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***S1 PMR446***  
***User Manual***

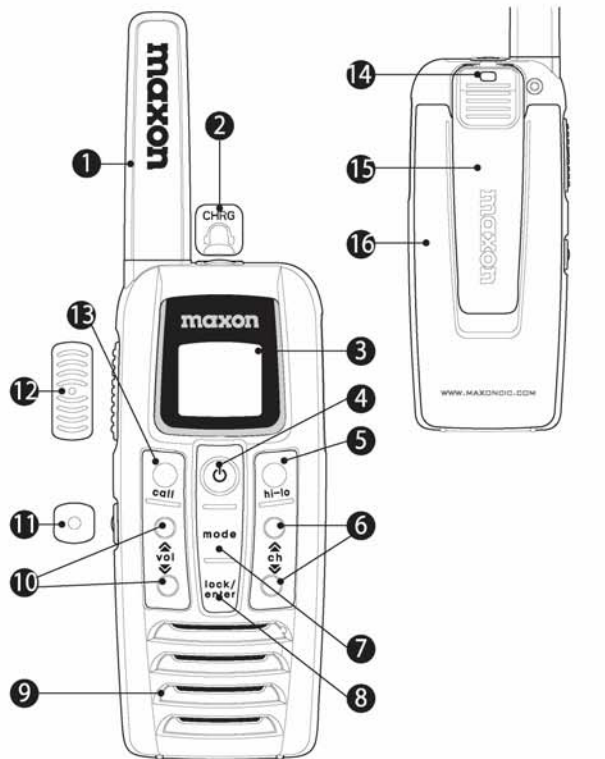


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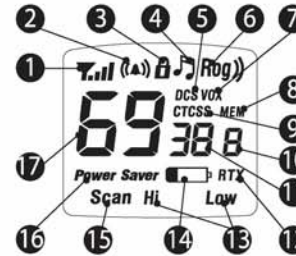
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## Product Features



1. Antenna
2. External Speaker/  
Microphone/Charge Jack
3. Backlit LCD Display
4. On/Off Power Button
5. Hi-Low Power Button
6. Channel Up/Down Button
7. Mode Button
8. Lock/Enter Button
9. Speaker/Microphone
10. Volume Up/Down Button
11. Light/Max Range Button
12. Talk Button
13. Call Button
14. Wrist Strap Connector
15. Belt Clip
16. Battery Compartment

## Backlit LCD Display



1. Signal Strength Meter Icon
2. Call Alert and Vibration Alert
3. Lock Icon
4. Keystroke Tones Icon
5. DCS Icon
6. Roger Beep icon
7. VOX Icon
8. Memory Icon
9. CTCSS Icon
10. Memory Location Icon
11. Privacy Code Numbers
12. Receive/Transmit Icon
13. Hi-Low Power Icons
14. Battery Low Indicator
15. Scan Icon
16. Power Save Icon
17. Channel Numbers

## Features

- PMR 8 Channels  
LPD 69 Channels (S1+  
models only)
- 121 Privacy Codes  
(38 CTCSS codes  
183 DCS Codes)
- Hands Free Operation  
(VOX)
- Backlit LCD Display
- Button Lock
- Call Alert
- 10 selectable tones
- Vibration Alert  
Silent Paging
- 10 Channel Memory
- Signal Strength Meter
- Scan Channel, privacy  
codes, memory
- Selectable Hi-Low Power
- Belt Clip
- Speaker/Microphone/  
Charger jack
- Roger Beep  
Selectable on/off
- Battery/Power Save  
(VOX)
- Keystroke Tones  
Selectable on/off
- Auto Squelch
- Maximum Range Extender

Maximum range may vary and is based on unobstructed line-of-sight communication under ideal conditions.

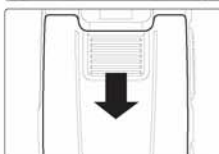
## Caring for Your S1 Radio

Your S1 Radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures



### Rechargeable Battery Pack and Desktop Charger

#### To install or replace battery pack:



1. Remove belt clip by releasing belt clip latch and sliding up.
2. Pull up on the battery door latch to remove the battery compartment cover.
3. Insert lithium ion battery pack. Position battery pack according to polarity markings.
4. Replace battery compartment cover and belt clip.

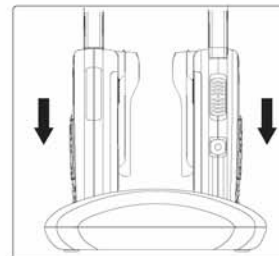


**Estimated operation time on full charge:**  
**12 hours**

Rechargeable battery packs must be recycled or disposed of properly in compliance with all applicable laws. They may not be disposed of with other household or commercial waste. Certain states or municipalities require recycling and have established collection programs. Please contact your local waste removal authority for instructions, or return to maxon for recycling. Wrap battery packs carefully and return them to the address on the back of this manual.

Do not put battery packs into fire or expose to high heat. They may explode.

## For charging S1 radio(s) in desktop charger:



1. Insert radios(s) into desktop charger as shown.
2. Insert round connector of adapter into jack on back of charger.
3. Plug the adapter into electrical outlet.

If charging light is not on, check position of radio. Radio should be upright. The charge indicator light will stay on as long as the radio is in the charging well. It normally takes about 15 hours to fully recharge battery pack. Battery pack will not be damaged if it stays in the charging well longer than that.

#### NOTE

To charge a single radio, you can bypass the desktop charger and simply insert the wall adapter's round connector directly into the speaker/microphone/charge jack located on the top of the radio.

Use only the supplied rechargeable batteries and charger for recharging your Maxon radio.

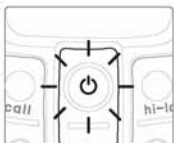
Maxon recommends your radio is turned off while being recharged.

#### QUICK START

1. Press and hold the **Power** button to turn on your radio.
2. Press the **Channel Up** or **Channel Down** button to select a channel.
 

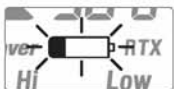
Both Radios must be tuned to the same channel/privacy code to communicate.
3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

### Turning on Your S1 Radio



Press and hold the **Power** button until you hear a series of audible tones indicating the radio is on. Your S1 radio is now in **Standby** mode, ready to receive transmissions. The radio is always in **Standby** mode, except when the **Talk**, **Call**, **Mode** or **Power** buttons are pressed.

### Battery Low



When battery power is low, the Battery Low icon will blink. Your batteries should be recharged.

### Auto Battery Save



Your S1 radio has a unique circuit designed to extend battery life. If there are no transmissions for 10 seconds, the radio will automatically switch to Battery Save mode and the Power Saver Icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

### Communicating with Another Person



1. Press and hold the **Talk** button.
2. With the microphone about 2 inches (5cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you have finished talking and listen for a response.



You cannot receive incoming calls while pressing the **Talk** button.

Both radios must be tuned to the same channel/privacy code to communicate.

### Channels

With the radio on, select any of the channels by pressing the **Channel Up** or **Channel Down** button.

Both radios must be tuned to the same channel to communicate.

Channels 01 through 08 are shared by PMR and Channels 1 through 69 are LPD (LPD only available on S1+ models).

See page I-II for PMR/LPD frequency allocations and compatibility charts.

### Listening for a Response

Release the **Talk** button to receive incoming transmissions. your S1 radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

### Call Button

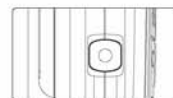
To alert another person that you are calling:

Press and release the **Call** button. The other person will hear a two second call tone. This tone is used only to establish voice communications.

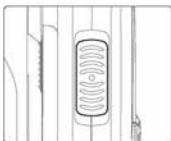
See page 26 on how to select from 10 available call tone settings.

### To Illuminate Display

Press and release the **Light/Max Range** button to illuminate the display for 10 seconds.



### Time-out Timer



The Time-out Timer feature limits transmission time to three (3) continuous minutes to extend battery life and prevent accidental operation. After 3 continuous minutes of transmission, the radio will stop transmitting and will require a rest period of 30 seconds. During this time the display will flash on and off, and an error tone will sound if the Push-to-talk button is pressed.

This feature applies to PMR channels 01 through 08 at high power only.

### Selectable High-Low Power Output



When in close proximity to another party or during favorable conditions, you can switch from High to Low Power to extend batter life.

This feature applies to PMR channels 01 through 08 only. LPD Channels (S1+ models only) 1 through 69 operate exclusively on low power.

#### To switch from high to low power:

- Press and release the **hi-lo** button



### Auto Squelch / Maximum Range

Your S1 radio is equipped with **Auto Squelch**, which automatically shuts off weak transmissions and unwanted noise due to terrain and conditions. This slightly reduces the maximum range at which signals can be heard.

You can turn off auto squelch to allow all signals to be received and extend the maximum range of your radio.

#### To briefly turn off auto squelch:

- Press the **Light/Max Range** button for less than five seconds.

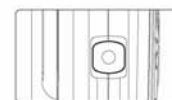
If you hear two beeps, you have turned the maximum range extender on (see below).

#### To turn maximum range extender on:

- Press and hold the **Light/Max Range** button for at least five seconds until you hear two beeps which indicates the maximum range extender is on.

#### To turn the maximum range extender off:

- Press and release the **Light/Max Range** button or change channels.



### Lock Feature

The Lock feature locks the **Channel, Mode, Hi-Low** and **Power** buttons to prevent accidental operation.



#### To turn the lock feature on or off:

- Press and hold the **Lock/Enter** button for two seconds.

A double beep sound is used to confirm your lock on or off request. When in **Lock** mode, the **Lock** icon will be displayed.

## Speaker/Microphone/Charge Jack

Your S1 radio can be fitted with an external **Speaker/Microphone**, freeing your hands for other tasks. This same jack also serves as the connecting point for the wall charger/adaptor.

### To attach a speaker/microphone:

1. Open the speaker/microphone/charger tab on the top of your S1 radio.
2. Insert the plug into the speaker/microphone/charge jack.



### To connect a wall charger/adaptor:

1. Open the speaker/microphone/charger tab on the top of your S1 radio.
2. Insert the wall charger/adaptor plug into the speaker/microphone/charge jack.

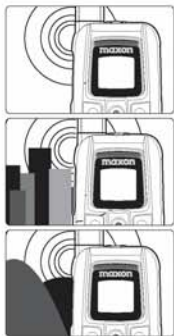
### Signal Strength Meter



Your S1 radio has a **Signal Strength Meter** that shows the strength of your incoming and outgoing transmissions. The ascending bars next to the signal strength indicate the strength of the signal. The greater the number of bars visible, the stronger the signal. The fewer number of bars visible, the weaker the signal.

## S1 Range

Your range will vary depending on the terrain and conditions



In flat, open country your radio will operate at maximum range.

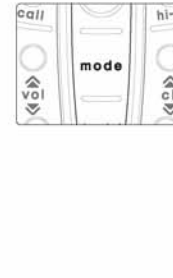
Buildings and foliage in the path of the signal can reduce the range of the radio.

Dense foliage and hilly terrain will further reduce that range of the radio.

Remember, you can achieve maximum range by using maximum range extender, see page 9 for details.

## Scrolling through Mode Functions

By scrolling through the Mode functions, you will be able to select or turn **on/off** preferred features of your radio. When scrolling through the **Mode Functions**, your radio features will be displayed in the following order:



Set CTCSS Privacy Codes  
Set DCS Privacy Codes  
Set VOX On/Off  
Set VOX Sensitivity Level  
Set Memory Locations  
Set Channel Scan  
Set CTCSS Privacy Code Scan  
Set DCS Privacy Code Scan  
Set Memory Location Scan  
Set Vibration Alert and/or Call Alert  
Set Call Alert Tone Signal  
Set Roger Beep On/Off  
Set Keystroke Tones On/Off

Scroll through the mode functions using the **Mode** button. Each press and release of the **Mode** button will advance to the next mode function. Press the **Talk** button at any point to return the radio to **Standby** mode.

## Privacy Codes

Your S1 radio incorporates two advanced coded squelch systems that can help reduce interference from other users on any given channel. CTCSS (Continuous Tone Coded Squelch System) provides 38 privacy codes and DCS (Digitally Controlled Squelch) provides 83 privacy codes. This provides a total of 121 **Privacy Codes**. Either system can be used on all channels, but both systems cannot be used on the same channel at the same time.

To successfully communicate using a private code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system and number you select.

The privacy code 00 is not a privacy code, but allows all signals to be heard on a channel that is set to 00 on both the CTCSS and DCS systems.

## Set CTCSS Privacy Codes



### To select a CTCSS privacy code:

1. After selecting a channel, press the **Mode** button until the CTCSS icon appears and the small numbers flash on the display (01 through 38).

#### NOTE

If DCS is turned on at the channel selected, the display will flash the CTCSS icon and "OFF". To switch from DCS to CTCSS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF". The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press using the **Channel Up** or **Channel Down** button to select a CTCSS privacy code. you can hold the **Channel Up** or **Channel Down** button for fast advance.
3. When your desired CTCSS privacy code is displayed, choose one of the following:
  - a. Press the **Mode** button to enter the new settings and proceed to other functions.
  - b. Press the **Lock/Enter** button to enter the new settings and return to **Standby** mode.
  - c. Do not press any buttons for 15 seconds to enter the new setting and return to **Standby** mode.

## Set DCS Privacy Codes



### To select a DCS privacy code:

1. After selecting a channel, press the **Mode** button until the DCS icon appears and the small numbers flash on the display (01 through 83).

#### NOTE

If CTCSS is turned on at the channel selected, the display will flash the DCS icon and "OFF". To switch from CTCSS to DCS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF". The display will then show the small numbers flashing and you will then be able to proceed to step 2.

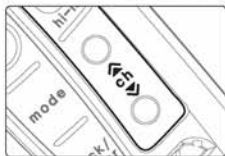
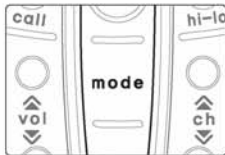
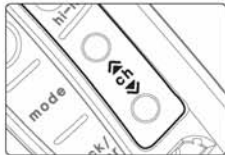
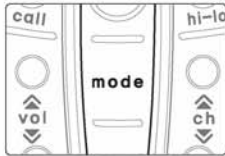
2. Press using the **Channel Up** or **Channel Down** button to select a DCS privacy code. you can hold the **Channel Up** or **Channel Down** button for fast advance.
3. When your desired DCS privacy code is displayed, choose one of the following:
  - a. Press the **Mode** button to enter the new settings and proceed to other functions.
  - b. Press the **Lock/Enter** button to enter the new settings and return to **Standby** mode.
  - c. Do not press any buttons for 15 seconds to enter the new setting and return to **Standby** mode.

## Voice Activated Transmit (VOX)

In VOX mode, your S1 radio can be used "hands-free", automatically transmitting when you speak. you can set the VOX sensitivity level to fit the volume of your voice and avoid transmissions being triggered by background noise.

### To turn VOX mode on or off:

1. Press the **Mode** button until the **VOX** icon flashes on the display. The current on or of setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn VOX on or off.
3. Choose one of the following:
  - a. Press the **Mode** button to enter the selected on or off setting and proceed to other functions.
  - b. Press the **Lock/Enter** button to enter the selected on or off setting and return to **Standby** mode.



### To set VOX sensitivity:

1. Press the **Mode** button until the **VOX** icon flashes and the current sensitivity level is displayed.

The current sensitivity level is displayed with letters "LE" and a number 01 through 05 with number 05 being the most sensitive level and number 01 being the least sensitive level.

2. Press the **Channel Up** or **Channel Down** button to change the setting.
3. Choose one of the following:
  - a. Press the **Mode** button to enter the selected setting and proceed to other functions.
  - b. Press the **Lock/Enter** button to enter the selected setting and return to **Standby** mode.

## 10 Memory Locations

Your S1 radio has 10 Memory Locations for storing your most frequently used channels and channel/privacy code combinations. These Memory Locations can be selected individually or can be scanned. (See page 23 for memory location scan.)

### To program a memory location:

1. Press the **Mode** button until the **Memory** icon and the memory location number flash on the display.
2. Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).
 

If a location has been programmed before, its associated channel/privacy code will be shown on the display.
3. Press the **Lock/Enter** button to enter a new memory location or edit an already programmed memory location. The channel numbers will flash on the display.
4. Press the **Channel Up** or **Channel Down** button to select a channel.
5. Press the **Lock/Enter** button. The CTCSS icon and privacy code numbers will flash on the display.



6. Choose one of the following:
- Press the **Channel Up** or **Channel Down** button to select a CTCSS privacy code (01 through 038) for the channel.
  - Press the **Lock/Enter** button to switch from CTCSS to DCS. The DCS icon and privacy code numbers will flash on the display. The **Channel Up** or **Channel Down** button can then be used to select a DCS privacy code (01 through 83) for the channel.

If "OFF" flashes in place of the privacy code numbers, a privacy code is already set in the opposite (CTCSS or DCS) system. Press the **Channel Up** or **Channel Down** button to cancel the opposite code and select a privacy code from the active system for the selected channel.

7. Choose one of the following:
- Press the **Lock/Enter** button to enter the channel/privacy code in the selected memory location. Radio then proceeds to next Memory Location which will blink.
  - Press the **Mode** button to enter the channel/privacy code in the selected memory location and proceed to other functions on the channel/privacy code displayed before you entered mode functions.
  - Press the **Talk** button to enter the channel/privacy code in the selected memory location and exit mode functions. Upon releases of the **Talk** button, the radio will enter **Standby** mode on the channel/privacy code just entered.



#### To recall a stored memory channel location:

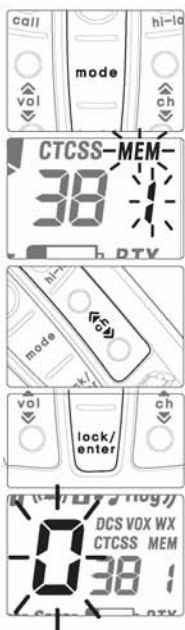
- Press the **Mode** button until the **Memory** icon and the memory location number flash on the display.
- Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).

If a location has been programmed before, its associated channel/privacy code will be shown on the display.

- Press the **Talk** button to return to **Standby** mode on the selected memory location.

A memory location can be reprogrammed at any time it is displayed and flashing. Press the **Lock/Enter** button to begin.

While recalling a stored memory location, if you do not press any button for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.



#### To de-program a memory location:

1. Press the **Mode** button until the **Memory** icon and the memory location number flash on the display.
2. Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).

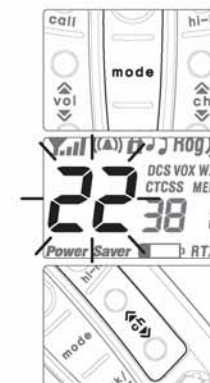
If a location has been programmed before, its associated channel/privacy code will be shown on the display.

3. Press the **Lock/Enter** button. The channel numbers will flash on the display.
4. Press the **Channel Up** or **Channel Down** button to select Channel 0.
5. Choose one of the following:
  - a. Press the **Lock/Enter** button to enter the channel/privacy code in the selected memory location and return to the beginning of memory location options.
  - b. Press the **Mode** button to enter the channel/privacy code in the selected memory location and proceed to other functions on the channel/privacy code displayed before you entered mode functions.

While de-programming a memory location, if you do not press any button for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

## Channel Scan

Your S1 radio can automatically scan channels.



#### To scan channels:

1. Press the **Mode** button until the **Scan** icon and the channel number icons flash on the display.
2. Press the **Channel Up** or **Channel Down** button to begin scanning channels.

The radio ignores specific privacy codes while scanning channels.

The **Scan** icon will continue to be displayed when scan is **on**. Your radio will continue to scan all channels and stop if an incoming transmission is detected. Your radio will remain on that channel for 10 seconds.

While setting channel scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel or channel/privacy code displayed before you entered mode functions.

**During Channel scan (while receiving an incoming transmission), you can choose from the following:**

- Press and hold the **Talk** button to communicate on that channel. Your radio will remain on that channel and return to **Standby** mode.
- Press the **Channel Up** or **Channel Down** button to resume scanning channels.
- If you press the **Talk** button while scanning, but more than 10 seconds after receiving a transmission, you will transmit on the channel on which you last received a transmission. This will return the radio to **Standby** mode.

If you do not press any button within 10 seconds after receiving a scanned transmission, your radio will automatically resume scanning channels.

**During Channel scan (while not receiving an incoming transmission), you can choose from the following:**

- Press and hold the **Talk** button to communicate on that channel or channel/privacy code that was displayed before you entered mode functions or the channel on which, during scanning, you last received a transmission. This will return the radio to **Standby** mode.
- Press the **Mode** button to proceed to set privacy code scan on the channel that was either displayed before you entered mode functions or on which, during channel scanning, you last received a transmission (see page 21 for further details).
- Press the **Lock/Enter** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the channel on which, during scanning, you last received a transmission.

## Privacy Code Scan

Your S1 radio can automatically scan the Privacy Codes (either CTCSS 01 through 38 or DCS 01 through 83) within one channel. Only one set of privacy codes (CTCSS or DCS) can be scanned at a time.



### To scan privacy codes:

- While in Standby mode, press the **Channel Up** or **Channel Down** button to choose the channel on which you wish to scan privacy codes.
- Press the **Mode** button until either the CTCSS or the DCS icon appears on the display and the **Scan** icon and the privacy code numbers flash on the display.
- Press the **Channel Up** or **Channel Down** button to begin scanning privacy codes within the channel you selected.

The **Scan** icon will continue to be displayed when privacy scan is **on**. Your radio will continue to scan privacy codes and stop if an incoming transmission is detected. Your radio will remain on that channel/privacy code for 10 seconds.

While setting privacy scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions.

**During privacy code span (while receiving an incoming transmission), you can choose from the following:**

- Press and hold the **Talk** button to communicate on that channel/privacy code. Your radio will remain on that channel/privacy code and return to **Standby** mode.
- Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes.

If you press the **Talk** button while scanning, but more than 10 seconds after receiving a transmission, you will transmit on the channel/privacy code on which you last received a transmission. This will then return the radio to **Standby** mode.

If you do not press any button within 10 seconds, your radio will automatically resume scanning privacy codes.

**During privacy code span (while not receiving a transmission), you can choose from the following:**

- Press and hold the **Talk** button to communicate on the channel/privacy code that was displayed before you entered mode functions or the channel/privacy code on which, during scanning, you last received a transmission. This will then return the radio to **Standby** mode.
- Press the **Mode** button to proceed to set memory location scan (see page 23 for further details).
- Press the **Lock\Enter** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the channel/privacy code on which, during scanning, you last received a transmission.

## Memory Location Scan

Your S1 radio can automatically scan up to 10 programmed **Memory Locations**.

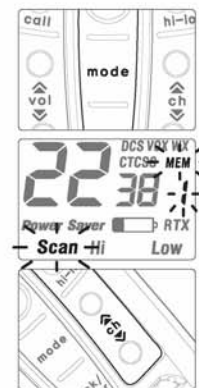
If there are one or fewer memory locations programmed in your radio, the scan memory locations option will not be available. To program at least two memory locations, see program memory locations on page 15.

### To scan memory locations:

- Press the **Mode** button until the **Scan** icon, **Memory** icon and the memory location number flash on the display.
- Press the **Channel Up** or **Channel Down** button to begin scanning memory locations.

The **Scan** icon and the **Memory** icon will continue to be displayed when memory location scan is **on**. Your radio will continue to scan memory locations and stop if an incoming transmission is detected. Your radio will remain on that memory location for 10 seconds.

While setting memory location scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.



**During memory location scan (while receiving an incoming transmission), you can choose from the following:**

- Press and hold the **Talk** button to communicate on that memory location.
- Your radio will remain on that memory location and return to **Standby** mode. Press the **Channel Up** or **Channel Down** button to resume scanning memory locations.
- After 10 seconds of inactivity, unit starts scan again.

If you press the **Talk** button while scanning, but more than 10 seconds after receiving a transmission, you will transmit on the memory location on which, during scanning, you last received a transmission.

If you do not press any button within 10 seconds, your radio will automatically resume scanning memory locations.

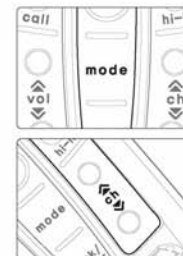
**During memory location scan (while not receiving an incoming transmission), you can choose from the following:**

- Press and hold the **Talk** button to communicate on the channel/privacy code that was displayed before you entered mode functions or the memory location on which, during scanning, you last received a transmission. This will then return the radio to **Standby** mode.
- Press the **Mode** button to proceed to other functions.
- Press the **Lock\Enter** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the memory location on which, during scanning, you last received a transmission.

To reduce the number of memory locations being scanned, you may de-program any unwanted locations. (See page 18 to de-program a memory location.)

## Vibration Alert and Call Alert

Your S1 radio can alert you to incoming signals by sounding an audible call tone, by vibrating silently or both.



### To change call settings:

- Press the Mode button until the Call setting icon flashes on the display. The current setting ("01" vibrate + ring, "02" vibrate only or "03" ring only) is displayed.
- Press the **Channel Up** or **Channel Down** button to change the call setting.
- Choose one of the following:
  - Press the **Mode** button to enter the new setting and proceed to other functions.
  - Press the **Lock\Enter** button to enter the new setting and return to **Standby** mode.



## 10 Call Tone Settings

You can choose from 10 different call tone settings to transmit a unique call alert.



### To change a call tone setting:

1. Press the **Mode** button until the letter "C" and the current call tone number (01 through 10) is displayed.
2. Press the **Channel Up** or **Channel Down** button to change the call tone setting.
3. Choose one of the following:
  - a. Press the **Mode** button to enter the new setting and proceed to other functions.
  - b. Press the **Lock\Enter** button to enter the new setting and return to **Standby** mode.

## Roger Beep Confirmation Tone

Roger Beep is an audible tone that your listener will hear when you release the **Talk** button. This alerts the other party that you are finished talking and it is OK for them to speak.



### To turn roger beep on or off:

1. Press the **Mode** button until the **Roger Beep** icon flashes on the display. The current **on** or **off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to select roger beep **on** or **off**.
3. Choose one of the following:
  - a. Press the **Mode** button to enter the new setting and proceed to other functions.
  - b. Press the **Lock\Enter** button to enter the new setting and return to **Standby** mode.

## Keystroke Tones

With **Keystroke Tones** turned **on**, your radio will sound beeps each time you press a button or change a setting.



### To change keystroke tones:

1. Press the **Mode** button until the **Keystroke Tones** icon flashes on the display. The current **on** or **off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn the keystroke tones **on** or **off**.
3. Choose one of the following:
  - a. Press the **Mode** button to enter the new setting and proceed to other functions.
  - b. Press the **Lock\Enter** button to enter the new setting and return to **Standby** mode.