
Additional Features

The following additional features are designed for you to customize your scanner. Once these features have been turned on or off, they will remain as they are set until you reset them, even if you turn the scanner off and then on again.

Dimmer

To change brightness of the display:

1. Press **MENU**.
2. Press **E** to select **SYSTEM DATA**.
3. Press **E** to select **DIMMER**.
4. Select one from **High-Medium-Off** using ▲ or ▼ and then press **E**.

Enter Lock

You can lockout the keypad to prevent any accidental entry. To activate this feature:

1. Press **MENU**.
2. Press **E** to select **SYSTEM DATA**.
3. Press ▼ to select **ENTER LOCK** then press **E**.
4. Set to **ON** using ▲ or ▼ and then press **E**.
The  icon appears on the display when locked.

Key Beep Option

To choose beep sound on or off:

1. Press **MENU**.
2. Press **E** to select **SYSTEM DATA**.
3. Press ▼ to select **KEY BEEP** and then press **E**.
4. Set to **ON** or **OFF** using ▲ or ▼ and then press **E**.

Screen Mask

The trunk, frequency, receiving mode, and signal meter indications on the display are masked when this feature is activated. (except while in Search mode) This feature reduces the amount of displayed information.

1. Press **MENU**.
2. Press **E** to select **SYSTEM DATA**.
3. Press ▼ to select **SCREEN MASK** and then press **E**.
4. Set to **ON** or **OFF** using ▲ or ▼ and then press **E**.
5. To quickly turn off the screen mask, press the **VFO/SELECT** control.

Reverse Mode

This key will allow the user to observe the reverse frequency of the repeater. While pressing  **/RVRS**, the standard pair frequency will be displayed. For a list of the standard pair frequencies, refer to the table "Reverse List" in the Appendix. If the frequency that you have chosen does not have an offset frequency, the second line will indicate the error and display **NO REVERSE**. This feature does not work in the WX Search mode.

Mute On/Off

To manually turn on the Mute function, press and hold **MUTE** for more than 1 second until the **MUTE ON** is displayed. You will not hear any audio. This feature does not function in the WX alert mode, because the audio is already muted. To turn it off, press **MUTE** again.

Record On/Off

It is possible for you to record every one of the 500 channels or every ID that you have programmed. (up to 1000 IDs). Once you have determined the channels or talkgroups that you want to record, you must mark them to be recorded. Through the menu system, set the **RECORD ON** for each channel, ID, or talkgroup using the **2: CHANNEL DATA**, **3: TRUNK DATA**, or **4: SEARCH EVENT** menu screens. The audio signal from the **TAPE OUT** Jack on the rear of the scanner will be turned on for each one that was marked. When this feature is set on, the "LINE" icon appears in the display. (Refer to page 11)

Channel Step Selection

You can set channel steps, 5 kHz - 100 kHz or Auto, in Manual mode or Chain search mode. The default receive mode should be the proper mode setting in almost all cases. You may wish to set some VHF channels for NFM mode, depending on any adjacent channel interference problems. Note that WFM is typically only used for broadcast frequencies, such as TV audio or FM radio.

See "STEPS" in Menu Description for details.

Receiving Mode Selection

You can also set the receiving mode, AM or FM etc., in Manual mode or Chain search mode.

See "MODE" in Menu Description for details.

Frequency and Channel Tuning with the VFO Control

The **VFO** knob can be used for changing frequencies or changing memory channels (for conventional channels or talkgroup ID Scan Lists).

1. The default setting is Channel. The **CHAN** icon appears in the display in this setting. In Manual mode, turn the **VFO** control to the right (to step up through channels) or to the left (to step down through channels). If you are in Trunk Manual mode, you will step through Scan List memory locations (whether the **CHAN** or the **FREQ** icon is active).
2. To change the default setting to Frequency, press the **VFO/SELECT** control in Manual mode. The icon will change to **FREQ**. Now turn the **VFO** to the right to step up through frequencies sequentially or to the left to step down through frequencies. To change the step, you will need to go into the Channel Data Menu and adjust the step for the desired memory location.

Care and Maintenance

General Use

- Turn the scanner off before disconnecting the power.
- Always write down the programmed frequencies in the event of memory loss.
- If memory is lost, simply reprogram each channel. The display shows 000.0000 in all channels when there has been a memory loss.
- Always press each button firmly until you hear the entry tone for that key entry, unless you have turned off the **KEY BEEP** in the menu system.

Location

- 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.
- If the scanner receives strong interference or electrical noise, move it or its antenna away from the source of the noise. If possible, a higher elevation, may provide better reception. Also try changing the height or angle of the antenna.

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 user serviceable parts. Contact the Uniden Customer Service Center or take it to a qualified repair technician.

Birdies

- All radios can receive birdies (undesired signals). If your scanner stops during Scan mode and no sound is heard, it may be receiving a birdie. Birdies are internally generated signals inherent in the electronics of the receiver.

Press **L/O** to lockout the channel, and then press **SCAN** to resume scanning.

Troubleshooting

If your BC 780XLT is not performing properly, try the following steps.

Problem	Suggestion
Scanner won't work.	1. Check the connections at both ends of the AC Adapter. 2. Turn on the wall switch of your room. You could be using an outlet controlled by the wall switch. 3. Move the AC Adapter to another wall outlet.
Improper reception.	1. Check the antenna connection or move and reposition the antenna. 2. Move the scanner. 3. You may be in a remote area which could require an optional multi-band antenna. Check with your dealer or local electronics store.
Scan won't stop.	1. Adjust squelch threshold - refer to page 12, "Setting the Squelch". 2. Check the antenna connection. 3. Check to see if many of the channels are locked out. If so, the scanner has less chance of finding an active channel. 4. Review each channels frequency to see if it is still stored in memory and is correct. 5. Its possible that none of the programmed frequencies are currently active.
Scan won't start.	1. Press the SCAN key again. 2. Adjust the SQUELCH control. 3. Check to see if all channels are locked out.
Weather Scan won't work.	1. Adjust squelch threshold - refer to page 12, "Setting the Squelch". 2. Check the antenna.

If you experience difficulty while in TrunkTracker mode, try the following steps.

Problem	Suggestion
Scanner won't track.	1. May not be a system which can be tracked by your scanner. Make sure you press and hold TRUNK for 2 seconds to enter into trunk mode. 2. Missing the data frequency. 3. Change to a Type 1 Scanner setup. Review Fleet Map Programming on page 54.
Scanner won't stop during Scan List mode.	1. No IDs have been programmed. 2. The IDs you have stored are not active.
Scanner will not acquire data channel.	1. Adjust the squelch for trunking mode. See page 39. 2. Missing the frequency used for the data channel. Check your frequency list.
Missing replies to conversations.	1. Change to a Type 1 Scanner setup. Review Fleet Map Programming on page 54. 2. Try another Preset Fleet Map or Program your own Fleet Map. 3. Check to see that all of the systems frequencies have been entered.
Channel Activity Indicators are flashing but no sound is heard.	1. May be a telephone interconnect call, which are intentionally blocked by your scanner. 2. The ID in your display is not active.
Scanner not tracking an EDACS system properly.	1. Logical channel numbers (frequencies) for the system are not programmed in the correct order. Check frequency resources and reprogram. 2. Not all frequencies for the system are programmed. Check frequency resources.

If you still cannot get satisfactory results while using your scanner or if you want additional information, please call or write the Uniden Parts and Service Division. The address and phone number are listed in the Warranty at the end of this manual. If you would like immediate assistance, please call Customer Service at (800)297-1023.

If you have internet access, you can visit www.uniden.com or www.trunktracker.com or www.bearcat1.com/free.htm or www.bc780xlt.com for additional information.

Specifications

Certified in accordance with FCC Rules and Regulations Part 15, Subpart C, as of date of manufacture.

Channel:	500
Banks:	10 (50 channels each)
Service Bands:	11 preprogrammed search bands (including the NOAA Weather Service band)
Frequency Range:	25.0-28.0 MHz Petroleum Prod., CB Class D channels, Business and Forest Products 28.0-29.7 MHz 10 Meter Amateur Band 29.7-50.0 MHz VHF Low Band 50.0-54.0 MHz 6 Meter Amateur Band 54.0-108 MHz VHF TV, FM broadcast, Intersystem and Astronomy 108-137 MHz Aircraft Band 137-144 MHz Military Land Mobile 144-148 MHz 2 Meter Amateur Band 148-174 MHz VHF High Band 174-406 MHz VHF TV, 1.25 Meter Amateur Band, UHF Aircraft Band 406-420 MHz Federal Government 420-450 MHz 70 cm Amateur Band 450-470 MHz UHF Standard Band 470-512 MHz UHF TV Band 806-956 MHz 800 Band 1240-1300 MHz 25cm Amateur Band
Operating Temperature:	-20 °C to +60 °C
Scan Rate:	100 channels per second (conventional mode)
Search Rate:	100 steps per second (Normal Search) 300 steps per second (Turbo Search)
Audio Output:	Maximum 3.0W (2.3W normal @ 10% THD)
Internal Speaker	8 ohms (56 mm outer diameter)
Power Requirements:	AD580U AC Adapter (13.8V DC, 700mA)
Antenna:	Telescopic Antenna (included)
Antenna Jack:	BNC type
External Jacks:	External Speaker (EXT.SP.) (3.5 mm) DC 13.8 V Power Jack, (center is positive) Remote Control (REMOTE) Jack (DB-9) Tape Recorder Out (TAPE OUT) Jack (3.5 mm)
Size:	6-15/16 in. (W) x 6-9/16 in. (D) x 2-3/8 in. (H) 176.5mm (W) x 167mm (D) x 61mm (H)
Weight:	1.33 kg (41.96 oz.)

Features and specifications are all subject to change without notice.

Glossary of Terms

Glossary of terms

Alpha tag - This term refers to an alphanumeric text tag that you can enter to describe the individual frequencies that you have programmed. Rather than having to associate a specific frequency to the individuals that are using it, you can enter the actual name of the group. This will eliminate the need for memorizing the group's frequency.

Attenuator - This scanner comes with a feature to attenuate or reduce the signal strength. The built-in attenuator can be turned on specific frequencies to prevent strong signals from overloading the scanner input, possibly damaging the scanner or missing other transmissions due to the repeated stopping on the stronger signal.

Clone - This term identifies the ability to set up a duplicate scanner. This function allows you to clone all the programming information, including frequencies, talkgroups and alpha tags as well as bank settings and other parameters from one BC780XLT to another.

Control Channel - A Control Channel is the frequency within a trunking system that runs the system. On Control Channels (sometimes called Data Channels) you will hear a buzzsaw sound. For the most part, it is the sound of the system's central computer directing talkgroups to particular voice (working) frequencies within the system.

CTCSS - Continuous Tone Controlled Squelch System- refers to a system where the radio receivers are equipped with tone responsive devices which allow audio signals to appear at the audio output, select voice processing such as scrambling or control repeater functions only when a carrier modulated with a specific tone is received. This method may be used to restrict access to the repeater or receiver, or reduce interference where several stations with output frequencies in close proximity of each other make it difficult to hear the conversation you are interested in. With CTCSS squelching, you can eliminate the possibility of hearing unwanted conversations by selecting one of the 38 standard subaudible tones. You will only hear those transmissions that have been programmed on specific frequencies with the specific subaudible tone that you have selected.

DCS - (Digital Controlled Squelch) refers to a system where the radio receivers are equipped with data burst responsive devices which allow audio signals to appear at the audio output, select voice processing such as scrambling or control repeater functions only when a carrier modulated with specific data burst is received. This method may be used to restrict access to the repeater or receiver, or reduce interference where several stations with output frequencies in close proximity of each other make it difficult to hear the conversation you are interested in. With DCS squelching, you can eliminate the possibility of hearing unwanted conversations by selecting one of the 104 standard data burst subaudible tones. You will only hear those transmissions that have been programmed on specific frequencies with the specific subaudible tone that you have selected.

Enter Lock - This is the term used for locking the keypad. This prevents accidental re-programming of channels and talkgroups entered into memory. The default setting is off.

When ENTER LOCK is enabled, the following functions will be disabled:

- Enter or modify the Channel frequency
- Enter or modify the Tone information
- Enter or modify the Trunking ID. (this can be modified through the menu screen.)

FIPS codes - For the purpose of broadcasting weather information, the NWS (National Weather Service) has divided the United States into regions by state and county (or parish, where applicable) then assigned a 6 digit FIPS code to identify each county or parish. The first digit represents the county subdivision, the next two represents the state, and the last three digits represent the county or parish. Your scanner can receive all SAME alert signals broadcasted within about a 50-mile radius of where you install it. So if you only want to hear the counties that are nearest to your area, you can choose specifically the FIPS code of areas that you want. This lets you avoid hearing warnings that apply to an area within a 50-mile radius but not necessarily in your county or parish.

I-Call - Most communications within a trunked system are group calls where one unit (such as a dispatcher) communicates with all the units within her group (all the patrol vehicles on the east side of town, for example). The units within this group comprise what is typically known as a talkgroup. There are some communications which are direct unit-to-unit conversations where one individual converses with another individual. The call is initiated by a radio and is directed to another single radio. Within the system, no one outside of these two users hears the conversation. This call is referred to as I-Call.

Key Beep - This is another term for the tone you hear as a keypad acknowledgement beep. The default setting is on. If you have turned the Key Beep off, you now have a silent keypad. You will not hear a tone each time you press a key.

NWR S.A.M.E. Weather Alert - In 1994, the National Oceanic and Atmospheric Administration (NOAA) began broadcasting coded signals called FIPS (Federal Information Processing System) codes along with the standard weather broadcasts for stations in your area. These codes identify an emergency and the specific geographic area (such as your county) affected by the emergency. The scanner was developed with SAME (Specific Area Messaging Encoding) technology. This allows you scanner to receive, interpret, and display the information about the codes so you can determine if the emergency might affect you area. Each FIPS code identifies a specific geographic area (defined by the National Weather Service) so your scanner sounds an alert only when a weather emergency is declared in those locations. This helps you more efficiently track the weather conditions in and around your area.

PC Control - This term is associated with the ability to program frequencies and other useful information via a computer by means of the Uniden national database or third party software. You can change the transfer speed on the scanner needed to be compatible with your PC. (See page 65)

Scan List - When you designate a bank to be a trunking bank, your scanner sets up 10 Scan Lists, which are simply list of your favorite IDs. Each list can contain up to 10 IDs, so you can store a total of 100 IDs for each trunk bank. These lists are designed to help you organize the trunking system users into categories.

Screen mask - Screen Mask reduces the amount of information that appears on the display. Alpha tags that you have set for a channel along with a few function icons will appear only on the display. This mode is particularly useful in public safety vehicles where that are already overloaded with information. Screen Mask does not work in Search mode.

SmartScan - This term identifies the ability to download frequencies and other useful information for any area of the 50 states from the Uniden national database via an external modem or the internal modem on your personal computer (PC). This can be accomplished by means of the free downloadable software when using the PC or the direct dial method when using an external modem. See page 59 for details.

Status Bit - This term refers to Motorola Type II systems. There is a method by which special types of communications utilize unique talk group numbers. For example, if all emergency calls are set to occur on a specific talk group number then you will not miss the transmission even if you have not programmed all the talk group numbers. With the Status Bit on and you have programmed the unique number, then you don't have to worry what the rest of the groups numbers are. The topic of interest will be picked up.

Talkgroup - A group of users within a trunked system that communicate with one another.

Appendix

Preset Fleet Maps

Preset Map 1

Block	Size Code
0	S11
1	S11
2	S11
3	S11
4	S11
5	S11
6	S11
7	S11

Preset Map 2

Block	Size Code
0	S4
1	S4
2	S4
3	S4
4	S4
5	S4
6	S4
7	S4

Preset Map 3

Block	Size Code
0	S4
1	S4
2	S4
3	S4
4	S4
5	S4
6	S12
7	--

Preset Map 4

Block	Size Code
0	S12
1	--
2	S4
3	S4
4	S4
5	S4
6	S4
7	S4

Preset Map 5

Block	Size Code
0	S4
1	S4
2	S12
3	--
4	S4
5	S4
6	S4
7	S4

Preset Map 6

Block	Size Code
0	S3
1	S10
2	S4
3	S4
4	S12
5	--
6	S12
7	--

Preset Map 7

Block	Size Code
0	S10
1	S10
2	S11
3	S4
4	S4
5	S4
6	S4
7	S4

Preset Map 8

Block	Size Code
0	S1
1	S1
2	S2
3	S2
4	S3
5	S3
6	S4
7	S4

Preset Map 9

Block	Size Code
0	S4
1	S4
2	S0
3	S0
4	S0
5	S0
6	S0
7	S0

Preset Map 10

Block	Size Code
0	S0
1	S0
2	S0
3	S0
4	S0
5	S0
6	S4
7	S4

Preset Map 11

Block	Size Code
0	S4
1	S0
2	S0
3	S0
4	S0
5	S0
6	S0
7	S0

Preset Map 12

Block	Size Code
0	S0
1	S0
2	S0
3	S0
4	S0
5	S0
6	S0
7	S4

Preset Map 13

Block	Size Code
0	S3
1	S3
2	S11
3	S4
4	S4
5	S0
6	S0
7	S0

Preset Map 14

Block	Size Code
0	S4
1	S3
2	S10
3	S4
4	S4
5	S4
6	S12
7	--

Preset Map 15

Block	Size Code
0	S4
1	S4
2	S4
3	S11
4	S11
5	S0
6	S12
7	--

Preset Map 16

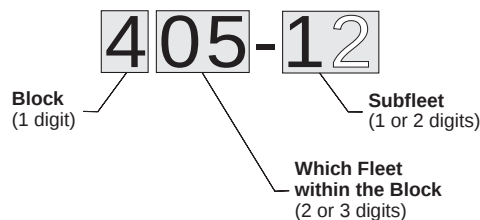
Block	Size Code
0	S3
1	S10
2	S10
3	S11
4	S0
5	S0
6	S12
7	--

User Defined Fleet Maps

Type I Programming Information

When a Type I system is designed, the address information for all the IDs is divided into 8 equal sized blocks, numbered 07. When you program your scanner to track a Type I system, you must select a size code for each of these blocks. When you have assigned a size code to all 8 blocks, you'll have defined the Fleet Map for the system you're tracking. Each size code determines the number of Fleets, Subfleets, and IDs each block will have. For example, a size code of "4" has one Fleet, which is divided into 16 separate Subfleets, and it has a total of 512 individual IDs.

When a block is assigned a size code, the Fleet or Fleets created within the block are assigned a Type I ID. The way these IDs display on your scanner depend on the block number and the blocks size code. When a Type I ID displays, the left most digit represents the block which contains the ID. The next two or three digits identify which Fleet is active, and the last digit(s) identifies the Subfleet.



The details concerning how the size codes are selected by a Type I System designer are highly dependent on the specific needs of the systems users. Some organizations may want many subfleets with only a few radios each, while another organization may want only a few subfleets with many radios each. Your task is to program your fleet map with the same size code assignments as the trunked system. If you do this accurately, you'll track all the Fleet-Subfleet combinations used by the system. In other words, you'll hear complete communications while monitoring a trunked system.

If you don't already know the size codes used, you'll have to guess at them. But since you don't have to figure out all the blocks at once, this isn't as hard as it seems. Select a size code for a block, and then press **SCAN**. Now listen to the communications. If you decide you are receiving most of the replies to the conversations with IDs assigned to the block you just programmed, then you've probably selected the right size code and can work on the next block of the map.

Finally, for most public safety systems there are some size codes which are more common. SIZE CODE 3 and SIZE CODE 4 are probably the most common, followed by SIZE CODE 10, SIZE CODE 11, and SIZE CODE 12.

Fleet Map Size Codes

Size	Fleets	Subfleets	IDs	Blocks Used
0	Reserves block for Type II IDs			+
1	128	4	16	1
2	16	8	64	1
3	8	8	128	1
4	1	16	512	1
5	64	4	32	1
6	32	8	32	1
7	32	4	64	1
8	16	4	128	1
9	8	4	256	1
10	4	8	256	1
11	2	16	256	1
12	1	16	1024	2
13	1	16	2048	4
14	1	16	4096	8

Size Code Restrictions

If you select size code 12, 13, or 14, there are some restrictions as to which blocks can be used for these codes.

- SIZE CODE 12 can only be assigned to Blocks 0, 2, 4, or 6.
- SIZE CODE 13 can only be assigned to Blocks 0 and 4.
- SIZE CODE 14 can only be assigned to Block 0.

Since these size codes require multiple blocks, you will be prompted for the next available block when programming a Fleet Map. For example, if you assign Block 0 as an SIZE CODE 12, you will be prompted for Block 2, the next block available, instead of Block 1. And if you assign Block 0 as an SIZE CODE 14, you would not see another prompt because it uses all available blocks.

NWR-SAME EVENT CODE

Event Code	Standard	Event Level (Siren Type)				LCD Display
		Warning	Watch	Statement	Test	
Emergency Action Notification	EAN	0				EMG NOTIFY
Emergency Action Termination	EAT	0				EMG TERMINATE
National Information Center	NIC	0				NATIONAL INFO
Tornado Warning #	TOW _(or TOR)	0				TORNADO
Service Thunderstorm Warning #	SVW _(or SVR)	0				THUNDERSTORM
Flash Flood Warning	FFW	0				FLASH FLOOD
Flash Warning	FLW	0				FLOOD
Winter Storm Warning	WSW	0				WINTER STORM
Blizzard Warning	BZW	0				BLIZZARD
High Wind/ Dust Storm Warning	HWW	0				HIGH WIND
Radio logical Hazard Warning	RHW	0				RADIOLOGICAL
Civil Danger Warning	CDW	0				CIVIL DANGER
Local Area Emergency	LAE	0				LOCAL EMG
Hazardous Material Warning	HMW	0				HAZARDOUS
Civil Emergency Message	CEM	0				CIVIL EMG
Immediate Evacuation Warning	IEW	0				EVACUATION
Immediate Evacuation Notice	EVI	0				EVACUATE NOTE
Law Enforcement Warning	LEW	0				LAW ENFORCEMENT
Fire Warning	FRW	0				FIRE

Event Code	Standard	Event Level (Siren Type)				LCD Display
		Warning	Watch	Statement	Test	
Hurricane/Tropical Storm Warning	HUW	0				HURRICANE
Tsunami Warning	TSW	0				TSUNAMI
Coastal Flood Warning	CFW	0				COASTAL FLOOD
Special Marine Warning	SMW	0				SPECIAL MARINE
Avalanche Warning	AVW	0				AVALANCHE
Volcano Warning	VOW	0				VOLCANO
Shelter In Place Warning	SPW	0				SHELTER
Civil Danger Watch	CDA		0			CIVIL DANGER
Radiological Hazard Watch	RHA		0			RADIOLOGICAL
Hazardous Material Watch	HMA		0			HAZARDOUS
Winter Storm Watch	WSA		0			WINTER STORM
High Wind/ Dust Storm Watch	HWA		0			THUNDERSTORM
Tornado Watch	TOA		0			HIGH WIND
Service Thunderstorm Watch	SVA		0			THUNDERSTORM
Flash Flood Watch	FFA		0			FLASH FLOOD
Flood Watch	FLA		0			FLOOD
Hurricane/ Tropical Storm Watch	HUA		0			HURRICANE
Tsunami Watch	TSA		0			TSUNAMI
Coastal Flood Watch	CFA		0			COASTAL FLOOD
Avalanche Watch	AVA		0			AVALANCHE
Volcano Watch	VOA		0			VOLCANO

Event Code	Standard	Event Level (Siren Type)				LCD Display
		Warning	Watch	Statement	Test	
Hurricane/ Tropical Storm Warning	EAN	0				EMG NOTIFY
Service Weather Statement	SVS			0		SERVICE WX
Special Weather Statement	SPS			0		SPECIAL WX
Flash Flood Statement	FFS			0		FLASH FLOOD
Flood Statement	FLS			0		FLOOD
Hurricane Statement	HLS			0		HURRICANE
National Periodic Test	NPT				0	NATION PERIOD
Required Monthly Test	RMT				0	MONTHLY
Required Weekly Test	RWT				0	WEEKLY
System Demonstration/ Practice	DMO			(No Siren)	LCD	SYSTEM DEMO
National Hazard Warning	NHW	0				NATION HAZARD
Unknown Emergency Tune TV	**E	0				UNKNOWN TV
Unknown Warning Tune TV	**W	0				UNKNOWN TV
Unknown Watch Tune TV	**A		0			UNKNOWN TV
Unknown Statement Tune TV	**S			0		UNKNOWN TV

REVERSE LIST

Range	Offset	Range	Offset
29.520 - 29.580	+0.1 MHz	445.000 - 449.9875	-5 MHz
29.620 - 29.680	-0.1 MHz	450.000 - 454.9875	+5 MHz
52.010 - 52.990	+1 MHz	455.000 - 459.9875	-5 MHz
53.010 - 53.990	-1 MHz	460.000 - 464.9875	+5 MHz
143.750	+4.375 MHz	465.000 - 469.9875	-5 MHz
143.900	+4.25 MHz	470.000 - 472.9875	+3 MHz
144.510 - 144.890	+0.6 MHz	473.000 - 475.9875	-3 MHz
145.110 - 145.490	-0.6 MHz	476.000 - 478.9875	+3 MHz
146.010 - 146.385	+0.6 MHz	479.000 - 481.9875	-3 MHz
146.415 - 146.505	+1 MHz	482.000 - 484.9875	+3 MHz
146.595	+1 MHz	485.000 - 487.9875	-3 MHz
146.610 - 146.985	-0.6 MHz	488.000 - 490.9875	+3 MHz
147.000 - 147.390	+0.6 MHz	491.000 - 493.9875	-3 MHz
147.415 - 147.505	-1 MHz	494.000 - 496.9875	+3 MHz
147.595	-1 MHz	497.000 - 499.9875	-3 MHz
147.600 - 147.990	-0.6 MHz	500.000 - 502.9875	+3 MHz
148.125	-4.375 MHz	503.000 - 505.9875	-3 MHz
148.150	-4.25 MHz	506.000 - 508.9875	+3 MHz
222.120 - 223.380	+1.6 MHz	509.000 - 511.9875	-3 MHz
223.720 - 224.980	-1.6 MHz	806.000 - 823.9875	+45 MHz
420.000 - 424.9875	+5 MHz	851.000 - 868.9875	-45 MHz
425.000 - 429.9875	-5 MHz	896.000 - 901.000	+39 MHz
440.000 - 444.9875	+5 MHz	935.000 - 940.000	-39 MHz

CTCSS Frequency List (Hz)

67.0	71.9	74.4	77.0	79.7	82.5	85.4	88.5	91.5	94.8
97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3	131.8
136.5	141.3	146.2	151.4	156.7	162.2	167.9	173.8	179.9	186.2
192.8	203.5	210.7	218.1	225.7	233.6	241.8	250.3		

DCS Tone Code

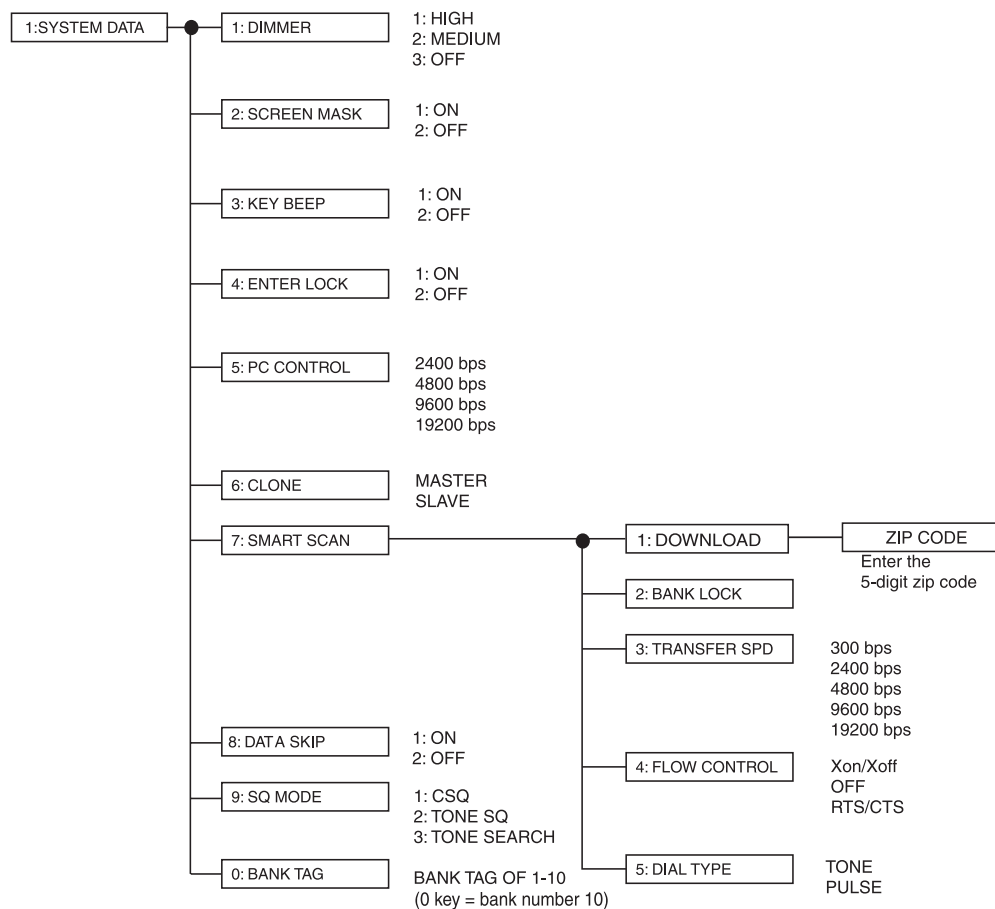
023	025	026	031	032	036	043	047	051	053
054	065	071	072	073	074	114	115	116	122
125	131	132	134	143	145	152	155	156	162
165	172	174	205	212	223	225	226	243	244
245	246	251	252	255	261	263	265	266	271
274	306	311	315	325	331	332	343	346	351
356	364	365	371	411	412	413	423	431	432
445	446	452	454	455	462	464	465	466	503
506	516	523	526	532	546	565	606	612	624
627	631	632	654	662	664	703	712	723	731
732	734	743	754						

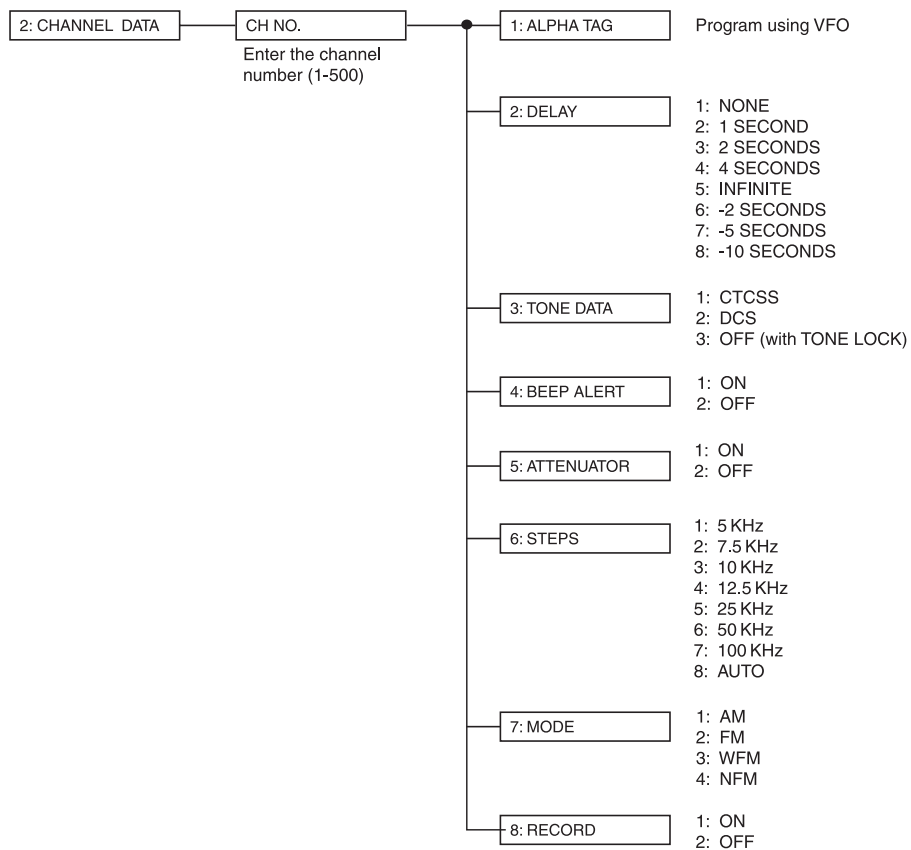
Memo

Memo

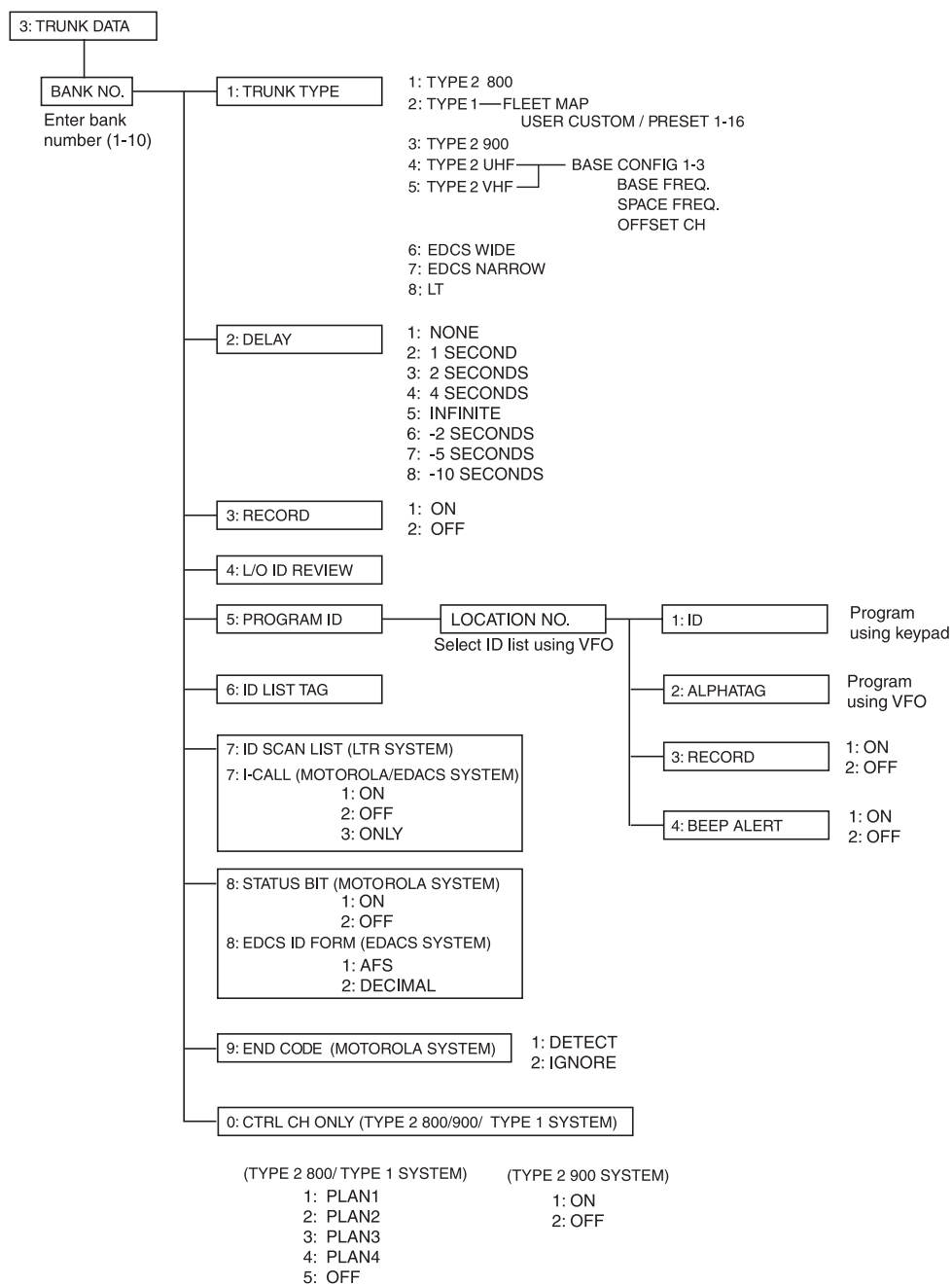
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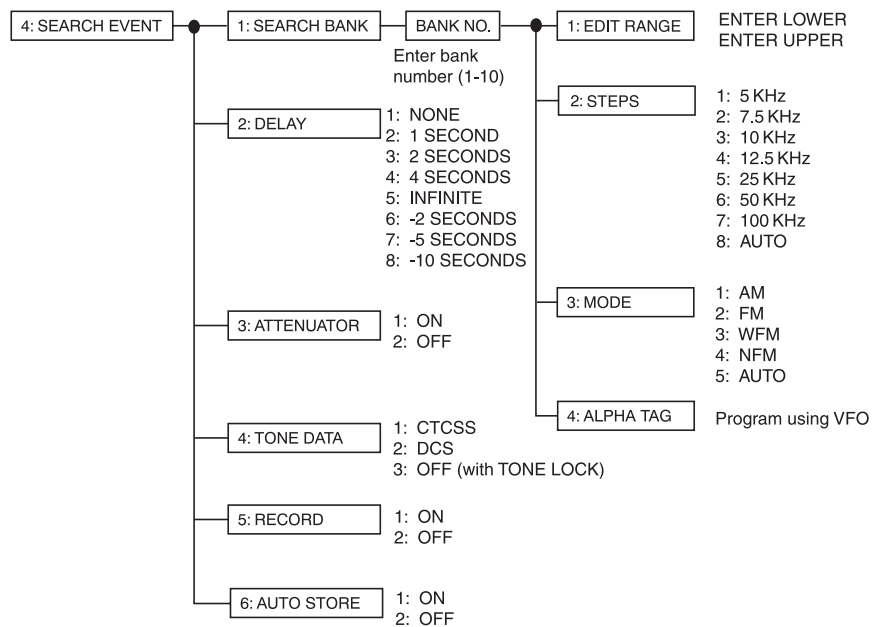
BC780XLT Flow Charts





BC780XLT Flow Charts (continued)





One Year Limited Warranty

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

WARRANTOR: UNIDEN AMERICA CORPORATION (Uniden)

ELEMENTS OF WARRANTY: Uniden warrants, for one year, to the original retail owner, this Uniden 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 user shall terminate and be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owners manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owners manual you are certain that the product is defective, pack the Product carefully (preferably in its original packaging). The product should include all parts and accessories originally packaged with the Product. Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

UNIDEN AMERICA CORPORATION
Parts and Service Division
4700 Amon Carter Boulevard
Fort Worth, TX 76155
(800) 554-3988, 7 a.m. to 5 p.m. Central Time, Monday through Friday

Covered under one or more of the following U.S. patents:

4,398,304	4,409,688	4,455,679	4,461,036	4,521,915	4,597,104
4,627,100	4,841,302	4,888,815	4,932,074	4,947,456	5,014,348
5,199,109	5,408,692	5,428,826	5,438,688	5,448,256	5,465,402
5,471,660	5,483,684	5,530,296	5,548,832	5,551,071	5,557,995
5,577,076	5,598,430	5,600,223	5,642,424	5,710,992	

and other patents pending.

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