanning cycle resumes.
- **Band SEARCH** The Search function is *different* from Scan. When you select a frequency band to search, the scanner searches for any active frequency within the lower and upper limits of the band. When an active frequency is found, the scanner stops on that frequency as long as the transmission lasts. If the Delay Mode is on, the scanner remains on the same channel for 2 more seconds, waiting for a responding transmission. If there is no responding transmission within 2 seconds, the scanning cycle resumes.

Programming Channels

Before you can scan, you must program the channels within a bank. You can store one frequency per channel, up to 400 channels.

Each time you store a frequency, the list of scanning frequencies in the bank is automatically sorted by frequency number. This unique Auto Sort feature enables faster scanning. When you manually step through a bank, however, frequencies are sorted according to channel number.

With the UBC 2500XLT, there are a number of ways to program a channel:

- Manually selecting a channel and frequency, using the numeric keypad
- Using the Rotary Tuner to select a channel and frequency
- Searching a band to find active frequencies, and then storing them into channels
- Using the Auto Store feature to automatically program channels
- Transfer a programmed frequency from another channel

Try each of the following programming methods, and then use the one that's right for *you!*

A. Programming By Manual Entry

Before you begin, if "KEYLOCK" appears on the display, press and *hold* [LCK] for 2 seconds to unlock the numeric keypad and enable manual programming.

1. Select a frequency.

Example: Program 460.150 MHz into Channel 23.

2. Press [MANUAL] to stop scanning.
3. Press [2] [3].
4. Then, press [MANUAL].
5. Enter the frequency number using the numeric keypad.

Note: *Be sure to include the decimal point.*

[4] [6] [0] [.] [1] [5] [0]

If you make a mistake and want to clear the entry, press [.] twice and re-enter the correct frequency.

6. Press **[E]** to store the entry.

- *If the frequency is already stored in another channel, the other channel will appear on the display. To resolve the conflict, just enter another frequency for the currently selected channel. (Later, we'll discuss how to delete a stored frequency.)*
- *Any frequency already stored in a channel will automatically be replaced by the new one.*
- *"Error" appears on the display if an error is made during programming, or if the frequency is out of range. To clear the error, enter a valid channel or frequency number.*

To program another channel, repeat the above procedures.

B. Programming With the Rotary Tuner

To program a channel using the Rotary Tuner:

1. If the UBC 2500XLT is scanning, press **[MANUAL]** to stop scanning.
2. Select a channel to be programmed by turning the Rotary Tuner to display the channel. (Rotate the control *clockwise* to step up a channel, or *counterclockwise* to step down a channel.)

Note: *If the Channel/Frequency/Lock Selector **[C/F/L]** is set to "L" (lock), turn the control to "C" to enable channel selection using the Rotary Tuner.*

3. Turn the Channel/Frequency/Lock Selector to "F" to enable frequency selection.
4. Select a frequency to be stored by turning the Rotary Tuner to display the frequency. (Rotate the control *clockwise* to step up a frequency, or *counterclockwise* to step down a frequency.)

Note: *When you rotate the Rotary Tuner, the channel selection flashes on the display. This means that the frequency displayed is not programmed in that channel.*

5. To store the displayed frequency into **the current channel**, continue with Step 6

— OR —

To store the displayed frequency into **another selected channel**, skip to Step 7

— OR —

To store the displayed frequency into **another bank's open (empty) channel**, skip to Step 10.

6. Press **[E]**. The frequency is now programmed into the current channel.

You are finished, and may now skip to the next section.

7. Press **[SND]** *twice*. When the channel number blinks, enter the new channel number using the numeric keys.
8. Press **[HLD]** to see if the selected channel is already programmed.

If the selected channel already has a stored frequency:

The display alternates between the current channel/frequency and the selected channel/frequency. If you wish to keep the selected channel's frequency, press **[.]** *twice* to return to Step 7. Otherwise, that frequency will be replaced by the new frequency selection when programming is completed.

If the selected channel is open (empty):

The display alternates between the current channel/frequency and the selected channel/open frequency (000.000).

Note: *Be sure you have pressed [HLD] before continuing with the next step. Otherwise "Error" appears on the display when you try to complete the programming entry. This is to avoid accidentally erasing a frequency you want to keep.*

9. Press **[E]** to complete programming.

You are finished, and may now skip to the next section.

10. Press **[SND]**.

"**BANK**" flashes on the display, and the current bank number is shown.

11. Press the numeric key(s) for the new bank selection.

The new bank indicator appears, and its *lowest* open channel starts flashing. When programming is completed, the frequency will automatically be stored into the channel. **Note** : After entering the selected bank number if the screen displays a message indicating the bank is "FULL", in this case select another bank.

12. Press **[E]** to complete programming.

The frequency is stored, and the bank channel is displayed with its new frequency. (The old channel will retain its original frequency.)

Programming With SEARCH

ch feature enables you to rapidly search for active frequencies within the specified band limits. When an interesting frequency is found, you can store it into a channel using the procedure below.

Press **[MANUAL]** to stop scanning.

Use the numeric keypad to enter the *lower limit* and *upper limit* of the band to be searched. (See "Technical Specifications" for a list of search bands.)

Note : *When you first use the scanner, you must set the search limits **before** activating SEARCH. Otherwise, when you try to start SEARCH, error tones are emitted and "Error" appears on the display.*

Example: Set search limits of 137.000 to 144.000 MHz.

First enter the lower limit by pressing:

[1] [3] [7] [.] [0] [0] [0]

Press **[LMT]**.

Then enter the upper limit by pressing:

[1] [4] [4] [.] [0] [0] [0]

Press **[LMT]**.

The search limits of the selected band are now set, and remain in effect even when you turn off the scanner.

3. Press **[SRC]** to start the search.

Note: *During the search, you can manually change the step increment, if desired. To change the step, press **[STP]** one time for each selection: 5 kHz, 12.5 kHz, 25 kHz, or 50 kHz, or press **[.]** twice to reset to default.*

4. When Search stops on an interesting frequency, press **[HLD]** to stay on that frequency.

Note: *If you press **[HLD]** again, you step up a frequency. If you press **[LMT]**, you step down a frequency. Press and **hold** either key to rapidly step through the frequencies.*

5. To store the displayed frequency into:

- (a) **the current channel**
- (b) **another selected channel**
- (c) **another bank's open (empty) channel**

Please refer to Step 5 of the previous section. The procedures are the same.

To leave the Search Mode, press **[MANUAL]** or **[SCAN]**.

D. Programming With AUTO STORE

The Auto Store feature automatically stores all active frequencies into **open** (empty) channels of specified bank(s). To use AUTO STORE:

1. Press **[MANUAL]** to stop scanning.
2. Use the numeric keypad to set the *lower limit* and *upper limit* of the band to be searched. (See "Technical Specifications" for a list of search bands.)

Note : *When you first use the scanner, you must set the search limits **before** activating AUTO STORE. Otherwise, when you try to start AUTO STORE, error tones are emitted and "Error" appears on the display.*

Example: Set search limits of 137.000 to 144.000 MHz.

First enter the lower limit by pressing:

[1] [3] [7] [.] [0] [0] [0]

Press **[LMT]**.

Then enter the upper limit by pressing:

[1] [4] [4] [.] [0] [0] [0]

Press **[LMT]**.

The search limits of the selected band are now set, and remain in effect even when you turn off the scanner.

Note: *During AUTO STORE, you can manually change the step increment, if desired. To change the step, press **[STP]** one time for each selection: 5 kHz, 12.5 kHz, 25 kHz, or 50 kHz, or press **[.]** twice to reset to default.*

3. Press **[AUTO]** to activate AUTO STORE.

All bank numbers begin flashing, and "AUTO" appears on the display.

Select the bank(s) to be programmed. The indicators of the selected banks stop flashing.

Note: *If the selected bank is full, that is, all 20 channels are programmed, "FULL" appears on the display. In this case, select another bank.*

Press **[SRC]** to start programming.

On the display, only the indicators of the selected banks remain. The indicator of the bank currently being programmed starts blinking. The channel currently being stored is also displayed.

Note: *During AUTO STORE, the search does not stop on any active channel. You will not hear any audio, and no duplicate frequency will be stored.*

TO STORE stops automatically when all available channels in the selected banks are stored. "FULL" appears, and the last channel stored is displayed.

To stop AUTO STORE manually, press **[HLD]**, **[MANUAL]**, **[AUTO]**. The last channel number and its frequency are displayed.

• Transferring a Programmed Frequency to Another Open Channel

This feature allows you to reassign a stored frequency to another bank's open channel.

Note: *You cannot transfer a Priority Channel (preceded by a "P" on the display). You must assign the Priority to another channel in the same bank before transferring the frequency. (Priority Channels are described later in "Setting Up Priority Channels".)*

1. Press **[MANUAL]** to stop scanning.
2. Use the Rotary Tuner (or any other previously described method) to select a programmed channel.
3. Press **[SND]** to activate the Transfer feature.

All bank indicators start flashing on the display.

4. Press the numeric key(s) of the selected bank.

Only the indicator of the selected bank remains on the display. The bank's *lowest* open channel flashes, waiting to be programmed.

5. Press **[E]** to complete the transfer.

The frequency is now stored in the new channel, and the old channel is empty.

Deleting a Stored Frequency

To delete a frequency from a channel:

1. Display the channel and frequency that is to be deleted.
2. Press **[0]** on the numeric keypad.
3. Press **[E]**.

The current channel is erased, and the display shows "000.000".

Scanning

1. Turn on the power, or press [**SCAN**] to start scanning.

Note: *When the scanner is turned on, it is automatically in Scan Mode.*

The indicators for the selected banks (1 through 20) appear on the display. The indicator of the bank currently being monitored flashes.

While the UBC 2500XLT is scanning, the "SCAN" message moves across the display. Scanning stops on any active channel automatically and displays its frequency, except those channels programmed with "L/O" (Lock Out). Scanning resumes automatically after the channel becomes inactive, unless DELAY is activated.

2. **Deselect** any bank(s) from being scanned by entering the number of the bank.

The deselected bank indicator(s) disappear from the display, and its channels will not be scanned. This procedure helps to speed up the scanning cycle.

Note: *One bank must always remain active. You cannot deactivate all 20 banks at the same time.*

Note: *When you turn off the scanner and turn it back on, the previous bank selections will remain in effect.*

To restore any bank for scanning, just enter its number again. (The bank indicator will appear on the display.)

To stop scanning any time, press [**MANUAL**]. When you press [**MANUAL**] to stop scanning, you are out of Scan Mode. The scanner remains on the displayed channel, and only the bank indicator for that channel appears. If you press [**MANUAL**] again, you will step up a channel. If you press [**LMT**], you will step down a channel. Press and *hold* either key to rapidly step through the channels.

Note: *You do not skip a locked out ("L/O") channel using any of these keys.*

To start scanning again, press [**SCAN**].

To directly access a specific channel:

1. Press [**MANUAL**].
2. Enter the channel number using the numeric keys.
3. Press [**MANUAL**] again.

Weather Channel Scanning

The UBC 2500XLT allows you to search for your local weather channel.

Press **[WX]** to find the active weather channel in your area from 7 preprogrammed channels. "wx" appears on the display.

To exit Weather Mode, press **[SRC]**, **[SCAN]**, or **[MANUAL]**.

It is possible that your area is covered by more than one weather station.

When you press **[WX]**, the UBC 2500XLT will find an active broadcast immediately. If the broadcast sounds weak and distant, press **[WX]** again to look for a closer station.

Note : Currently the Weather Service is not available in Australia.

Customizing Scanner Operation

Setting the Scanning Speed

Press **[SPD]** to select the scanning speed, normal or Turbo Scan. (In Turbo Scan Mode, "TURBO" appears on the display next to "SCAN".) In Normal Scan Mode, the UBC 2500XLT scans 16 to 20 channels per second. In Turbo Scan Mode, the unit scans nearly 100 channels per second.

Setting the Delay Mode

In the normal default setting, when Search or Scan stops on an active frequency, searching or scanning will not resume until the transmission stops for 2 seconds. If no response is detected, the scanning cycle resumes until another transmission is received. To turn off the automatic 2-second delay (except in Auto Store Mode), press **[DLY]**. (The "DLY" Indicator disappears from the screen.)

To enable the 2-second delay again, press **[DLY]**. (The "DLY" Indicator reappears.)

Setting the Step Size

Use **[STP]** to change the step increment when moving between frequencies of a search band. Press one time each to change the factory preset auto step to 5 kHz, 12.5 kHz, 25 kHz, or 50 kHz, or press **[.]** twice to reset back to auto steps. Manually selected step is displayed "flashing" during the search and erased when you turn off the power.

Setting the LCD Display Light

To illuminate the LCD Display at night, or under dim conditions when it is difficult to view, press **[LHT]**. The display will remain illuminated for 15 seconds. To turn off the light sooner, press **[LHT]** again.

Preventing Accidental Programming

The UBC 2500XLT has a Lock feature to prevent accidental programming entries. Simply press and *hold* **[LCK]** for 2 seconds to turn off the numeric keypad. "KEYLOCK" appears on the display when the keypad is disabled. Press and *hold* **[LCK]** again for 2 seconds to turn on the keypad.

Locking the Rotary Tuner

You can lock the Rotary Tuner to prevent changing channels or frequencies accidentally while monitoring a broadcast. To disable the Rotary Tuner, turn the Channel/Frequency/Lock **[C/F/L]** Selector to "L". To enable the Rotary Tuner, turn **[C/F/L]** to "C" to enable channel selection, or to "F" to enable frequency selection.

Channel Lock Out

You can lock out any programmed channels (including Priority Channels) so they will not be scanned, if desired.

Note: *Locking out a programmed channel does not erase the frequency in the channel.*

This feature is active in Manual Mode or Scan Mode.

To lock out a channel:

Press [**L/O**] when the scanner is on a channel you do not want to hear.

"**L/O**" appears on the screen to indicate that the displayed channel is now locked out.

Note: *If you lock out all Priority Channels and press [**PRI**], the screen displays "**Pch Loc Out**" for 3 seconds, and Priority cannot be activated. (Priority Channels are described shortly in "Setting Up Priority Channels.")*

To restore a locked out channel:

1. Display the locked out channel, using one of the previously described methods.
2. Press [**L/O**].

"**L/O**" disappears to indicate that the channel is now unlocked and restored for scanning.

To restore all locked out channels of a selected bank at one time:

1. Press [**SCAN**] to start scanning.
2. When the indicator of the selected bank starts flashing, press [**MANUAL**] to stop scanning.
3. Press and hold [**L/O**] for more than 2.5 seconds.

You will hear 2 short beeps, indicating that all channels are unlocked and restored for scanning.

Searching for Locked Out Channels

During scanning, you will not see locked out channels. To look for locked out channels and display them on the screen, first press [**MANUAL**] to stop scanning. Then use the Rotary Tuner to step through the bank. "**L/O**" will appear on the screen to indicate the locked out channels.

Setting Up Priority Channels

When you assign "priority" to a bank channel, you designate one bank channel as your most important channel.

During scanning the UBC 2500XLT works like a "dual watch" function. It starts "sampling" or keeping track of the activity on the Priority Channel while listening to other channels. Every 2 seconds, the scanner checks the Priority Channel for activity. If a signal is present, the Priority Channel will be monitored until the transmission ends, and scanning resumes. If DELAY is activated, scanning resumes after 2 seconds.

Note : *The Priority feature is also active in Manual, Search and WX Modes.*

Each bank comes with one programmable Priority Channel (the lowest channel in each bank). You can reassign Priority Channels to *any* bank channel if the displayed Channel Number is **200 or less** (Banks 1 through 10). In multi-Priority Channel operation, the *lower* channel number has higher priority.

Note: *Priority settings are **not** erased when you turn off the scanner, or after a power failure.*

To set up a Priority Channel:

1. First program your most important frequency into a bank channel.
2. Press and hold **[PRI]** for more than 2.5 seconds.

A "**P**" appears on the display to indicate the designated channel.

Note: Any previously assigned Priority Channel within the same bank is automatically deselected.

Using COUNT to Monitor Channel Activity

To determine the amount of channel activity during a scanning session, use the Count feature. It counts the number of times scanning stops on an active channel.

To activate the Count feature:

1. Press **[SCAN]**, and allow the scanner to scan for about 5 to 10 minutes, or longer if desired.
2. Press **[MANUAL]** to stop scanning.
3. Press **[CNT]**.
"COUNT" appears on the display.
4. Turn the Rotary Tuner or press **[MANUAL]** to display each channel and the number count (up to "99").

To reset the Count number to "00", press **[.]** twice.

To exit Count Mode, press **[CNT]**.

Care and Maintenance

Replacing the Rechargeable Battery Pack

When it is time to install a new Battery Pack, use only the one made for this scanner. Any other type of battery may damage your unit.

To replace the Battery Pack:

1. Remove the Belt Clip by lifting the tab and carefully sliding it upward and out.
2. Remove the Battery Pack by pressing in and sliding it down and off.
3. Install the new Battery Pack by sliding the pack onto the bottom of the scanner until it clicks.
4. Replace the Belt Clip.

Note: *Be sure to recharge the Battery Pack before using the scanner.*

Battery Maintenance

Most rechargeable batteries typically suffer from “memory effect” which occurs gradually over time, shortening the usable time of the Battery Pack when it is fully charged. After 2 to 3 months of use, when the Battery Pack holds a charge for a somewhat shorter period than when first used, follow these steps:

1. Leave the scanner on until the Battery Pack is drained. (See the Low Battery Indicator description in the “Controls and Indicators” section for more information.)
2. Recharge the Battery Pack for 14 to 16 hours to ensure a full charge.
3. After the Battery Pack is fully recharged, you may need to reprogram the channels.

General Use

- Turn the scanner off before removing the Battery Pack.
- Always write down the programmed frequencies in the event of memory loss. If memory is lost, simply reprogram each channel.
- Always press each keypad button firmly until you hear the entry tone for that key entry.

Location

- If strong interference or electrical noise is received, relocate the scanner or its antenna away from the source of the noise. A higher elevation, if possible, may provide better reception.
- **Do not** use the scanner in high-moisture environments such as the kitchen or bathroom.
- Avoid placing the unit in direct sunlight or near heating elements or vents.

Cleaning

- Disconnect the power to the unit before cleaning.
- Clean the outside of the scanner with a mild detergent.
- To prevent scratches, **do not** use abrasive cleaners or solvents. Be careful not to rub the LCD window.
- **Do not** use excessive amounts of water.

Repairs

Do not attempt any repair. The scanner contains no serviceable parts. Contact the Uniden Technical Service Division.

Birdies

All scanners are subject to receiving undesired signals or birdies. Birdies are the products of internally generated signals that make some frequencies difficult or impossible to receive. If your scanner stops during Search Mode and no sound is heard, it may be receiving a birdie. If the interference is not severe, you might be able to turn the Squelch Control counterclockwise to cut out the birdie. Or, press **[SRC]** to resume searching.

If you program one of the following frequencies, you will hear only noise on that channel.

Frequencies found to have birdies on the UBC 2500XLT are:

27.3550	161.0500	359.3125	921.5875
29.0350	162.8400	422.2500	936.8875
38.3950	162.8450	468.8500	1024.0125
51.1950	167.3550	805.4375	1112.6375
140.7950	218.5550	818.2875	1125.4625
143.1550	256.9125	819.2125	1227.7000
153.5950	308.3000	856.6625	
154.5150	323.9000	911.2875	

Troubleshooting

If your UBC 2500XLT is not performing properly, try the steps listed below.

PROBLEM	SOLUTION
Scanner won't work.	<ul style="list-style-type: none">• Check the power connections.• Check the volume and squelch.• Make sure the power switch is turned on.
Improper reception.	<ul style="list-style-type: none">• Check the antenna connection.• You may be in a fringe area. Reposition the scanner.
Scan won't stop.	<ul style="list-style-type: none">• Adjust the Squelch Control.• Check the antenna connection.• It is possible that none of the programmed frequencies are active at the time. Try the band search.
Scan won't start.	<ul style="list-style-type: none">• Make sure there are some programmed channels.• Adjust the Squelch Control.
Search won't start.	<ul style="list-style-type: none">• Adjust the Squelch Control.
Keypad won't work.	<ul style="list-style-type: none">• Check the Keypad Lock.

If you still cannot get satisfactory results and want additional information, or to return the unit for service, please call or write the Uniden Technical Service Division. The address and phone number are listed in the Warranty (at the end of this manual).

For Proper Care of Your Scanner

- Use only the AC Adaptor/Charger that came with your scanner.
- **Do not** leave the AC Adaptor/Charger plugged in for long periods.
- Avoid placing the scanner in direct sunlight or near heating elements or vents.
- Also, **do not** subject the scanner to continuous sub-zero temperatures. If the scanner is exposed to temperatures below -20 °C or above +60 °C, the liquid crystal display (LCD) may temporarily cease to function properly, or can become **permanently damaged**.

Technical Specifications

Banks:	Total 20 banks
WX:	7 programmed (Weather Channel)
Search Band:	Total 12 Search bands (NFM, AM, or WFM)

Display	Frequency Coverage	Default Steps
25 - 29	25.0000 to 28.9950 MHz (AM)	5.0 kHz
29 - 56	29.0000 to 55.9950 MHz (NFM)	5.0 kHz
56 - 70	56.0000 to 69.9500 MHz (WFM)	50.0 kHz
70 - 88	70.0000 to 87.9950 MHz (NFM)	5.0 kHz
88 - 108	88.0000 to 107.9500 MHz (WFM)	50.0 kHz
108 - 137	108.0000 to 136.9875 MHz (AM)	12.5 kHz
137 - 174	137.0000 to 173.9950 MHz (NFM)	5.0 kHz
174 - 222	174.0000 to 221.9950 MHz (WFM)	50.0 kHz
222 - 340	222.0000 to 399.9875 MHz (AM)	12.5 kHz
400 - 520	400.0000 to 519.9875 MHz (NFM)	12.5 kHz
520 - 550	520.0000 to 549.9500 MHz (WFM)	50.0 kHz
760 - 824	760.0000 to 823.9875 MHz (NFM)	12.5 kHz
824 - 849	824.0100 to 848.9700 MHz (NFM)	30.0 kHz
849 - 869	849.0000 to 868.9875 MHz (NFM)	12.5 kHz
869 - 894	869.0100 to 893.9700 MHz (NFM)	30.0 kHz
894-1300	894.0000 to 1300.0000 MHz (NFM)	12.5 kHz

Scan Rate: 100 channels per sec. (Turbo Scan Mode)
20 channels per sec. (Normal Scan Mode)

Scan Delay: 2 seconds

Audio Output: Max 0.4W

Antenna: Rubber antenna included

Operating Temperature: - 20°C to + 60°C

Size: 70mm(L) x 38mm(W) x 190mm(H)

Weight: 0.39 kg.

Power Requirements 12V DC (internal battery, AC Adaptor/
Charger, or cigarette lighter adaptor)

Note : For bands with 30 kHz default , no step indicator will be shown on the LCD display.

Weather Channel Broadcasting Service is currently not available in Australia.

Features, specifications, and availability of optional accessories are all subject to change without notice.

WARRANTY

Uniden UBC 2500XLT Scanning Receiver Australian 1 Year Warranty (Accessories are covered for 90 days only).

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 UBC 2500XLT Scanning Receiver (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 UBC 2500XLT Scanning Receiver only. Battery , Antenna , AC Adaptor and other accessories (Earphone , Leather Carry Case , Belt Clip) 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.

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. LTD.- SERVICE DIVISION
345 Princess Highway , Rockdale , NSW 2216
Ph (02) 599 3100 FAX (02) 599 3278

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

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