



PROFESSIONAL DIGITAL TWO-WAY RADIO

MOTOTRBO™ SL Series PORTABLES USER GUIDE

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Declaration of Conformity

This declaration is applicable to your radio only if your radio is labeled with the FCC logo shown below.

Declaration of Conformity

Per FCC CFR 47 Part 2 Section 2.1077(a)



Responsible Party

Name: Motorola Solutions, Inc.

Address: 1303 East Algonquin Road, Schaumburg, IL 60196-1078, U.S.A.

Phone Number: 1-800-927-2744

Hereby declares that the product:

Model Name: **SL7550/ SL7580/SL7590/SL7550e/ SL7580e/SL7590e**

conforms to the following regulations:

FCC Part 15, subpart B, section 15.107(a), 15.107(d) and section 15.109(a)

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.



Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

Important Safety Information

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

ATTENTION!

This radio is restricted to Occupational use only.

Before using the radio, read the RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations.

For a list of Motorola-approved antennas, batteries, and other accessories, visit the following website:

<http://www.motorolasolutions.com>

Any modification to this device, not expressly authorized by Motorola, may void the user's authority to operate this device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type

and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter has been approved by Industry Canada to operate with Motorola-approved antenna with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Software Version

All the features described in the following sections are supported by the software version **R02.50.10** or later.

See [Checking Firmware and Codeplug Versions](#) on page 112 to determine the software version of your radio.

Check with your dealer or system administrator for more information.

Computer Software Copyrights

The Motorola products described in this manual may include copyrighted Motorola computer programs stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola certain exclusive rights for copyrighted computer programs including, but not limited to, the exclusive right to copy or reproduce in any form the copyrighted computer program. Accordingly, any copyrighted Motorola computer programs contained in the Motorola products described in this manual may not be copied, reproduced, modified, reverse-engineered, or distributed in any manner without the express written permission of Motorola. Furthermore, the purchase of Motorola products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents or patent applications of Motorola, except for the normal non-exclusive license to use that arises by operation of law in the sale of a product.

The AMBE+2™ voice coding Technology embodied in this product is protected by intellectual property rights

including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc.

This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form.

U.S. Pat. Nos. #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166.

Handling Precautions

The MOTOTRBO Series Digital Portable radio meets IP54 specifications, allowing the radio to withstand adverse field conditions such as being exposed to water or dust.

- Keep your radio clean and exposure to water should be avoided to help ensure proper functionality and performance.
- To clean the exterior surfaces of the radio, use a diluted solution of mild dishwashing detergent and fresh water (example, one teaspoon of detergent to one gallon of water).
- These surfaces should be cleaned whenever a periodic visual inspection reveals the presence of smudges, grease, and/or grime.

**Caution:**

The effects of certain chemicals and their vapors can have harmful results on certain plastics. Avoid using aerosol sprays, tuner cleaners and other chemicals.

Introduction

This user guide covers the operation of the MOTOTRBO radios.

Your dealer or system administrator may have customized your radio for your specific needs. Check with your dealer or system administrator for more information.

You can consult your dealer or system administrator about the following:

- Is your radio programmed with any preset conventional channels?
- Which buttons have been programmed to access other features?
- What optional accessories may suit your needs?
- What are the best radio usage practices for effective communication?
- What maintenance procedures will help promote longer radio life?

Basic Operations

This chapter explains the operations to get you started on using the radio.

Charging the Battery

Your radio is powered by a Lithium-Ion (Li-Ion) battery.

- To avoid damage and comply with warranty terms, charge the battery using a Motorola charger exactly as described in the charger user guide.

All chargers can charge only Motorola authorized batteries. Other batteries may not charge. It is recommended your radio remains powered off while charging.

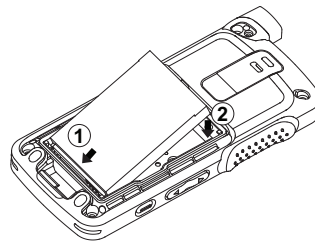
-
- Charge your IMPRES battery with an IMPRES charger for optimized battery life and valuable battery data. IMPRES batteries charged exclusively with IMPRES chargers receive a 6-month capacity warranty extension over the standard Motorola Premium battery warranty duration.
-

- Charge a new battery 14 to 16 hours before initial use for best performance. Prior to charging a battery with the radio, it is recommended to turn the radio off. Batteries charge best at room temperature.
-

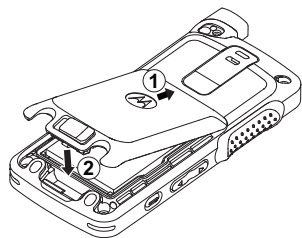
Attaching the Battery

Follow the procedure to attach the battery to your radio.

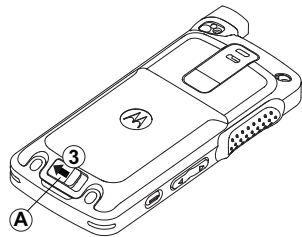
- 1 Fit the battery into the slots at the bottom of the radio.



- 2 Push the top of the battery down until the latch snaps into place.
-



- 3 Slide battery latch into lock position.



Removing the Battery

Follow the procedure to remove the battery from your radio.

Ensure that the radio is turned off.

Move the battery latch into unlock position and hold.

Powering Up the Radio

Follow the procedure to power up your radio.

Press the **On/Off** button.

- A tone sounds.
- The green LED lights up.
- The display shows MOTOTRBO (TM), followed by a welcome message or image.
- The Home screen lights up.



Note:

There is no tone upon powering up if the Tones/Alerts function is disabled. See [Turning Radio Tones/Alerts On or Off](#) on page 104 for more information.

Check your battery if your radio does not power up. Make sure that it is charged and properly attached. Contact your dealer if your radio still does not power up.

Adjusting the Volume

Follow the procedure to change the volume level of your radio.

Do one of the following:

- Press the **Volume Up** button to increase the volume.
- Press the **Volume Down** button to decrease the volume.

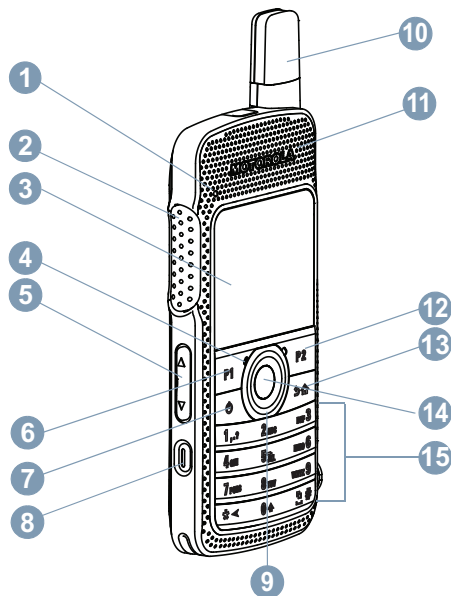


Note:

Your radio can be programmed to have a minimum volume offset where the volume level cannot be lowered past the programmed minimum volume. Check with your dealer or system administrator for more information.

Radio Controls

This chapter explains the buttons and functions to control the radio.



- 1 LED Indicator
- 2 Push-to-Talk (**PTT**) Button
- 3 Display
- 4 Microphone
- 5 Volume Button
- 6 Front Button P1
- 7 On/Off/Information Button
- 8 Emergency Button
- 9 4-Way Navigation Button
- 10 Antenna
- 11 Speaker
- 12 Front Button P2
- 13 Back/Home Button
- 14 Menu/OK Button
- 15 Keypad

Using the Keypad

You can use the 3 x 4 alphanumeric keypad to access your radio's features. You can use the keypad to enter subscriber aliases or IDs, and text messages. Many characters require that you press a key multiple times. The next table shows the number of times a key needs to be pressed to generate the required character.

Key	Number of Times Key is Pressed												
	1	2	3	4	5	6	7	8	9	10	11	12	13
	1	.	,	?	!	@	&	'	%	—	:	*	#
	A	B	C	2									
	D	E	F	3									
	G	H	I	4									
	J	K	L	5									
	M	N	O	6									
	P	Q	R	S	7								
	T	U	V	8									

Key	Number of Times Key is Pressed												
	1	2	3	4	5	6	7	8	9	10	11	12	13
	W	X	Y	Z	9								
	0												
	* or del												
	# or space												

**Note:**

Press to enter “0” and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.

**Note:**

Press during text entry to delete the character. Press during numeric entry to enter a “*”.

**Note:**

Press during text entry to insert a space. Press during numeric entry to enter a “#”. Long press to change text entry method.

Capacity Max Operations

Capacity Max Operations

Programmable Buttons

Depending on the duration of a button press, your dealer can program the programmable buttons as shortcuts to radio functions.

Short press Pressing and releasing rapidly.

Long press Pressing and holding for the programmed duration.



Note:
See [Emergency Operation](#) on page 292 for more information on the programmed duration of the **Emergency** button.

Push-To-Talk (PTT) Button

The **PTT** button serves two basic purposes.

- While a call is in progress, the **PTT** button allows the radio to transmit to other radios in the call. The microphone is activated when the **PTT** button is pressed.
- While a call is not in progress, the **PTT** button is used to make a new call.

You hear a continuous Talk Prohibit Tone if your call is interrupted, for example when the radio receives an Emergency call. You should release the **PTT** button.

Assignable Radio Functions

The following radio functions can be assigned to the programmable buttons by your dealer or system administrator.

Actions	A programmable button to access a RM programmable action list.
Audio Ambience	Allows the user to select an environment the radio is operating in.
Audio Profiles	Allows the user to select the preferred audio profile.
Audio Routing	Toggles audio routing between internal and external speakers.
Audio Toggle	Toggles audio routing between the internal radio

	speaker and the speaker of wired accessory.	Indoor Location	Toggles Indoor Location on or off.
Bluetooth® Audio Switch	Toggles audio routing between internal radio speaker and external Bluetooth-enabled accessory.	Intelligent Audio	Toggles intelligent audio on or off.
Contacts	Provides direct access to the Contacts list.	Manual Dial	Initiates a Private Call by keying in any subscriber ID.
Call Alert	Provides direct access to the contacts list for you to select a contact to whom a Call Alert can be sent.	Manual Site Roam	Starts the manual site search.
Call Log	Selects the call log list.	Mic AGC	Toggles the internal microphone automatic gain control (AGC) on or off.
Channel Announcement	Plays zone and channel announcement voice messages for the current channel.	Notifications	Provides direct access to the Notifications list.
Display Radio Alias	Displays the name of the radio.	One Touch Access	Directly initiates a predefined Broadcast, Private, Phone or Group Call, a Call Alert or a Quick Text message.
Emergency	Depending on the programming, initiates or cancels an emergency.	Option Board Feature	Toggles option board feature(s) on or off for option board-enabled channels.
		Phone	Provides direct access to the Phone Contacts list.

Power Battery Indicator	Displays the current status of the battery level.
Privacy	Toggles privacy on or off.
Radio Alias and ID	Provides radio alias and ID.
Remote Monitor	Turns on the microphone of a target radio without it giving any indicators.
Reset Home Channel	Sets a new home channel.
Silence Home Channel Reminder	Mutes the Home Channel Reminder.
Ring Alert Type	Provides access to the Ring Alert Type Setting.
Site Info	Displays the current Capacity Max site name and ID. Plays site announcement voice messages for the current site when Voice Announcement is enabled.
Site Lock	When toggled on, the radio searches the current site only. When toggled off, the radio

searches other sites in addition to the current site.

Telemetry Control	Controls the Output Pin on a local or remote radio.
Text Message	Selects the text message menu.
Trill Enhancement	Toggles trill enhancement on or off.
Unassigned	Unassigned programmable button.
Voice Announcement	Toggles voice announcement on or off.
Wi-Fi	Toggles Wi-Fi on or off.
Zone Selection	Allows selection from a list of zones.

Assignable Settings or Utility Functions

The following radio settings or utility functions can be assigned to the programmable buttons.

Tones/Alerts	Toggles all tones and alerts on or off.
---------------------	---

- Brightness** Depending on the programming, adjusts the brightness level using the manual brightness mode or auto brightness control.
- Display Mode** Toggles the day/night display mode on or off.
- Keypad Lock** Toggles keypad between locked and unlocked.
- Wallpaper** Radio displays background Wallpaper on the home screen.

Accessing Programmed Functions

Follow the procedure to access programmed functions in your radio.

- 1 Do one of the following:
 - Short or long press the programmed button. Proceed to Step 3.
 - Press  to access the menu.
-
- 2 Press  or  to the menu function, and press  to select a function or enter a sub-menu.
-

- 3 Do one of the following:

- Press  to return to the previous screen.
- Long press  to return to the Home screen.

Your radio automatically exits the menu after a period of inactivity and returns to the Home screen.

Status Indicators

This chapter explains the icons, LED indicators, and audio tones used in the radio.

Icons

The Liquid Crystal Display (LCD) of your radio shows the radio status, text entries, and menu entries. The

following are the icons that appear on the radio display.

Call Icons

The following icons appear on the display during a call. These icons also appear in the Contacts list to indicate alias or ID type.



Bluetooth PC Call

Indicates a Bluetooth PC Call in progress.

In the Contacts list, it indicates a Bluetooth PC Call alias (name) or ID (number).



Dispatch Call

The Dispatch Call contact type is used to send a text message to a dispatcher PC through a third-party Text Message Server.



Group Call/All Call

Indicates a Group Call or All Call in progress.

In the Contacts list, it indicates a group alias (name) or ID (number).



Indicates a Phone Call as Group Call or All Call in progress.

Phone Call as Group/All Call



Phone Call as Private Call

In the Contacts list, it indicates a group alias (name) or ID (number).

Indicates a Phone Call as Private Call in progress.

In the Contacts list, it indicates a phone alias (name) or ID (number).



Private Call

Indicates a Private Call in progress.

In the Contacts list, it indicates a subscriber alias (name) or ID (number).



Non-IP Peripheral Individual call

Indicates a Non-IP Peripheral individual call in progress.

In the Contacts list, it indicates a subscriber alias (name) or ID (number).



Indicates a Non-IP Peripheral group call in progress.

In the Contacts list, it indicates a group alias (name) or ID (number).

Non-IP Peripheral Group call



Option Board Individual Call



Option Board Group Call

Indicates an Option Board individual call in progress.

In the Contacts list, it indicates a subscriber alias (name) or ID (number).

Indicates an Option Board group call in progress.

In the Contacts list, it indicates a group alias (name) or ID (number).

Display Icons

The following icons appear on the status bar at the top of the radio display. The icons are arranged left most in order of appearance or usage, and are channel-specific.



No ring tones available.

All Tones Disabled



Battery

The number of bars (0 – 4) shown indicates the charge remaining in the battery. Blinks when the battery is low.



Battery Charging Status

Shows battery charging status.



Bluetooth Connected

The Bluetooth feature is enabled. The icon stays lit when a remote Bluetooth device is connected.



Bluetooth Not Connected

The Bluetooth feature is enabled but there is no remote Bluetooth device connected.



Emergency

Radio is in Emergency mode.



High Volume Data

Radio is receiving high volume data and channel is busy.



Indoor Location Available^[2]

Indoor location status is on and available.



Indoor Location Unavailable^[2]

Indoor location status is on but unavailable due to Bluetooth disabled or Beacons Scan suspended by Bluetooth.



Notification

Notification List has one or more missed events.



Option Board

The Option Board is enabled. (Option board enabled models only)



The Option Board is disabled.

Option Board Non-Function



Over-the-Air Programming Delay Timer

Indicates time left before automatic restart of radio.



Received Signal Strength Indicator (RSSI)

The number of bars displayed represents the radio signal strength. Four bars indicate the strongest signal. This icon is only displayed while receiving.



Ringing mode is enabled.

Ring Only



The Privacy feature is enabled.

Secure



Silent ring mode is enabled.

Silent Ring

The site roaming feature is enabled.

Site Roaming

The Privacy feature is disabled.

Unsecure

Vibrate mode is enabled.

Vibrate

Vibrate and Ring mode is enabled.

Vibrate and Ring

Wi-Fi signal is excellent.

Wi-Fi Excellent^[1]

Wi-Fi signal is good.

Wi-Fi Good^[1]**Wi-Fi Average^[1]****Wi-Fi Poor^[1]****Wi-Fi Unavailable^[1]****Wi-Fi Excellent Highlighted^[1]****Wi-Fi Good Highlighted^[1]**

Wi-Fi signal is average.

Wi-Fi signal is poor.

Wi-Fi signal is unavailable.

Wi-Fi signal is excellent. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.

Wi-Fi signal is good. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.

Wi-Fi signal is average. When you scroll to a network in the network list,

Wi-Fi Average Highlighted^[1]**Wi-Fi Poor Highlighted^[1]****Wi-Fi Unavailable Highlighted^[1]**

the Wi-Fi icon of that network is highlighted.

Wi-Fi signal is poor. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.

Wi-Fi signal is unavailable. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.

Mini Notice Icons

The following icons appear momentarily on the display after an action to perform a task is taken.



Failed action taken.

Failed Transmission (Negative)

Successful action taken.

Successful Transmission (Positive)**Transmission in Progress (Transitional)**

Transmitting. This is seen before indication for Successful Transmission or Failed Transmission.

Sent Item Icons

The following icons appear at the top right corner of the display in the Sent Items folder.

**In Progress**

The text message to a subscriber alias or ID is pending transmission, followed by waiting for acknowledgement.

¹ Only applicable for SL7550e/SL7590e/SL7580e

² Only applicable for models with the latest software and hardware.



or

Individual or Group Message Read

The text message to a group alias or ID is pending transmission.

The text message has been read.



or

Individual or Group Message Unread

The text message has not been read.



or

Send Failed

The text message cannot be sent.



or

Sent Successfully

The text message has been successfully sent.

LED Indicator

The LED indicator shows the operational status of your radio.

Blinking Red

Radio has failed the self-test upon powering up.

Solid Green

Radio is receiving or sending an emergency transmission.

Radio is transmitting in low battery state.

Radio has moved out of range if Auto-Range Transponder System is configured.

Radio is powering up.

Radio is transmitting.

Indicates full battery capacity when the programmed **Battery Strength** button is pressed.

Blinking Green

Radio is powering up.

Radio is receiving a non-privacy-enabled call or data.

Radio is retrieving Over-the-Air Programming transmissions over the air.

Radio is detecting activity over the air.



Note:

This activity may or may not affect the programmed channel

	of the radio due to the nature of the digital protocol.
Double Blinking Green	Radio is receiving a privacy-enabled call or data.
Solid Yellow	Radio is in Bluetooth Discoverable Mode. Indicates fair battery capacity when the programmed Battery Strength button is pressed.
Blinking Yellow	Radio is receiving a Call Alert.
Double Blinking Yellow	Radio has Auto Roaming enabled. Radio is actively searching for a new site. Radio has yet to respond to a Group Call Alert. Radio is locked. Radio is not connected to the system.

Tones

The following are the tones that sound through on the radio speaker.

-  High Pitched Tone
-  Low Pitched Tone

Audio Tones

Audio tones provide you with audible indications of the status, or response to data received on the radio.

-  A monotone sound. Sounds continuously until termination.
Continuous Tone
-  Sounds periodically depending on the duration set by the radio. Tone starts, stops, and repeats itself.
Periodic Tone
-  A single tone that repeats itself until it is terminated by the user.
Repetitive Tone
-  Sounds only once for a duration set by the radio.
Momentary Tone

Indicator Tones

Indicator tones provide you with audible indications of the status after an action to perform a task is taken.



Positive Indicator Tone



Negative Indicator Tone

Registration

There are a number of registration-related messages that the radio user may receive.

Registering

Typically, registration is sent to the system during power up, Talkgroup change, or during site roaming. If a radio fails registration on a site, the radio automatically attempts to roam to another site. The radio temporarily removes the site where registration was attempted from the roaming list.

The indication means that the radio is busy searching for a site to roam, or that the radio has found a site successfully but is waiting for a response to the registration messages from the radio.

When Registering is displayed on the radio, a tone sounds and the yellow LED double flashes to indicate a site search.

If the indications persist, the user should change locations or if allowed, manually roam to another site.

Out of Range

A radio is deemed to be out of range when the radio is unable to detect a signal from the system or from the current site. Typically, this indication means that the radio is outside of the geographic outbound radio frequency (RF) coverage range.

When Out of Range is displayed on the radio, a repetitive tone sounds and the red LED flashes.

Contact your dealer or system administrator if the radio still receives out of range indications while being in an area with good RF coverage.

Talkgroup Affiliation Failed

A radio tries to affiliate to the Talkgroup specified in the channels or Unified Knob Position (UKP) during registration.

A radio that is in affiliation fail state is unable to make or receive calls from the Talkgroup that the radio is trying to affiliate to.

When a radio fails to affiliate with a Talkgroup, UKP Alias is displayed in the home screen with a highlighted background.

Contact your dealer or system administrator if the radio receives affiliation failure indications.

Register Denied

Registration denied indicators are received when the registration with the system is not accepted.

The radio does not indicate to the radio user the specific reason the registration was denied. Normally, a registration is denied when the system operator has disabled the access of the radio to the system.

When a radio is denied registration, RegisterDenied is displayed on the radio and the yellow LED double flashes to indicate a site search.

Zone and Channel Selections

This chapter explains the operations to select a zone or channel on your radio.

The radio can be programmed with a maximum of 250 Capacity Max Zones with a maximum of 160 Channels per zone.

Selecting Zones

Follow the procedure to select the required zone on your radio.

- 1 Do one of the following:
 - Press the programmed **Zone Selection** button. Proceed to Step 3.
 - Press  to access the menu.

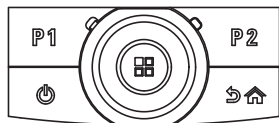
- 2 Press  or  to Zone. Press  to select. The display shows  and the current zone.

- 3 Press  or  to the required zone. Press  to select. The display shows <Zone> Selected momentarily and returns to the selected zone screen.

Selecting a Call Type

Use the 4-Way Navigation Disc to select a call type. This can be a Group Call, Broadcast Call, All Call, or Private Call, depending on how your radio is programmed. If you navigate with the 4-Way Navigation Disc to a different Call Type this causes the radio to re-register with the Capacity Max System. The radio registers with the Talkgroup ID that has been programmed for the new call type.

Your radio does not operate when selected to an unprogrammed channel, use the 4-Way Navigation Disc to select a programmed channel instead.



Once the required zone is displayed (if you have multiple zones in your radio), use the 4-Way Navigation Disc to select the call type.

Selecting a Site

A site provides coverage for a specific area. In a multi-site network, the Capacity Max radio will automatically search for a new site when the signal

level from the current site drops to an unacceptable level.

Roam Request

A Roam Request tells the radio to search for a different site, even if the signal from the current site is acceptable.

If there are no sites available,

- The radio display shows **Searching** and continues to search through the list of sites.
- The radio will return to the previous site, if the previous site is still available.



Note:

This is programmed by your dealer.

Press the programmed **Manual Site Roam** button. You hear a tone, indicating the radio has switched to a new site. The display shows **Site ID <Site Number>**.

Site Restriction

In Capacity Max system, your radio administrator has the ability to decide which network sites your radio is and is not allowed to use. The radio does not have to be reprogrammed to change the list of allowed and

disallowed sites. If your radio attempts to register at a disallowed site, your radio receives indication that the site is denied. The radio then searches for a different network site.

When experiencing site restrictions, your radio displays `RegisterDenied` and the yellow LED double flashes to indicate a site search.

Site Trunking

A site must be able to communicate with the Trunk Controller to be considered as System Trunking. If the site cannot communicate with the Trunk Controller in the system, a radio enters Site Trunking mode. While in Site Trunking, the radio provides a periodic audible and visual indication to the user to inform the user of their limited functionality.

When a radio is in Site Trunking, the radio displays `Site Trunking` and a repetitive tone sounds.

The radios in Site Trunking are still able to make group and individual voice calls as well as send text messages to other radios within the same site. Voice consoles, logging recorders, phone gateways, and data applications cannot communicate to the radios at the site.

Once in Site Trunking, a radio that is involved in calls across multiple sites will only be able to communicate with other radios within the same site. Communication to and from other sites would be lost.



Note:

If there are multiple sites that cover the current location of the radio and one of the sites enters Site Trunking, the radios roam to another site if within coverage.

Calls

This chapter explains the operations to receive, respond to, make, and stop calls.

You can select a subscriber alias or ID, or group alias or ID after you have selected a channel by using one of these features:

Alias Search

This method is used for Group, Private and All Calls only with a keypad microphone

Contacts List

This method provides direct access to the Contacts list.

Manual Dial (via Contacts)

This method is used for Private and Phone Calls only with a keypad microphone.

Programmed Number Keys

This method is used for Group, Private, and All Calls only with a keypad microphone.

**Note:**

You can only have **one** alias or ID assigned to a number key, but you can have more than one number key associated to an alias or ID. All the number keys on a keypad microphone can be assigned. See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

Programmed One Touch Access Button

This method is used for Group, Private, and Phone Calls only.

**Note:**

You can only have one ID assigned to a **One Touch Access** button with a short or long programmable button press. Your radio can have multiple **One Touch Access** buttons programmed.

Programmable Button

This method is used for Phone Calls only.

Group Calls

Your radio must be configured as part of a group to receive a call from or make a call to the group of users.

Making Group Calls

Follow the procedure to make Group Calls on your radio.

1 Do one of the following:

- Select a channel with the active group alias or ID. See [Selecting a Call Type](#) on page 37.

- Press the programmed **One Touch Access** button.

- 2 Press the **PTT** button to make the call.
The green LED lights up. The first text line shows the **Group Call** icon and alias.
- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- 4 Release the **PTT** button to listen.
The green LED lights up when the target radio responds. The display shows the **Group Call** icon, and alias or ID, and the transmitting radio alias or ID.
- 5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period.

The call initiator can press  to end a Group Call.

Making Group Calls by Using the Contacts List

Follow the procedure to make Group Calls on your radio by using the Contacts list.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select.
- 3 Press  or  to the required alias or ID. Press  to select.
- 4 Press the **PTT** button to make the call.
The green LED lights up.

The first line displays the subscriber alias or ID.
The second line displays **Group Call** and the **Group Call** icon.
- 5 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- 6 Release the **PTT** button to listen.
The green LED lights up when the target radio responds. The display shows the transmitting user ID.

- 7 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call. The call ends when there is no voice activity for a predetermined period.

The call initiator can press  to end the Group Call.

You hear a short tone. The display shows **Call Ended**.

Making Group Calls by Using the Programmable Number Key

Follow the procedure to make Group Calls on your radio by using the programmable number key.

- 1 Long press the programmed number key to the predefined alias or ID when you are on the Home screen.
If a number key is assigned to an entry in a particular mode, this feature is not supported when you long press the number key in another mode.

A negative indicator tone sounds if the number key is not associated to an entry.

- 2 Press the **PTT** button to make the call. The green LED lights up. The display shows the **Group Call** icon at the top right corner. The first text line shows the caller alias. The second text line displays the call status for Group Call.
- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- 4 Release the **PTT** button to listen. The green LED lights up when the target radio responds. The display shows the destination alias.
- 5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call. The call ends when there is no voice activity for a predetermined period. The radio returns to the screen you were on before initiating the call.

The call initiator can press  to end the Group Call.

See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

Making Group Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in Contacts. If the target radio is not available, you hear a short tone and see **Party Not Available** on the display; the radio returns to the menu prior to initiating the radio presence check. Follow the procedure to make All Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select. The display shows the entries in alphabetical order.
- 3 Enter the first character of the required alias.

The display shows a blinking cursor.

- 4 Enter the rest of the characters of the required alias.

The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.

The first text line shows the characters you entered. The following text lines show the shortlisted search results.

- 5 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination ID, call type, and **Group Call** icon.
- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- 7 Release the **PTT** button to listen. The green LED blinks when the target radio responds.
- 8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows **Call Ended**.

The call initiator can press  to end the Group Call.

Responding to Group Calls

Follow the procedure to respond to Group Calls on your radio.

When you receive a Group Call:

- The green LED blinks.
- The first line of the display shows the caller alias and the RSSI icon.
- The second line displays the group alias and the **Group Call** icon (in Digital mode only).
- Your radio unmutes and the incoming call sounds through the speaker.

1 Do one of the following:

- If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for

you to respond. Press the **PTT** button to respond to the call.

- If the Voice Interrupt feature is enabled, press the **PTT** button to interrupt the audio from the transmitting radio and free the channel for you to respond.

The green LED lights up.

-
- #### **2** Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

-
- #### **3** Release the **PTT** button to listen.

The call ends when there is no voice activity for a predetermined period.

Broadcast Call

A Broadcast Call is a one-way voice call from any user to an entire talkgroup.

The Broadcast Call feature allows only the call initiating user to transmit to the talkgroup, while the recipients of the call cannot respond.

The broadcast initiator can also end the broadcast call. To receive a call from a group of users, or to call a group of users, the radio must be configured as part of a group.

Making Broadcast Calls

Follow the procedure to make Broadcast Calls on your radio.

- 1 Do one of the following:
 - Select a channel with the active group alias or ID. See [Selecting a Call Type](#) on page 37.
 - Press the programmed **One Touch Access** button.
-
- 2 Press the **PTT** button to make the call.
The green LED lights up. The display shows the **Group Call** icon and alias.
-

- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

The call initiator can press  to end the Broadcast Call.

Making Broadcast Calls Using the Contact List

Follow the procedure to make Broadcast Calls on your radio using the Contacts list.

- 1 Press  to access the menu.
-

- 2 Press  or  to **Contacts**. Press  to select.
-

- 3 Press  or  to the required alias or ID. Press  to select.
-

- 4 Press the **PTT** button to make the call.
The green LED blinks.

The first line displays the subscriber alias or ID.
The second line displays **Group Call** and the **Group Call** icon.

- 5 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

The call initiator can press  to end the Broadcast Call.

Making Broadcast Calls Using the Programmable Number Key

Follow the procedure to make Broadcast Calls on your radio using the programmable number key.

- 1 Long press the programmed number key to the predefined alias or ID when you are on the Home screen.

If a number key is assigned to an entry in a particular mode, this feature is not supported when you long press the number key in another mode.

A negative indicator tone sounds if the number key is not associated to an entry.

- 2 Press the **PTT** button to make the call. The green LED lights up. The display shows the **Group Call** icon at the top right corner. The first text line shows the caller alias.
- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

The call initiator can press  to end the Broadcast Call.

Receiving Broadcast Calls

Follow the procedure to receive a Broadcast Call on your radio.

When you receive a Broadcast Call:

- The green LED blinks.
- The first line of the display shows the caller alias and the RSSI icon.
- The second line displays the group alias and the **Group Call** icon.

- Your radio unmutes and the incoming call sounds through the speaker.



Note:

Recipient users are not allowed to Talkback during a Broadcast Call. The display shows **Talkback Prohibit**. The Talkback Prohibit Tone will sound momentarily if the **PTT** button is pressed during a Broadcast Call.

Private Call

A Private Call is a call from an individual radio to another individual radio.

There are two ways to set up a Private Call.

- The first call type is called Off Air Call Set-Up (OACSU). OACSU sets up the call after performing a radio presence check and completes the call automatically.
- The second type is called Full Off Air Call Set-Up (FOACSU). FOACSU also sets up the call after performing a radio presence check. However, FOACSU calls require user acknowledgement to complete the call and allows the user to either Accept or Decline the call.

The type of call is configured by the system administrator.

If the target radio is not available prior to setting up the Private Call, the following occur:

- A tone sounds.
- The display shows a negative mini notice.
- The radio returns to the menu prior to initiating the radio presence check.



Note:

Both the call initiator and recipient are able to terminate an on-going Private Call by pressing



Making Private Calls

Your radio must be programmed for you to initiate a Private Call. You hear a negative indicator tone when you initiate the call if this feature is not enabled. If the target radio is not available, you hear a short tone and see *Party Not Available* on the display. Follow the procedure to make Private Calls on your radio.

- 1 Do one of the following:

- Select a channel with the active subscriber alias or ID. See [Selecting a Call Type](#) on page 37.
- Press the programmed **One Touch Access** button.

-
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
-

- 3 Press the **PTT** button to make the call. The green LED lights up. The display shows the **Private Call** icon, the subscriber alias, and call status.
-

- 4 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-

- 5 Release the **PTT** button to listen. The green LED lights up when the target radio responds.
-

- 6 The call ends when there is no voice activity for a predetermined period. The display shows *Call Ended*.

Both the call initiator and recipient are able to terminate an on-going Private Call by pressing



Making Private Calls by Using the Programmable Number Key

Follow the procedure to make Private Calls on your radio by using the programmable number key.

- 1 Long press the programmed number key to the predefined alias or ID when you are on the Home screen.

If a number key is assigned to an entry in a particular mode, this feature is not supported when you long press the number key in another mode.

A negative indicator tone sounds if the number key is not associated to an entry.

- 2 Press the **PTT** button to make the call. The green LED lights up. The display shows the **Private Call** icon at the top right corner. The first text line shows the caller alias. The second text line shows the call status.

- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 4 Release the **PTT** button to listen. The green LED blinks when the target radio responds. The display shows the destination alias.

- 5 The call ends when there is no voice activity for a predetermined period. The display shows **Call Ended**.

Both the call initiator and recipient are able to terminate an on-going Private Call by pressing



See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

Making Private Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in Contacts. Follow the procedure to make Private Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to **Contacts**. Press  to select. The display shows the entries in alphabetical order.

-
- 3 Enter the first character of the required alias. The display shows a blinking cursor.

-
- 4 Enter the rest of the characters of the required alias.
The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.
The first text line shows the characters you entered. The following text lines show the shortlisted search results.

-
- 5 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination ID, call type, and **Private Call** icon.

-
- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

-
- 7 Release the **PTT** button to listen. The green LED blinks when the target radio responds.

- 8 The call ends when there is no voice activity for a predetermined period. The display shows **Call Ended**.

Both the call initiator and recipient are able to terminate an on-going Private Call by pressing



Making a Private Call with a One Touch Call Button

The One Touch Call feature allows you to easily make a Private Call to a pre-defined Private Call alias or ID. This feature can be assigned to a short or long programmable button press.

You can **ONLY** have one alias or ID assigned to a One Touch Call button. Your radio can have multiple One Touch Call buttons programmed.

- 1 Press the programmed **One Touch Call** button to make a Private Call to the pre-defined Private Call alias or ID.
-
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
-
- 3 Press the **PTT** button to make the call.

The LED lights up solid green.

The display shows the Private Call alias or ID.

-
- 4 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
-

- 5 Release the **PTT** button to listen.

When the target radio responds, the LED blinks green.

If there is no voice activity for a predetermined period of time, the call ends.

Both the call initiator and recipient are able to terminate an on-going Private Call by pressing



Making Private Calls by Using the Manual Dial

Follow the procedure to make Private Calls on your radio by using the manual dial.

- 1 Press  to access the menu.

- 2 Press  or  to **Contacts**. Press  to select.

- 3 Press  or  to **Manual Dial**. Press  to select.

- 4 Press  or  to **Radio Number**. Press  to select.

- 5 Do one of the following:

- Enter the subscriber ID, and press  to proceed.
 - Edit the previously dialed subscriber ID, and press  to proceed.
-

- 6 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination alias.

- 7 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 8 Release the **PTT** button to listen. The green LED lights up when the target radio responds. The display shows the transmitting user alias or ID.

- 9 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows `Call Ended`.

Both the call initiator and recipient are able to terminate an on-going Private Call by pressing



Responding to Private Calls

When you receive a Private Call:

- The green LED blinks.
- The first line shows the subscriber alias or ID, and the RSSI icon.
- The second line displays `Private Call` and the **Private Call** icon.
- Your radio unmutes and the incoming call sounds through the speaker.



Note:

Depending on how your radio is configured, either Off Air Call Set-Up (OACSU) or Full Off Air Call Set-Up (FOACSU), responding to Private Calls may or may not require user acknowledgement.

For the OACSU configuration, your radio unmutes and the call connects automatically.

The following are methods on how to respond to Private Calls configured as FOACSU.

- To decline a Private Call, do one of the following:
 - Press  or  to `Reject` and press  to decline a Private Call.
 - Press  to decline a Private Call.
 - To accept a Private Call, do one of the following:
 - Press  or  to `Accept` and press  to answer a Private Call.
 - Press the **PTT** button on any entry.
 - The green LED lights up.
-

- Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- Release the **PTT** button to listen.

The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows *Call Ended*.



Note:

Both the call initiator and recipient are able to terminate an on-going Private Call by pressing .



Note:

Subscribers can support System-Wide All Calls but Motorola infrastructure does not support System-Wide All Calls.

Receiving All Calls

When you receive an All Call:

- A tone sounds.
- The green LED blinks.
- The display shows the caller ID information and RSSI icon at the top right corner.
- The first text line shows the **Group Call** icon and either *All Call*, *Site All Call*, or *Multi Site Call* depending on the type of configuration.
- Your radio unmutes and the incoming call sounds through the speaker.

The radio returns to the screen before receiving the All Call when the call ends.

If the Channel Free Indication feature is enabled, you hear a short alert tone when the transmitting radio releases the **PTT** button, indicating the channel is free for you to use. You cannot respond to an All Call.

All Calls

An All Call is a call from an individual radio to every radio on the site or every radio at a group of sites, depending on system configuration. An All Call is used to make important announcements, requiring full attention from the user. The users on the system cannot respond to an All Call.

Capacity Max supports Site All Call and Multi-site All Call. The system administrator may configure one or both of these in your radio.

**Note:**

The radio stops receiving the All Call if you switch to a different channel while receiving the call. You are not able to continue with any menu navigation or editing until the call ends during an All Call.

Making All Calls

Your radio must be programmed for you to make an All Call. Follow the procedure to make All Calls on your radio.

- 1 Select a channel with the active All Call group alias or ID. See [Selecting a Call Type](#) on page 37.
- 2 Press the **PTT** button to make the call. The green LED lights up. The display shows the **Group Call** icon and either All Call, Site All Call, or Multi Site Call depending on the type of configuration.
- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled. Users on the channel cannot respond to the All Call.

The call initiator can press  to end the All Call.

Making All Calls by Using the Programmable Number Key

Follow the procedure to make All Calls on your radio by using the programmable number key.

- 1 Long press the programmed number key assigned to the predefined alias or ID when you are on the Home screen.

If a number key is assigned to an entry in a particular mode, this feature is not supported when you long press the number key in another mode.

A negative indicator tone sounds if the number key is not associated to an entry.
- 2 Press the **PTT** button to make the call. The green LED lights up. The display shows the **Group Call** icon and either All Call, Site All Call, or Multi Site Call depending on the type of configuration.
- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

The call initiator can press  to end the All Call.

See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

Making All Calls by Using the Alias Search

You can use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in Contacts. Follow the procedure to make All Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select. The display shows the entries in alphabetical order.
- 3 Enter the first character of the required alias. The display shows a blinking cursor.

- 4 Enter the rest of the characters of the required alias.

The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.

The first text line shows the characters you entered. The following text lines show the shortlisted search results.

- 5 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination ID, call type, and **Group Call** icon.
- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.



Note:

The call initiator can press  to end the All Call.

Phone Calls

A Phone Call is a call from an individual radio to a telephone.

In Capacity Max, your radio is able to receive calls and talkback even if the Phone Call capability is disabled.

The Phone Call capability can be enabled by assigning and setting up phone numbers on the system. Check with your system administrator to determine how your radio has been programmed.

Making Phone Calls

Follow the procedure to make Phone Calls on your radio.

- 1 Press the programmed **One Touch Access** button to the predefined alias or ID.
If the entry for the **One Touch Access** button is empty, a negative indicator tone sounds. If the access code is not preconfigured in the Contact List, the display shows `Access Code!.`

- 2 Enter the access code, and press  to proceed.
The access or deaccess code cannot be more than 10 characters.

- 3 Press the **PTT** button to make the call.
The green LED lights up. The display shows the **Phone Call** icon at the top right corner. The first text line shows the subscriber alias. The second text line shows the call status.

If the call is successful:

- The DTMF Tone sounds.
- You hear the dialing tone of the telephone user.
- The first text line shows the subscriber alias.
- The display continues to show the **Phone Call** icon at the top right corner.

If the call is unsuccessful:

- A tone sounds.
- The display shows `Phone Call Failed` and then, `Access Code!.`
- If the access code has been preconfigured in the Contacts list, your radio returns to the screen you were on before initiating the call.

-
- 4 Press the **PTT** button to respond to the call.

 - 5 Release the **PTT** button to listen.

- 6 Enter extra digits with the keypad if requested by the call, and press  to proceed.

If the call ends while you are entering the extra digits requested by the call, your radio returns to the screen you were on before initiating the call.

The DTMF Tone sounds. Your radio returns to the previous screen.

-
- 7 Press  to end the call.
-

- 8 Do one of the following:

- If the deaccess code was not preconfigured, enter the deaccess code when the display

shows `De-Access Code:`, and press  to proceed.

The radio returns to the previous screen.

- Press the programmed **One Touch Access** button.

If the entry for the **One Touch Access** button is empty, a negative indicator tone sounds.

The DTMF Tone sounds and the display shows `Ending Phone Call`.

If the call ends successfully:

- A tone sounds.
- The display shows `Call Ended`.

If the call fails to end, the radio returns to the Phone Call screen. Repeat the last two steps or wait for the telephone user to end the call.

When the telephone user ends the call, a tone sounds and the display shows `Call Ended`.

Making Phone Calls by Using the Contacts List

Follow the procedure to make Phone Calls on your radio by using the Contacts list.

-
- 1 Press  to access the menu.
-
- 2 Press  or  to `Contacts`. Press  to select. The display shows the entries in alphabetical order.
-
- 3 Press  or  to the required alias or ID. Press  to select.

When you press the **PTT** button while on the Phone Contacts screen:

- A negative indicator tone sounds.
- The display shows `Press OK to Place Phone Call`.

If the selected entry is empty:

- A negative indicator tone sounds.
- The display shows `Phone Call Invalid #`.

-
- 4** Press  or  to Call Phone. Press  to select.
The display shows `Access Code:` if the access code was not preconfigured.
-

- 5** Enter the access code, and press  to proceed.
The access or deaccess code cannot be more than 10 characters.
The first text line shows `Calling`. The second text line shows the subscriber alias or ID, and the **Phone Call** icon.

If the call is successful:

- The DTMF Tone sounds.
- You hear the dialing tone of the telephone user.

- The first text line shows the subscriber alias or ID, and the **RSSI** icon.
- The second text line shows `Phone Call`, and the **Phone Call** icon.

If the call is unsuccessful:

- A tone sounds.
 - The display shows `Phone Call Failed` and then, `Access Code:`.
 - Your radio returns to the screen you were on prior to initiating the call if the access code has been preconfigured in the Contacts list.
-

- 6** Press the **PTT** button to respond to the call.
The **RSSI** icon disappears.
-

- 7** Release the **PTT** button to listen.
-

- 8** Enter extra digits with the keypad if requested by the call, and press  to proceed.

If the call ends while you are entering the extra digits requested by the call, your radio returns to the screen you were on prior to initiating the call.
The DTMF Tone sounds. Your radio returns to the previous screen.

9 Press  to end the call.

10 If the deaccess code was not preconfigured, enter the deaccess code when the display shows De-

Access Code:, and press  to proceed. The radio returns to the previous screen. The DTMF Tone sounds and the display shows Ending Phone Call.

If the call ends successfully:

- A tone sounds.
- The display shows Call Ended.

If the call fails to end, the radio returns to the Phone Call screen. Repeat Step 9 and Step 10, or wait for the telephone user to end the call. When you press the PTT button while in the Phone Contacts screen, as tone sounds and the display shows Press OK to Place Phone Call.

When the telephone user ends the call, a tone sounds and the display shows Phone Call Ended.

If the call ends while you are entering the extra digits requested by the Phone Call, your radio

returns to the screen you were on prior to initiating the call.

Making Phone Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in Contacts. Follow the procedure to make Phone Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search.

- 1 Press  to access the menu.
- 2 Press  or  to Contacts. Press  to select. The display shows the entries in alphabetical order.
- 3 Enter the first character of the required alias. The display shows a blinking cursor.
- 4 Enter the rest of the characters of the required alias.

The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.

The first text line shows the characters you entered. The following text lines show the shortlisted search results.

-
- 5 Press the **PTT** button to make the call.
The green LED lights up. The display shows the destination ID, call type, and **Phone Call** icon.

 - 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

 - 7 Release the **PTT** button to listen.
The green LED blinks when the target radio responds.

 - 8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows `Call Ended`.

Dual Tone Multi Frequency

The Dual Tone Multi Frequency (DTMF) feature allows the radio to operate in a radio system with an interface to the telephone systems.

You can turn off the DTMF tone by disabling all radio tones and alerts. See [Turning Radio Tones/Alerts On or Off](#) on page 104 for more information.

Responding to Phone Calls as Group Calls

Follow the procedure to respond to Phone Calls as Group Calls on your radio.

When you receive a Phone Call as a Group Call:

- The display shows the **Phone Call** icon at the top right corner.
- The display shows `Phone Call`.
- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.

-
- 1 Press the **PTT** button to respond to the call.

 - 2 Release the **PTT** button to listen.

 - 3 Press  to end the call.
The display shows `Ending Phone Call`.

**Note:**

If Phone Call capability is not enabled in your radio, the radio is not able to terminate a phone call as a group call. The telephone user must end the call. The recipient user is only allowed to talkback during the call.

If the call ends successfully:

- A tone sounds.
- The display shows `Call Ended`.

If the call fails to end, the radio returns to the Phone Call screen. Repeat Step 3 or wait for the telephone user to end the call.

Responding to Phone Calls as All Calls

When you receive a Phone Call as an All Call, the receiving radio is unable to talkback or respond. The recipient user is also not allowed to end the All Call.

When you receive a Phone Call as an All Call:

- The display shows the **Phone Call** icon at the top right corner.
- The display shows either `All Call`, `Site All Call`, or `Multi Site Call` depending on the type of configuration and Phone Call.

- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.

Responding to Phone Calls as Private Calls

Follow the procedure to respond to Phone Calls as Private Calls on your radio.

When you receive a Phone Call as a Private Call:

- The display shows the **Phone Call** icon at the top right corner.
- The display shows `Phone Call`.
- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.

1 Press the **PTT** button to respond to the call.

2 Release the **PTT** button to listen.

3 Press  to end the call.
The display shows `Ending Phone Call`.

**Note:**

If Phone Call capability is not enabled in your radio, the radio is not able to terminate a phone call as a private call.

The telephone user must end the call. The recipient user is only allowed to talkback during the call.

If the call ends successfully:

- A tone sounds.
- The display shows `Call Ended`.

If the call fails to end, the radio returns to the Phone Call screen. Repeat Step 3 or wait for the telephone user to end the call.

Call Preemption

Call Preemption allows a radio to stop any in-progress voice transmission and initiate a priority transmission.

With the Call Preemption feature, the system interrupts and preempts ongoing calls in instances where trunked channels are unavailable.

Higher priority calls such as an Emergency Call or an All Call preempt the transmitting radio to accommodate the higher priority call. If no other Radio Frequency (RF) channels are available, an Emergency Call preempts an All Call as well.

Voice Interrupt

Voice Interrupt allows the user to shut down an in-progress voice transmission.

This feature uses reverse channel signaling to stop the in-progress voice transmission of a radio, if the interrupting radio is configured to Voice Interrupt, and the transmitting radio is configured to be Voice Call Interruptible. The interrupting radio is then allowed to make a voice transmission to the participant in the stopped call.

The Voice Interrupt feature significantly improves the probability of successfully delivering a new transmission to the intended parties when a call is in progress.

Voice Interrupt is accessible to the user only if this feature has been set up in the radio. Check with your dealer or system administrator for more information.

Enabling Voice Interrupt

Follow the procedure to initiate Voice Interrupt on your radio.

Your radio must be programmed to allow you to use this feature. Check with your dealer or system administrator for more information.

- 1 Press the **PTT** button during an on-going call to interrupt the transmission.
On the interrupted radio, the display shows **Call Interrupted**. The radio sounds a negative indicator tone until the **PTT** button is released.

- 2 Wait for acknowledgement.
If successful:
 - A positive indicator tone sounds.
 If unsuccessful:
 - A negative indicator tone sounds.

- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

Advanced Features

This chapter explains the operations of the features available in your radio.



Note:

Your dealer or system administrator may have customized your radio for your specific needs. Check with your dealer or system administrator for more information.

Home Channel Reminder

This feature provides a reminder when the radio is not set to the home channel for a period of time.

If this feature is enabled when your radio is not set to the home channel for a period of time, the following occurs periodically:

- The Home Channel Reminder tone and announcement sound.
- The first line of the display shows **Non**.
- The second line shows **Home Channel**.

Muting the Home Channel Reminder

When the Home Channel Reminder occurs, you can temporarily mute the reminder.

Press the **Silence Home Channel Reminder** programmable button.

The first line of the display shows **HCR** and the second line shows **Silenced**.

Setting New Home Channels

When the Home Channel Reminder occurs, you can set a new home channel.

- 1 Do one of the following:

- Press the **Reset Home Channel** programmable button to set the current channel as the new Home Channel. Skip the following steps.

The first line of the display shows the channel alias and the second line shows New Home Ch.

- Press  to access the menu.

2 Press  or  to Utilities. Press  to select.

3 Press  or  to Radio Settings. Press  to select.

4 Press  or  to Home Channel. Press  to select.

5 Press  or  to the desired new home channel alias. Press  to select.
The display shows  beside the selected home channel alias.

Call Queue

When there are no resources available to process a call, Call Queue enables the call request to be placed in the system queue for the next available resources.

You hear a Call Queue Tone after pressing the **PTT** button indicating that the radio has entered Call Queue State. The **PTT** button may be released once the Call Queue Tone is heard.

If the call setup is successful, the following occur:

- The green LED blinks.
- If enabled, the Talk Permit Tone sounds.
- The display shows the call type icon, ID or alias.
- The radio user has up to 4 seconds to press the **PTT** button to begin voice transmission.

If the call setup is unsuccessful, the following occur:

- If enabled, the Reject Tone sounds.
- The display shows the failure notice screen momentarily.
- The call is terminated and the radio exits the call setup.

Talkgroup Scan

This feature allows your radio to monitor and join calls for groups defined by a Digital Receive Group List. The Digital Receive Group List is programmed by the system administrator. When the radio detects a call in progress on one of these talkgroups, the radio plays the transmission. User can then push the **PTT** button and reply to that Talkgroup.

Your radio is only allowed to join a Talkgroup scan call at the site where another radio has already registered with using that Talkgroup, at the desired site.



Note:

Check with your system administrator to determine how your radio has been programmed.

Remote Monitor

This feature is used to turn on the microphone of a target radio with a subscriber alias or ID. You can use this feature to remotely monitor any audible activity surrounding the target radio.

Both your radio and the target radio must be programmed to allow you to use this feature.

If initiated, the green LED blinks once on the target radio. This feature automatically stops after a programmed duration or when there is any user operation on the target radio.

Initiating Remote Monitors

Follow the procedure to initiate Remote Monitor on your radio.

- 1 Press the programmed **Remote Monitor** button.

- 2 Press  or  to the required alias or ID. Press  to select.
The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

- 3 Wait for acknowledgment.
If successful:
 - A positive indicator tone sounds.
 - The display shows a positive mini notice.
 - The audio from the monitored radio starts playing for a programmed duration, and the display shows **Rem. Monitor**. Once the timer expires, an alert tone sounds, and the LED turns off.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Initiating Remote Monitors by Using the Contacts List

Follow the procedure to initiate Remote Monitor on your radio by using the Contacts list.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select.
- 3 Press  or  to the required alias or ID. Press  to select.
- 4 Press  or  to **Remote Mon.**. Press  to select.
The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.
- 5 Wait for acknowledgment.
If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.
- The audio from the monitored radio starts playing for a programmed duration, and the display shows **Rem. Monitor**. Once the timer expires, an alert tone sounds, and the LED turns off.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Initiating Remote Monitors by Using the Manual Dial

Follow the procedure to initiate Remote Monitor on your radio by using the manual dial.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select.
- 3 Press  or  to **Manual Dial**. Press  to select.

- 4 Press ▲ or ▼ to Radio Number. Press  to select.

- 5 Do one of the following:

- Enter the subscriber alias or ID, and press  to proceed.
- Edit the previously dialed ID, and press  to proceed.

- 6 Press ▲ or ▼ to Remote Mon.. Press  to select.

The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

- 7 Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.
- The audio from the monitored radio starts playing for a programmed duration, and the display shows Rem. Monitor. Once the timer

expires, an alert tone sounds, and the LED turns off.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Contacts Settings

Contacts provides address book capabilities on your radio. Each entry corresponds to an alias or ID that you use to initiate a call. The entries are alphabetically sorted.

Each entry, depending on context, associates with the different call types: Group Call, Private Call, Broadcast Call, Site All Call, Multi-site All Call, PC Call or Dispatch Call.

PC Call and Dispatch Call are data-related. They are only available with the applications. Refer to the data applications documentation for further details.

Additionally, Contacts menu allows you to assign each entry to a programmable number key or more on a keypad microphone. If an entry is assigned to a number key, your radio can perform a quick dial on the entry.

**Note:**

You see a checkmark before each number key that is assigned to an entry. If the checkmark is before **Empty**, you have not assigned a number key to the entry.

Your radio supports a maximum of 1,000 Contact list members.

Each entry within Contacts displays the following information:

- Call Type
- Call Alias
- Call ID

**Note:**

You can add, or edit subscriber IDs for the Digital Contacts list. Deleting subscriber IDs can only be performed by your dealer.

If the Privacy feature is enabled on a channel, you can make privacy-enabled Group Calls, Private Calls, All Calls, and Phone Calls on that channel. Only target radios with the same Privacy Key, or the same Key Value and Key ID as your radio will be able to decrypt the transmission.

Assigning Entries to Programmable Number Keys

Follow the procedure to assign entries to programmable number keys on your radio.

- 1 Press to access the menu.

- 2 Press or to **Contacts**. Press to select.

- 3 Press or to the required alias or ID. Press to select.

- 4 Press or to **Program Key**. Press to select.

- 5 Do one of the following:
 - If the desired number key has not been assigned to an entry, press or to the desired number key. Press to select.
 - If the desired number key has been assigned to an entry, the display shows **The Key is Already Assigned** and then, the first text line shows **Overwrite?**. Do one of the following:

Press ▲ or ▼ to Yes. Press  to select.

The radio sounds a positive indicator tone and the display shows `Contact Saved` and a positive mini notice.

Press ▲ or ▼ to No to return to the previous step.

Removing Associations Between Entries and Programmable Number Keys

Follow the procedure to remove the associations between entries and programmable number keys on your radio.

- 1 Do one of the following:
 - Long press the programmed number key to the required alias or ID. Proceed to Step 4.
 - Press  to access the menu.

-
- 2 Press ▲ or ▼ to `Contacts`. Press  to select.

-
- 3 Press ▲ or ▼ to the required alias or ID. Press  to select.
-

- 4 Press ▲ or ▼ to `Program Key`. Press  to select.
-

- 5 Press ▲ or ▼ to `Empty`. Press  to select.
The first text line shows `Clear from all keys`.
-

- 6 Press ▲ or ▼ to Yes. Press  to select.



Note:

When an entry is deleted, the association between the entry and its programmed number key(s) is removed.

A positive indicator tone sounds. The display shows `Contact Saved`.

The screen automatically returns to the previous menu.

Adding New Contacts

Follow the procedure to add new contacts on your radio.

- 1 Press  to access the menu.
-

- 2 Press ▲ or ▼ to **Contacts**. Press  to select.

- 3 Press ▲ or ▼ to **New Contact**. Press  to select.

- 4 Press ▲ or ▼ to select contact type **Radio Contact** or **Phone Contact**. Press  to select.

- 5 Enter the contact number with the keypad, and press  to proceed.

- 6 Enter the contact name with the keypad, and press  to proceed.

- 7 Press ▲ or ▼ to the required ringer type. Press  to select.
A positive indicator tone sounds. The display shows a positive mini notice.

Call Indicator Settings

Activating or Deactivating Call Ringers for Private Calls

Follow the procedure to activate or deactivate call ringers for Private Calls on your radio.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to **Utilities**. Press  to select.

- 3 Press ▲ or ▼ to **Radio Settings**. Press  to select.

- 4 Press ▲ or ▼ to **Tones/Alerts**. Press  to select.

- 5 Press ▲ or ▼ to **Call Ringers**. Press  to select.

- 6 Press ▲ or ▼ to **Private Call**. Press  to select.

7 Do one of the following:

- Press ▲ or ▼ to the required tone. Press  to select.

The display shows ✓ and the selected tone.

- Press ▲ or ▼ to Off. Press  to select.

If the ringing tones were earlier enabled, the display shows ✓ beside Off.

If the ringing tones were earlier disabled, the display does not show ✓ beside Off.

Activating or Deactivating Call Ringers for Text Messages

Follow the procedure to activate or deactivate call ringers for text messages on your radio.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Tones/Alerts. Press  to select.

- 5 Press ▲ or ▼ to Call Ringers. Press  to select.

- 6 Press ▲ or ▼ to Text Message. Press  to select.
The display shows ✓ and the current tone.

7 Do one of the following:

- Press ▲ or ▼ to the required tone. Press  to select.

The display shows ✓ and the selected tone.

- Press ▲ or ▼ to Off. Press  to select.

If the ringing tones were earlier enabled, the display shows ✓ beside Off.

If the ringing tones were earlier disabled, the display does not show ✓ beside Off.

Activating or Deactivating Call Ringers for Call Alerts

Follow the procedure to activate or deactivate call ringers for Call Alerts on your radio.

- 1 Press  to access the menu.
 - 2 Press  or  to Utilities. Press  to select.
 - 3 Press  or  to Radio Settings. Press  to select.
 - 4 Press  or  to Tones/Alert. Press  to select.
 - 5 Press  or  to Call Ringers. Press  to select.
 - 6 Press  or  to Call Alert. Press  to select.
-

7 Do one of the following:

- Press  or  to the required tone. Press  to select.

The display shows ✓ and the selected tone.

- Press  or  to Off. Press  to select.

If the ringing tones were earlier enabled, the display shows ✓ beside Off.

If the ringing tones were earlier disabled, the display does not show ✓ beside Off.

Call Log Features

Your radio keeps track of all recent outgoing, answered, and missed Private Calls. The call log feature is used to view and manage recent calls.

Missed Call Alerts may be included in the call logs, depending on the system configuration on your radio. You can perform the following tasks in each of your call lists:

- Store Alias or ID to Contacts
- Delete Call
- Delete All Calls

- View Details

Viewing Recent Calls

Follow the procedure to view recent calls on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Call Log. Press  to select.

- 3 Press  or  to the preferred list. Press  to select.
The options are Missed, Answered, and Outgoing lists.
The display shows the most recent entry.

- 4 Press  or  to view the list.
You can start a Private Call with the alias or ID the display is currently showing by pressing the **PTT** button.

Storing Aliases or IDs from the Call List

Follow the procedure to store aliases or IDs on your radio from the Call list.

- 1 Press  to access the menu.

- 2 Press  or  to Call Log. Press  to select.

- 3 Press  or  to the required list. Press  to select.

- 4 Press  or  to the required alias or ID. Press  to select.

- 5 Press  or  to Store. Press  to select.
The display shows a blinking cursor.

- 6 Enter the rest of the characters of the required alias. Press  to select.
You can store an ID without an alias.
The display shows a positive mini notice.

Deleting Calls from the Call List

Follow the procedure to delete calls on your radio from the Call list.

- 1 Press  to access the menu.

- 2 Press  or  to Call Log. Press  to select.

- 3 Press  or  to the required list. Press  to select.
If the list is empty:
 - A tone sounds.
 - The display shows List Empty.

- 4 Press  or  to the required alias or ID. Press  to select.

- 5 Press  or  to Delete Entry?. Press  to select.

- 6 Do one of the following:
 - Press  to select Yes to delete the entry.

The display shows Entry Deleted.

- Press  or  to No. Press  to select.

The radio returns to the previous screen.

Viewing Details from the Call List

Follow the procedure to view details on your radio from the Call list.

- 1 Press  to access the menu.

- 2 Press  or  to Call Log. Press  to select.

- 3 Press  or  to the required list. Press  to select.

- 4 Press  or  to the required alias or ID. Press  to select.

- 5 Press  or  to View Details. Press  to select.
The display shows the details.

Call Alert Operation

Call Alert paging enables you to alert a specific radio user to call you back when they are able to do so.

This feature is applicable for subscriber aliases or IDs only and is accessible through the menu via Contacts, manual dial, or a programmed **One Touch Access** button.

In Capacity Max, the Call Alert feature allows a radio user or a dispatcher to send an alert to another radio user requesting the radio user to call back the initiating radio user when available. Voice communication is not involved in this feature.

The Call Alert Operation can be configured by the dealer or the system administrator in two ways:

- The radio is configured to allow the user to press the **PTT** button to respond directly to the call initiator by making a Private Call.
- The radio is configured to allow the user to press the **PTT** button and continue with other Talkgroup communication. Pressing the **PTT** button on the call alert entry will not allow the user to respond to the call initiator. The user must navigate to the Missed Call Log option at the Call Log menu and respond to the Call Alert from there.

An Off Air Call Set-Up (OACSU) private call allows the user to respond immediately while an Full Off Air Call Set-Up (FOACSU) private call requires user acknowledgement for the call. OACSU type calls are therefore, recommended to be used for the call alert feature. See [Private Call](#) on page 45.

Responding to Call Alerts

Follow the procedure to respond to Call Alerts on your radio.

When you receive a Call Alert:

- A repetitive tone sounds.
- The yellow LED blinks.
- The display shows the notification list listing a Call Alert with the alias or ID of the calling radio.

Depending on the configuration by your dealer or system administrator, you can respond to a Call Alert by doing one of the following:

- Press the **PTT** button and respond with a Private Call directly to the caller.
- Press the **PTT** button to continue normal talkgroup communication.

The Call Alert is moved to the Missed Call option at the Call Log menu. You can respond to the caller from the Missed Called log.

See [Notification List](#) on page 98 and [Call Log Features](#) on page 70 for more information.

Making Call Alerts

Follow the procedure to make Call Alerts on your radio.

- 1 Press the programmed **One Touch Access** button.
The display shows `Call Alert` and the subscriber alias or ID. The green LED lights up.
- 2 Wait for acknowledgment.
If the Call Alert acknowledgment is received, the display shows a positive mini notice.

If the Call Alert acknowledgment is not received, the display shows a negative mini notice.

Making Call Alerts by Using the Contacts List

Follow the procedure to make Call Alerts on your radio by using the Contacts list.

- 1 Press  to access the menu.

- 2 Press  or  to `Contacts`. Press  to select.

- 3 Do one of the following:

- Select the subscriber alias or ID directly

Press  or  to the required alias or ID.

Press  to select.

- Use the `Manual Dial` menu

Press  or  to `Manual Dial`. Press

 to select.

Press  or  to `Radio Contact`. Press

 to select.

The display shows `Radio Number:` and a blinking cursor. Enter the subscriber ID you want to page. Press  to select.

- 4 Press  or  to `Call Alert`. Press  to select.
The display shows `Call Alert` and the subscriber alias or ID. The green LED lights up.

- 5 Wait for acknowledgment.

If the Call Alert acknowledgment is received, the display shows a positive mini notice.

If the Call Alert acknowledgment is not received, the display shows a negative mini notice.

Emergency Operation

An Emergency Alarm is used to indicate a critical situation. You are able to initiate an Emergency at any time even when there is activity on the current channel.

In Capacity Max, the receiving radio can only support a single Emergency Alarm at a time. If initiated, a second Emergency Alarm will override the first alarm.

When an Emergency Alarm is received, the recipient may choose to either delete the alarm and exit the Alarm List, or respond to the Emergency Alarm by pressing the **PTT** button and transmitting non-emergency voice.

Your dealer or system administrator can set the duration of a button press for the programmed **Emergency** button, except for long press, which is similar with all other buttons:

Short Press Duration between 0.05 seconds and 0.75 seconds.

Long Press Duration between 1.00 second and 3.75 seconds.

The **Emergency** button is assigned with the Emergency On/Off feature. Check with your dealer for the assigned operation of the **Emergency** button.



Note:

If short press the **Emergency** button is assigned to turn on the Emergency mode, then long press the **Emergency** button is assigned to exit the Emergency mode.

If long press the **Emergency** button is assigned to turn on the Emergency mode, then short press the **Emergency** button is assigned to exit the Emergency mode.

Your radio supports three Emergency Alarms:

- Emergency Alarm
- Emergency Alarm with Call
- Emergency Alarm with Voice to Follow

In addition, each alarm has the following types:

- Regular** Radio transmits an alarm signal and shows audio and/or visual indicators.
- Silent** Radio transmits an alarm signal without any audio or visual indicators. Radio receives calls without any sound through the speaker, until the programmed *hot mic* transmission period is over and/or you press the **PTT** button.
- Silent with Voice** Radio transmits an alarm signal without any audio or visual indicators, but allow incoming calls to sound through the speaker. If *hot mic* is enabled, the incoming calls sound through the speaker after the programmed *hot mic* transmission period is over. The indicators only appear once you press the **PTT** button.

**Note:**

Only one of the Emergency Alarms above can be assigned to the programmed **Emergency** button.

Sending Emergency Alarms

This feature allows you to send an Emergency Alarm, a non-voice signal, which triggers an alert indication

on a group of radios. Follow the procedure to send Emergency Alarms on your radio.

Your radio does not display any audio or visual indicators during Emergency mode when it is set to Silent.

- 1 Press the programmed **Emergency On** button. You see the following:

- The display shows Tx Alarms and the destination alias.

The green LED lights up. The **Emergency** icon appears.

**Note:**

If programmed, the Emergency Search tone sounds. This tone is muted when the radio transmits or receives voice, and stops when the radio exits Emergency mode. The Emergency Search tone can be programmed by the dealer or system administrator.

- 2 Wait for acknowledgment. If successful:

- The Emergency tone sounds.

- The green LED blinks.
- The display shows `Alarm Sent`.

If unsuccessful after all retries have been exhausted:

- A tone sounds.
- The display shows `Alarm Failed`.

The radio exits the Emergency Alarm mode and returns to the Home screen.



Note:

When configured for Emergency Alarm only, the emergency process consists only of the Emergency Alarm delivery. The emergency ends when an acknowledgement is received from the system, or when channel access attempts have been exhausted.

No voice call is associated with the sending of an Emergency Alarm when operating as Emergency Alarm Only.

Sending Emergency Alarms with Call

This feature allows you to send an Emergency Alarm with Call to a group of radios or a dispatcher. Upon acknowledgement by the infrastructure within the

group, a group of radios can communicate over a programmed Emergency channel. Follow the procedure to send Emergency Alarms with call on your radio.

The radio must be configured for Emergency Alarm and Call to perform an emergency call after the alarm process.

1 Press the programmed **Emergency On button.**

You see the following:

The display shows `Tx Alarm` and the destination alias. The **Emergency** icon appears. The green LED lights up.



Note:

If programmed, the Emergency Search tone sounds. This tone is muted when the radio transmits or receives voice, and stops when the radio exits Emergency mode.

If an Emergency Alarm acknowledgment is successful received:

- The Emergency tone sounds.
- The green LED blinks.
- The display shows `Alarm Sent`.

If an Emergency Alarm acknowledgment is not successfully received:

- All retries are exhausted.
- A low-pitched tone sounds.
- The display shows **Alarm Failed**.
- The radio exits the Emergency Alarm mode.

2 Press the **PTT** button to initiate a voice transmission.
The green LED lights up. The display shows the **Group Call** icon.

3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

4 Release the **PTT** button to listen.
The display shows the caller and group aliases.

5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

6 Press the **Emergency Off** button to exit the Emergency mode.

The radio returns to the Home screen.



Note:

Depending on how your radio is programmed, you may or may not hear a Talk Permit tone. Your radio dealer or system administrator can provide more information on how your radio has been programmed for Emergency.



Note:

The Emergency Call initiator may press



to end an on-going emergency call.
The radio returns to a call idle state but the emergency call screen remains open.

Sending Emergency Alarms with Voice to Follow

This feature allows you to send an Emergency Alarm with Voice to Follow to a group of radios. Your radio microphone is automatically activated, allowing you to communicate with the group of radios without pressing the **PTT** button. This activated microphone state is also known as *hot mic*.

If your radio has Emergency Cycle Mode enabled, repetitions of *hot mic* and receiving period are made for a programmed duration. During Emergency Cycle Mode, received calls sound through the speaker.

If you press the **PTT** button during the programmed receiving period, you hear a prohibit tone, indicating that you should release the **PTT** button. The radio ignores the **PTT** button press and remains in Emergency mode.

If you press the **PTT** button during *hot mic*, and continue to press it after the *hot mic* duration expires, the radio continues to transmit until you release the **PTT** button.

If the Emergency Alarm request fails, the radio does not retry to send the request, and enters the *hot mic* state directly.



Note:

Some accessories may not support *hot mic*. Check with your dealer or system administrator for more information.

Follow the procedure to send Emergency Alarms with voice to follow on your radio.

- 1 Press the programmed **Emergency On** button. You see the following:

- The display shows **Tx Alarm** and the destination alias.

The green LED lights up. The **Emergency** icon appears.

- 2 Once the display shows **Alarm Sent**, speak clearly into the microphone.

The radio automatically stops transmitting when:

- The cycling duration between *hot mic* and receiving calls expires, if Emergency Cycle Mode is enabled.
- The *hot mic* duration expires, if Emergency Cycle Mode is disabled.

Receiving Emergency Alarms

The receiving radio can only support a single Emergency Alarm at a time. If initiated, a second Emergency Alarm will override the first alarm. Follow the procedure to receive and view Emergency Alarms on your radio.

When you receive an Emergency Alarm:

- A tone sounds.
- The red LED blinks.
- The display shows the Emergency Alarm List, the Emergency Talkgroup ID or alias, and the ID or alias of the transmitting radio.

- 1 Press  to view the alarm.

- 2 Press  to view the action options and details of the entry in the Alarm List.

- 3 Press  and select **Yes** to exit the Alarm list. The radio returns to the home screen with an **Emergency Icon** displayed at the top, indicating the unresolved Emergency Alarm. The **Emergency Icon** disappears once the entry in the Alarm List is deleted.

- 4 Press  to access the menu.

- 5 Select **Alarm List** to revisit the Alarm list.

Responding to Emergency Alarms

When an Emergency Alarm is received, the recipient may choose to either delete the alarm and exit the Alarm List, or respond to the Emergency Alarm by pressing the **PTT** button and transmitting non-emergency voice. Follow the procedure to respond to Emergency Alarms on your radio.

- 1 If the Emergency Alarm Indication is enabled, the Emergency Alarm List appears when the radio receives an Emergency Alarm. Press  or  to the required alias or ID.

- 2 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to transmit non-emergency voice to the same group the Emergency Alarm targeted. The green LED lights up.

- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 4 Release the **PTT** button to listen. When the emergency initiating radio responds:
 - The red LED blinks.
 - The display shows the **Emergency Call** icon, the Emergency Talkgroup ID or alias, and the ID or alias of the transmitting radio.



Note:

If the Emergency Call Indication is not enabled, the display shows the **Group Call**

icon, Emergency Talkgroup ID or alias, and the ID or alias of the transmitting radio.

Responding to Emergency Alarms with Call

Follow the procedure to respond to Emergency Alarms with Call on your radio.

When you receive an Emergency Call:

- The Emergency Call Tone sounds if the Emergency Call Indication and Emergency Call Decode Tone is enabled. The Emergency Call Tone will not sound if only the Emergency Call Indication is enabled.
 - The display shows the **Emergency Call** icon, Emergency Talkgroup ID or alias, and the ID or alias of the transmitting radio.
 - Your radio unmutes and the incoming call sounds through the speaker.
- 1** If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call. The green LED lights up.

- 2** Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 3** Release the **PTT** button to listen.
When the emergency initiating radio responds:

- The red LED blinks.
- The display shows the **Emergency Call** icon, the Emergency Talkgroup ID or alias, and the ID or alias of the transmitting radio.



Note:

If the Emergency Call Indication is not enabled, the display shows the **Group Call** icon, Emergency Talkgroup ID or alias, and the ID or alias of the transmitting radio.

Text Messaging

Your radio is able to receive data, for example a text message, from another radio or a text message application.

There are 2 types of text messages, DMR Short Text Message and text message.

The maximum length of characters when you send and receive a text message is 280 characters which includes the subject line. You see the subject line

when you receive messages from e-mail applications. The maximum length of 280 characters is applicable only for models with the latest software and hardware. Check with your dealer or system administrator for more information.

For DMR Short Text Message, the maximum length is 23 characters.

The radio exits the current screen once the inactivity timer expires.



Note:

Long press  at any time to return to the Home screen.

Sending Quick Text Messages

Follow the procedure to send predefined Quick Text messages on your radio to a predefined alias.

- 1 Do one of the following:
 - Press the programmed **Text Message** button. Proceed to Step 3.
 - Press  to access the menu.
- 2 Press  or  to **Messages**. Press  to select.

- 3 Press  or  to **Quick Text**. Press  to select.
- 4 Press  or  to the required Quick Text message. Press  to select.
If required, use the keypad to edit the message.
- 5 Press  once the message is composed.
- 6 Do the following to select the recipient and send the message.
 - a) Press  or  to the required alias or ID.
Press  to select.
 - b) Press  or  to **Manual Dial**. Press  to select.
The first line of the display shows **Radio Number:** and the second line shows a blinking cursor.
 - c) Key in the subscriber alias or ID and press .
The display shows a transitional mini notice, confirming that your message is being sent.

7 Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Resending Text Messages

Follow the procedure to resend text messages on your radio.

When you are at the **Resend** option screen:

Press  to resend the same message to the same subscriber or group alias or ID.

If successful:

- A tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A tone sounds.
- The display shows a negative mini notice.
- The radio returns to the **Resend** option screen.

Forwarding Text Messages

Follow the procedure to forward text messages on your radio.

When you are at the **Resend** option screen:

- 1 Press  or  to **Forward**, and press  to send the same message to another subscriber or group alias or ID.
- 2 Do the following to select the message recipient.
 - a) Press  or  to the required alias or ID.
Press  to select.
 - b) Press  or  to **Manual Dial**. Press  to select.
The first line of the display shows **Radio Number:** and the second line shows a blinking cursor.
 - c) Key in the subscriber alias or ID and press .
The displays shows **Text Message:<Subscriber/Group Alias or ID>**, confirming that your message is being sent.
- 3 Wait for acknowledgment.

If successful:

- A tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A tone sounds.
- The display shows a negative mini notice.

Editing Text Messages

Select **Edit** to edit the message.



Note:

If a subject line is present (for messages received from an e-mail application), you cannot edit it.

- 1 Press or to **Edit**. Press to select. The display shows a blinking cursor.

- 2 Use the keypad to edit your message.
 - Press to move one space to the left.
 - Press or to move one space to the right.

- Press to delete any unwanted characters.
- Long press to change text entry method.

- 3 Press once message is composed.

- 4 Do one of the following:

- Press or to **Send** and press to send the message.
- Press or to **Save** and press to save the message to the Drafts folder.
- Press to edit the message.
- Press to choose between deleting the message or saving it to the Drafts folder.

Responding to Text Messages

Follow the procedure to respond to text messages on your radio.

When you receive a text message:

- The display shows the Notification list with the alias or ID of the sender.

- The display shows the **Message** icon.



Note:

The radio exits the Text Message alert screen and sets up a Private or Group Call to the sender of the message if the **PTT** button is pressed.

1 Do one of the following:

- Press or to **Read**. Press to select.

The display shows the text message. The display shows a subject line if the message is from an e-mail application.

- Press or to **Read Later**. Press to select.

The radio returns to the screen you were on prior to receiving the text message.

- Press or to **Delete**. Press to select.

2 Press to return to the Inbox.

Viewing Text Messages

Follow the procedure to view text messages on your radio.

1 Press to access the menu.

2 Press or to **Messages**. Press to select.

3 Press or to **Inbox**. Press to select.
If the Inbox is empty:

- The display shows **List Empty**.
 - A tone sounds, if the Keypad Tone is turned on.
-

4 Press or to the required message. Press to select.
The display shows a subject line if the message is from an e-mail application.

Deleting Text Messages from the Inbox

Follow the procedure to delete text messages from the Inbox on your radio.

1 Do one of the following:

- Press the programmed **Text Message** button.
Proceed to Step 3.
- Press  to access the menu.

2 Press  or  to Messages. Press  to select.

3 Press  or  to Inbox. Press  to select.
If the Inbox is empty:

- The display shows List Empty.
- A tone sounds.

4 Press  or  to the required message. Press  to select.
The display shows a subject line if the message is from an e-mail application.

5 Press  to access the sub-menu.

6 Press  or  to Delete. Press  to select.

7 Press  or  to Yes. Press  to select.

The display shows a positive mini notice. The screen returns to the Inbox.

Deleting All Text Messages from the Inbox

Follow the procedure to delete all text messages from the Inbox on your radio.

1 Do one of the following:

- Press the programmed **Text Message** button.
Proceed to Step 3.
 - Press  to access the menu.
-

2 Press  or  to Messages. Press  to select.

3 Press  or  to Inbox. Press  to select.
If the Inbox is empty:

- The display shows List Empty.
- A tone sounds.

4 Press  or  to Delete All. Press  to select.

5 Press  or  to Yes. Press  to select.

The display shows a positive mini notice.

Privacy

This feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software-based scrambling solution. The signaling and user identification portions of a transmission are not scrambled.

Your radio must have privacy enabled on the channel to send a privacy-enabled transmission, although this is not a necessary requirement for receiving a transmission. While on a privacy-enabled channel, the radio is still able to receive clear or unscrambled transmissions.

Your radio only supports Enhanced Privacy. To unscramble a privacy-enabled call or data transmission, your radio must be programmed to have the same Key Value and Key ID for Enhanced Privacy as the transmitting radio.

If your radio receives a scrambled call that is of a different Key Value and Key ID, you will hear nothing at all for Enhanced Privacy.

If the radio has privacy assigned, the Home Screen shows the Secure or Unsecure icon, except when the

radio is sending or receiving an Emergency call or alarm.

The green LED lights up when the radio is transmitting, and blinks rapidly when the radio is receiving an ongoing privacy-enabled transmission.



Note:

Some radio models may not offer this Privacy feature, or may have a different configuration. Check with your dealer or system administrator for more information.

Multi-Site Controls

Starting Manual Site Search

Follow the procedure to start manual site search when the received signal strength is poor in order to attempt to find a site with better signal.

- 1 Do one of the following:
 - Press the programmed **Manual Site Roam** button. Skip the following steps.
 - Press  to access the menu.
-
- 2 Press  or  to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Site Roaming. Press  to select.

- 5 Press ▲ or ▼ to Active Search. Press  to select.
A tone sounds. The green LED blinks. The display shows Finding Site.

If the radio finds a new site:

- A positive indicator tone sounds.
- The LED turns off.
- The display shows Site <Alias> Found.

If the radio fails to find a new site:

- A negative indicator tone sounds.
- The LED turns off.
- The display shows Out of Range.

If a new site is within range, but the radio is unable to connect to it:

- A negative indicator tone sounds.

- The LED turns off.
- The display shows Channel Busy.

Site Lock On/Off

When toggled on, the radio searches the current site only. When toggled off, the radio searches other sites in addition to the current site.

Press the programmed **Site Lock** button.

If the **Site Lock** function is toggled on:

- You hear a positive indicator tone, indicating the radio has locked to the current site.
- The display shows Site Locked.

If the **Site Lock** function is toggled off:

- You hear a negative indicator tone, indicating the radio is unlocked.
- The display shows Site Unlocked.

Accessing Neighbor Sites List

This feature allows the user to check the adjacent sites list of the current home site. Follow the procedure to access the Neighbor Sites List:

- 1 Press  to access the menu.
-

- 2 Press ▲ or ▼ to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Radio Info. Press  to select.

- 4 Press ▲ or ▼ to Neighbor Sites. Press  to select.

Stun

Your radio can be disabled (stunned) or enabled (revived) in the system from the console. For example, you may want to disable a stolen radio to prevent unauthorized users from using it, and enable the radio when it is recovered.

When a radio is stunned, the radio cannot request nor receive any user initiated services on the system that performed the Stun procedure. However, the radio can switch to another system. The radio continues to send GPS location reports and can be remote monitored when it was stunned.



Note:

Check with your dealer or system administrator for more information.

Lone Worker

This feature prompts an emergency to be raised if there is no user activity, such as any radio button press or activation of the channel selector, for a predefined time.

Following no user activity for a programmed duration, the radio pre-warns the user via an audio indicator once the inactivity timer expires.

If there is still no acknowledgment by the user before the predefined reminder timer expires, the radio initiates an emergency condition as programmed by the dealer or system administrator.

See [Emergency Operation](#) on page 75 for more information.



Note:

Check with your dealer or system administrator for more information.

Password Lock Features

This feature allows you to restrict access to the radio by asking for a password when the device is turned on

Accessing Radios by Using Passwords

Follow the procedure to access your radio by using a password.

- 1 Enter the current four-digit password.
 - Press ▲ or ▼ to edit the numeric value of each digit, and press  to enter and move to the next digit.
-
- 2 Press  to enter the password. If successful, the radio powers up.

If unsuccessful:

 - After the first and second attempt, the display shows **Wrong Password**. Repeat Step 1.
 - After the third attempt, the display shows **Wrong Password** and then, **Radio Locked**. A tone sounds. The yellow LED double blinks. Your radio enters into locked state for 15 minutes.



Note:

In locked state, your radio responds to inputs from **On/Off/Volume Control Knob** and programmed **Backlight** button only.

Unlocking Radios in Locked State

Your radio is unable to receive any call, including emergency calls, in locked state. Follow the procedure to unlock your radio in locked state.

- 1 Power up the radio.

Your radio restarts the 15-minutes timer for locked state.
-
- 2 Wait for 15 minutes.

Your radio responds only to **On/Off** button in locked state.
-
- 3 Repeat the steps in [Accessing Radios by Using Passwords](#) on page 90 to access the radio.

Changing Passwords

Follow the procedure to change passwords on your radio.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Passwd Lock. Press  to select.

- 5 Enter the current four-digit password, and press  to proceed.
If the password is incorrect, the display shows Wrong Password and automatically returns to the previous menu.

- 6 Press ▲ or ▼ to Change PWD. Press  to select.

- 7 Enter a new four-digit password, and press  to proceed.

- 8 Re-enter the new four-digit password, and press  to proceed.

If successful, the display shows Password Changed.

If unsuccessful, the display shows Passwords Do Not Match.

The screen automatically returns to the previous menu.

Bluetooth

This feature allows you to use your radio with a Bluetooth-enabled device (accessory) via a Bluetooth connection. Your radio supports both Motorola and COTS (Commercially available Off-The-Shelf) Bluetooth-enabled devices.

Bluetooth operates within a range of 10 meters (32 feet) line of sight. This is an unobstructed path between your radio and your Bluetooth-enabled device. It is not recommended that you leave your radio behind and expect your Bluetooth-enabled device to work with a high degree of reliability when they are separated.

At the fringe areas of reception, both voice and tone quality will start to sound "garbled" or "broken". To correct this problem, simply position your radio and Bluetooth-enabled device closer to each other (within the 10-meter defined range) to re-establish clear audio reception. The Bluetooth function of your radio has a maximum power of 2.5 mW (4 dBm) at the 10-meter range.

Your radio can support up to three simultaneous Bluetooth connections with Bluetooth-enabled devices of unique types. For example, a headset, a scanner, and a PTT-Only Device (POD). Multiple connections with Bluetooth-enabled devices of the same type are not supported.

Refer to the user manual of your respective Bluetooth-enabled device for more details on the full capabilities of your Bluetooth-enabled device.

Your radio connects to the Bluetooth-enabled device within range with either the strongest signal strength, or to one which it has connected to before in a prior session. Do not turn off your Bluetooth-enabled

device or press the home back button  during the finding and connecting operation as this cancels the operation.

Turning Bluetooth On and Off

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to My Status. Press  to select.
The display shows On and Off. The current status is indicated by a .

- 4 Do one of the following:
 - Press  or  to On. Press  to select. The display shows  beside On.
 - Press  or  to Off. Press  to select. The display shows  beside Off.

Connecting to Bluetooth Devices

Turn on your Bluetooth-enabled device and place it in pairing mode.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Devices. Press  to select.

- 4 Do one of the following:
 - Press  or  to the required device. Press  to select.
 - Press  or  to Find Devices to locate available devices. Press  or  to the required device. Press  to select.

- 5 Press  or  to Connect. Press  to select.
 Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to the user manual of your Bluetooth-enabled device.
 The display shows Connecting to <Device>.

Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows <Device> Connected and the **Bluetooth Connected** icon.
- The display shows  beside the connected device.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows Connecting Failed.

Connecting to Bluetooth Devices in Discoverable Mode

Turn on your Bluetooth-enabled device and place it in pairing mode.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Find Me. Press  to select.
 The radio can now be found by other Bluetooth-enabled devices for a programmed duration. This is called Discoverable Mode.

Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows <Device> Connected and the **Bluetooth Connected** icon.
- The display shows ✓ beside the connected device.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows Connecting Failed.

Disconnecting from Bluetooth Devices

- 1 Press  to access the menu.
- 2 Press  or  to Bluetooth. Press  to select.
- 3 Press  or  to Devices. Press  to select.
- 4 Press  or  to the required device. Press  to select.

- 5 Press  or  to Disconnect. Press  to select.
The display shows Disconnecting from <Device>.

Wait for acknowledgment.

- A tone sounds.
- The display shows <Device> Disconnected and the **Bluetooth Connected** icon disappears.
- The ✓ disappears beside the connected device.

Switching Audio Route between Internal Radio Speaker and Bluetooth Device

Follow the procedure to toggle audio routing between internal radio speaker and external Bluetooth device.

Press the programmed **Bluetooth Audio Switch** button.

The display shows one of the following results:

- A tone sounds. The display shows Route Audio to Radio.
- A tone sounds. The display shows Route Audio to Bluetooth.

Viewing Device Details

Follow the procedure to view the device details on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Devices. Press  to select.

- 4 Press  or  to the required device. Press  to select.

- 5 Press  or  to View Details. Press  to select.

Editing Device Name

Follow the procedure to edit the name of available Bluetooth-enabled devices.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Devices. Press  to select.

- 4 Press  or  to the required device. Press  to select.

- 5 Press  or  to Edit Name. Press  to select.

- 6 Enter a new device name. Press  to select.
The display shows Device Name Saved.

Deleting Device Name

You can remove a disconnected device from the list of Bluetooth-enabled devices.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

3 Press ▲ or ▼ to **Devices**. Press  to select.

4 Press ▲ or ▼ to the required device. Press  to select.

5 Press ▲ or ▼ to **Delete**. Press  to select.
The display shows **Device Deleted**.

Adjusting Bluetooth Mic Gain Values

Allows control of microphone gain value in connected Bluetooth-enabled devices.

1 Press  to access the menu.

2 Press ▲ or ▼ to **Bluetooth**. Press  to select.

3 Press ▲ or ▼ to **BT Mic Gain**. Press  to select.

4 Press ▲ or ▼ to the BT Mic Gain type and the current values. To edit values, press  to select.

5 Press ▲ or ▼ to increase or to decrease values.
Press  to select.

Permanent Bluetooth Discoverable Mode



Note:

The Permanent Bluetooth Discoverable Mode must be enabled by the dealer or system administrator. If enabled, Bluetooth is **not** displayed in the Menu and you cannot use any Bluetooth programmable button features.

Other Bluetooth-enabled devices can locate your radio, but the devices cannot connect to the radio. The Permanent Bluetooth Discoverable Mode enables dedicated devices to use your radio position in the process of Bluetooth-based location.

Indoor Location



Note:

Indoor Location feature is applicable for models with the latest software and hardware. Check with your dealer or system administrator for more information.

Indoor Location can be used to keep track of radio users location while indoors. When Indoor Location is

activated, the radio is in a limited discoverable mode. Dedicated beacons are used to locate the radio and determine its position.

Turning Indoor Location On or Off

You can turn on or turn off Indoor Location by performing one of the following actions.

- Access this feature via the menu.
 - a) Press  to access the menu.
 - a) Press  or  to Bluetooth and press  to select.
 - a) Press  or  to Indoor Location and press  to select.
 - b) Press  to turn on Indoor Location.
The display shows Indoor Location On. You hear a good key tone.
One of the following scenarios occurs.
 - If successful, the Indoor Location Available icon appears on the Home screen display.
 - If unsuccessful, the display shows Turning On Failed. You hear a bad key tone.

- c) Press  to turn off Indoor Location.
The display shows Indoor Location Off.
You hear a good key tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon disappears on the Home screen display.
- If unsuccessful, the display shows Turning Off Failed. You hear a bad key tone.

-
- Access this feature via the programmed button.
 - a) Long press the programmed **Indoor Location** button to turn on Indoor Location.
The display shows Indoor Location On. You hear a positive tone.
One of the following scenarios occurs.
 - If successful, the Indoor Location Available icon appears on the Home screen display.
 - If unsuccessful, the display shows Turning On Failed. If unsuccessful, you hear a negative tone.
 - b) Press the programmed **Indoor Location** button to turn off Indoor Location.

The display shows `Indoor Location Off`.
You hear a positive tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon disappears on the Home screen display.
- If unsuccessful, the display shows `Turning Off Failed`. If unsuccessful, you hear a negative tone.

Accessing Indoor Location Beacons Information

Displays information on Indoor Location Beacons.

- 1 Press  to access the menu.
 - 2 Press  or  to Bluetooth and press  to select.
 - 3 Press  or  to Indoor Location and press  to select.
 - 4 Press  or  to Beacons and press  to select.
-

The display shows the beacons information.

Notification List

Your radio has a Notification list that collects all your unread events on the channel, such as unread text messages, telegrams, missed calls and call alerts.

The display shows the **Notification** icon when the Notification list has one or more events.

The list supports a maximum of 40 unread events. When the list is full, the next event automatically replaces the oldest event. After the events are read, they are removed from the Notification list.

For text messaging and missed call/call alert notification events, the maximum number are 30 text messages and 10 missed calls/call alerts. This maximum number depends on individual feature (job tickets or text messages or missed calls/ call alerts) list capability.

Accessing Notification List

Follow the procedure to access the Notification list on your radio.

- 1 Press  to access the menu.
-

2 Press ▲ or ▼ to Notification. Press  to select.

3 Press ▲ or ▼ to the required event. Press  to select.

4 Long press  to return to the Home screen.

Over-the-Air Programming

Your dealer can remotely update your radio via Over-the-Air Programming (OTAP) without physical connection. Additionally, some settings can also be configured via OTAP.

When your radio undergoes OTAP, the green LED blinks.

When your radio receives high volume data:

- The display shows the **High Volume Data** icon.
- The channel becomes busy.
- A negative tone sounds if you press the **PTT** button.

When OTAP completes, depending on the configuration:

- A tone sounds. The display shows Updating Restarting. Your radio restarts by powering off and on again.
- You can select Restart Now or Postpone. When you select Postpone, your radio returns to the previous screen. The display shows the **OTAP Delay Timer** icon until the automatic restart occurs.

When your radio powers up after automatic restart:

- If successful, the display shows Sw Update Completed.
- If unsuccessful, the display shows Sw Update Failed.

See [Checking Software Update Information](#) on page 112 for the updated software version.

Wi-Fi Operation

Wi-Fi® is a registered trademark of Wi-Fi Alliance®.



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

This feature allows you to setup and connect to a Wi-Fi® network. Wi-Fi supports updates for radio

firmware, codeplug, and resources such as language packs and voice announcement.

Turning Wi-Fi On or Off



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

The programmed **Wi-Fi On or Off** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can turn on or turn off Wi-Fi® by performing one of the following actions.

- Press the programmed **Wi-Fi On or Off** button. Voice Announcement sounds Turning On Wi-Fi or Turning Off Wi-Fi.
-
- Access this feature via the menu.
 - a) Press to access the menu.
 - b) Press or to Wi-Fi and press to select.

- c) Press or to Wi-Fi Status and press to select.

Press to turn on Wi-Fi. The display shows beside Enabled.

Press to turn off Wi-Fi. The disappears from beside Enabled.

If Wi-Fi is enabled and a low capacity battery is used, an alert screen is displayed upon power up with the following notice.

- Low Capacity Battery!
- Tx power restricted to 2W and Wi-Fi disabled.
- Use a compatible battery to lift restriction.
- Press to continue.

Lift the restriction to enable 3W operation and Wi-Fi by performing the following action. Power off the radio and change to a compatible battery such as Lithium-Ion 1800 mAh Battery Pack (HKNN4013_), Lithium-Ion 2200 mAh Battery Pack (PMNN4459_) or Lithium-Ion 2300mAh Battery Pack (PMNN4468_).

If Wi-Fi is disabled and a low capacity battery is used, the transmit power is restricted to 2W.

Connecting to a Network Access Point



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

When you turn on Wi-Fi®, the radio scans and connects to a network access point.

You can also connect to a network access point via the menu.

- 1 Press to access the menu.

- 2 Press or to **WiFi** and press to select.

- 3 Press or to **Networks** and press to select.

- 4 Press or to a network access point and press to select.

- 5 Press or to **Connect** and press to select.

- 6 Enter the password and press . When the connection is successful, the radio displays a notice and the network access point is saved into the profile list.

Refreshing the Network List



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

- Perform the following actions to refresh the network list.
 - a) Press to access the menu.
 - b) Press or to **WiFi** and press to select.
 - c) Press or to **Networks** and press to select.
When you enter the Networks menu, the radio automatically refreshes the network list.
-

- If you are already in the Networks menu, perform the following action to refresh the network list.
 - Press ▲ or ▼ to Refresh and press Ⓜ to select.

The radio refreshes and displays the latest network list.

Adding a Network



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

If a preferred network is not in the available network list, perform the following actions to add a network.

- Press Ⓜ to access the menu.
- Press ▲ or ▼ to WiFi and press Ⓜ to select.
- Press ▲ or ▼ to Networks and press Ⓜ to select.

- Press ▲ or ▼ to Add Network and press Ⓜ to select.

- Enter the Service Set Identifier (SSID) and press Ⓜ.

- Press ▲ or ▼ to Open and press Ⓜ to select.

- Enter the password and press Ⓜ.
The radio displays ✓ to indicate that the network is successfully saved.

Viewing Details of Network Access Points



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

Perform the following actions to view details of network access points.

- Press Ⓜ to access the menu.
- Press ▲ or ▼ to WiFi and press Ⓜ to select.

- 3 Press ▲ or ▼ to **Networks** and press  to select.

- 4 Press ▲ or ▼ to a network access point and press  to select.

- 5 Press ▲ or ▼ to **View Details** and press  to select.

For a connected network access point, the Service Set Identifier (SSID), Security Mode, Media Access Control (MAC) address, and Internet Protocol (IP) address are displayed.

For a non-connected network access point, the Service Set Identifier (SSID) and Security Mode are displayed.

Removing Network Access Points



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only. Enterprise network access points that are added via CPS can only be removed via CPS.

Perform the following actions to remove network access points from the profile list.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to **WiFi** and press  to select.

- 3 Press ▲ or ▼ to **Networks** and press  to select.

- 4 Press ▲ or ▼ to the selected network access point and press  to select.

- 5 Press ▲ or ▼ to **Remove** and press  to select.

- 6 Press ▲ or ▼ to **Yes** and press  to select.
The radio displays  to indicate that the selected network access point is successfully removed.

Utilities

This chapter explains the operations of the utility functions available in your radio.

Turning Radio Tones/Alerts On or Off

You can enable and disable all radio tones and alerts, if needed, except for incoming Emergency alert tone. Follow the procedure to turn tones and alerts on or off on your radio.

- 1 Do one of the following:
 - Press the programmed **Tones/Alerts** button. Skip the steps below.
 - Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Tones/Alerts. Press  to select.

- 5 Press  or  to All Tones. Press  to select.

- 6 Press  to enable or disable all tones and alerts. If enabled,  appears besides Enabled.
If disabled,  disappears beside Enabled.

Turning LED Indicators On or Off

Follow the procedure to turn the LED indicators on or off on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to LED Indicator. Press  to select.

- 5 Press  to enable or disable the LED indicator. The display shows one of the following results:
 - If enabled,  appears besides Enabled.
 - If disabled,  disappears beside Enabled.

Identifying Cable Type

Do the following steps to select the type of cable your radio uses.

- 1 Press  to access the menu.
- 2 Press  or  to Utilities. Press  to select.
- 3 Press  or  to Radio Settings. Press  to select.
- 4 Press  or  to Cable Type. Press  to select.
- 5 Press  or  to change the selected option. The current cable type is indicated by a .

Turning Voice Announcement On or Off

This feature enables the radio to audibly indicate the current zone or channel the user has just assigned, or the programmable button the user has just pressed. This is typically useful when the user has difficulty reading the content shown on the display. This audio indicator can be customized according to customer requirements. Follow the procedure to turn Voice Announcement on or off on your radio.

- 1 Do one of the following:
 - Press the programmed **Voice Announcement** button. Skip the following steps.
 - Press  to access the menu.
- 2 Press  or  to Utilities. Press  to select.
- 3 Press  or  to Radio Settings. Press  to select.
- 4 Press  or  to Voice Announcement. Press  to select.

- 5 Press  to enable or disable Voice Announcement.
 - If enabled, ✓ appears besides Enabled.
 - If disabled, ✓ disappears beside Enabled.

Text-to-Speech

The Text-to-Speech feature can only be enabled by your dealer or system administrator. If Text-to-Speech is enabled, the Voice Announcement feature is automatically disabled. If Voice Announcement is enabled, then the Text-to-Speech feature is automatically disabled.

This audio indicator can be customized per customer requirements. This feature is typically useful when the user is in a difficult condition to read the content shown on the display.

Setting Text-to-Speech

Follow the procedure to set the Text-to-Speech feature.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Voice Announcement. Press  to select.

- 5 Press  or  to any of the following features. Press  to select.

The available features are as follows:

- All
- Messages
- Job Tickets
- Channel
- Zone
- Program Button

✓ appears beside the selected setting.

Enabling or Disabling Word Predict

Word Predict: Your radio can learn common word sequences that you often enter. It then predicts the next word you may want to use after you enter the first word of a common word sequence into the text editor.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Text Entry. Press  to select.

- 5 Press  or  to Word Predict. Press  to select.

- 6 Do one of the following:

- Press  or  to Text Entry. Press  to select.
- Press to enable the Word Predict. If enabled,  appears besides Enabled.
- Press to disable the Word Predict. If disabled,  disappears beside Enabled.

Turning Digital Microphone AGC On or Off

The Digital Microphone Automatic Gain Control (AGC) controls the microphone gain of the radio automatically while transmitting on a digital system. This feature suppresses loud audio or boosts soft audio to a preset value in order to provide a consistent level of audio. Follow the procedure to turn Digital Microphone AGC on or off on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Mic AGC-D. Press  to select.

- 5 Press  to enable or disable Digital Microphone AGC.
The display shows one of the following results:
 - If enabled, ✓ appears besides Enabled.
 - If disabled, ✓ disappears beside Enabled.

Turning Intelligent Audio On or Off

Your radio automatically adjusts the audio volume to overcome current background noise in the environment, inclusive of both stationary and non-stationary noise sources. This is a receive-only feature and does not affect transmission audio. Follow the procedure to turn Intelligent Audio on or off on your radio.



Note:

This feature is not applicable during a Bluetooth session.

- 1 Do one of the following:
 - Press the programmed **Intelligent Audio** button. Skip the steps below.

- Press  to access the menu.

- 2 Press ▲ or ▼ to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Intelligent Audio. Press  to select.

- 4 Do one of the following:

- Press ▲ or ▼ to On. Press  to select. The display shows ✓ beside On.
- Press ▲ or ▼ to Off. Press  to select. The display shows ✓ beside Off.

Turning Trill Enhancement On or Off

You can enable this feature when you are speaking in a language that contains many words with alveolar trill (rolling “R”) pronunciations. Follow the procedure to turn Trill Enhancement on or off on your radio.

- 1 Do one of the following:

- Press the programmed **Trill Enhancement** button. Skip the steps below.

- Press  to access the menu.

2 Press  or  to Utilities. Press  to select.

3 Press  or  to Radio Settings. Press  to select.

4 Press  or  to Trill Enhance. Press  to select.

5 Do one of the following:

- Press  or  to On. Press  to select. The display shows  beside On.
- Press  or  to Off. Press  to select. The display shows  beside Off.

Setting Audio Ambience

Follow the procedure to set the audio ambience on your radio according to your environment.

1 Press  to access the menu.

2 Press  or  to Utilities. Press  to select.

3 Press  or  to Radio Settings. Press  to select.

4 Press  or  to Audio Ambience. Press  to select.

5 Press  or  to the required setting. Press  to select.

The settings are as follows.

- Choose **Default** for the default factory settings.
- Choose **Loud** to increase speaker loudness when using in noisy surroundings.
- Choose **Work Group** to reduce acoustic feedback when using with a group of radios that are near to each other.

The display shows  beside the selected setting.

Setting Audio Profiles

Follow the procedure to set audio profiles on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Audio Profiles. Press  to select.

- 5 Press  or  to the required setting. Press  to select.

The settings are as follows.

- Choose `Default` to disable the previously selected audio profile and return to the default factory settings.
- Choose `Level 1`, `Level 2`, or `Level 3` for audio profiles intended to compensate for

noise-induced hearing loss that is typical for adults over 40 years of age.

- Choose `Treble Boost`, `Mid Boost`, or `Bass Boost` for audio profiles that align with your preference for tinnier, more nasal, or deeper sounds.
- `Default`
- `Level 1`, `Level 2`, or `Level 3`
- `Treble Boost`, `Mid Boost`, or `Bass Boost`

The display shows  beside the selected setting.

Received Signal Strength Indicator

This feature allows you to view the Received Signal Strength Indicator (RSSI) values.

The display shows the RSSI icon at the top right corner. See [Display Icons](#) on page 233 for more information on the RSSI icon.

Viewing RSSI Values

Follow the procedure to view RSSI values on your radio.

When you are at the Home screen:

- 1 Press  three times and immediately press , all in five seconds.

The display shows the current Received Signal Strength Indicator (RSSI) values.

- 2 Long press  to return to the Home screen.

General Radio Information

Your radio contains information on various general parameters.

The general information of your radio are as follows.

- Battery information.
- Radio alias and ID.
- Firmware and Codeplug versions.
- Software update.
- Open-Source Software information
- Site information.
- Received Signal Strength Indicator



Note:

You return to the previous screen when you press , and to the Home screen when you long press , at any time. The radio

exits the current screen once the inactivity timer expires.

Checking Radio Alias and ID

Follow the procedure to check the radio alias and ID on your radio.

- 1 Do one of the following:

- Press the programmed **Radio Alias and ID** button. Skip the steps below.

A positive indicator tone sounds.

- Press  to access the menu.

You can press the programmed **Radio Alias and ID** button to return to the previous screen.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Info. Press  to select.

- 4 Press  or  to My ID. Press  to select.

The first text line shows the radio alias. The second text line shows the radio ID.

Checking Firmware and Codeplug Versions

Follow the procedure to check the firmware and codeplug versions on your radio.

- 1 Press  to access the menu.
- 2 Press  or  to Utilities. Press  to select.
- 3 Press  or  to Radio Info. Press  to select.
- 4 Press  or  to Versions. Press  to select. The display shows the current firmware and codeplug versions.

Checking Software Update Information

This feature shows the date and time of the latest software update carried out via OTAP or Wi-Fi. Follow the procedure to check the software update information on your radio.

- 1 Press  to access the menu.
- 2 Press  or  to Utilities. Press  to select.
- 3 Press  or  to Radio Info. Press  to select.
- 4 Press  or  to SW Update. Press  to select. The display shows the date and time of the latest software update.

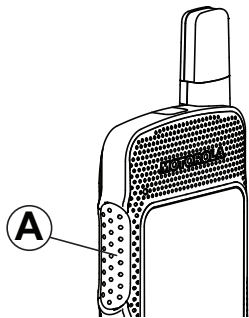
Software Update menu is only available after at least one successful OTAP or Wi-Fi session. See [Over-the-Air Programming](#) on page 99 for more information.

Connect Plus Operations

Additional Radio Controls in Connect Plus Mode

Push-To-Talk (PTT) Button

The **PTT** button on the side of the radio (A) serves two basic purposes:



- While a call is in progress, the **PTT** button allows the radio to transmit to other radios in the call.
Press and hold the **PTT** button to talk. Release the **PTT** button to listen.

The microphone is activated when the **PTT** button is pressed.

- While a call is not in progress, the **PTT** button is used to make a new call (see [Making a Radio Call](#) on page 130).

If the Talk Permit Tone (see [Turning the Talk Permit Tone On or Off](#) on page 201) is enabled, wait until the short alert tone ends before talking.

Programmable Buttons

Your dealer can program the programmable buttons as shortcuts to radio functions depending on the duration of a button press:

Short press Pressing and releasing rapidly.

Long press Pressing and holding for the programmed duration.



Note:

The programmed duration of a button press is applicable for all assignable radio/utility functions or settings. See [Emergency Operation](#) on page 159 for more information on the programmed duration of the **Emergency** button.

Assignable Radio Functions

Actions	A programmable button to access a CPS programmable action list.
Bluetooth® Audio Switch	Toggles audio routing between internal radio speaker and external Bluetooth-enabled accessory.
Busy Queue Cancellation	Exits the busy mode when a non-Emergency call in the Busy Queue was initiated. Emergency calls, once accepted into the Busy Queue, cannot be cancelled.
Call Log	Selects the call log list.
Contacts	Provides direct access to the Contacts list.
Channel Announcement	Plays zone and channel announcement voice messages for the current channel.

Emergency On/Off	Depending on the programming, initiates or cancels an emergency.
Ring Alert Type	Provides direct access to the Ring Alert Type Setting.
Reset Home Channel	Sets a new home channel.
Silence Home Channel Reminder	Mutes the Home Channel Reminder.
Indoor Location	Toggles Indoor Location on or off.
Intelligent Audio	Toggles intelligent audio on or off.
Manual Dial	Depending on the programming, initiates a Private or Phone Call by keying in any subscriber ID or phone number.
One Touch Access	Directly initiates a predefined Private Call, a Call Alert or a Quick Text message.
Privacy	Toggles privacy on or off.

Radio Check	Determines if a radio is active in a system.
Radio Enable	Allows a target radio to be remotely enabled.
Radio Disable	Allows a target radio to be remotely disabled.
Remote Monitor	Turns on the microphone of a target radio without it giving any indicators.
Roam Request	Requests to search for a different site.
Scan	Toggles scan on or off.
Site Lock On/Off	When toggled on, the radio searches the current site only. When toggled off, the radio searches other sites in addition to the current site.
Text Message	Selects the text message menu.
Vibrate Style	Configures the vibrate style.

Voice Announcement On/Off	Toggles voice announcement on or off.
Wi-Fi	Toggles Wi-Fi on or off.
Zone	Allows selection from a list of zones.

Assignable Settings or Utility Functions

AF Suppressor	Toggles the Acoustic Feedback Suppressor feature on or off.
All Tones/Alerts	Toggles all tones and alerts on or off.
Backlight	Toggles display backlight on or off.
Brightness	Allows brightness to be set via the manual brightness mode or auto brightness control via the radio's photo sensor.
Display Mode	Toggles the day/night display mode on or off.
Keypad Lock	Toggles keypad between locked and unlocked.

Unassigned Indicates that the button function has not yet been assigned.

Wallpaper Displayed on home screen.

Identifying Status Indicators in Connect Plus Mode

Display Icons

Your radio has a 2 inch landscape display with QVGA (Quarter Video Graphics Array) 16-bit color resolution.

The following are icons that appear on the display of the radio. Icons are displayed arranged left-most in order of appearance/usage.



Received Signal Strength Indicator (RSSI)

The number of bars displayed represents the radio signal strength. Four bars indicate the strongest signal. This icon is only displayed while receiving.



Bluetooth Not Connected



Bluetooth Connected

The Bluetooth feature is enabled. The icon stays lit when a remote Bluetooth device is connected.



High Volume Data

Radio is receiving high volume data and channel is busy.



Indoor Location Available^[4]

Indoor location status is on and available.



Indoor Location Unavailable^[4]

Indoor location status is on but unavailable due to Bluetooth disabled or Beacons Scan suspended by Bluetooth.



Notification List has items to review.

	Option Board The Option Board is enabled. (Option board enabled models only)
	Option Board Non-Function The Option Board is disabled.
	Scan Scan feature is enabled.
	Emergency Radio is in Emergency mode.
	Secure The Privacy feature is enabled.
	Unsecure The Privacy feature is disabled.
	Site Roaming The site roaming feature is enabled.

	Battery The number of bars (0 – 4) shown indicates the charge remaining in the battery. Blinks when the battery is low.
	Battery Charging Status Shows battery charging status.
	All Tones Disabled No ring tones available.
	Call Log Radio call log.
	Contact Radio contact is available.
	Message Incoming message.
	Silent Ring Silent ring mode is enabled.

	Ring Only Ringing mode is enabled.
	Vibrate Vibrate mode is enabled.
	Vibrate and Ring Vibrate and Ring mode is enabled.
	Wi-Fi Excellent^[3] Wi-Fi signal is excellent.
	Wi-Fi Good^[3] Wi-Fi signal is good.
	Wi-Fi Average^[3] Wi-Fi signal is average.
	Wi-Fi Poor^[3] Wi-Fi signal is poor.

	Wi-Fi Unavailable^[3] Wi-Fi signal is unavailable.
	Wi-Fi Excellent Highlighted^[3] Wi-Fi signal is excellent. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.
	Wi-Fi Good Highlighted^[3] Wi-Fi signal is good. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.
	Wi-Fi Average Highlighted^[3] Wi-Fi signal is average. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.
	Wi-Fi Poor Highlighted^[3] Wi-Fi signal is poor. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.



Wi-Fi Unavailable Highlighted³

Wi-Fi signal is unavailable. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.

Call Icons

The following icons appear on the radio's display during a call. These icons also appear in the Contacts list to indicate ID type.



Private Call

Indicates a Private Call in progress.



Group Call/Site All Call

Indicates a Group Call or Site All Call in progress.



Phone Call as Private Call

Indicates a Phone Call as Private Call in progress.



Bluetooth PC Call

Indicates a Bluetooth PC Call in progress.

In the Contacts list, it indicates a Bluetooth PC Call alias (name) or ID (number).



Dispatch Call

The Dispatch Call contact type is used to send a text message to a dispatcher PC through a third-party Text Message Server.



Option Board Individual Call

Indicates an Option Board individual call in progress.

³ Only applicable for SL7550e/SL7590e/SL7580e

⁴ Only applicable for models with the latest software and hardware.



Option Board Group Call

Indicates an Option Board group call in progress.

Sent Item Icons

The following icons appear at the top right corner of the radio's display in the Sent Items folder.



In Progress

or



The text message to a subscriber alias or ID is pending transmission, followed by waiting for acknowledgement.

The text message to a group alias or ID is pending transmission.



Sent Successfully

OR



The text message is sent successfully.



OR



Individual or Group Message Read

The text message has been read.



OR



Individual or Group Message Unread

The text message has not been read.



OR

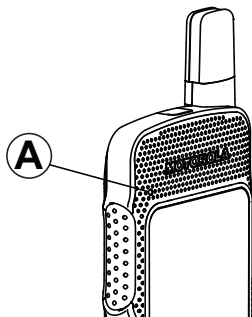


Send Failed

The text message has not been sent.

LED Indicator

The LED indicator (A) shows the operational status of your radio.



Blinking red	Radio is transmitting at low battery condition, receiving an emergency transmission or has failed the self-test upon powering up.
Rapidly blinking red	Radio is receiving over-the-air file transfer (Option Board firmware file, Network Frequency file or Option Board Codeplug file) or upgrading to a new Option Board firmware file.
Blinking green and yellow	Radio is receiving a Call Alert, received a text message or Scan is enabled and is receiving activity.

Solid yellow	Radio is in Bluetooth Discoverable Mode. Also indicates fair battery charge when programmable button is pressed.
Double blinking yellow	Radio is actively searching for a new site.
Blinking yellow	Radio is receiving a Call Alert or Scan is enabled and is idle (radio will remain muted to any activity).
Solid green	Radio is powering up or transmitting. Also indicates full charge of the battery when the programmable button is pressed.
Blinking green	Radio is powering up, receiving a non-privacy-enabled call or data.
Rapidly blinking green	Radio is receiving a privacy-enabled call.

Indicator Tones

High pitched tone



Low pitched tone



	Positive Indicator Tone
	Negative Indicator Tone

Alert Tones

Alert tones provide you with audible indications of the status, or response to data received on the radio.

Continuous Tone 	A monotone sound. Sounds continuously until termination.
Periodic Tone 	Sounds periodically depending on the duration set by the radio. Tone starts, stops, and repeats itself.
Repetitive Tone 	A single tone that repeats itself until it is terminated by the user.
Momentary Tone 	Sounds only once for a short period of time defined by the radio.

Switching Between Connect Plus and Non-Connect Plus Modes

To switch to a non-Connect Plus mode, you must change to another zone, if programmed by your dealer or system administrator. Check with your dealer or system administrator to see if your radio has been programmed with non-Connect Plus zones, and what features are available while operating in non-Connect Plus zones.

Making and Receiving Calls in Connect Plus Mode

Selecting a Site

A site provides coverage for a specific area. A Connect Plus site has a site controller and a maximum of 15 repeaters. In a multi-site network, the Connect Plus radio will automatically search for a new site when the signal level from the current site drops to an unacceptable level.

Roam Request

A Roam Request tells the radio to search for a different site, even if the signal from the current site is acceptable.

If there are no sites available,

- The radio display shows **Searching** and continues to search through the list of sites.
- The radio will return to the previous site, if the previous site is still available.



Note:

This is programmed by your dealer.

Press the programmed **Roam Request** button. You hear a tone, indicating the radio has switched to a new site. The display shows **Site ID <Site Number>**.

Site Lock On/Off

When toggled on, the radio searches the current site only. When toggled off, the radio searches other sites in addition to the current site.

Press the programmed **Site Lock** button.

If the **Site Lock** function is toggled on:

- You hear a positive indicator tone, indicating the radio has locked to the current site.
- The display shows **Site Locked**.

If the **Site Lock** function is toggled off:

- You hear a negative indicator tone, indicating the radio is unlocked.
- The display shows **Site Unlocked**.

Site Restriction

Your Connect Plus radio system administrator has the ability to decide which network sites your radio is and

is not allowed to use. Your radio does not need to be reprogrammed to change the list of allowed and disallowed sites. If your radio attempts to register at a disallowed site, you see a brief message stating: Site <number given> Not Allowed. The radio then searches for a different network site.

Selecting a Zone

The radio can be programmed with a maximum of 16 Connect Plus Zones and each Connect Plus zone contains a maximum of 16 assignable positions.

Each assignable position can be used to start one of the following voice call types:

- Group Call
- Multigroup Call
- Site All Call
- Private Call

- 1 Access the Zone feature by performing one of the following actions:

Radio Controls	Steps
Programmed Zone Selection button	Press the programmed Zone Selection button.

Radio Controls Steps

- | | | |
|------------|---|---|
| Radio menu | 1 |  to access the menu. |
| | 2 |  or  to Zone and press  to select. |

The current zone is displayed and indicated by a .

- 2 Select the required zone.

Radio Control Steps

- | | |
|--|---|
|  or  |  or  and scroll to the required zone. |
|--|---|

- 3 Press  to select.
The display shows <Zone> Selected momentarily and returns to the selected zone screen.

Using Multiple Networks

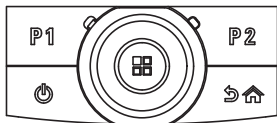
If your radio has been programmed to use multiple Connect Plus networks, you can select a different

network by switching to the Connect Plus zone that is assigned to the desired network. These network-to-zone assignments are configured by your dealer through radio programming.

Selecting a Call Type

Use the 4–Way Navigation Disc to select a call type. This can be a Group Call, Multi-group Call, Site All Call or Private Call, depending on how your radio is programmed. If you navigate with the 4–Way Navigation Disc to a different Call Type this causes the radio to re-register with the Connect Plus site. The radio registers with the Registration Group ID that has been programmed for the new call type.

If you select a position that has no call type assigned to it, your radio sounds a continuous tone and the display shows *Unprogrammed*. Your radio does not operate when selected to an unprogrammed channel, use the 4–Way Navigation Disc to select a programmed channel instead.



Once the required zone is displayed (if you have multiple zones in your radio), use the 4–Way Navigation Disc to select the call type.

Receiving and Responding to a Radio Call

Once the channel, subscriber ID or call type is displayed, you can proceed to receive and respond to calls.

The LED lights up solid green while the radio is transmitting and blinks green when the radio is receiving.



Note:

The LED lights up solid green while the radio is transmitting and blinks green rapidly when the radio is receiving a privacy-enabled call. To unscramble a privacy-enabled call, your radio must have the same Privacy Key, OR the same Key Value and Key ID (programmed by your dealer), as the transmitting radio (the radio you are receiving the call from).



Note:

See [Privacy](#) on page 180 for more information.

Receiving and Responding to a Group Call

To receive a call from a group of users, your radio must be configured as part of that group.

When you receive a Group Call (while on the Home screen), the LED blinks green. The first line of the display shows the RSSI icon. The second line displays the Group Call icon. The third line displays the Group Alias. The fourth line shows the Caller Alias. Your radio unmutes and the incoming call sounds through the radio's speaker.

- 1 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
The LED lights up solid green.

- 2 Wait for one of the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.

- 3 Release the **PTT** button to listen.
If there is no voice activity for a predetermined period of time, the call ends.



Note:

See [Making a Group Call](#) on page 130 for details on making a Group Call.

If the radio receives a Group Call while not on the Home screen, it remains on its current screen prior to answering the call.

Long press the  button to go to the Home screen to view the caller alias before replying.

Receiving and Responding to a Private Call

A Private Call is a call from an individual radio to another individual radio.

When you receive a Private Call, the LED blinks green. The first line of the display shows the RSSI icon. The second line displays the Private Call icon. The third line shows the Caller Alias. Your radio unmutes and the incoming call sounds through the speaker of the radio.

- 1 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 2 Press the **PTT** button to respond to the call.
The LED lights up solid green.

- 3 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.

4 Release the **PTT** button to listen.

If there is no voice activity for a predetermined period of time, the call ends.

The display shows `Call Ended`.

See [Making a Private Call](#) on page 131 for details on making a Private Call.

Receiving a Site All Call

A Site All Call is a call from an individual radio to every radio on the site. It is used to make important announcements requiring the user's full attention.

When you receive an Site All Call, a tone sounds and the LED blinks green.

The first line of the display shows the RSSI icon. The second line displays the Site All Call icon. The third line displays `Site All Call`. The fourth line displays the Caller Alias. Your radio unmutes and the incoming call sounds through the radio speaker.

Once the Site All Call ends, the radio returns to the previous screen before receiving the call. A Site All Call does not wait for a predetermined period of time before ending.

You cannot respond to an Site All Call.



Note:

See [Making a Site All Call](#) on page 132 for details on making a Site All Call.



Note:

The radio stops receiving the Site All Call if you switch to a different channel while receiving the call. During a Site All Call, you will **not** be able to use any programmed button functions until the call ends.

Receiving an Inbound Private Phone Call

When you receive an Inbound Private Phone Call, the Phone Call as Private Call icon appears in the top right corner. The first text line shows `Phone Call`.

1 Press and hold the **PTT** button to answer and talk. Release the **PTT** button to listen.

2 Long press  to end the call. The first line of the display shows `Ending`. The second line of the display shows `Phone Call....`. The display returns to the Phone Call screen.

The display shows `Phone Call Ended`.

Making a Buffered Over-Dial in an Inbound Phone Private Call

During the call, the Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows Phone Call.

- 1 Use the keypad to enter the digits and press the  button.

Press  followed by  within 2 seconds to insert a pause. The P replaces * and # on the display.

The Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows the entered digits.

-
- 2 Long press  to end the call.

The first line of the display shows Ending. The second line of the display shows Phone Call.... The display returns to the Phone Call screen.

The display shows Phone Call Ended.

Making a Live Over-Dial in an Inbound Phone Private Call

During the call, the Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows Phone Call.

- 1 Press the **PTT** button and use the keypad to enter the digits.
The Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows the Live Dial digits.

-
- 2 Long press  to end the call.

The first line of the display shows Ending. The second line of the display shows Phone Call.... The display returns to the Phone Call screen.

The display shows Phone Call Ended.

Receiving an Inbound Phone Talkgroup Call

When you receive an Inbound Phone Talkgroup Call, the Group Call icon appears in the top right corner. The first text line shows Call1.

Press the **PTT** button to talk and release it to listen.

Inbound Phone Multi-Group Call

When you receive an Inbound Phone Multi-Group Call, the Group Call icon appears in the top right corner. The first text line shows **Multi-group Call**. The radio unmutes and the incoming multi-group call sounds through the radio's speaker.

Making a Radio Call

After selecting your channel, you can select a subscriber alias or ID, or group alias or ID by using:

- The **PTT** button.
- A programmed **One Touch Access** button – The One Touch Access feature allows you to make a Private Call to a predefined ID easily. This feature can be assigned to a short or long programmable button press. You can **ONLY** have one ID assigned to a **One Touch Access** button. Your radio can have multiple **One Touch Access** buttons programmed.
- The Contacts list (see [Contacts Settings](#) on page 150).



Note:

Your radio must have the Privacy feature enabled on the channel to send a privacy-enabled transmission. Only target radios with the same Key Value and Key ID as your radio will be able to unscramble the transmission.



Note:

See [Privacy](#) on page 180 for more information.

Making a Call

Making a Group Call

To make a call to a group of users, your radio must be configured as part of that group.

- 1 Select the channel with the active group alias or ID. See [Selecting a Call Type](#) on page 126.
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 3 Press the **PTT** button to make the call. The LED lights up solid green. The Group Call icon appears in the top right corner. The first text line shows the group call alias.

- 4 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.
-

- 5 Release the **PTT** button to listen.

When the target radio responds, the LED blinks green, the radio unmutes and the response sounds through the radio's speaker. You see the Group Call icon, the group alias or ID, and transmitting radio alias or ID on your display.

If there is no voice activity for a predetermined period of time, the call ends. Radio returns to the screen you were on prior to initiating the call.

Making a Private Call

While you can receive and/or respond to a Private Call initiated by an authorized individual radio, your radio must be programmed for you to initiate a Private Call.

You will hear a negative indicator tone, when you make a Private Call via the Contacts list, Call Log, **One Touch Access** button, if this feature is not enabled.

Use the Text Message or Call Alert features to contact an individual radio. See [Text Message](#)

[Features](#) on page 166 or [Call Alert Operation](#) on page 158 for more information.

- 1 Do one of the following.

- Select the channel with the active subscriber alias or ID. See [Selecting a Call Type](#) on page 126.
 - Press the programmed **One Touch Access** button.
-

- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
-

- 3 Press the **PTT** button to make the call.

If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

The LED lights up solid green, the radio unmutes and the response sounds through the radio's speaker. The Private Call icon appears on the top right corner. The first text line shows the target subscriber alias. The second text line displays the call status.

- 4 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.
-

- 5 Release the **PTT** button to listen.

When the target radio responds, the LED blinks green, the radio unmutes and the response sounds through the radio's speaker.

If there is no voice activity for a predetermined period of time, the call ends. You hear a short tone. The display shows `Call Ended`.

Your radio may be programmed to perform a radio presence check prior to setting up the Private Call. If the target radio is not available, you hear a short tone and see negative mini notice on the display.

Making a Site All Call

This feature allows you to transmit to all users on the site that are currently not engaged in another call. Your radio must be programmed to allow you to use this feature.

Users on the channel/site cannot respond to an Site All Call.

- 1 Select the channel with the active Site All Call group alias. See [Selecting a Call Type](#) on page 126.

- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 3 Press the **PTT** button to make the call. The LED lights up solid green. The Group Call icon appears in the top right corner. The first text line shows `Site All Call`.

- 4 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.

Making a Multi-group Call

This feature allows you to transmit to all users on multiple groups. Your radio must be programmed to allow you to use this feature.



Note:

Users on the groups cannot respond to a Multi-group Call.

- 1 Select the channel with the active Multi-group alias or ID. See [Selecting Channels](#) on page 242.
- 2 Press the **PTT** button to make the call.

The LED lights up solid green. The display shows the Multi-group alias or ID.

Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

Making a Private Call with a One Touch Call Button



Note:

Programmable buttons press must be initiated from the Home screen.

The One Touch Call feature allows you to easily make a Private Call to a pre-defined Private Call alias or ID. This feature can be assigned to a short or long programmable button press.

You can **ONLY** have one alias or ID assigned to a One Touch Call button. Your radio can have multiple One Touch Call buttons programmed.

- 1 Press the programmed **One Touch Call** button to make a Private Call to the pre-defined Private Call alias or ID.

- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 3 Press the **PTT** button to make the call.
The LED lights up solid green.

The display shows the Private Call alias or ID.

- 4 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

- 5 Release the **PTT** button to listen.
When the target radio responds, the LED blinks green.
If there is no voice activity for a predetermined period of time, the call ends.

Making a Call with the Programmable Manual Dial Button

Making a Private Call

- 1 Press the programmed **Manual Dial** button to enter into the Manual Dial screen.
The display shows **Number: .**

- 2 Use the keypad to enter a subscriber alias or Private ID.

- 3 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 4 Press the **PTT** button to make the call.

The LED lights up solid green. The Private Call icon appears in the top right corner. The first text line shows the subscriber alias. The second text line displays the call status.

- 5 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- 6 Release the **PTT** button to listen.
When the target radio responds, the LED blinks green.
If there is no voice activity for a predetermined period of time, the call ends. You hear a short tone. The display shows `Call Ended`.

Making an Outbound Private Phone Call with the Programmable Manual Dial Button

- 1 Press the programmed **Manual Dial** button to enter into the Manual Dial screen.
The display shows `Number:.`
- 2 Use the keypad to enter a telephone number, and press  to place a call to the entered number.

Press  to delete any unwanted characters. Press  followed by  within 2 seconds to insert a pause. The P replaces * and # on the display.

If successful, the first line of the display shows `Phone Call`. The second line of the display shows the dialed telephone number.

If an invalid telephone number is selected, the display shows a negative mini notice, `Phone Call Failed, Resource Not Available, or Invalid Permissions`.

If  is pressed with no telephone number entered, the radio sounds a positive indicator tone then a negative indicator tone. The display remains the same.

- 3 Long press  to end the call.

The first line of the display shows `Ending`. The second line of the display shows `Phone Call....`

The display shows `Phone Call Ended`.

Making an Outbound Private Phone Call via the Phone Menu

- 1  to access the menu.

- 2  or  to Phone and press  to select.

- 3 Press  to select Manual Dial.
The first line of the display shows Number, the second line of the display shows a blinking cursor.

- 4 Use the keypad to enter a telephone number, and press  to place a call to the entered number.

Press  to delete any unwanted characters. Press  followed by  within 2 seconds to insert a pause. The P replaces * and # on the display.

If successful, the first line of the display shows Phone Call. The second line of the display shows the dialed telephone number.

If an invalid telephone number is selected, the display shows a negative mini notice, Phone Call

Failed, Resource Not Available, or Invalid Permissions.

If  is pressed with no telephone number entered, the radio sounds a positive indicator tone then a negative indicator tone. The display remains the same.

- 5 Long press  to end the call.
The first line of the display shows Ending. The second line of the display shows Phone Call....
The display shows Phone Call Ended.

Making an Outbound Private Phone Call from Contacts



Note:

If the Phone Manual Dial is disabled in MOTOTRBO Connect Plus Option Board CPS, the Phone Number item will **not** be displayed in the Menu.

- 1  to access the menu.

- 2  or  to Contacts and press  to select.

- 3  or  to Manual Dial and press  to select.

- 4  or  to Phone Number and press  to select.
The first line of the display shows Number, the second line of the display shows a blinking cursor.

- 5 Use the keypad to enter a telephone number, and press  to place a call to the entered number.

If the **PTT** button is pressed, the display shows a negative mini notice, Press OK to Send and returns to the previous screen.

Press  to delete any unwanted characters. Press  followed by  within 2 seconds to insert a pause. The P replaces * and # on the display.

If successful, the first line of the display shows Phone Call. The second line of the display shows the dialed telephone number.

If  is pressed with no telephone number entered, the radio sounds a positive indicator tone

then a negative indicator tone. The display remains the same.

- 6 Long press  to end the call.

The first line of the display shows Ending. The second line of the display shows Phone Call....

The display shows Phone Call Ended.

Waiting for the Channel Grant in an Outbound Private Phone Call

When you make a Private Phone Call, the first line of the display shows Phone Call. The second line of the display shows the dialed telephone number.

When the call is connected, the Phone Call as Private Call icon appears in the top right corner. The first line of the display shows the telephone number.

If unsuccessful, the display shows a negative mini notice, Phone Call Failed, Resource Not Available, or Invalid Permissions.

Long press  to end the call.

The display returns to the previous screen.

Making a Buffered Over-Dial in a Connected Outbound Private Phone Call

During the call, the Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows the telephone number.

1 Use the keypad to enter the digits.

Press  to delete any unwanted characters. Press  followed by  within 2 seconds to insert a pause. The P replaces * and # on the display.

The first text line of the display shows Extra Digits, the second text line of the display shows the entered extra digits.

2 Press the button.

If the **PTT** button is pressed, the display shows a negative mini notice, Press OK to Send and returns to the previous screen.

The Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows the telephone number with the over-dial digits appended.

3 Do one of the following.

- Press  to return to the Phone Call screen.
- Long press  to end the call.

Making a Live Over-Dial in a Connected Outbound Private Phone Call

During the call, the Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows the telephone number.

1 Press the **PTT** button and use the keypad to enter the digits.

The Phone Call as Private Call icon appears in the top right corner. The first text line of the display shows the telephone number with the over-dial digits appended.

2 Long press to end the call.

The first line of the display shows Ending. The second line of the display shows Phone Call....

The display shows Phone Call Ended.

Advanced Features in Connect Plus Mode

Home Channel Reminder

This feature provides a reminder when the radio is not set to the home channel for a period of time.

If this feature is enabled via the CPS, the Home Channel Reminder tone and announcement sound, the first line of the display shows `Hom` and the second line shows `Home Channel` periodically when the radio is not set to the home channel for a period of time.

You can respond to the reminder by performing one of the following actions:

- Return to the home channel.
- Mute the reminder temporarily via the programmable button.
- Set a new home channel via the programmable button.

Muting the Home Channel Reminder

When the Home Channel Reminder occurs, you can temporarily mute the reminder by performing the following action.

Press the **Silence Home Channel Reminder** programmable button.

The first line of the display shows `HCR` and the second line shows `Silenced`.

Setting a New Home Channel

When the Home Channel Reminder occurs, you can set a new home channel by performing one of the following actions:

- Press the **Reset Home Channel** programmable button.
The first line of the display shows the channel alias and the second line shows `New Home Ch`.
- Set a new home channel via the menu:
 - a)  to access the menu.
 - b)  or  to `Utilities` and press  to select.

- c) ▲ or ▼ to Radio Settings and press  to select.
- d) ▲ or ▼ to Home Channel and press  to select.
- e) Select from the list of valid channels.
The display shows  beside the selected home channel alias.

Auto Fallback

Auto Fallback is a system feature that allows you to continue to make and receive non-emergency calls on the selected Group Contact in the event of certain types of Connect Plus system failures.

If one of these failures occurs, your radio attempts to roam to a different Connect Plus site. This search process may result in your radio finding an operable Connect Plus site, or it may result in your radio finding a “Fallback Channel” (if your radio is enabled for Auto Fallback). A Fallback Channel is a repeater that is normally part of an operable Connect Plus site, but is currently unable to communicate with either its site controller or the Connect Plus network. In Fallback mode, the repeater operates as a single digital

repeater. Auto Fallback Mode supports non-emergency Group Calls only. No other call types are supported in Fallback Mode.

Indications of Auto Fallback Mode

When your radio is using a Fallback channel, you hear the intermittent “Fallback Tone” approximately once every 15 seconds (except while transmitting). The display periodically shows a brief message, “Fallback Channel”. Your radio only permits PTT on the selected Group Contact (Group Call, Multigroup Call, or Site All Call). It does not allow you to make other types of calls.

Making/Receiving Calls in Fallback Mode



Note:

Calls are heard only by radios that are monitoring the same Fallback channel and selected to the same Group. Calls are not networked to other sites or other repeaters.

Emergency voice calls or Emergency Alerts are not available in Fallback mode. If you press the emergency button in Fallback mode, the radio provides an invalid key press tone. Display-equipped radios also show the message, “Feature not available”.

Private (radio to radio) and Phone calls are not available in Fallback mode. If you attempt a call to a private contact, you will receive a denial tone. At this point you should select a desired group contact. Other non-supported calls include Remote Monitor, Call Alert, Radio Check, Radio Enable, Radio Disable, Text messaging, Location Updates, and packet data calls.

Enhanced Traffic Channel Access (ETCA) is not supported in Auto Fallback mode. If two or more radio users press **PTT** at the same time (or at almost the same time), it is possible that both radios transmit until **PTT** is released. In this event, it is possible that none of the transmissions will be understood by receiving radios.

Making calls in Fallback mode is similar to normal functioning. Simply select the group contact you wish to use (using the radio's normal channel selection method), and then press the **PTT** to start your call. It is possible that the channel may be in use already by another group. If the channel is in use, you receive a busy tone and the display will say "Channel Busy". You may select Group, Multi-group or Site All Call contacts using your radio's normal channel selection

method. While the radio is operating on the Fallback Channel, the Multigroup operates just like other Groups. It is only heard by radios that are currently selected to the same Multi-group.

Returning to Normal Operation

If the site returns to normal trunking operation while you are in range of your Fallback repeater, your radio automatically exits Auto Fallback mode. You hear a registration "beep" when the radio successfully registers. If you are in the range of an operable site (that is not in Fallback mode), you may press the Roam Request button (if programmed for your radio) to force your radio to search for and register on an available site. If no other site is available, your radio returns to Auto Fallback mode after searching is complete. If you drive out of coverage of your Fallback repeater, your radio enters Search mode (display indicates "Searching").

Radio Check

If enabled, this feature allows you to determine if another radio is active in a system without disturbing the user of that radio. No audible or visual notification is shown on the target radio.

Sending a Radio Check

- 1 Access the Radio Check feature.

Radio Control	Steps
Programmed Radio Check button	1 Press the programmed Radio Check button. 2 ▲ or ▼ to the required subscriber alias or ID and press  to select.
Menu	1  to access the menu. 2 ▲ or ▼ to Contacts and press  to select. 3 ▲ or ▼ to the required subscriber alias or ID and press  to select. 4 ▲ or ▼ to Radio Check and press  to select.

The display shows the Target Alias, indicating the request is in progress. The LED lights up solid green.

- 2 Wait for acknowledgement.

If the target radio is active in the system, a tone sounds and the display briefly shows **Target Radio Available**.

If the target radio is not active in the system, a tone sounds and the display briefly shows **Target Radio Not Available**.

Radio returns to the subscriber alias or ID screen when initiated via Menu.

Radio returns to the Home Screen if initiated via the programmable button.

Remote Monitor

Use the Remote Monitor feature to turn on the microphone of a target radio (subscriber alias or IDs only). The green LED will blink once on the target subscriber. You can use this feature to monitor, remotely, any audible activity surrounding the target radio.

Your radio must be programmed to allow you to use this feature.

Initiating Remote Monitor



Note:

Remote Monitor automatically stops after a programmed duration or when there is any attempt to initiate transmission, change channels or power down the radio.

- 1 Access the Remote Monitor feature.

Radio Control	Steps
Programmed Remote Monitor Button	1 Press the programmed Remote Monitor button. 2 ▲ or ▼ to the required subscriber alias or ID and press  to select.
Menu	1  to access the menu. 2 ▲ or ▼ to Contacts and press  to select.

Radio Control	Steps
	3 ▲ or ▼ to the required subscriber alias or ID and press  to select. 4 ▲ or ▼ to Manual Dial and press  to select. 5 ▲ or ▼ to Remote Mon. and press  to select.

The first text line shows **Rem. Monitor**. The second text line displays the **Target Alias**, indicating the request is in progress. The LED lights up blinking green.

- 2 Wait for acknowledgement.

If successful, a positive indicator tone sounds and the display momentarily shows **Rem. Monitor Successful**. Your radio starts playing audio from the monitored radio for a programmed duration and display shows **Rem. Monitor**, followed by

target alias. Once the timer expires, the radio sounds an alert tone and the LED turns off.

If unsuccessful, the radio sounds a negative indicator tone the display shows Rem. Monitor Failed.

Scan

This feature allows your radio to monitor and join calls for groups defined in a pre-programmed scan list. When scan is enabled, the scan icon appears on the status bar and the LED blinks yellow when idle.

Starting and Stopping Scan



Note:

This procedure turns the Scan feature On or Off for all Connect Plus zones with the same Network ID as your currently selected zone. It is important to note that even when the Scan feature is turned on via this procedure, scan may still be disabled for some (or all) groups on your scan list. See [Editing the Scan List](#) on page 145 for more information.

You can start and stop scanning by pressing the programmed **Scan** button **OR** follow the procedure described next.

- 1 to access the menu.
- 2 or to Scan and press to select.
- 3 or to Turn On or Turn Off and press to select.
 - The display shows Scan On if scan is enabled.
 - The Scan menu shows Turn Off if scan is enabled.
 - The display shows Scan Off if scan is disabled.
 - The Scan menu shows Turn On if scan is disabled.

Responding to a Transmission During a Scan

During scanning, your radio stops on a group where activity is detected. The radio continuously listens for any member in the scan list when idle on the control channel.

- 1 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 2 Press the **PTT** button during hang time.
The LED lights up solid green.

- 3 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.

- 4 Release the **PTT** button to listen.
If you do not respond within the hang time, the radio returns to scanning other groups.

User Configurable Scan

If the Edit List menu is enabled, a user is able to Add and Remove the scan members from the Add Member menu. A Scan List member must be a regular Group Contact (i.e. not Multi-group or Site All Call/Network Wide All Call) that is currently assigned to a Channel Selector position in a Connect Plus Zone with the same Network ID as the currently selected Zone. The Talkgroup alias must not match any Talkgroup that has been included in the current Zone's Scan List.

Scan can be turned on or off from the menu or by pressing a programmed **Scan On/Off** button.

This feature functions only when the radio is not currently involved in a call. If you are presently listening to a call, your radio cannot scan for other group calls, and is therefore unaware they are in progress. Once your call is finished, your radio returns to the control channel time slot and is able to scan for groups that are in the scan list.

Turning Scan On or Off



Note:

This procedure turns the Scan feature On or Off for all zones with the same Network ID as your currently selected zone. It is important to note that even when the Scan feature is turned on via this procedure, scan may still be disabled for some (or all) groups on your scan list. See the next section for more information.

If Scan is turned on, the Scan icon appears on your display. When Scan is on and you are not participating in a call, the LED blinks green and yellow.

The procedure for turning Scan on or off depends on how your radio is programmed. If programmed with a Scan On/Off button, use the button to toggle the feature on or off. If your radio has been programmed so that Scan can be turned on or off via the menu, follow the procedure described next.

- 1  to access the menu.

- 2  or  to Scan and press  to select.

- 3  or  to Turn On or Turn Off and press  to select.
 - The display shows Scan On momentarily if scan is disabled.
 - The display shows Scan Off momentarily if scan is enabled.

Editing the Scan List



Note:

If the scan list entry happens to be the radio's currently selected group, the radio listens for activity on this group regardless of whether the

list entry currently shows a check mark or not. Whenever a radio is not in a call, the radio listens for activity on its Selected Group, Multigroup, the Site All Call, and its Default Emergency Revert Group (if configured for one). This operation cannot be disabled. If Scan is enabled the radio will also listen for activity on enabled Zone Scan List members.

Your scan list determines which groups can be scanned. The list is created when your radio is programmed. If your radio has been programmed to allow you to edit the scan list, you can,

- Enable/disable scan for individual groups on the list.
- Add and Remove the scan members from the Add Member menu. Refer to [Add or Delete a Group via the Add Members Menu](#) on page 146.



Note:

A Scan List member must be a regular Group Contact (i.e. not Multigroup or Site All Call/ Network Wide All Call) that is currently assigned to a Channel Selector position in a Connect Plus Zone with the same Network ID as the currently selected Zone.

The Talkgroup alias must not match any Talkgroup that has been included in the current Zone's Scan List.

- 1  to access the menu.

- 2  or  to View/Edit List and press  to select.

- 3  or  to the desired Group name.
 If a check mark precedes the Group name, then scan is currently enabled for this Group.
 If there is no check mark preceding the Group name, then scan is currently disabled for this Group.

- 4  to select the desired Group.
 The display shows `Enable` if scan is currently disabled for the Group.
 The display shows `Disable` if scan is currently enabled for the Group.

- 5 Select the displayed option (`Enable` or `Disable`) and press  to select.
 Depending on which option was selected, the radio momentarily displays `Scan Enabled` or `Scan Disabled` as confirmation.

The radio displays the Zone scan list again. If scan was enabled for the Group, the check mark displays before the Group name. If scan was disabled for the Group, the check mark is removed before the Group name.

Add or Delete a Group via the Add Members Menu

The Connect Plus radio does not allow a duplicate group number or a duplicate group alias to be placed on a zone scan list (or to be shown as a "scan candidate"). Thus, the list of "scan candidates" described in steps 6 and 7 sometimes changes after adding or deleting a group from the zone scan list.

If your radio has been programmed to allow you to edit the scan list, you can use the Add Members menu to add a group to the scan list of the currently

selected zone, or to delete a group from the scan list of the currently selected zone.

- 1  to access the menu.

- 2  or  to Scan option and press  to select.

- 3  or  to <Add Members> and press  to select.
The display shows "Add Members from Zone n" (n = the Connect Plus zone number of the first Connect Plus zone in your radio with the same Network ID as your currently selected zone).

- 4 Do one of the following.
 - If the group you want to add to the scan list is assigned to a channel selector position in that zone, go to step 6.
 - If the group you want to add to the scan list is assigned to a channel selector position in a different Connect Plus zone, go to step 5.

- 5  or  to scroll a list of Connect Plus zones that have the same Network ID as the currently selected zone.
-

- 6 After locating the Connect Plus zone where the desired group is assigned to a channel selector position, press  to select.

Your radio displays the first entry in a list of groups assigned to a channel position in that zone. The groups on the list are called "scan candidates", because they can be added to the scan list of your currently selected zone (or they are already on the zone scan list).

If the zone does not have any groups that can be added to the scan list, the radio displays No Candidates.

- 7  or  to scroll through the list of candidate groups.

If a plus sign (+) is displayed immediately before the group alias, this indicates the group is currently on the scan list for the selected zone.

If the plus sign (+) is not displayed immediately before the alias, the group is not currently on the scan list, but can be added.

- 8 Press  when the desired group alias is displayed.

If this group is not currently on the scan list for the currently selected zone, the **Add (Group Alias)** message is displayed.

If this group is already on the scan list for the currently selected zone, the **Delete (Group Alias)** message is displayed.

- 9 Press  to accept the displayed message (**Add** or **Delete**).

If deleting a group from the list, you will know the operation is successful because the plus sign (+) will no longer display immediately before the alias.

If adding a group to the list, you will know the operation is successful because the plus sign (+) will display before the alias.

If you are attempting to add a group, and the list is already full, the radio displays **List Full**. If this

should occur, it will be necessary to delete a group from the scan list prior to adding a new one.

- 10 When finished, press  as many times as necessary to return to the desired menu.

Understanding Scan Operation



Note:

If the Radio joins a call for a Zone Scan List member from a different Zone and Call Hang Timer expires before you are able to respond, in order to respond, you must navigate to the Zone and Channel of the Scan List Member and start a new call.

There are some circumstances in which you can miss calls for groups that are in your scan list. When you miss a call for one of the following reasons, this does not indicate a problem with your radio. This is a normal scan operation for Connect Plus.

- Scan feature is not turned on (check for the scan icon on the display).
- Scan list member has been disabled via the menu (see [Editing the Scan List](#) on page 145).
- You are participating in a call already.

- No member of the scanned group is registered at your site (Multisite systems only).

Scan Talkback

If your radio scans into a call from the selectable group scan list, and if the **PTT** button is pressed during the scanned call, the operation of the radio depends on whether Scan Talkback was enabled or disabled during radio programming. For more information on how your radio is programmed, contact your radio dealer (or your radio system administrator).

Scan Talkback Disabled

The radio leaves the scanned call and attempts to transmit on the contact for the currently selected channel position. After the Call Hang Time on the currently selected contact expires, the radio returns to the home channel and starts the Scan Hang Time Timer. The radio resumes group scan after its Scan Hang Time Timer expires.

Scan Talkback Enabled

If the **PTT** button is pressed during the Group Hang Time of the scanned call,

the radio attempts to transmit to the scanned group.



Note:

If you scan into a call for a group that is not assigned to a channel position in the currently selected zone and you miss the Hang Time of the call, switch to the proper zone and then select the channel position of the group to talk back to that group.

Editing Priority for a Talkgroup

The Priority Monitor feature allows the radio to automatically receive transmission from the talkgroup with higher priority when it is in another call. A tone sounds when the radio switches to the call with higher priority.

There are two levels of priority for the talkgroups: P1 and P2. P1 has higher priority than P2.



Note:

If Default Emergency Revert Group ID is configured in MOTOTRBO Connect Plus Option Board CPS, there are three levels of priority for talkgroups: P0, P1 and P2. P0 is

the permanent Emergency Revert Group ID and the highest priority. Check with your dealer or system administrator for more information.

- 1  to access the menu.

- 2  or  to Scan and press  to select.

- 3  or  to View/Edit List and press  to select.

- 4  or  to the required talkgroup and press  to select.

- 5  or  to Edit Priority and press  to select.

- 6  or  to the required priority level and press  to select.
The display shows positive mini notice before returning to the previous screen. The priority icon appears on the left of the talkgroup.

Contacts Settings



Note:

You can add, or edit subscriber IDs for Connect Plus Contacts. Deleting subscriber IDs can only be performed by your dealer.

If the Privacy feature is enabled on a channel, you can make a privacy-enabled voice call on that channel. Only target radios with the same Privacy Key, or the same Key Value and Key ID as your radio are able to unscramble the transmission.

Contacts provide “address-book” capabilities on your radio. Each entry corresponds to an alias or ID that you use to initiate a call.

Each zone provides a Contact List with up to 100 contacts. The following contact types are available:

- Private Call
- Group Call
- Multigroup Call
- Site All Call Voice
- Site All Call Text
- Dispatch Call

The Dispatch Call contact type is used to send a text message to a dispatcher PC through a third-party Text Message Server.

Making a Private Call from Contacts

- 1  to access the menu.

- 2  or  to **Contacts** and press  to select.
The entries are alphabetically sorted.

- 3 Use one of the steps described next to select the required subscriber alias:
 - Select the subscriber alias directly.
 -  or  to the required subscriber alias or ID.
 - Use the **Manual Dial** menu.
 -  or  to **Manual Dial** and press  to select.
 - If there was previously dialed ID, the ID appears along with a blinking cursor. Use the keypad to edit/enter the ID. Press  to select.

- 4 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 5 Press the **PTT** button to make the call.
The LED lights up solid green.

- 6 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.

- 7 Release the **PTT** button to listen.

When the target radio responds, the LED blinks green and the display shows the transmitting user's ID.

If there is no voice activity for a predetermined period of time, the call ends.

You hear a short tone. The display shows **Call Ended**.

Making a Call Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias.

This feature is only applicable while in **Contacts**.

- 1  to access the menu.

- 2 ▲ or ▼ to `Contacts` and press  to select.
The entries are alphabetically sorted.

- 3 Key in the first character of the required alias, and then press ▲ or ▼ to locate the required alias.

- 4 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 5 Press the **PTT** button to make the call.
The LED lights up solid green. The display shows the destination alias.

- 6 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.

- 7 Release the **PTT** button to listen.

When the target radio responds, the LED blinks green.

If there is no voice activity for a predetermined period of time, the call ends.

The display shows `Call Ended`.

Adding a New Contact

- 1  to access the menu.

- 2 ▲ or ▼ to `Contacts` and press  to select.

- 3 ▲ or ▼ to `New Contact` and press  to select.

- 4 Use the keypad to enter the contact number and press  to confirm.

- 5 Use the keypad to enter the contact name and press  to confirm.

- 6 If adding a Radio Contact, ▲ or ▼ to the required ringer type and press  to select.
The radio sounds a positive indicator tone and the display shows `Contact Saved`.

Call Indicator Settings

Activating and Deactivating Call Ringers for Call Alert

You can select, or turn on or off ringing tones for a received Call Alert.

- 1 Press  to access the menu.
- 2 Press  or  to Utilities and press  to select.
- 3 Press  or  to Radio Settings and press  to select.
- 4 Press  or  to Tones/Alert and press  to select.
- 5 Press  or  to Call Ringers and press  to select.
- 6 Press  or  to Call Alert and press  to select.

The current tone is indicated by a .

- 7 Press  or  to the required tone and press  to select.
 appears beside selected tone.

Activating and Deactivating Call Ringers for Private Calls

You can turn on or off the ringing tones for a received Private Call.

- 1  to access the menu.
- 2  or  to Utilities and press  to select.
- 3  or  to Radio Settings and press  to select.
- 4  or  to Tones/Alerts and press  to select.

- 5 ▲ or ▼ to Call Ringers and press  to select.

- 6 ▲ or ▼ to Private Call and press  to select.

- 7 Press  to enable/disable the Private Call ringing tones.

The display shows ✓ beside Enabled, if Private Call ringing tones are enabled.

The ✓ is not displayed when Private Call ringing tones are disabled.

Activating and Deactivating Call Ringers for Text Message

You can turn on or off the ringing tones for a received Text Message.

- 1  to access the menu.

- 2 ▲ or ▼ to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Settings and press  to select.

- 4 ▲ or ▼ to Tones/Alerts and press  to select.

- 5 ▲ or ▼ to Call Ringers and press  to select.

- 6 ▲ or ▼ to Text Message and press  to select.

The current tone is indicated by a ✓.

- 7 ▲ or ▼ to the required tone and press  to select.
✓ appears beside selected tone.

Selecting a Ring Alert Type



Note:

The programmed **Ring Alert Type** button is assigned by your dealer or system administrator. Check with your dealer or

system administrator to determine how your radio has been programmed.

You can program the radio calls to one predetermined vibrate call. If All Tones status is disabled, the radio displays the All Tone Mute icon. If All Tones status is enabled, the related ring alert type is displayed.

The radio sounds one vibration if it is a momentary ring style. The radio vibrates repetitively if it is a repetitive ring style. When set to Ring and Vibrate, the radio sounds a specific ring tone if there is any incoming radio transaction (for example, Call Alert or Message). It sounds like a good key tone or missed call. If the notification list is not empty, the radio repeats a vibration every 5 minutes.

You can select a Ring Alert Type by performing one of the following actions.

- Press the programmed **Ring Alert Type** button to access the Ring Alert Type menu.
 - a) Press ▲ or ▼ to Ring, Vibrate, Ring & Vibrate or Silent and press  to select.
- Access this feature via the menu.

- a) Press  to access the menu.
- b) Press ▲ or ▼ to Utilities and press  to select.
- c) Press ▲ or ▼ to Radio Settings and press  to select.
- d) Press ▲ or ▼ to Tones/Alerts and press  to select.
- e) Press ▲ or ▼ to Ring Alert Type and press  to select.
- f) Press ▲ or ▼ to Ring, Vibrate, Ring & Vibrate or Silent and press  to select.

Configuring Vibrate Style



Note:

The programmed **Vibrate Style** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can configure the vibrate style by performing one of the following actions.

- Press the programmed **Vibrate Style** button to access the Vibrate Style menu.
 - a) Press ▲ or ▼ to Short, Medium, or Long and press  to select.
-
- Access this feature via the menu.
 - a) Press  to access the menu.
 - b) Press ▲ or ▼ to Utilities and press  to select.
 - c) Press ▲ or ▼ to Radio Settings and press  to select.
 - d) Press ▲ or ▼ to Tones/Alerts and press  to select.
 - e) Press ▲ or ▼ to Vibrate Style and press  to select.
 - f) Press ▲ or ▼ to Short, Medium, or Long and press  to select.
-

Escalating Alarm Tone Volume

You can program your radio to continually alert you when a radio call remains unanswered. This is done by automatically increasing the alarm tone volume over time. This feature is known as Escalart.

Call Log Features

Your radio keeps track of all recent outgoing, answered, and missed Private Calls. Use the call log feature to view and manage recent calls.

You can perform the following tasks in each of your call lists:

- Delete
- View Details

Viewing Recent Calls

The lists are Missed, Answered, and Outgoing.

- 1  to access the menu.
-
- 2 ▲ or ▼ to Call Log and press  to select.
-
- 3 ▲ or ▼ to preferred list and press  to select.

The display shows the most recent entry at the top of the list.

-
- 4 ▲ or ▼ to view the list.

Press the **PTT** button to start a Private Call with the current selected alias or ID.

Deleting a Call from a Call List

- 1  to access the menu.
-

- 2 ▲ or ▼ to Call Log and press  to select.
-

- 3 ▲ or ▼ to the required list and press  to select.

When you select a call list and it contains no entries, the display shows **List Empty**, and sounds a low tone if Keypad Tones are turned on.

- 4 ▲ or ▼ to the required alias or ID and press  to select.
-

- 5 ▲ or ▼ to Delete and press  to select.
-

- 6 Do one of the following:

- Press  to select **Yes** to delete the entry. The display shows **Entry Deleted**.
 - ▲ or ▼ to **No**, and press the  button to return to the previous screen.
-

Viewing Details from a Call List

- 1  to access the menu.
-

- 2 ▲ or ▼ to Call Log and press  to select.
-

- 3 ▲ or ▼ to the required list and press  to select.
-

- 4 ▲ or ▼ to the required alias or ID and press  to select.
-

- 5 ▲ or ▼ to View Details and press  to select.
Display shows details.
-

Call Alert Operation

Call Alert paging enables you to alert a specific radio user to call you back when they are able to do so.

This feature is accessible through the menu via Contacts, manual dial or a programmed **One Touch Access** button.

Responding to Call Alerts

Follow the procedure to respond to Call Alerts on your radio.

When you receive a Call Alert:

- A repetitive tone sounds.
- The yellow LED blinks.
- The display shows the notification list listing a Call Alert with the alias or ID of the calling radio.

Depending on the configuration by your dealer or system administrator, you can respond to a Call Alert by doing one of the following:

- Press the **PTT** button and respond with a Private Call directly to the caller.
- Press the **PTT** button to continue normal talkgroup communication.

The Call Alert is moved to the Missed Call option at the Call Log menu. You can respond to the caller from the Missed Called log.

See [Notification List](#) on page 98 and [Call Log Features](#) on page 70 for more information.

Making a Call Alert from the Contact List

- 1  to access the menu.
- 2  or  to **Contacts** and press  to select.
- 3 Use one of the steps described next to select the required subscriber alias or ID:
 - select the subscriber alias directly
 -  or  to the required subscriber alias and press  to select.
 - use the **Manual Dial** menu
 -  or  to **Manual Dial** and press  to select.

- The Manual Dial text entry screen shall be displayed. Enter the Subscriber ID and press .

4

 or  to Call Alert and press  to select.

The display shows Call Alert: <Subscriber Alias or ID>Call Alert and the subscriber alias or ID, indicating that the Call Alert has been sent.

The LED lights up solid green when your radio is sending the Call Alert.

If the Call Alert acknowledgement is received, the display shows Call Alert Successful.

If the Call Alert acknowledgement is not received, the display shows Call Alert Failed.

The LED lights up solid green when your radio is sending the Call Alert.

If the Call Alert acknowledgement is received, the display shows Call Alert Successful.

If the Call Alert acknowledgement is not received, the display shows Call Alert Failed.

Emergency Operation



Note:

If your radio is programmed for Silent or Silent with Voice emergency initiation, in most cases it automatically exits silent operation after the Emergency Call or Emergency Alert is finished. The exception to this rule is when Emergency Alert is the configured Emergency Mode and Silent is the configured Emergency Type. If your radio is programmed in this manner, the silent operation continues until you cancel silent operation by pressing **PTT** or the button configured for Emergency Off.

Emergency voice calls and Emergency Alerts are not supported when operating in Connect Plus Auto Fallback mode. For more

Making a Call Alert with the One Touch Access Button

Press the programmed **One Touch Access** button to make a Call Alert to the predefined alias. The display shows Call Alert and the subscriber alias or ID, indicating that the Call Alert has been sent.

information see the [Auto Fallback](#) on page 139.

An Emergency Alert is used to indicate a critical situation. You can initiate an Emergency at any time on any screen display, even when there is activity on the current channel. Pressing the **Emergency** button initiates the programmed Emergency mode. The programmed Emergency mode may also be initiated by triggering the optional Man Down feature. The Emergency feature may be disabled in your radio.

Your dealer can set the duration of a button press for the programmed **Emergency** button, except for long press, which is similar with all other buttons:

Short press Between 0.05 seconds and 0.75 seconds.

Long press Between 1.00 second and 3.75 seconds.

The **Emergency** button is assigned with the Emergency On/Off feature. Check with your dealer for the assigned operation of the **Emergency** button.

- If the short press for the **Emergency** button is assigned to turn on the Emergency mode, then the

long press for the **Emergency** button is assigned to exit the Emergency mode.

- If the long press for the **Emergency** button is assigned to turn on the Emergency mode, then the short press for the **Emergency** button is assigned to exit the Emergency mode.

When your radio is selected to a Connect Plus zone, it supports three Emergency modes:

Emergency Call You must press the **PTT** button to talk on the assigned emergency time slot.

Emergency Call with Voice to Follow For the first transmission on the assigned emergency time slot, the microphone is automatically unmuted and you may talk without pressing the **PTT** button. The microphone stays “hot” in this fashion for a time period programmed into the radio. For subsequent transmissions in the same Emergency call, you must press the **PTT** button.

Emergency Alert An Emergency Alert is not a voice call. It is an emergency notification

that is sent to radios that are configured to receive these alerts. The radio sends an emergency alert via the control channel of the currently registered site. The Emergency Alert is received by radios in the Connect Plus network that are programmed to receive them (no matter which network site they are registered to).

Only one of the Emergency Modes can be assigned to the Emergency button per zone. In addition, each Emergency mode has the following types:

Regular	Radio initiates an Emergency and shows audio and/or visual indicators.
Silent	Radio initiates an Emergency without any audio or visual indicators. The radio suppresses all audio or visual indications of the Emergency until you press the PTT button to start a voice transmission.
Silent with Voice	The same as Silent operation, except that the radio also unmutes for some voice transmissions.

Initiating an Emergency Call



Note:

If your radio is set to Silent, it does not display any audio or visual indicators during Emergency mode until you press the **PTT** button to initiate a voice transmission.

If your radio is set to Silent with Voice, it does not initially display any audio or visual indicators that the radio is in Emergency mode. However, your radio unmutes for the transmissions of radios responding to your emergency. The emergency indicators only appear once you press the **PTT** button to initiate a voice transmission from your radio.

For both “Silent” and “Silent with Voice” operation, the radio automatically exits silent operation after the Emergency Call is finished.

- 1 Press the programmed **Emergency** button.
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 3 Press the **PTT** button to initiate a voice transmission on the Emergency group.

When you release the **PTT** button, the Emergency call continues for the time allotted for the Emergency Call Hang Time.

If you press the **PTT** button during this time, the Emergency call continues.

Initiating an Emergency Call with Voice to Follow

Your radio must be programmed for this type of operation.

When enabled for this operation, when you press the programmed **Emergency** button, and when your radio receives the time slot assignment, the microphone is automatically activated without pressing the **PTT** button. This activated microphone state is also known as “hot mic”. The “hot mic” applies to the first voice transmission from your radio during the Emergency call. For subsequent transmissions in the same Emergency call, you must press the **PTT** button.

- 1 Press the programmed **Emergency** button.
-
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
-

- 3 The microphone remains active for the “hot mic” time specified in your radio's codeplug programming.

During this time, the LED lights up green.

-
- 4 Press and hold the **PTT** button to talk longer than the programmed duration.
-

Initiating an Emergency Alert



Note:

If your radio is programmed for “Silent” or “Silent with Voice”, it will not provide any audio or visual indications that it is sending an Emergency Alert. If programmed for “Silent”, the silent operation continues indefinitely until you press PTT or the button configured for “Emergency Off”. If programmed for “Silent with Voice”, the radio automatically cancels silent operation when the site controller broadcasts the Emergency Alert.

Press the orange **Emergency** button.

Upon transmitting the Emergency Alert to the site controller, the radio's display shows the Emergency icon, the Group contact used for the Emergency Alert, and TX Alarm.

Once the Emergency Alert is successfully sent and is being broadcast for other radios to hear, a positive indicator tone sounds and the radio's display shows **Alarm Sent**. If the Emergency Alert is unsuccessful, a negative indicator tone sounds and the radio displays **Alarm Failed**.

Receiving an Incoming Emergency

Your radio may be programmed to sound an alert tone and also display information about the incoming Emergency. If so programmed, upon receiving the incoming Emergency, the display shows the Emergency Details screen with the emergency icon, the Alias or ID of the radio that requested the Emergency, the Group Contact being used for the Emergency, and one additional line of information. The additional information is the name of the zone that contains the Group Contact.

At the present time, the radio displays only the most recently decoded Emergency. If a new Emergency is received before the prior Emergency is cleared, the details for the new Emergency replace the details of the previous Emergency.

Depending on how your radio has been programmed, the Emergency Details screen (or Alarm List screen)

will stay on your radio's display even after the Emergency ends. You can save the emergency details to the Alarm List, or you can delete the emergency details as described in the following sections.

Saving the Emergency Details to the Alarm List

Saving the emergency details to the Alarm List allows you to view the details again at a later time by selecting Alarm List from the Main Menu.

1 While the Emergency Details (or Alarm List)

screen is displayed, press .

The **Exit Alarm List** screen displays.

2 Perform one of the following actions:

- Select **Yes** and press  to save the emergency details to the Alarm List, and to exit the Emergency Details (or Alarm List) screen.
- Select **No** and press  to return to the Emergency Details (or Alarm List) screen.

Deleting the Emergency Details

- 1 While the Emergency Details screen is displayed, press . The **Delete** screen displays.
- 2 Perform one of the following actions:
 - Select **Yes** and press  to delete the emergency details.
 - Select **No** and press  to return to the Emergency Details screen.

Responding to an Emergency Call



Note:

If you do not respond to the Emergency Call within the time allotted for the Emergency Call Hang Time, the Emergency call will end. If you want to speak to the group after the Emergency Call Hang Time expires, you must first select the channel position assigned to the group (if not already selected). Then, press **PTT** to start a non-Emergency Call to the group.

- 1 When receiving an Emergency Call, press any button to stop all Emergency Call received indications.
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 3 Press the **PTT** button to initiate a voice transmission on the Emergency group. All radios that are monitoring this group hear your transmission.
- 4 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone. The LED lights up green.
- 5 Release the **PTT** button to listen. When the emergency initiating radio responds, the LED blinks green, the LED blinks green, the radio unmutes and the response sounds through the radio's speaker. You see the Group Call icon, the group ID, and transmitting radio ID on your display.

Responding to an Emergency Alert



Note:

The Group contact used for the Emergency Alert should not be used for voice communication. This could prevent other radios from sending and receiving Emergency Alerts on the same group.

An Emergency Alert from a radio indicates that the user is in an urgent situation. You may respond to the alert by initiating a private call to the radio who declared the emergency, initiating a group call to a designated talk group, sending the radio a Call Alert, initiating a Remote Monitor of that radio, etc. The proper response is determined by your organization and the individual situation.

Ignore Emergency Revert Call

This feature enhancement is to provide an option for the radio to ignore an active Emergency Revert Call.

To enable Ignore Emergency Revert Call, the radio must be configured at the Connect Plus Customer Programming Software (CPCPS).

When the feature is enabled, the radio does not display Emergency Call indications and does not

receive any audio on the default Emergency Revert Group ID.

Check with your dealer or system administrator for more information.

Exiting Emergency Mode



Note:

If the Emergency call ends due to the expiration of the Emergency Hang Time, but the emergency condition is not over, press the **Emergency** button again to restart the process.

If you initiate an Emergency Alert by pressing the programmed **Emergency** button, your radio automatically exits Emergency mode after receiving a response from the Connect Plus system.

If you initiate an Emergency call by pressing the programmed **Emergency** button, your radio will be assigned a channel automatically when one becomes available. Once your radio has transmitted a message indicating the emergency, you cannot cancel your Emergency call. However, if you pressed the button by accident or the emergency no longer exists, you may wish to say this over the assigned channel. When you release the **PTT** button, the

Emergency call is discontinued after the Emergency Call Hang Time expires.

If your radio was configured for Emergency with Voice to Follow, use the “hot mic” period to explain your error, then press and release the **PTT** button to discontinue the transmission. The Emergency call is discontinued after the Emergency Call Hang Time expires.

Text Message Features

Your radio is able to receive data, for example a text message, from another radio or a text message application.

The maximum length of characters when you send and receive a text message is 280 characters which includes the subject line. You see the subject line when you receive messages from e-mail applications.



Note:

The maximum length of 280 characters is applicable only for models with the latest software and hardware. On older hardware, the text message will be truncated to the maximum length of 140 characters. Check

with your dealer or system administrator for more information.

The radio exits the current screen once the inactivity timer expires.



Note:

Long press  at any time to return to the Home screen.

Writing and Sending a Text Message

- 1 Access the **Text Message** feature.

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.
Menu	1  to access the menu. 2  or  to Messages and press  to select.

- 2  or  to Compose and press  to select.

A blinking cursor appears.

3 Use the keypad to type your message.

Press  to move one space to the left. Press  or the  key to move one space to the right.

Press the  key to delete any unwanted characters. Long press  to change text entry method.

4 Press once message is composed.

5 If you are sending the message, select the recipient by

-  or  to the required alias and press  to select.
-  or  to Manual Dial, and press  to select. The first line of the display shows Number: . The second line of the display shows a blinking cursor. Key in the subscriber alias or ID and press .

The display shows *Sending Message*, confirming your message is being sent.

If the message is sent successfully, a tone sounds and the display shows *Message Sent*.

If the message cannot be sent, a low tone sounds and the display shows *Message Send Failed*.

If the text message fails to send, the radio returns you to the *Resend* option screen (see [Managing Fail-to-Send Text Messages](#) on page 171).

Sending a Quick Text Message

Your radio supports a maximum of 10 Quick Text messages as programmed by your dealer.

While Quick Text messages are predefined, you can edit each message before sending it.

1 Access the **Text Message** feature.

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.

Radio Controls	Steps
Menu	1  to access the menu. 2  or  to Messages and press  to select.

2  or  to Quick Text and press  to select.

3  or  to the required Quick Text and press  to select.
A blinking cursor appears.

4 Use the keypad to edit the message, if required.
Press  to move one space to the left. Press  or the  key to move one space to the right.
Press the  key to delete any unwanted characters. Long press  to change the text entry method.

5 Press  once message is composed.

6 Depending on whether you want to send, save, re-edit, or delete the newly composed message, do one of the following.

-  or  to Send, and press  to send the message.
-  or  to Save, and press  to save the message to the Drafts folder.
-  to edit the message.
-  again to choose between deleting the message or saving it to the Drafts folder.

7 If you are sending the message, select the recipient by

-  or  to the required alias and press  to select.
-  or  to Manual Dial, and press  to select. The first line of the display shows Number: . The second line of the display shows

a blinking cursor. Key in the subscriber alias or ID and press .

The display shows *Sending Message*, confirming your message is being sent.

If the message is sent successfully, a tone sounds and the display shows *Message Sent*.

If the message cannot be sent, a low tone sounds and the display shows *Message Send Failed*.

If the text message fails to send, the radio returns you to the *Resend* option screen (see [Managing Fail-to-Send Text Messages](#) on page 171).

Sending a Quick Text Message with the One Touch Access Button

Press the programmed **One Touch Access** button to send a predefined Quick Text message to a predefined alias.

The display shows *Sending Message*, confirming your message is being sent.

If the message is sent, a tone sounds and the display shows *Message Sent*.

If the message cannot be sent, a low tone sounds and the display shows *Message Send Failed*.

If the text message fails to send, the radio returns you to the *Resend* option screen (see [Managing Fail-to-Send Text Messages](#) on page 171).

Accessing the Drafts Folder

You can save a text message to send it at a later time.

If a **PTT** button press or a mode change causes the radio to exit the text message writing/editing screen while you are in the process of writing or editing a text message, your current text message is automatically saved to the Drafts folder.

The most recent saved text message is always added to the top of the Drafts list.

The Drafts folder stores a maximum of ten (10) last saved messages. When the folder is full, the next saved text message automatically replaces the oldest text message in the folder.



Note:

Long press  at any time to return to the Home screen.

Viewing a Saved Text Message

- 1 Access the **Text Message** feature.

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.
Menu	1  to access the menu. 2  or  to Messages and press  to select.

- 2  or  to Drafts and press  to select.

- 3  or  to the required message and press  to select.

Editing and Sending a Saved Text Message

- 1 Press  again while viewing the message.

- 2  or  to Edit and press  to select. A blinking cursor appears.

- 3 Use the keypad to type your message.

Press  to move one space to the left. Press  or the  key to move one space to the right.

Press the  key to delete any unwanted characters. Long press  to change text entry method.

- 4 Press  once message is composed.

- 5 Select the message recipient by

-  or  to the required alias and press  to select.
-  or  to Manual Dial, and press  to select. The first line of the display shows Number: . The second line of the display shows a blinking cursor. Key in the subscriber alias or ID and press .

The display shows **Sending Message**, confirming your message is being sent.

If the message is sent successfully, a tone sounds and the display shows **Message Sent**.

If the message cannot be sent, a low tone sounds and the display shows **Message Send Failed**.

If the text message cannot be sent, it is moved to the Sent Items folder and marked with a Send Failed icon.

Deleting a Saved Text Message from Drafts

- 1 Access the **Text Message** feature.

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.
Menu	1  to access the menu. 2  or  to Messages and press  to select.

- 2  or  to Drafts and press  to select.

- 3  or  to the required message and press  to select.

- 4 Press  again while viewing the message.

- 5  or  to Delete and press  to delete the text message.

Managing Fail-to-Send Text Messages

You can select one of the following options while at the Resend option screen:

- Resend
- Forward
- Edit

Resending a Text Message

Press  to resend the same message to the same subscriber/group alias or ID.

If the message is sent successfully, a tone sounds and the display shows the positive mini notice.

If the message cannot be sent, the display shows the negative mini notice.

Forwarding a Text Message

Select **Forward** to send the message to another subscriber/group alias or ID.

- 1 ▲ or ▼ to **Forward** and press  to select.
- 2 Select the message recipient by
 - ▲ or ▼ to the required alias or ID and press  to select.
 - ▲ or ▼ to **Manual Dial**, and press  to select. The first line of the display shows **Number:**. The second line of the display shows a blinking cursor. Key in the subscriber alias or ID and press .

The display shows **Sending Message**, confirming your message is being sent.

If the message is sent successfully, a tone sounds and the display shows **Message Sent**.

If the message cannot be sent, a low tone sounds and the display shows **Message Send Failed**.

Editing a Text Message

Select **Edit** to edit the message before sending it.

- 1 ▲ or ▼ to **Edit** and press  to select. A blinking cursor appears.
- 2 Use the keypad to edit your message.

Press ◀ to move one space to the left. Press ▶ or the  key to move one space to the right.

Press the  key to delete any unwanted characters. Long press  to change text entry method.
- 3 Press  once message is composed.
- 4 Depending on whether you want to send, save, re-edit, or delete the newly composed message, do one of the following.

- ▲ or ▼ to Send, and press  to send the message.
- ▲ or ▼ to Save, and press  to save the message to the Drafts folder.
-  to edit the message.
-  again to choose between deleting the message or saving it to the Drafts folder.

5 If you are sending the message, select the recipient by

- ▲ or ▼ to the required alias or ID and press  to select.
- ▲ or ▼ to Manual Dial, and press  to select. The first line of the display shows Number: . The second line of the display shows a blinking cursor. Key in the subscriber alias or ID and press .

The display shows Sending Message, confirming your message is being sent.

If the message is sent successfully, a tone sounds and the display shows Message Sent.

If the message cannot be sent, a low tone sounds and the display shows Message Send Failed.

Managing Sent Text Messages

Once a message is sent to another radio, it is saved in Sent Items. The most recent sent text message is always added to the top of the Sent Items list.

The Sent Items folder is capable of storing a maximum of thirty (30) last sent messages. When the folder is full, the next sent text message automatically replaces the oldest text message in the folder.



Note:

Long press  at any time to return to the Home screen.

Viewing a Sent Text Message

- 1 Access the **Text Message** feature.

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.
Menu	1  to access the menu. 2  or  to Messages and press  to select.

2  or  to Sent Items and press  to select.

3  or  to the required message and press  to select.

The icon at the top right corner of the screen indicates the status of the message (see [Sent Item Icons](#) on page 121).

Sending a Sent Text Message

You can select one of the following options while viewing a sent text message:

- Resend
- Forward
- Edit
- Delete

- 1 Press  again while viewing the message.
- 2  or  to one of the following options and press  to select.

Option	Steps
Forward	Select Forward to send the selected text message to another subscriber/group alias or ID (see Forwarding a Text Message on page 172).
Edit	Select Edit to edit the selected text message before sending it (see Editing a Text Message on page 172).
Delete	Select Delete to delete the text message.
Resend	Select Resend to resend the selected text message to the same subscriber/group alias or ID.

Option	Steps
	The display shows Sending Message, confirming that the same message is being sent to the same target radio. If the message is sent successfully, a tone sounds and the display shows Message Sent. If the message cannot be sent, a low tone sounds and the display shows Message Send Failed. If the message fails to send, the radio returns you to the Resend option screen. Press  to resend the message to the same subscriber/group alias or ID.  Note: If you exit the message sending screen while the message is being sent, the radio updates the status of the message in the Sent Items folder without provid-

Option	Steps
	ing any indication in the display or via sound.  Note: If the radio changes mode or powers down before the status of the message in Sent Items is updated, the radio cannot complete any In-Progress messages and automatically marks it with a Send Failed icon.  Note: The radio supports a maximum of five (5) In-Progress messages at one time. During this period, the radio cannot send any new message and automatically marks it with a Send Failed icon.

If you exit the message sending screen while the message is being sent, the radio updates the

status of the message in the Sent Items folder without providing any indication in the display or via sound.

If the radio changes mode or powers down before the status of the message in Sent Items is updated, the radio cannot complete any In-Progress messages and automatically marks it with a Send Failed icon.

The radio supports a maximum of five (5) In-Progress messages at one time. During this period, the radio cannot send any new message and automatically marks it with a Send Failed icon.

Deleting All Sent Text Messages from Sent Items

- 1 Access the **Text Message** feature by performing one of the following actions:

Radio Con-trols	Steps
Programmed Text Message button	Press the programmed Text Message button.
Menu	1  to access the menu.

Radio Con-trols	Steps
	2  or  to Messages and press  to select.

- 2  or  to Sent Items and press  to select.

When you select Sent Items and it contains no text messages, the display shows List Empty, and sounds a low tone if Keypad Tones are turned on..

- 3  or  to Delete All and press  to select.

- 4 Choose one of the following.

-  or  to Yes and press  to select. The display shows positive mini notice.
-  or  to No and press  to return to the previous screen.

Receiving a Text Message

When your radio receives a message, the display shows the Notification List with the alias or ID of the sender and the Message icon.

You can select one of the following options when receiving a text message:

- Read
- Read Later
- Delete

Reading a Text Message

- 1  or  to Read? and press  to select.

Selected message in the Inbox opens.

- 2 Do one of the following:
 - Press  to return to the Inbox.
 - Press  a second time to reply, forward, or delete the text message.
-

Managing Received Text Messages

Use the Inbox to manage your text messages. The Inbox is capable of storing a maximum of 30 messages.

Text messages in the Inbox are sorted according to the most recently received.

Your radio supports the following options for text messages:

- Reply
- Forward
- Delete
- Delete All



Note:

If the channel type is not a match, you can only forward, delete, or delete all Received messages.

Long press  at any time to return to the Home screen.

Viewing a Text Message from the Inbox

- 1  to access the menu.
-

- 2 ▲ or ▼ to Messages and press  to select.
- 3 ▲ or ▼ to Inbox and press  to select.
- 4 ▲ or ▼ to view the messages.
- 5 Do one of the following:
 - Press  to select the current message, and press  again to reply, quick reply, forward, or delete that message.
 - Long press  to return to the Home screen.

Replying to a Text Message from the Inbox

- 1 Access the **Text Message** feature.

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.

Radio Controls	Steps
Menu	1  to access the menu.
	2 ▲ or ▼ to Messages and press  to select.

- 2 ▲ or ▼ to Inbox and press  to select.
- 3 ▲ or ▼ to the required message and press  to select.
- 4 Press  once more to access the sub-menu.
- 5 Do one of the following:
 - ▲ or ▼ to Reply and press  to select.
 - ▲ or ▼ to Quick Reply and press  to select.A blinking cursor appears.
- 6 Use your keypad to write/edit your message.

- 7 Press  once message is composed.

The display shows **Sending Message**, confirming your message is being sent.

If the message is sent successfully, a tone sounds and the display shows **Message Sent**.

If the message cannot be sent, a low tone sounds and the display shows **Message Send Failed**.

If the message cannot be sent, the radio returns you to the **Resend** option screen (see [Managing Fail-to-Send Text Messages](#) on page 171).

Deleting a Text Message from the Inbox

- 1 Access the **Text Message** feature by performing one of the following actions:

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.
Menu	1  to access the menu.

Radio Controls	Steps
	2  or  to Messages and press  to select.

- 2  or  to **Inbox** and press  to select.
- 3  or  to the required message and press  to select.
- 4 Press  once more to access the sub-menu.
- 5  or  to **Delete** and press  to select.
- 6  or  to **Yes** and press  to select.
The display shows **Message Deleted**, and the screen returns to the **Inbox**.

Deleting All Text Messages from the Inbox

- 1 Access the **Text Message** feature by performing one of the following actions:

Radio Controls	Steps
Programmed Text Message button	Press the programmed Text Message button.
Menu	1  to access the menu. 2  or  to Messages and press  to select.

- 2  or  to Inbox and press  to select.

When you select Inbox and it contains no text messages, the display shows *List Empty*, and sounds a low tone if Keypad Tones are turned on (see [Turning Keypad Tones On or Off](#) on page 199).

- 3  or  to Delete All and press  to select.

- 4  or  to Yes and press  to select.
The display shows *Inbox Cleared*.

Privacy

If enabled, this feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software-based scrambling solution. The signaling and user identification portions of a transmission are not scrambled.

Your radio must have privacy enabled on the current channel selector position to send a privacy-enabled transmission, although this is not a necessary requirement for receiving a transmission. While on a privacy-enabled channel selector position, the radio is still able to receive clear (unscrambled) transmissions.

Your radio supports Enhanced Privacy.

To unscramble a privacy-enabled call transmission, your radio must be programmed to have the same Key Value and Key ID (for Enhanced Privacy) as the transmitting radio.

If your radio receives a scrambled call that is of a different Key Value and Key ID, you hear nothing at all (Enhanced Privacy).

If the radio has a privacy type assigned, the Home screen shows the Secure or Unsecure icon, except

when the radio is sending or receiving an Emergency call or alarm.

The LED lights up solid green while the radio is transmitting and blinks green rapidly when the radio is receiving an ongoing privacy-enabled transmission.

You can access this feature by performing one of the following actions:

- Pressing the programmed **Privacy** button to toggle privacy on or off.
- Using the Radio Menu as described by the steps described next.



Note:

Some radio models may not offer this Privacy feature. Check with your dealer or system administrator for more information.

- 1 to access the menu.
- 2  or  to Utilities and press  to select.
- 3  or  to Radio Settings or  or  to Connect Plus and press  to select.

- 4  or  to Enhanced Privacy.

If the display shows Turn On, press  to enable Privacy. The radio displays a message confirming your selection.

If the display shows Turn Off, press  to disable Privacy. The radio displays a message confirming your selection.

If the radio has a privacy type assigned, the secure or unsecure icon appears on the status bar, except when the radio is sending or receiving an Emergency Alert.

Making a Privacy-Enabled (Scrambled) Call

Toggle privacy on using the programmed privacy button or by using the menu. Your radio must have the Privacy feature enabled for the currently selected channel position to send a privacy-enabled transmission. When privacy is enabled for the currently selected channel position, all voice transmissions made by your radio will be scrambled. This includes Group Call, Multigroup Call, talk-back during scanned calls, Site All Call, Emergency Call, and Private Call. Only receiving radios with the same

Key Value and Key ID as your radio will be able to unscramble the transmission.

Covert Mode

Your radio is capable of Covert Mode. During covert mode, all keypad and programmed button access are blocked. When enabled, all visual indications (display, LED's and backlight) are disabled.

This feature allows audio or tone only via a wired accessory or a Bluetooth accessory.

Entering Covert Mode

Press the  button followed by the 2, 5, and 8 numeric keys in tandem in home screen.

Exiting Covert Mode

To exit Covert Mode, do one of the following:

- Press the  button followed by the 2, 5, and 8 numeric keys in tandem. Radio will go back to normal mode.
- Power cycle the radio via the On/Off button.

Security

You can enable or disable any radio in the system. For example, you might want to disable a stolen radio, to prevent the thief from using it, and enable that radio, when it is recovered.



Note:

Performing Radio Disable and Enable is limited to radios with these functions enabled. Check with your dealer or system administrator for more information.

Radio Disable

- 1 Access this feature by

Radio Controls	Steps
Radio Disable button	1 Press the programmed Radio Disable button.
	2  or  to the required alias or ID and press  to select.
Radio menu	1  to access the menu.

Radio Controls	Steps
	2 ▲ or ▼ to Contacts and press  to select. The entries are alphabetically sorted. 3 Use one of the steps described next to select the required subscriber alias or ID: • Select the required alias or ID directly. • ▲ or ▼ to the required alias or ID and press  to select. • Use the Manual Dial menu • ▲ or ▼ to Manual Dial and press  to select. • ▲ or ▼ to Radio Number and press  to select.

Radio Controls	Steps
	• The first line of the display shows Radio Number:. The second line of the display shows a blinking cursor. Use the keypad to enter the subscriber alias or ID and press . 4 ▲ or ▼ to Radio Disable and press  to select.

The display shows **Radio Disable: <Target Alias or ID>** and the LED blinks green.

2 Wait for acknowledgement.

If successful, a positive indicator tone sounds and the display shows **Radio Disable Successful**.

If not successful, a negative indicator tone sounds and the display shows **Radio Disable Failed**.

Radio Enable

1 Access this feature by

Radio Controls	Steps
Radio Enable button	1 Press the programmed Radio Enable button. 2 ▲ or ▼ to the required alias or ID and press  to select.
Radio menu	1  to access the menu. 2 ▲ or ▼ to Contacts and press  to select. The entries are alphabetically sorted. 3 Use one of the steps described next to select the required subscriber alias or ID • Select the required alias or ID directly.

Radio Controls	Steps
	• ▲ or ▼ to the required alias or ID and press  to select. • Use the Manual Dial menu • ▲ or ▼ to Manual Dial and press  to select. • ▲ or ▼ to Radio Number and press  to select. • The first line of the display shows Radio Number:. The second line of the display shows a blinking cursor. Use the keypad to enter the subscriber alias or ID and press . 4 ▲ or ▼ to Radio Enable and press  to select.

The display shows `Radio Enable: <Subscriber Alias or ID>` and the LED lights up solid green.

2 Wait for acknowledgement.

If successful, a positive indicator tone sounds and the display shows `Radio Enable Successful`.

If not successful, a negative indicator tone sounds and the display shows `Radio Enable Failed`.

Password Lock Features

If enabled, this feature only allows you access your radio if the correct password is entered upon powering up.

Accessing the Radio from Password

- 1 Power up the radio.
The radio sounds a continuous tone.
- 2 Do one of the following:
 - Enter your current four-digit password with the radio's keypad. The display shows `••••`. Press  to proceed.

- Enter your current four-digit password. Press  or  to edit each digit's numeric value.

Each digit changes to `•`. Press  to move to next digit. Press  to confirm your selection.

You hear a positive indicator tone for every digit entered. Press  to remove each `•` on the display. The radio sounds a negative indicator tone, if you press  when the line is empty, or if you press more than four digits.

If the password is correct, the radio proceeds to power up. See [Powering Up the Radio](#) on page 18.

If the password is incorrect, the display shows `Wrong Password`. Repeat Step 2.

After the third incorrect password, the display shows `Wrong Password` and then, shows `Radio Locked`. A tone sounds and the LED double blinks yellow.



Note:

The radio is unable to receive any call, including emergency calls, in locked state.

Turning the Password Lock On or Off

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to Passwd Lock and press  to select.

- 5 Enter the four-digit password.
See Step 2 in [Accessing the Radio from Password](#) on page 185.

- 6 Press  to proceed.
If the password is incorrect, the display shows Wrong Password, and automatically returns to the previous menu.

- 7 If the password entered in the previous step is correct, press  to enable/disable password lock.

The display shows  beside Enabled.

The  disappears from beside Enabled.

Unlocking the Radio from Locked State

- 1 If your radio was powered down after being in the locked state, power up the radio.
A tone sounds and the LED double blinks yellow.
The display shows Radio Locked.

- 2 Wait for 15 minutes.
Your radio restarts the 15 minutes timer for locked state when you power up.

- 3 Repeat Steps 1 and 2 in [Accessing the Radio from Password](#) on page 185.

Changing the Password

- 1  to access the menu.

- 2 ▲ or ▼ to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Settings and press  to select.

- 4 ▲ or ▼ to Passwd Lock and press  to select.

- 5 Enter the four-digit password.
See Step 2 in [Accessing the Radio from Password](#) on page 185.

- 6 Press  to proceed.
If the password is incorrect, the display shows Wrong Password, and automatically returns to the previous menu.

- 7 If the password entered in the previous step is correct, ▲ or ▼ to Change Pwd and press  to select.

- 8 Enter a new four-digit password.

See Step 2 in [Accessing the Radio from Password](#) on page 185.

- 9 Reenter the previously entered four-digit password. See Step 2 in [Accessing the Radio from Password](#) on page 185.

- 10 Press  to proceed.

If the reentered password matches the new password entered earlier, the display shows Password Changed.

If the reentered password does **NOT** match the new password entered earlier, the display shows Passwords Do Not Match.

The screen automatically returns to the previous menu.

Bluetooth Operation



Note:

If disabled via the CPS, all Bluetooth-related features are disabled and the Bluetooth device database is erased.

This feature allows you to use your radio with a Bluetooth-enabled device (accessory) via a wireless Bluetooth connection. Your radio supports both Motorola and COTS (Commercially available Off-The-Shelf) Bluetooth-enabled devices.

Bluetooth operates within a range of 10 meters (32 feet) line of sight. This is an unobstructed path between your radio and your Bluetooth-enabled device.

It is not recommended that you leave your radio behind and expect your Bluetooth-enabled device to work with a high degree of reliability when they are separated.

At the fringe areas of reception, both voice and tone quality will start to sound “garbled” or “broken”. To correct this problem, simply position your radio and Bluetooth-enabled device closer to each other (within the 10-meter/32 feet defined range) to re-establish clear audio reception. Your radio’s Bluetooth function has a maximum power of 2.5 mW (4 dBm) at the 10-meter/32 feet range.

Your radio can support up to 4 simultaneous Bluetooth connections with Bluetooth-enabled devices of unique types. For example, a headset, and a PTT-Only Device (POD). Multiple connections with

Bluetooth-enabled devices of the same type are not supported.

Refer to your respective Bluetooth-enabled device’s user manual for more details on your Bluetooth-enabled device’s full capabilities.

Turning Bluetooth On and Off

- 1  to access the menu.

- 2  or  to Bluetooth and press  to select.

- 3  or  to My Status and press  to select. The display shows On and Off. The current status is indicated by a .

- 4 Do one of the following:
 -  or  to On and press  to select. The display shows On and a  appears left of the selected status.
 -  or  to Off and press  to select. The display shows Off and a  appears left of the selected status.

Finding and Connecting to a Bluetooth Device

Do not turn off your Bluetooth-enabled device or press  during the finding and connecting operation as this cancels the operation.

- 1 Turn on your Bluetooth-enabled device and place it in pairing mode. Refer to respective Bluetooth-enabled device's user manual.

- 2 On your radio, press  to access the menu.

- 3  or  to Bluetooth and press  to select.

- 4  or  to Devices and press  to select.

- 5 Do one of the following:
 -  or  to the required device and press  to select.
 -  or  to Find Devices to locate available devices.  or  to the required device and press  to select.

- 6  or  to Connect and press  to select. Display shows Connecting to <Device>. Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to respective Bluetooth-enabled device's user manual.

If successful, the radio display shows <Device>Connected. A tone sounds and  appears besides the connected device. The Bluetooth Connected icon appears on the status bar.

If unsuccessful, the radio display shows Connecting Failed.

Finding and Connecting from a Bluetooth Device (Discoverable Mode)

Do not turn off your Bluetooth or your radio during the finding and connecting operation as this may cancel the operation.

- 1 Turn Bluetooth On.
See [Turning Bluetooth On and Off](#) on page 188.

- 2  to access the menu.

3 ▲ or ▼ to Bluetooth and press  to select.

4 ▲ or ▼ to Find Me and press  to select.
Your radio can now be found by other Bluetooth-enabled devices for a programmed duration. This is called Discoverable Mode.

5 Turn on your Bluetooth-enabled device and pair it with your radio.
Refer to respective Bluetooth-enabled device's user manual.

Disconnecting from a Bluetooth Device

1 On your radio, press  to access the menu.

2 ▲ or ▼ to Bluetooth and press  to select.

3 ▲ or ▼ to Devices and press  to select.

4 ▲ or ▼ to the required device and press  to select.

5 ▲ or ▼ to Disconnect and press  to select.
Display shows Disconnecting from <Device>. Your Bluetooth-enabled device may require additional steps to disconnect. Refer to respective Bluetooth-enabled device's user manual.

The radio display shows <Device> Disconnected. A positive indicator tone sounds and ✓ disappears beside the connected device. The Bluetooth Connected icon disappears on the status bar.

Switching Audio Route between Internal Radio Speaker and Bluetooth Device

You can toggle audio routing between internal radio speaker and external Bluetooth-enabled accessory.

Press the programmed **Bluetooth Audio Switch** button.

- A tone sounds and display shows Route Audio to Radio.
- A tone sounds and display shows Route Audio to Bluetooth.

Viewing Device Details

- 1  to access the menu.

- 2  or  to Bluetooth and press  to select.

- 3  or  to Devices and press  to select.

- 4  or  to the required device and press  to select.

- 5  or  to View Details and press  to select.

Editing Device Name

You can edit the name of available Bluetooth-enabled devices.

- 1  to access the menu.

- 2  or  to Bluetooth and press  to select.

- 3  or  to Devices and press  to select.

- 4  or  to the required device and press  to select.

- 5  or  to Edit Name and press  to select.

- 6 Press  to move one space to the left. Press  to move one space to the right. Press  to delete any unwanted characters. Long press  to change text entry method.
A blinking cursor appears. Use the keypad to type the required zone.

- 7 The display shows Device Name Saved.

Deleting Device Name

You can remove a disconnected device from the list of Bluetooth-enabled devices.

- 1  to access the menu.

2 ▲ or ▼ to Bluetooth and press  to select.

3 ▲ or ▼ to Devices and press  to select.

4 ▲ or ▼ to the required device and press  to select.

5 ▲ or ▼ to Delete and press  to select.
The display shows `Device Deleted`.

Bluetooth Mic Gain

Allows control of the connected Bluetooth-enabled device's microphone gain value.

1  to access the menu.

2 ▲ or ▼ to Bluetooth and press  to select.

3 ▲ or ▼ to BT Mic Gain and press  to select.

4 ▲ or ▼ to the BT Mic Gain type and the current values.

To edit values, press  to select.

5 ▲ or ▼ to increase or to decrease values and press  to select.

Permanent Bluetooth Discoverable Mode



Note:

The Permanent Bluetooth Discoverable Mode can only be enabled via the MOTOTRBO CPS. If enabled, the Bluetooth item will **not** be displayed in the Menu and you will **not** be able to use any Bluetooth programmable button features.

Other Bluetooth-enabled devices can locate your radio, but the devices cannot connect to the radio. It enables dedicated devices to use your radio position in the process of Bluetooth-based location.

Indoor Location



Note:

Indoor Location feature is applicable for models with the latest software and hardware. Check with your dealer or system administrator for more information.

Indoor Location can be used to keep track of radio users location while indoors. When Indoor Location is activated, the radio is in a limited discoverable mode. Dedicated beacons are used to locate the radio and determine its position.

Turning Indoor Location On or Off

You can turn on or turn off Indoor Location by performing one of the following actions.

- Access this feature via the menu.
 - a) Press  to access the menu.
 - a) Press  or  to Bluetooth and press  to select.
 - a) Press  or  to Indoor Location and press  to select.
 - b) Press  to turn on Indoor Location.
The display shows Indoor Location On. You hear a good key tone.
One of the following scenarios occurs.
 - If successful, the Indoor Location Available icon appears on the Home screen display.

- If unsuccessful, the display shows Turning On Failed. You hear a bad key tone.

- c) Press  to turn off Indoor Location.
The display shows Indoor Location Off.
You hear a good key tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon disappears on the Home screen display.
- If unsuccessful, the display shows Turning Off Failed. You hear a bad key tone.

-
- Access this feature via the programmed button.
 - a) Long press the programmed **Indoor Location** button to turn on Indoor Location.
The display shows Indoor Location On. You hear a positive tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon appears on the Home screen display.
- If unsuccessful, the display shows Turning On Failed. If unsuccessful, you hear a negative tone.

- b) Press the programmed **Indoor Location** button to turn off Indoor Location.
The display shows **Indoor Location Off**.
You hear a positive tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon disappears on the Home screen display.
- If unsuccessful, the display shows **Turning Off Failed**. If unsuccessful, you hear a negative tone.

Accessing Indoor Location Beacons Information

Displays information on Indoor Location Beacons.

- 1 Press  to access the menu.
- 2 Press  or  to **Bluetooth** and press  to select.
- 3 Press  or  to **Indoor Location** and press  to select.

- 4 Press  or  to **Beacons** and press  to select.

The display shows the beacons information.

Notification List

Your radio has a Notification List that collects all your “unread” events on the channel, such as unread text messages, missed calls, and call alerts.

The Notification icon appears on the status bar when the Notification List has one or more events.

The list supports a maximum of forty (40) unread events. When it is full, the next event automatically replaces the oldest event.



Note:

After the events are read, they are removed from the Notification List.

Accessing the Notification List

- 1  to access the menu.

- 2 ▲ or ▼ to Notification and press  to select.

- 3 ▲ or ▼ to the required event and press  to select.

Long press  to return to the Home Screen.

Wi-Fi Operation

Wi-Fi® is a registered trademark of Wi-Fi Alliance®.



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

This feature allows you to setup and connect to a Wi-Fi® network. Wi-Fi supports updates for radio firmware, codeplug, and resources such as language packs and voice announcement.

Turning Wi-Fi On or Off



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

The programmed **Wi-Fi On or Off** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can turn on or turn off Wi-Fi® by performing one of the following actions.

- Press the programmed **Wi-Fi On or Off** button. Voice Announcement sounds Turning On Wi-Fi or Turning Off Wi-Fi.
- Access this feature via the menu.
 - a) Press  to access the menu.
 - b) Press ▲ or ▼ to Wi-Fi and press  to select.
 - c) Press ▲ or ▼ to Wi-Fi Status and press  to select.

Press  to turn on Wi-Fi. The display shows ✓ beside Enabled.

Press  to turn off Wi-Fi. The ✓ disappears from beside Enabled.

If Wi-Fi is enabled and a low capacity battery is used, an alert screen is displayed upon power up with the following notice.

- Low Capacity Battery!
- Tx power restricted to 2W and Wi-Fi disabled.
- Use a compatible battery to lift restriction.
- Press  to continue.

Lift the restriction to enable 3W operation and Wi-Fi by performing the following action. Power off the radio and change to a compatible battery such as Lithium-Ion 1800 mAh Battery Pack (HKNN4013_), Lithium-Ion 2200 mAh Battery Pack (PMNN4459_) or Lithium-Ion 2300mAh Battery Pack (PMNN4468_).

If Wi-Fi is disabled and a low capacity battery is used, the transmit power is restricted to 2W.

Connecting to a Network Access Point



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

When you turn on Wi-Fi®, the radio scans and connects to a network access point.

You can also connect to a network access point via the menu.

- 1 Press  to access the menu.
- 2 Press  or  to WiFi and press  to select.
- 3 Press  or  to Networks and press  to select.
- 4 Press  or  to a network access point and press  to select.
- 5 Press  or  to Connect and press  to select.
- 6 Enter the password and press . When the connection is successful, the radio displays a notice and the network access point is saved into the profile list.

Refreshing the Network List



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

- Perform the following actions to refresh the network list.
 - a) Press to access the menu.
 - b) Press or to **WiFi** and press to select.
 - c) Press or to **Networks** and press to select.
When you enter the Networks menu, the radio automatically refreshes the network list.
-
- If you are already in the Networks menu, perform the following action to refresh the network list.
 - a) Press or to **Refresh** and press to select.

The radio refreshes and displays the latest network list.

Adding a Network



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

If a preferred network is not in the available network list, perform the following actions to add a network.

- 1 Press to access the menu.
-
- 2 Press or to **WiFi** and press to select.
-
- 3 Press or to **Networks** and press to select.
-
- 4 Press or to **Add Network** and press to select.
-
- 5 Enter the Service Set Identifier (SSID) and press .
-
- 6 Press or to **Open** and press to select.

- 7 Enter the password and press .
The radio displays  to indicate that the network is successfully saved.

Viewing Details of Network Access Points



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

Perform the following actions to view details of network access points.

- 1 Press  to access the menu.
- 2 Press  or  to **WiFi** and press  to select.
- 3 Press  or  to **Networks** and press  to select.
- 4 Press  or  to a network access point and press  to select.

- 5 Press  or  to **View Details** and press  to select.

For a connected network access point, the Service Set Identifier (SSID), Security Mode, Media Access Control (MAC) address, and Internet Protocol (IP) address are displayed.

For a non-connected network access point, the Service Set Identifier (SSID) and Security Mode are displayed.

Removing Network Access Points



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only. Enterprise network access points that are added via CPS can only be removed via CPS.

Perform the following actions to remove network access points from the profile list.

- 1 Press  to access the menu.
- 2 Press  or  to **WiFi** and press  to select.

- 3 Press ▲ or ▼ to **Networks** and press  to select.

- 4 Press ▲ or ▼ to the selected network access point and press  to select.

- 5 Press ▲ or ▼ to **Remove** and press  to select.

- 6 Press ▲ or ▼ to **Yes** and press  to select.
The radio displays  to indicate that the selected network access point is successfully removed.

Utilities

Turning the Radio Tones/Alerts On or Off

You can enable and disable all radio tones and alerts (except for the incoming Emergency alert tone) if needed.

Press the programmed **All Tones/Alerts** button to toggle all tones on or off, or follow the procedure

described next to access this feature via the radio menu.

- 1  to access the menu.

- 2 ▲ or ▼ to **Utilities** and press  to select.

- 3 ▲ or ▼ to **Radio Settings** and press  to select.

- 4 ▲ or ▼ to **Tones/Alerts** and press  to select.

- 5 ▲ or ▼ to **All Tones** and press  to select.

- 6 Press  to enable/disable all tones and alerts.
The display shows  beside **Enabled**.
The  disappears from beside **Enabled**.

Turning Keypad Tones On or Off

You can enable and disable keypad tones if needed.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to Tones/Alerts and press  to select.

- 5  or  to Keypad Tones and press  to select.

You can also use  or  to change the selected option.

- 6 Press  to enable/disable keypad tones.
The display shows  beside Enabled.
The  disappears from beside Enabled.

Setting the Tone Alert Volume Offset Level

You can adjust the Tone Alert Volume Offset level if needed. This feature adjusts the volume of the tones/alerts, allowing it to be higher or lower than the voice volume.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to Tones/Alerts and press  to select.

- 5  or  to Vol. Offset and press  to select.

- 6  or  to the required volume value.
The radio sounds a feedback tone with each corresponding volume value.

- 7 Do one of the following:

- Press  to keep the required displayed volume value.
- Press  to exit without changing the current volume offset settings.
- Repeat Step 6 to select another volume value.

Turning the Talk Permit Tone On or Off

You can enable and disable the Talk Permit Tone if needed.

- 1  to access the menu.
- 2  or  to Utilities and press  to select.
- 3  or  to Radio Settings and press  to select.
- 4  or  to Tones/Alerts and press  to select.
- 5  or  to Talk Permit and press  to select.

You can also use  or  to change the selected option.

- 6 Press  to enable/disable the Talk Permit Tone.
The display shows  beside Enabled.
The  disappears from beside Enabled.

Setting the Power Level



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only with a frequency band width of 403MHz–470MHz or 470.000005MHz–527MHz. Select the value of high transmit power in CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

You can customize your radio's power setting to high or low for each Connect Plus zone.

High enables communication with tower sites in Connect Plus mode located at a considerable distance from you. Low enables communication with tower sites in Connect Plus mode in closer proximity.

Follow the procedure described next to access this feature via the radio menu.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities and press  to select.

- 3 Press  or  to Radio Settings and press  to select.

- 4 Press  or  to Power and press  to select.

- 5 Press  or  to the required setting and press  to select.
 appears beside selected setting. At any time, long press  to return to the Home screen. Screen returns to the previous menu.

Changing the Display Mode

You can change radio's display mode between Day or Night, as needed. This affects the color palette of the display.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to Display and press  to select. The display shows Day Mode and Night Mode.
 **Note:**
 or  to change the selected option.

- 5  or  to the required setting and press  to enable.  appears besides selected setting.

Adjusting the Display Brightness

You can adjust the display brightness of the radio as needed.

-  **Note:**
 Display brightness cannot be adjusted when Auto Brightness is enabled.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to Display and press  to select.

- 5  or  to Brightness and press  to select.
The display shows a progress bar.

- 6 Decrease display brightness by pressing  or increase the display brightness by pressing .
Select from setting of 1 to 8. Press  to confirm your entry.

Setting the Display Backlight Timer

You can set the the radio's display backlight timer as needed. The setting also affects the Menu Navigation Buttons and keypad backlighting accordingly.

Press the programmed **Backlight** button to toggle the backlight settings, or follow the procedure described next to access this feature via the radio menu.

The display backlight and keypad backlighting are automatically turned off if the LED indicator is disabled (see [Turning the LED Indicator On or Off](#) on page 205).

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to Display and press  to select.

- 5  or  to Backlight Timer and press  to select.

You can use  or  to change the selected option.

Locking and Unlocking the Keypad

You can lock your radio's keypad to avoid inadvertent key entry.

To lock/unlock your radio's keypad.

Option	Steps
Locking the Keypad	1  to access the menu. 2  or  to Utilities and press  to select. 3  or  to Radio Settings and press  to select. 4  or  to Keypad Lock and press  to select. You can also use  or  to change the selected option.
Unlocking the Keypad	Press  followed by  .

After the keypad is locked, the display shows Keypad Locked and returns to the Home screen.

After the keypad is unlocked, the display shows Keypad Unlocked and returns to the Home screen.

Language

You can set your radio display to be in your required language.

- 1  to access the menu.

2  or  to Utilities and press  to select.

3  or  to Radio Settings and press  to select.

4  or  to Languages and press  to select.

5  or  to the required language and press  to enable. ✓ appears beside selected language.

Turning the LED Indicator On or Off

You can enable and disable the LED Indicator if needed.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to LED Indicator and press  to select.

You can also use  or  to change the selected option.

- 5 Press  to enable/disable the LED Indicator.
The display shows  beside Enabled.
The  disappears from beside Enabled.

Identifying Cable Type

You can select the type of cable your radio uses.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

- 4  or  to Cable Type and press  to select.

You can also use  or  to change the selected option.

- 5 The current cable type is indicated by a .

Voice Announcement

This feature enables the radio to audibly indicate the current Zone or Channel the user has just assigned, or programmable button press. This audio indicator can be customized per customer requirements. This is typically useful when the user is in a difficult condition to read the content shown on the display.

- 1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Voice Announcement and press  to select.

You can also use ◀ or ▶ to change the selected option.

5 Do one of the following:

- Press  to enable Voice Announcement. The display shows ✓ beside Enabled.
 - Press  to disable Voice Announcement. The ✓ disappears from beside Enabled.
-

Setting the Text-to-Speech Feature



Note:

The Text-to-Speech feature can only be enabled via the MOTOTRBO Customer Programming Software. If enabled, the Voice Announcement feature is automatically

disabled, and vice versa. Check with your dealer or system administrator for more information.

This feature enables the radio to audibly indicate the following features:

- Current Channel
 - Current Zone
 - Programmed button feature on or off
 - Content of received text messages
-
- Press the programmed **Voice Announcement** button to toggle this feature on or off.
-
- This audio indicator can be customized per customer requirements. This is typically useful when the user is in a difficult condition to read the content shown on the display.
 - a)  to access the menu.
 - b) ▲ or ▼ to Utilities and press  to select.
 - c) ▲ or ▼ to Radio Settings and press  to select.

d) ▲ or ▼ to Voice Announce and press  to select.

e) ▲ or ▼ to Messages or Program Button and press  to select.

You can also use ◀ or ▶ to change the selected option.

✓ appears beside the selected setting.

Wallpaper Mode

Your radio displays the Wallpaper background on home screen. The user can select from 5 default wallpapers.

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Display and press  to select.

5 ▲ or ▼ to Wallpaper and press  to select.

You can also use ◀ or ▶ to change the selected option.

Screen Saver Mode

The screen saver feature allows the radio to save radio battery time. A Screen Saver Pre Duration is used to track the radio activities before entering screen saver mode.

Radio starts Screen Saver Pre Duration upon power up. Radio enters into screen saver mode when Screen Saver Pre Duration timer expires, the radio exits screen saver mode and responds to related transaction normally upon any user input and over the air transaction.

Radio restarts Screen Saver Pre Duration upon any user input and over the air transaction. After being in Screen Saver mode for 5 seconds, radio enters keypad lock state automatically. When any audio or Bluetooth accessory is connected, battery saver mode is enabled, radio enters screen saver mode.

If there is any user input or over the air transaction, the radio exits screen saver mode and responds to user interaction. The Screen Saver Pre Duration is restarted and the radio goes back to screen saver mode when it expires.



Note:

The screen saver mode is to help improve battery life.

Audio Accessory

The audio accessory has two modes: Normal and Battery Saver mode. When audio accessory is plugged in and the setting is in Battery Saver Mode, the radio restarts the timer and goes into screen saver mode. In this scenario, when there is any user input (including user input on radio and accessory attachment/detachment) or when receiving emergency alarm/call, the radio exits screen saver mode and responds to user event as normal. The Screen Saver timer restarts and the radio goes back to screen saver mode when the time allocated expires.

Auto Keypad Lock

You can enable/disable your radio's auto keypad lock to avoid inadvertent key entry.

- 1 to access the menu.

- 2 or to Utilities and press to select.

- 3 or to Radio Settings and press to select.

- 4 or to Auto Keypad Lock and press to select.

- 5 Do one of the following:
 - Press to enable Auto Keypad Lock. The display shows beside Enabled.
 - Press to disable Auto Keypad Lock. The disappears from beside Enabled.

Digital Mic AGC (Mic AGC-D)

This feature controls the your radio's microphone gain automatically while transmitting on a digital system. It suppresses loud audio or boosts soft audio to a preset value in order to provide a consistent level of audio.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Settings and press  to select.

You can also use  or  to change the selected option.

- 4  or  to Mic AGC-D and press  to select.

- 5 Do one of the following:
 - Press  to enable **Mic AGC-D**. The display shows  beside Enabled.
 - Press  to disable **Mic AGC-D**. The  disappears from beside Enabled.

Intelligent Audio

Your radio can automatically adjust its audio volume to overcome background noise in the environment, inclusive of all stationary and non-stationary noise

sources. This feature is a Receive-only feature and does not affect Transmit audio.



Note:

This feature is not applicable during a Bluetooth session.

- 1  to access the menu.

Radio Steps Con- trol

- | Menu | Steps |
|------|--|
| | 1  to access the menu. |
| | 2  or  to Radio Settings and press  to select. |
| | 3  or  to Radio Settings and press  to select. |
| | 4  or  to Intelligent Audio and press  to select. |

Radio Steps Control



Note:

You can also use ◀ or ▶ to change the selected option.

5 Do one of the following:

- Press  to enable Intelligent Audio. The display shows ✓ beside Enabled.
- Press  to disable Intelligent Audio. The ✓ disappears from beside Enabled.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Intelligent Audio and press  to select.

5 Do one of the following:

- Press  to enable Intelligent Audio. The display shows ✓ beside Enabled.
- Press  to disable Intelligent Audio. The ✓ disappears from beside Enabled.

See [Authorized Accessories List](#) on page 353 for recommended Bluetooth-enabled audio accessories with in-built Automatic Volume Control for similar performance.

Turning the Acoustic Feedback Suppressor Feature On or Off

This feature allows you to minimize acoustic feedback in received calls.

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

- 4 ▲ or ▼ to AF Suppressor and press  to select.

You can also use ◀ or ▶ to change the selected option.

- 5 Do one of the following.

- Press  to enable Acoustic Feedback Suppressor. The display shows ✓ beside Enabled.
- Press  to disable Acoustic Feedback Suppressor. The ✓ disappears from beside Enabled.

Text Entry Configuration

You can configure the following settings for entering text on your radio:

- Word Predict
- Word Correct
- Sentence Cap
- My Words

Your radio supports the following text entry methods:

- Numbers
- Symbols
- Predictive or Multi-Tap
- Language (If programmed)



Note:

Press  at any time to return to the previous screen or long press  to return to the Home Screen. The radio exits the current screen once the inactivity timer expires.

Word Predict

Your radio can learn common word sequences that you often enter. It then predicts the next word you may want to use after you enter the first word of a common word sequence into the text editor.

- 1  to access the menu.
- 2 ▲ or ▼ to Utilities and press  to select.
- 3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Text Entry and press  to select.

5 ▲ or ▼ to Word Predict and press  to select.

You can also use ◀ or ▶ to change the selected option.

6 Do one of the following:

- Press  to enable Word Predict. The display shows ✓ beside Enabled.
 - Press  to disable Word Predict. The ✓ disappears from beside Enabled.
-

Word Correct

Supplies alternative word choices when the word entered into the text editor is not recognized by the built dictionary.

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Text Entry and press  to select.

5 ▲ or ▼ to Word Correct and press  to select.

You can also use ◀ or ▶ to change the selected option.

6 Do one of the following:

- Press  to enable Word Correct. The display shows ✓ beside Enabled.
 - Press  to disable Word Correct. The ✓ disappears from beside Enabled.
-

Sentence Cap

Automatically enables capitalization for the first letter in the first word for every new sentence.

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Text Entry and press  to select.

5 ▲ or ▼ to Sentence Cap and press  to select.

6 Do one of the following:

- Press  to enable Sentence Cap. The display shows ✓ beside Enabled.
- Press  to disable Sentence Cap. The ✓ disappears from beside Enabled.

Viewing Custom Words

You can add your own custom words into your radio's in-built dictionary. Your radio maintains a list to contain these words.

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Text Entry and press  to select.

5 ▲ or ▼ to My Words and press  to select.

6 ▲ or ▼ to List of Words and press  to select.
Display shows the list of custom words.

Editing Custom Word

You can edit the custom words saved in your radio.

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Settings and press  to select.

- 4 ▲ or ▼ to Text Entry and press  to select.

- 5 ▲ or ▼ to My Words and press  to select.

- 6 ▲ or ▼ to List of Words and press  to select.
Display shows the list of custom words.

- 7 ▲ or ▼ to the required word and press  to select.

- 8 ▲ or ▼ to Edit and press  to select.

- 9 Use the keypad to edit your custom word.
Press  to move one space to the left. Press  or the  key to move one space to the right.
Press the  key to delete any unwanted characters. Long press  to change text entry

method. Press  once your custom word is completed.

The display shows transitional mini notice, confirming your custom word is being saved.

If the custom word is saved, a tone sounds and the display shows positive mini notice.

If the custom word is not saved, a low tone sounds and the display shows negative mini notice.

Adding Custom Word

You can add your own custom words into your radio's in-built dictionary.

- 1  to access the menu.

- 2 ▲ or ▼ to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Settings and press  to select.

- 4 ▲ or ▼ to Text Entry and press  to select.

5 ▲ or ▼ to My Words and press  to select.

6 ▲ or ▼ to Add New Word and press  to select.

Display shows the list of custom words.

7 Use the keypad to edit your custom word.

Press  to move one space to the left. Press  or the  key to move one space to the right.

Press the  key to delete any unwanted characters. Long press  to change text entry method. Press  once your custom word is completed.

The display shows transitional mini notice, confirming your custom word is being saved.

If the custom word is saved, a tone sounds and the display shows positive mini notice.

If the custom word is not saved, a low tone sounds and the display shows negative mini notice.

Deleting a Custom Word

You can delete the custom words saved in your radio.

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Settings and press  to select.

4 ▲ or ▼ to Text Entry and press  to select.

5 ▲ or ▼ to My Words and press  to select.

6 ▲ or ▼ to the required word and press  to select.

7 ▲ or ▼ to Delete and press  to select.

8 Choose one of the following.

- At Delete Entry?, press  to select Yes. The display shows Entry Deleted.

- ▲ or ▼ to No and press  to return to the previous screen.

Deleting All Custom Words

You can delete all custom words from your radio's in-built.

- 1  to access the menu.
- 2 ▲ or ▼ to Utilities and press  to select.
- 3 ▲ or ▼ to Radio Settings and press  to select.
- 4 ▲ or ▼ to Text Entry and press  to select.
- 5 ▲ or ▼ to My Words and press  to select.
- 6 ▲ or ▼ to Delete All and press  to select.
- 7 Choose one of the following.

- At Delete Entry?, press  to select Yes. The display shows Entry Deleted.
- ▲ or ▼ to No and press  to return to the previous screen.

Accessing General Radio Information

Your radio contains information on the following:

- Battery
- Degree of Tilt (Accelerometer)
- Radio Model Number Index
- Option Board Over-the-Air (OTA) Codeplug CRC
- Site Number
- Site Info
- Radio Alias and ID
- Firmware and Codeplug Versions
- Open-Source Software Information

Press  at any time to return to the previous screen or long press  to return to the Home screen. The radio exits the current screen once the inactivity timer expires.

Accessing the Battery Information

Displays information on your radio battery.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Info and press  to select.

- 4  or  to Battery Info and press  to select.

The display shows the battery information.

For **IMPRES** batteries **ONLY**: The display reads Recondition Battery if the battery requires reconditioning in an IMPRES charger. After the reconditioning process, the display then shows the battery information.

Checking the Radio Model Number Index

This index number identifies your radio's model-specific hardware. Your radio system administrator may ask for this number when preparing a new Option Board codeplug for your radio.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Info and press  to select.

- 4  or  to Model Index and press  to select.
The display shows the Model Number Index.

Checking the CRC of the Option Board OTA Codeplug File

Follow the instructions below if your radio system administrator asks you to view the Option Board OTA Codeplug File CRC (Cyclic Redundancy Check). This menu option only appears if the Option Board received its last codeplug update OTA.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

3 ▲ or ▼ to Radio Info and press  to select.

4 ▲ or ▼ to OE OTA CPorc and press  to select.

The display shows some letters and numbers.
Communicate this information to your radio system administrator exactly as shown.

Displaying the Site ID (Site Number)



Note:

If you are not currently registered at a site, the display shows Not Registered.

The radio briefly shows the Site ID as it registers with a Connect Plus site. Following registration, the radio does not generally indicate the Site number. To display the registered Site number, do the following:

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Info and press  to select.

4 ▲ or ▼ to Site Number and press  to select.

The display shows the Network ID and the Site Number.

Checking the Site Info



Note:

If you are not currently registered at a site, the display shows Not Registered.

The Site Info feature provides information that can be useful to a service technician. It consists of the following information:

- Repeater number of current Control Channel repeater.
- RSSI: Last signal strength value measured from Control Channel repeater.
- Neighbor List sent by Control Channel repeater (five numbers separated by commas).

If you are requested to use this feature, please report the displayed information exactly as it appears on the screen.

1  to access the menu.

- 2 ▲ or ▼ to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Info and press  to select.

- 4 ▲ or ▼ to Site Info and press  to select.
The display shows the Site Info.

Checking the Radio ID

This feature displays the ID of your radio.

Follow the procedure described next to access this feature via the radio screen.

- 1  to access the menu.

- 2 ▲ or ▼ to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Info and press  to select.

- 4 ▲ or ▼ to My ID and press  to select.
The display shows the radio ID.

Checking the Firmware Version and Codeplug Version

Displays the firmware version on your radio.

- 1  to access the menu.

- 2 ▲ or ▼ to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Info and press  to select.

- 4 ▲ or ▼ to Versions and press  to select.
The display a list with the following information:
 - (Radio) Firmware Version
 - (Radio) Codeplug Version
 - Option Board Firmware Version
 - Option Board Frequency Version
 - Option Board Hardware Version
 - Option Board Codeplug Version

Checking for Updates

Connect Plus provides the ability to update certain files (Option Board Codeplug, Network Frequency File and Option Board Firmware File) over-the-air.

**Note:**

Check with the dealer or network administrator to determine whether this feature has been enabled for your radio.

Any display Connect Plus radio has the ability to show its current Option Board OTA Codeplug CRC, Frequency File version or Option Board firmware file version via a menu option. In addition, display radios that have been enabled for over-the-air file transfer can display the version of a "pending file". A "pending file" is a Frequency File or Option Board firmware file that the Connect Plus radio knows about via system messaging, but the radio has not yet collected all of the file's packets. If a display Connect Plus radio has a pending file, the menu provides options to:

- See the version number of the pending file.
- See what percentage of packets has been collected so far.
- Request the Connect Plus radio to resume collecting file packets.

If the radio is enabled for Connect Plus over-the-air file transfer, there may be times when the radio automatically joins a file transfer without first notifying the radio user. While the radio is collecting file packets, the LED rapidly blinks red and the radio

displays the High Volume Data icon on the Home Screen status bar.

**Note:**

The Connect Plus radio cannot collect file packets and receive calls at the same time. If you wish to cancel the file transfer, press and release the **PTT** button. This causes the radio to request a call on the selected Contact Name, and it will also cancel the file transfer for that radio until the process resumes at a later time.

There are several things that can make the file transfer process start again. The first example applies to all over-the-air file types. The other examples apply only to the Network Frequency File and Option Board Firmware File:

- The radio system administrator re-initiates the over-the-air file transfer.
- The Option Board's pre-defined timer expires, which causes the Option Board to automatically resume the process of collecting packets.
- The timer has not yet expired, but the radio user requests the file transfer to resume via the menu option.

After the Connect Plus radio finishes downloading all file packets, it must upgrade to the newly acquired file. For the Network Frequency File, this is an automatic process and does not require a radio reset. For the Option Board Codeplug File, this is an automatic process that will cause a brief interruption to service as the Option Board loads the new codeplug information and re-acquires a network site. How quickly the radio upgrades to a new Option Board firmware file depends on how the radio has been configured by the dealer or system administrator. The radio will either upgrade immediately after collecting all file packets, or it will wait until the next time that the user turns the radio on.



Note:

Check with your dealer or system administrator to determine how your radio has been programmed.

The process of upgrading to a new Option Board firmware file takes several seconds, and it requires the Connect Plus Option Board to reset the radio. Once the upgrade starts, the radio use will not be able to make or receive calls until the process is completed.

Firmware File

Firmware Up to Date



Note:

If the Option Board firmware file is not Up to Date (and if the radio has partially collected a more recent Option Board firmware file version) the radio displays a list with additional options; Version, %Received, and Download.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Info and press  to select.

- 4  or  to Updates and press  to select.

- 5  or  to Firmware and press  to select.
The display shows *Firmware is Up to Date*.

Pending Firmware – Version

- 1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Info and press  to select.

4 ▲ or ▼ to Updates and press  to select.

5 ▲ or ▼ to Firmware and press  to select.

6 ▲ or ▼ to Version and press  to select.

If there is a pending Option Board firmware file, the display shows the pending firmware version number.

If there is a pending Option Board firmware file, the display shows Firmware is Up to Date.

Pending Firmware – % Received

1  to access the menu.

2 ▲ or ▼ to Utilities and press  to select.

3 ▲ or ▼ to Radio Info and press  to select.

4 ▲ or ▼ to Updates and press  to select.

5 ▲ or ▼ to Firmware and press  to select.

6 ▲ or ▼ to %Received and press  to select.
The screen displays the percentage of firmware file packets collected so far.



Note:

When at 100%, the radio needs to be power cycled Off and then On to initiate the firmware upgrade.

Pending Firmware – Download

If the Connect Plus radio has previously left an OTA Option Board Firmware File Transfer with a partial file, the unit automatically rejoins the file transfer (if still ongoing) when an internal timer expires. If you want the unit to rejoin an ongoing Option Board Firmware File transfer prior to expiration of this internal timer, use the Download option as described below.

- 1  to access the menu.

 - 2  or  to Utilities and press  to select.

 - 3  or  to Radio Info and press  to select.

 - 4  or  to Updates and press  to select.

 - 5  or  to Firmware and press  to select.

 - 6  or  to Download and press  to select.
The display shows the following:
- | | |
|-----------------------|------------------------|
| Download Available | Start Download |
| No Download Available | Download not available |
-
- 7 Do one of the following:
 - Select Yes and press  to start the download.
 - Select No and press  to return to the previous menu.
-

Frequency File

Frequency File Up to Date



Note:

If the Frequency File is not Up to Date (and if the radio has partially collected a more recent frequency file version) the radio displays a list with additional options; Version, %Received, and Download.

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3  or  to Radio Info and press  to select.

- 4  or  to Frequency and press  to select.
The display shows Freq. File is Up to Date.

Frequency File Pending – Version

- 1  to access the menu.

- 2  or  to Utilities and press  to select.

- 3 ▲ or ▼ to Radio Info and press  to select.
- 4 ▲ or ▼ to Updates and press  to select.
- 5 ▲ or ▼ to Frequency and press  to select.
- 6 ▲ or ▼ to Version and press  to select.
If there is a pending Frequency File, the display shows the pending Frequency File version number.

Frequency File Pending – % Received

- 1  to access the menu.
- 2 ▲ or ▼ to Utilities and press  to select.
- 3 ▲ or ▼ to Radio Info and press  to select.
- 4 ▲ or ▼ to Updates and press  to select.
- 5 ▲ or ▼ to %Received and press  to select.

The screen displays the percentage of frequency file packets collected so far.

Frequency File Pending – Download

If the Connect Plus radio has previously left an OTA Network Frequency File Transfer with a partial file, the unit automatically rejoins the file transfer (if still ongoing) when an internal timer expires. If you want the unit to rejoin an ongoing Network Frequency File transfer prior to expiration of this internal timer, use the Download option as described below.

- 1  to access the menu.
- 2 ▲ or ▼ to Utilities and press  to select.
- 3 ▲ or ▼ to Radio Info and press  to select.
- 4 ▲ or ▼ to Updates and press  to select.
- 5 ▲ or ▼ to Frequency and press  to select.
- 6 ▲ or ▼ to Download and press  to select.

Download Currently Unavailable	Download not avail- able
Download Currently Available	Start Download

7 Do one of the following:

- Select **Yes** and press to start the download.
 - Select **No** and press to return to the previous menu.
-



Other Systems

Other Systems

Push-To-Talk (PTT) Button

The **PTT** button serves two basic purposes.

- While a call is in progress, the **PTT** button allows the radio to transmit to other radios in the call. The microphone is activated when the **PTT** button is pressed.
- While a call is not in progress, the **PTT** button is used to make a new call.

You hear a continuous Talk Prohibit Tone if your call is interrupted, for example when the radio receives an Emergency call. You should release the **PTT** button.

Programmable Buttons

Depending on the duration of a button press, your dealer can program the programmable buttons as shortcuts to radio functions.

Short press Pressing and releasing rapidly.

Long press Pressing and holding for the programmed duration.



Note:

See [Emergency Operation](#) on page 292 for more information on the programmed duration of the **Emergency** button.

Assignable Radio Functions

The following radio functions can be assigned to the programmable buttons.

Actions	Provides access to the programmable action list of a Customer Programming Software (CPS).
Audio Ambience	Allows the user to select an environment the radio is operating in.
Audio Profiles	Allows the user to select the preferred audio profile.
Audio Toggle	Toggles audio routing between the internal radio

	speaker and the speaker of wired accessory.	Indoor Location	Toggles Indoor Location on or off.
Bluetooth® Audio Switch	Toggles audio routing between internal radio speaker and external Bluetooth-enabled accessory.	Intelligent Audio	Toggles intelligent audio on or off.
Contacts	Provides direct access to the Contacts list.	Job Tickets	Allows the user to view and act upon job tickets.
Call Alert	Provides direct access to the contacts list for you to select a contact to whom a Call Alert can be sent.	Manual Dial	Initiates a Private Call by keying in any subscriber ID.
Call Log	Selects the call log list.	Manual Site Roam^[5]	Starts the manual site search.
Channel Announcement	Plays zone and channel announcement voice messages for the current channel.	Mic AGC	Toggles the internal microphone automatic gain control (AGC) on or off.
Display Radio Alias	Displays the name of the radio.	Monitor	Monitors a selected channel for activity.
Emergency	Depending on the programming, initiates or cancels an emergency.	Notifications	Provides direct access to the Notifications list.
		Nuisance Channel Delete^[5]	Temporarily removes an unwanted channel, except for the Selected Channel, from the scan list. The Selected Channel refers to the selected

	zone or channel combination of the user from which scan is initiated.	Radio Enable	Allows a target radio to be remotely enabled.
One Touch Access	Directly initiates a predefined Private, Phone or Group Call, a Call Alert or a Quick Text message.	Radio Disable	Allows a target radio to be remotely disabled.
Option Board Feature	Toggles option board feature(s) on or off for option board-enabled channels.	Remote Monitor	Turns on the microphone of a target radio without it giving any indicators.
Permanent Monitor^[5]	Monitors a selected channel for all radio traffic until function is disabled.	Repeater/Talkaround^[5]	Toggles between using a repeater and communicating directly with another radio.
Phone	Provides direct access to the Phone Contacts list.	Ring Alert Type	Provides access to the Ring Alert Type Setting.
Power Battery Indicator	Displays the current status of the battery level.	Reset Home Channel	Sets a new home channel.
Privacy	Toggles privacy on or off.	Silence Home Channel Reminder	Mutes the Home Channel Reminder.
Radio Alias and ID	Provides radio alias and ID.	Scan ^[6]	Toggles scan on or off.
Radio Check	Determines if a radio is active in a system.	Site Info	Displays the current site name and ID of Capacity Plus-Multi-Site.

	Plays site announcement voice messages for the current site when Voice Announcement is enabled.	Trill Enhancement	Toggles trill enhancement on or off.
Site Lock^[5]	When toggled on, the radio searches the current site only. When toggled off, the radio searches other sites in addition to the current site.	Unassigned	Unassigned programmable button.
Telemetry Control	Controls the Output Pin on a local or remote radio.	Voice Announcement	Toggles voice announcement on or off.
Text Message	Selects the text message menu.	Voice Operating Transmission (VOX)	Toggles VOX on or off.
Vibrate Style	Configures the vibrate style.	Wi-Fi	Toggles Wi-Fi on or off.
Voice Interrupt	Interrupts the audio from a transmitting radio to free the channel.	Zone Selection	Allows selection from a list of zones.
Transmit Interrupt Remote Dekey	Stops an ongoing interruptible call to free the channel.		

⁵ Not applicable in Capacity Plus.

⁶ Not applicable in Capacity Plus--Single Site

Assignable Settings or Utility Functions

The following radio settings or utility functions can be assigned to the programmable buttons.

Tones/Alerts	Toggles all tones and alerts on or off.
Brightness	Depending on the programming, adjusts the brightness level using the manual brightness mode or auto brightness control.
Display Mode	Toggles the day/night display mode on or off.
Keypad Lock	Toggles keypad between locked and unlocked.
Wallpaper	Radio displays background Wallpaper on the home screen.

Accessing Programmed Functions

Follow the procedure to access programmed functions in your radio.

- 1 Do one of the following:
 - Short or long press the programmed button. Proceed to Step 3.

- Press  to access the menu.

- 2 Press  or  to the menu function, and press  to select a function or enter a sub-menu.

- 3 Do one of the following:

- Press  to return to the previous screen.
- Long press  to return to the Home screen.

Your radio automatically exits the menu after a period of inactivity and returns to the Home screen.

Status Indicators

This chapter explains the icons, LED indicators, and audio tones used in the radio.

Icons

The Liquid Crystal Display (LCD) of your radio shows the radio status, text entries, and menu entries. The

following are the icons that appear on the radio display.

Call Icons

The following icons appear on the display during a call. These icons also appear in the Contacts list to indicate alias or ID type.



Bluetooth PC Call

Indicates a Bluetooth PC Call in progress.

In the Contacts list, it indicates a Bluetooth PC Call alias (name) or ID (number).



Dispatch Call

The Dispatch Call contact type is used to send a text message to a dispatcher PC through a third-party Text Message Server.



Group Call/All Call

Indicates a Group Call or All Call in progress.

In the Contacts list, it indicates a group alias (name) or ID (number).



Indicates a Phone Call as Group Call or All Call in progress.

Phone Call as Group/All Call



Phone Call as Private Call

In the Contacts list, it indicates a group alias (name) or ID (number).

Indicates a Phone Call as Private Call in progress.

In the Contacts list, it indicates a phone alias (name) or ID (number).



Private Call

Indicates a Private Call in progress.

In the Contacts list, it indicates a subscriber alias (name) or ID (number).



Non-IP Peripheral Individual call

Indicates a Non-IP Peripheral individual call in progress.

In the Contacts list, it indicates a subscriber alias (name) or ID (number).



Indicates a Non-IP Peripheral group call in progress.

In the Contacts list, it indicates a group alias (name) or ID (number).

Non-IP Peripheral Group call



Option Board Individual Call

Indicates an Option Board individual call in progress.

In the Contacts list, it indicates a subscriber alias (name) or ID (number).



Option Board Group Call

Indicates an Option Board group call in progress.

In the Contacts list, it indicates a group alias (name) or ID (number).

Display Icons

The following icons appear on the status bar at the top of the radio display. The icons are arranged left most in order of appearance or usage, and are channel-specific.



All Tones Disabled

No ring tones available.



Battery

The number of bars (0 – 4) shown indicates the charge remaining in the battery. Blinks when the battery is low.



Battery Charging Status

Shows battery charging status.



Bluetooth Connected

The Bluetooth feature is enabled. The icon stays lit when a remote Bluetooth device is connected.



Bluetooth Not Connected

The Bluetooth feature is enabled but there is no remote Bluetooth device connected.



Call Log

Radio call log.



Contact

Radio contact is available.



Emergency

Radio is in Emergency mode.



High Volume Data

Radio is receiving high volume data and channel is busy.



Indoor Location Available^[10]

Indoor location status is on and available.



Indoor Location Unavailable^[10]

Indoor location status is on but unavailable due to Bluetooth disabled or Beacons Scan suspended by Bluetooth.



Message

Incoming message.



Monitor

Selected channel is being monitored.



Notification

Notification List has one or more missed events.



Option Board

The Option Board is enabled. (Option board enabled models only)



Option Board Non-Function

The Option Board is disabled.



Over-the-Air Programming Delay Timer

Indicates time left before automatic restart of radio.



The number of bars displayed represents the

Received Signal Strength Indicator (RSSI)

radio signal strength. Four bars indicate the strongest signal. This icon is only displayed while receiving.

Ring mode is enabled.

Ring Only

Scan feature is enabled.

Scan^[7]

Radio detects activity on channel/group designated as Priority 1.

Scan- Priority 1^[7]

Radio detects activity on channel/group designated as Priority 2.

Scan- Priority 2^[7]

The Privacy feature is enabled.

Secure

Radio is signed in to the remote server.

Sign In

Radio is signed out of the remote server.

Sign Out

Silent ring mode is enabled.

Silent Ring

The site roaming feature is enabled.

Site Roaming^[8]

In the absence of a repeater, radio is currently configured for direct radio to radio communication.

Talkaround^[7]

The Privacy feature is disabled.

Unsecure

Vibrate mode is enabled.

Vibrate



Vibrate and Ring

Vibrate and Ring mode is enabled.



Wi-Fi Excellent^[9]

Wi-Fi signal is excellent.



Wi-Fi Good^[9]

Wi-Fi signal is good.



Wi-Fi Average^[9]

Wi-Fi signal is average.



Wi-Fi Poor^[9]

Wi-Fi signal is poor.



Wi-Fi Unavailable^[9]

Wi-Fi signal is unavailable.



Wi-Fi Excellent Highlighted^[9]

Wi-Fi signal is excellent. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.



Wi-Fi Good Highlighted^[9]

Wi-Fi signal is good. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.



Wi-Fi Average Highlighted^[9]

Wi-Fi signal is average. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.



Wi-Fi Poor Highlighted^[9]

Wi-Fi signal is poor. When you scroll to a network in the network list, the Wi-Fi icon of that network is highlighted.



Wi-Fi signal is unavailable. When you scroll to a network in the network list,

Wi-Fi Unavailable Highlighted^[9]

the Wi-Fi icon of that network is highlighted.

Mini Notice Icons

The following icons appear momentarily on the display after an action to perform a task is taken.



Failed action taken.

Failed Transmission (Negative)

Successful action taken.

Successful Transmission (Positive)**Transmission in Progress (Transitional)**

Transmitting. This is seen before indication for Successful Transmission or Failed Transmission.

Sent Item Icons

The following icons appear at the top right corner of the display in the Sent Items folder.

**In Progress**

The text message to a subscriber alias or ID is pending transmission, followed by waiting for acknowledgement.

The text message to a group alias or ID is pending transmission.

The text message has been read.



⁷ Not applicable in Capacity Plus

⁸ Not applicable in Capacity Plus--Single-Site

⁹ Only applicable for SL7550e/SL7590e/SL7580e

¹⁰ Only applicable for models with the latest software and hardware.

Individual or Group Message Read



or

The text message has not been read.

Individual or Group Message Unread



or

The text message cannot be sent.

Send Failed



or

The text message has been successfully sent.

Sent Successfully

Job Tickets Icons



Indicates all jobs listed.

All Jobs



Indicates new jobs.

New Jobs

Tones

The following are the tones that sound through on the radio speaker.



High Pitched Tone



Low Pitched Tone

Audio Tones

Audio tones provide you with audible indications of the status, or response to data received on the radio.



A monotone sound. Sounds continuously until termination.

Continuous Tone



Sounds periodically depending on the duration set by the radio. Tone starts, stops, and repeats itself.

Periodic Tone



A single tone that repeats itself until it is terminated by the user.

Repetitive Tone



Sounds only once for a duration set by the radio.

Momentary Tone

Indicator Tones

Indicator tones provide you with audible indications of the status after an action to perform a task is taken.



Positive Indicator Tone



Negative Indicator Tone

In a manual site search, the radio searches for the next site in the roam list that is currently in range but which may not have the strongest signal and locks on to the repeater.



Note:

Each channel can only have either Scan or Roam enabled, not both at the same time.

Channels with this feature enabled can be added to a particular roam list. The radio searches the channels in the roam list during the automatic roam operation to locate the best site. A roam list supports a maximum of 16 channels, including the selected channel.



Note:

You cannot manually add or delete an entry in the roam list. Check with your dealer or system administrator for more information.

IP Site Connect

This feature allows your radio to extend conventional communication beyond the reach of a single site by connecting to different available sites by using an Internet Protocol (IP) network. This is a conventional multi-site mode.

When the radio moves out of range from one site and into the range of another, the radio connects to the repeater of the new site to send or receive calls or data transmissions. This is done either automatically or manually depending on your settings.

In an automatic site search, the radio scans through all available sites when the signal from the current site is weak or when the radio is unable to detect any signal from the current site. The radio then locks on to the repeater with the strongest Received Signal Strength Indicator (RSSI) value.

Capacity Plus

Capacity Plus--Single Site

Capacity Plus-Single Site is a single-site trunking configuration of the MOTOTRBO radio system, which uses a pool of channels to support hundreds of users and up to 254 Groups. This feature allows your radio

to efficiently utilize the available number of programmed channels while in Repeater Mode.

You hear a negative indicator tone if you try to access a feature not applicable to Capacity Plus--Single Site via a programmable button press.

Your radio also has features that are available in conventional digital mode, IP Site Connect, and Capacity Plus. However, the minor differences in the way each feature works does **not** affect the performance of your radio.

Check with your dealer or system administrator for more information on this configuration.

Capacity Plus--Multi-Site

Capacity Plus--Multi-Site is a multi-channel trunking configuration of the MOTOTRBO radio system, combining the best of both Capacity Plus and IP Site Connect configurations.

Capacity Plus--Multi-Site allows your radio to extend trunking communication beyond the reach of a single site, by connecting to different available sites which are connected via an Internet Protocol (IP) network. It also provides an increase in capacity by efficiently utilizing the combined available number of

programmed channels supported by each of the available sites.

When the radio moves out of range from one site and into the range of another, it connects to the new site's repeater to send or receive calls/data transmissions. Depending on your settings, this is done automatically or manually.

If the radio is set to do this automatically, it scans through all available sites when the signal from the current site is weak or when the radio is unable to detect any signal from the current site. It then locks on to the repeater with the strongest Received Signal Strength Indicator (RSSI) value.

In a manual site search, the radio searches for the next site in the roam list that is currently in range (but which may not have the strongest signal) and locks on to it.

Any channel with Capacity Plus--Multi-Site enabled can be added to a particular roam list. The radio searches these channels during the automatic roam operation to locate the best site.

**Note:**

You cannot manually add or delete an entry to the roam list. Check with your dealer or system administrator for more information.

Similar to Capacity Plus--Single Site, icons of features not applicable to Capacity Plus--Multi-Site are not available in the menu. You hear a negative indicator tone if you try to access a feature not applicable to Capacity Plus--Multi-Site via a programmable button press.

Zone and Channel Selections

This chapter explains the operations to select a zone or channel on your radio.

A zone is a group of channels. Your radio supports up to 1000 channels and 250 zones, with a maximum of 160 channels per zone.

Transmissions are sent and received on a channel. Each channel may have been programmed differently to support different groups of users or supplied with different features.

Selecting Zones

Follow the procedure to select the required zone on your radio.

1 Do one of the following:

- Press the programmed **Zone Selection** button. Proceed to Step 3.
- Press to access the menu.

2

Press or to Zone. Press to select. The display shows and the current zone.

3

Press or to the required zone. Press to select. The display shows <Zone> Selected momentarily and returns to the selected zone screen.

Selecting Channels

Follow the procedure to select the required channel on your radio after you have selected a zone.

While on the **Home Screen** press  on the navigation disc to access the Channel List. The active channel is displayed and indicated by a .

Calls

This chapter explains the operations to receive, respond to, make, and stop calls.

You can select a subscriber alias or ID, or group alias or ID after you have selected a channel by using one of these features:

- | | |
|----------------------|--|
| Alias Search | This method is used for Group, Private and All Calls only with a keypad microphone |
| Contacts List | This method provides direct access to the Contacts list. |

Manual Dial (via Contacts) This method is used for Private and Phone Calls only with a keypad microphone.

Programmed Number Keys This method is used for Group, Private, and All Calls only with a keypad microphone.



Note: You can only have **one** alias or ID assigned to a number key, but you can have more than one number key associated to an alias or ID. All the number keys on a keypad microphone can be assigned. See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

Programmed One Touch Access Button This method is used for Group, Private, and Phone Calls only.

**Note:**

You can only have one ID assigned to a **One Touch Access** button with a short or long programmable button press. Your radio can have multiple **One Touch Access** buttons programmed.

Programmable Button

This method is used for Phone Calls only.

Group Calls

Your radio must be configured as part of a group to receive a call from or make a call to the group of users.

Responding to Group Calls

Follow the procedure to respond to Group Calls on your radio.

When you receive a Group Call:

- The green LED blinks.
- The first line of the display shows the caller alias and the RSSI icon.

- The second line displays the group alias and the **Group Call** icon (in Digital mode only).
- Your radio unmutes and the incoming call sounds through the speaker.

1 Do one of the following:

- If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
- If the Transmit Interrupt Remote Dekey feature is enabled, press the **PTT** button to stop an ongoing interruptible call and free the channel for you to respond.

The green LED lights up.

2 Do one of the following:

- Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

3 Release the **PTT** button to listen.

The call ends when there is no voice activity for a predetermined period.

Making Group Calls

Follow the procedure to make Group Calls on your radio.

- 1 Do one of the following:
 - Select a channel with the active group alias or ID.
 - Press the programmed **One Touch Access** button.
- 2 Press the **PTT** button to make the call. The green LED lights up. The first text line shows the **Group Call** icon and alias.
- 3 Do one of the following:
 - Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
 - Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.
- 4 Release the **PTT** button to listen. The green LED lights up when the target radio responds. The display shows the **Group Call** icon,

and alias or ID, and the transmitting radio alias or ID.

-
- 5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. The radio returns to the screen you were on prior to initiating the call.

Making Group Calls by Using the Contacts List

Follow the procedure to make Group Calls on your radio by using the Contacts list.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select.
- 3 Press  or  to the required alias or ID. Press  to select.
- 4 Press the **PTT** button to make the call. The green LED lights up.

The first line displays the subscriber alias or ID.
The second line displays `Private Call` and the Private Call icon.

-
- 5 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-
- 6 Release the **PTT** button to listen.
The green LED lights up when the target radio responds. The display shows the transmitting user ID.
-
- 7 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period.
You hear a short tone. The display shows `Call Ended`.
-

Making Group Calls by Using the Programmable Number Key

Follow the procedure to make Group Calls on your radio by using the programmable number key.

- 1 Long press the programmed number key to the predefined alias or ID when you are on the Home screen.
If a number key is assigned to an entry in a particular mode, this feature is not supported when you long press the number key in another mode.
A negative indicator tone sounds if the number key is not associated to an entry.
-
- 2 Press the **PTT** button to make the call.
The green LED lights up. The display shows the **Group Call** icon at the top right corner. The first text line shows the caller alias. The second text line displays either the call status for a Private Call or `All Call` for All Call.
-
- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-
- 4 Release the **PTT** button to listen.
The green LED lights up when the target radio responds. The display shows the destination alias.
-
- 5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button,

indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. The radio returns to the screen you were on before initiating the call.

See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

Private Calls

A Private Call is a call from an individual radio to another individual radio.

There are two ways to set up a Private Call. The first type sets up the call after performing a radio presence check, while the second type sets up the call immediately. Only one of these types can be programmed to your radio by your dealer.

If your radio is programmed to perform a radio presence check prior to setting up the Private Call and the target radio is not available:

- A tone sounds.
- The display shows a negative mini notice.
- The radio returns to the menu prior to initiating the radio presence check.

See [Privacy](#) on page 312 for more information.

Responding to Private Calls

Follow the procedure to respond to Private Calls on your radio.

When you receive a Private Call:

- The green LED blinks.
- The first line shows the subscriber alias or ID, and the RSSI icon.
- The second line displays **Private Call** and the **Private Call** icon.
- Your radio unmutes and the incoming call sounds through the speaker.

1 Do one of the following:

- If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
- If the Transmit Interrupt Remote Dekey feature is enabled, press the **PTT** button to stop an ongoing interruptible call and free the channel for you to respond.

The green LED lights up.

-
- 2 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-

- 3 Release the **PTT** button to listen.

The call ends when there is no voice activity for a predetermined period. The display shows **Call Ended**.

Making Private Calls

Your radio must be programmed for you to initiate a Private Call. You hear a negative indicator tone when you initiate the call when this feature is not enabled. Follow the procedure to make Private Calls on your radio.

- 1 Do one of the following:
 - Select a channel with the active subscriber alias or ID.
 - Press the programmed **One Touch Access** button.
-

- 2 Press the **PTT** button to make the call.

If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

The green LED lights up. The display shows the **Private Call** icon, the subscriber alias, and call status.

- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-

- 4 Release the **PTT** button to listen.
The green LED blinks when the target radio responds.
-

- 5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period. The display shows **Call Ended**.
-

Making Private Calls by Using the Contacts List

Follow the procedure to make Private Calls on your radio by using the Contacts list.

- 1 Press  to access the menu.

- 2 Press  or  to `Contacts`. Press  to select.

- 3 Press  or  to the required alias or ID. Press  to select.

- 4 Press the **PTT** button to make the call.
If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen.
The green LED lights up. The display shows the destination alias.

- 5 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 6 Release the **PTT** button to listen.
The green LED blinks when the target radio responds. The display shows the transmitting user alias or ID.

- 7 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows `Call Ended`.

Making Private Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in `Contacts`. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen. Your radio may be programmed to perform a radio presence check before setting up the Private Call. If the target radio is not available, you hear a short tone and see `Party Not Available` on the display; the radio returns to the menu before initiating the radio presence check. Follow the procedure to make Private Calls on your radio by using the alias search.

**Note:**

Press  button or  to exit alias search. If you release the PTT button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

- 1 Press  to access the menu.

- 2 Press  or  to **Contacts**. Press  to select. The display shows the entries in alphabetical order.

- 3 Enter the first character of the required alias. The display shows a blinking cursor.

- 4 Enter the rest of the characters of the required alias.
The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.
The first text line shows the characters you entered. The following text lines show the shortlisted search results.

- 5 Press the **PTT** button to make the call.

The green LED lights up. The display shows the destination ID, call type, and **Private Call** icon.

- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 7 Release the **PTT** button to listen. The green LED blinks when the target radio responds.

- 8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows **Call Ended**.

Making Private Calls by Using the Manual Dial

Follow the procedure to make Private Calls on your radio by using the manual dial.

- 1 Press  to access the menu.

- 2 Press  or  to **Contacts**. Press  to select.

- 3 Press ▲ or ▼ to Manual Dial. Press  to select.

- 4 Press ▲ or ▼ to Radio Number. Press  to select.

- 5 Do one of the following:
 - Enter the subscriber ID, and press  to proceed.
 - Edit the previously dialed subscriber ID, and press  to proceed.

- 6 Press the **PTT** button to make the call.
The green LED lights up. The display shows the destination alias.

- 7 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 8 Release the **PTT** button to listen.
The green LED lights up when the target radio responds. The display shows the transmitting user alias or ID.

- 9 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows **Call Ended**.
-

Making Private Calls by Using the Programmable Number Key

Follow the procedure to make Private Calls on your radio by using the programmable number key.

- 1 Long press the programmed number key to the predefined alias or ID when you are on the Home screen.
If a number key is assigned to an entry in a particular mode, this feature is not supported when you long press the number key in another mode.
A negative indicator tone sounds if the number key is not associated to an entry.

- 2 Press the **PTT** button to make the call.
The green LED lights up. The display shows the **Private Call** icon at the top right corner. The first

text line shows the caller alias. The second text line shows the call status.

-
- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-
- 4 Release the **PTT** button to listen.
The green LED blinks when the target radio responds. The display shows the destination alias.
-
- 5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period. A tone sounds. The radio returns to the screen you were on before initiating the call.
-

See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

All Calls

An All Call is a call from an individual radio to every radio on the channel. An All Call is used to make important announcements, requiring full attention

from the user. The users on the channel cannot respond to an All Call.

Receiving All Calls

When you receive an All Call:

- A tone sounds.
- The green LED blinks.
- The display shows the caller ID information and RSSI icon at the top right corner.
- The first text line shows the **All Call** icon and All Call.
- Your radio unmutes and the incoming call sounds through the speaker.

The radio returns to the screen before receiving the All Call when the call ends.

An All Call does not wait for a predetermined period before ending.

If the Channel Free Indication feature is enabled, you hear a short alert tone when the transmitting radio releases the **PTT** button, indicating the channel is free for you to use. You cannot respond to an All Call.



Note:

The radio stops receiving the All Call if you switch to a different channel while receiving

the call. You are not able to continue with any menu navigation or editing until the call ends during an All Call.

Making All Calls

Your radio must be programmed for you to make an All Call. Follow the procedure to make All Calls on your radio.

- 1 Select a channel with the active All Call group alias or ID.

- 2 Press the **PTT** button to make the call.
The green LED lights up. The display shows the **Group Call** icon and **All Call**.

- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
Users on the channel cannot respond to an All Call.

Making All Calls by Using the Programmable Number Key

Follow the procedure to make All Calls on your radio by using the programmable number key.

- 1 Long press the programmed number key assigned to the predefined alias or ID when you are on the Home screen.

If a number key is assigned to an entry in a particular mode, this feature is not supported when you long press the number key in another mode.

A negative indicator tone sounds if the number key is not associated to an entry.

- 2 Press the **PTT** button to make the call.
The green LED lights up. The first text line shows the caller alias. The second text line shows the call status.

- 3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 4 Release the **PTT** button to listen.
The green LED lights up when the target radio responds. The display shows the destination alias.

- 5 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. The radio returns to the screen you were on prior to initiating the call.

See [Assigning Entries to Programmable Number Keys](#) on page 66 for more information.

Phone Calls

Making Phone Calls

Follow the procedure to make Phone Calls on your radio.

- 1 Press the programmed **One Touch Access** button to the predefined alias or ID.
If the entry for the **One Touch Access** button is empty, a negative indicator tone sounds. If the access code is not preconfigured in the Contact List, the display shows `Access Code:.`
- 2 Enter the access code, and press  to proceed.
The access or deaccess code cannot be more than 10 characters.
- 3 Press the **PTT** button to make the call.
The green LED lights up. The display shows the **Phone Call** icon at the top right corner. The first

text line shows the subscriber alias. The second text line shows the call status.

If the call is successful:

- The DTMF Tone sounds.
- You hear the dialing tone of the telephone user.
- The first text line shows the subscriber alias.
- The display continues to show the **Phone Call** icon at the top right corner.

If the call is unsuccessful:

- A tone sounds.
- The display shows `Phone Call Failed` and then, `Access Code:.`
- If the access code has been preconfigured in the Contacts list, your radio returns to the screen you were on before initiating the call.

- 4 Press the **PTT** button to respond to the call.
- 5 Release the **PTT** button to listen.
- 6 Enter extra digits with the keypad if requested by the call, and press  to proceed.

If the call ends while you are entering the extra digits requested by the call, your radio returns to the screen you were on before initiating the call. The DTMF Tone sounds. Your radio returns to the previous screen.

7 Press  to end the call.

8 Do one of the following:

- If the deaccess code was not preconfigured, enter the deaccess code when the display shows `De-Access Code:`, and press  to proceed.

The radio returns to the previous screen.

- Press the programmed **One Touch Access** button.

If the entry for the **One Touch Access** button is empty, a negative indicator tone sounds.

The DTMF Tone sounds and the display shows `Ending Phone Call`.

If the call ends successfully:

- A tone sounds.

- The display shows `Call Ended`.

If the call fails to end, the radio returns to the Phone Call screen. Repeat the last two steps or wait for the telephone user to end the call.

When the telephone user ends the call, a tone sounds and the display shows `Call Ended`.

Making Phone Calls by Using the Contacts List

Follow the procedure to make Phone Calls on your radio by using the Contacts list.

1 Press  to access the menu.

2 Press  or  to `Contacts`. Press  to select. The display shows the entries in alphabetical order.

3 Press  or  to the required alias or ID. Press  to select.

When you press the **PTT** button while on the Phone Contacts screen:

- A negative indicator tone sounds.

- The display shows Press OK to Place Phone Call.

If the selected entry is empty:

- A negative indicator tone sounds.
- The display shows Phone Call Invalid #.

- 4 Press  or  to Call Phone. Press  to select.

The display shows Access Code: if the access code was not preconfigured.

- 5 Enter the access code, and press  to proceed.

The access or deaccess code cannot be more than 10 characters.

The first text line shows Calling. The second text line shows the subscriber alias or ID, and the **Phone Call** icon.

If the call is successful:

- The DTMF Tone sounds.
- You hear the dialing tone of the telephone user.
- The first text line shows the subscriber alias or ID, and the **RSSI** icon.

- The second text line shows Phone Call, and the **Phone Call** icon.

If the call is unsuccessful:

- A tone sounds.
- The display shows Phone Call Failed and then, Access Code:.
- Your radio returns to the screen you were on prior to initiating the call if the access code has been preconfigured in the Contacts list.

- 6 Press the **PTT** button to respond to the call. The **RSSI** icon disappears.

- 7 Release the **PTT** button to listen.

- 8 Enter extra digits with the keypad if requested by the call, and press  to proceed.

If the call ends while you are entering the extra digits requested by the call, your radio returns to the screen you were on prior to initiating the call.

The DTMF Tone sounds. Your radio returns to the previous screen.

- 9 Press  to end the call.

- 10 If the deaccess code was not preconfigured, enter the deaccess code when the display shows De-

Access Code:, and press  to proceed. The radio returns to the previous screen. The DTMF Tone sounds and the display shows Ending Phone Call.

If the call ends successfully:

- A tone sounds.
- The display shows Call Ended.

If the call fails to end, the radio returns to the Phone Call screen. Repeat Step 9 and Step 10, or wait for the telephone user to end the call. When you press the PTT button while in the Phone Contacts screen, as tone sounds and the display shows Press OK to Place Phone Call.

When the telephone user ends the call, a tone sounds and the display shows Phone Call Ended.

If the call ends while you are entering the extra digits requested by the Phone Call, your radio returns to the screen you were on prior to initiating the call.

Making Phone Calls with the Programmable Phone Button

Follow the procedure to make a phone call with the programmable phone button.

- 1 Press the programmed **Phone** button to enter into the Phone Entry list.
-
- 2 Press  or  to the required alias or ID. Press  to select. If the access code was not preconfigured in the Contacts list, the display shows Access Code:. Enter the access code and press the  button to proceed.
 - The green LED lights up. The Phone Call icon appears in the top right corner. The first text line shows the subscriber alias. The second text line displays the call status.
 - If the call-setup is successful, the DTMF tone sounds. You hear the dialing tone of the telephone user. The first text line shows the subscriber alias. The Phone Call icon remains in the top right corner. The second text line displays the call status.
 - If call-setup is unsuccessful, a tone sounds and the display shows Phone Call Failed. Your

radio returns to the Access Code input screen. If the access code was preconfigured in the Contacts list, the radio returns to the screen you were on prior to initiating the call.

3 Press the **PTT** button to talk. Release the **PTT** button to listen.

4 To enter extra digits, if requested by the Phone Call: Do one of the following:

- Press any keypad key to begin the input of the extra digits. The first line of the display shows `Extra Digits:`. The second line of the display shows a blinking cursor. Enter the extra digits and press the  button to proceed. The DTMF tone sounds and the radio returns to the previous screen.
 - Press **One Touch Access** button. The DTMF tone sounds. If the entry for the **One Touch Access** button is empty, a negative indicator tone sounds.
-

5 Press  to end the call. If deaccess code was not preconfigured in the Contacts list, the first line of the display shows `De- Access Code:`. The

second line of the display shows a blinking cursor.

Enter the deaccess code and press the  button to proceed.

- The DTMF tone sounds and the display shows `Ending Phone Call`.
- If the end-call-setup is successful, a tone sounds and the display shows `Call Ended`.
- If the end-call-setup is unsuccessful, your radio returns to the Phone Call screen. Repeat Step **3** and **5** or wait for the telephone user to end the call.
- When you press **PTT** button while in the Phone Contacts screen, a tone sounds and the display shows `Press OK to Place Phone Call`.
- When the telephone user ends the call, a tone sounds and the display shows `Phone Call Ended`.
- If the call ends while you are entering the extra digits requested by the Phone Call, your radio returns to the screen you were on prior to initiating the call.

**Note:**

During channel access, press  to dismiss the call attempt and a tone sounds.

During the call, when you press **One Touch Access** button with the deaccess code preconfigured or enter the deaccess code as the input for extra digits, your radio attempts to end the call.

**Note:**

The access or deaccess code cannot be more than 10 characters.

Dual Tone Multi Frequency

The Dual Tone Multi Frequency (DTMF) feature allows the radio to operate in a radio system with an interface to the telephone systems.

You can turn off the DTMF tone by disabling all radio tones and alerts. See [Turning Radio Tones/Alerts On or Off](#) on page 104 for more information.

Responding to Phone Calls as Private Calls

Follow the procedure to respond to Phone Calls as Private Calls on your radio.

When you receive a Phone Call as a Private Call:

- The display shows the **Phone Call** icon at the top right corner.
- The display shows `Phone Call`.
- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.

1 Press the **PTT** button to respond to the call.

2 Release the **PTT** button to listen.

3 Press  to end the call.
The display shows `Ending Phone Call`.

**Note:**

If Phone Call capability is not enabled in your radio, the radio is not able to terminate a phone call as a private call. The telephone user must end the call. The recipient user is only allowed to talkback during the call.

If the call ends successfully:

- A tone sounds.
- The display shows `Call Ended`.

If the call fails to end, the radio returns to the Phone Call screen. Repeat Step 3 or wait for the telephone user to end the call.

Responding to Phone Calls as Group Calls

Follow the procedure to respond to Phone Calls as Group Calls on your radio.

When you receive a Phone Call as a Group Call:

- The display shows the **Phone Call** icon at the top right corner.
- The display shows `Phone Call`.
- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.

1 Press the **PTT** button to respond to the call.

2 Release the **PTT** button to listen.

3 Press  to end the call.
The display shows `Ending Phone Call`.



Note:

If Phone Call capability is not enabled in your radio, the radio is not able to terminate a phone call as a group call. The

telephone user must end the call. The recipient user is only allowed to talkback during the call.

If the call ends successfully:

- A tone sounds.
- The display shows `Call Ended`.

If the call fails to end, the radio returns to the Phone Call screen. Repeat Step 3 or wait for the telephone user to end the call.

Responding to Phone Calls as All Calls

When you receive a Phone Call as an All Call, the receiving radio is unable to talkback or respond. The recipient user is also not allowed to end the All Call.

When you receive a Phone Call as an All Call:

- The display shows the **Phone Call** icon at the top right corner.
- The display shows either `All Call`, `Site All Call`, or `Multi Site Call` depending on the type of configuration and Phone Call.
- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.

Stopping Radio Calls

This feature allows you to stop an ongoing Group or Private Call to free the channel for transmission. For example, when a radio experiences a “stuck microphone” condition where the **PTT** button is inadvertently pressed by the user. Your radio must be programmed to allow you to use this feature. Follow the procedure to stop calls on your radio.

- 1 Press the programmed **Transmit Interrupt Remote Dekey** button.

The display shows `Remote Dekey`.

- 2 Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows `Remote Dekey Success`.

If an interruptible call is stopped via this feature:

- The display shows `Call Interrupted`.
- A negative indicator tone sounds on the interrupted radio until the **PTT** button is released.

If unsuccessful:

- A negative indicator tone sounds.



Note:

Check with your dealer or system administrator for more information.

Advanced Features

This chapter explains the operations of the features available in your radio.



Note:

Your dealer or system administrator may have customized your radio for your specific needs. Check with your dealer or system administrator for more information.

Talkaround

This feature allows you to continue communication when your repeater is not operating, or when your radio is out of range from the repeater but within talking range of other radios.

The talkaround setting is retained even after powering down.



Note:

This feature is not applicable in Capacity Plus--Single-Site, Capacity Plus--Multi-Site,

and Citizens Band channels that are in the same frequency.

Toggling Between Repeater and Talkaround Modes

Follow the procedure to toggle between Repeater and Talkaround modes on your radio.

- 1 Do one of the following:
 - Press the programmed **Repeater/Talkaround** button. Skip the following steps.
 - Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Talkaround. Press  to select.
If enabled,  appears besides Enabled. If disabled,  disappears beside Enabled.

The screen automatically returns to the previous screen.

Monitor Feature

The monitor feature is used to make sure that a channel is clear before transmitting.



Note:

This feature is not applicable in Capacity Plus--Single-Site and Capacity Plus--Multi-Site.

Monitoring Channels

- 1 Press and hold the programmed **Monitor** button. The Monitor icon appears on the display and the LED lights up solid yellow.

If there is activity on the monitored channel:

- The display shows the **Monitor** icon.
- You hear radio activity or total silence.
- The yellow LED lights up.

You hear a “white noise” if the monitored channel is free.

- 2 Press the **PTT** button to talk. Release the **PTT** button to listen.

Permanent Monitor

The Permanent Monitor feature is used to continuously monitor a selected channel for activity.

Turning Permanent Monitor On or Off

Follow the procedure to turn Permanent Monitor on or off on your radio.

Press the programmed **Permanent Monitor** button.

When the radio enters the mode:

- An alert tone sounds.
- The yellow LED lights up.
- The display shows `Permanent Monitor On` and the **Monitor** icon.

When the radio exits the mode:

- An alert tone sounds.
- The yellow LED turns off.
- The display shows `Permanent Monitor Off`.

Home Channel Reminder

This feature provides a reminder when the radio is not set to the home channel for a period of time.

If this feature is enabled via the CPS, when your radio is not set to the home channel for a period of time, the following occurs periodically:

- The Home Channel Reminder tone and announcement sound.
- The first line of the display shows `Non`.
- The second line shows `Home Channel`.

Muting the Home Channel Reminder

When the Home Channel Reminder occurs, you can temporarily mute the reminder.

Press the **Silence Home Channel Reminder** programmable button.

The first line of the display shows `HCR` and the second line shows `Silenced`.

Setting New Home Channels

When the Home Channel Reminder occurs, you can set a new home channel.

1 Do one of the following:

- Press the **Reset Home Channel** programmable button to set the current channel as the new Home Channel. Skip the following steps.

The first line of the display shows the channel alias and the second line shows New Home Ch.

- Press  to access the menu.

2 Press  or  to Utilities. Press  to select.

3 Press  or  to Radio Settings. Press  to select.

4 Press  or  to Home Channel. Press  to select.

5 Press  or  to the desired new home channel alias. Press  to select.
The display shows  beside the selected home channel alias.

Radio Check

This feature allows you to determine if another radio is active in a system without disturbing the radio user. No audible or visual notification is shown on the

target radio. Your radio must be programmed to allow you to use this feature.

Sending Radio Checks

Follow the procedure to send radio checks on your radio.

1 Press the programmed **Radio Check** button.

2 Press  or  to the required alias or ID. Press  to select.

The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

Wait for acknowledgment.

If you press  when the radio is waiting for acknowledgment, a tone sounds, the radio terminates all retries, and exits Radio Check mode.

If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A negative indicator tone sounds.

- The display shows a negative mini notice.

The radio returns to the subscriber alias or ID screen.

Sending Radio Checks by Using the Contacts List

Follow the procedure to send radio checks on your radio by using the Contacts list.

- 1 Press  to access the menu.

- 2 Press  or  to **Contacts**. Press  to select.

- 3 Press  or  to the required alias or ID. Press  to select.

- 4 Press  or  to **Radio Check**. Press  to select.
The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

- 5 Wait for acknowledgment.

If you press  when the radio is waiting for acknowledgement, a tone sounds, the radio

terminates all retries, and exits Radio Check mode.

If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

The radio returns to the subscriber alias or ID screen.

Sending Radio Checks by Using the Manual Dial

Follow the procedure to send radio checks on your radio by using the manual dial.

- 1 Press  to access the menu.

- 2 Press  or  to **Contacts**. Press  to select.

- 3 Press  or  to **Manual Dial**. Press  to select.

- 4 Press ▲ or ▼ to Radio Number. Press  to select.

- 5 Do one of the following:

- Enter the subscriber alias or ID, and press  to proceed.
- Edit the previously dialed ID, and press  to proceed.

- 6 Press ▲ or ▼ to Radio Check. Press  to select.

The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

- 7 Wait for acknowledgment.

If you press  when the radio is waiting for acknowledgement, a tone sounds, the radio terminates all retries, and exits Radio Check mode.

If successful:

- A positive indicator tone sounds.

- The display shows a positive mini notice.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

The radio returns to the subscriber alias or ID screen.

Remote Monitor

This feature is used to turn on the microphone of a target radio with a subscriber alias or ID. You can use this feature to remotely monitor any audible activity surrounding the target radio.

Both your radio and the target radio must be programmed to allow you to use this feature.

If initiated, the green LED blinks once on the target radio. This feature automatically stops after a programmed duration or when there is any user operation on the target radio.

Initiating Remote Monitors

Follow the procedure to initiate Remote Monitor on your radio.

- 1 Press the programmed **Remote Monitor** button.

- 2 Press ▲ or ▼ to the required alias or ID. Press  to select.

The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

- 3 Wait for acknowledgment.
If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.
- The audio from the monitored radio starts playing for a programmed duration, and the display shows *Rem. Monitor*. Once the timer expires, an alert tone sounds, and the LED turns off.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Initiating Remote Monitors by Using the Contacts List

Follow the procedure to initiate Remote Monitor on your radio by using the Contacts list.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to *Contacts*. Press  to select.

- 3 Press ▲ or ▼ to the required alias or ID. Press  to select.

- 4 Press ▲ or ▼ to *Remote Mon.*. Press  to select.

The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

- 5 Wait for acknowledgment.
If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.
- The audio from the monitored radio starts playing for a programmed duration, and the display shows *Rem. Monitor*. Once the timer expires, an alert tone sounds, and the LED turns off.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Initiating Remote Monitors by Using the Manual Dial

Follow the procedure to initiate Remote Monitor on your radio by using the manual dial.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select.
- 3 Press  or  to **Manual Dial**. Press  to select.
- 4 Press  or  to **Radio Number**. Press  to select.
- 5 Do one of the following:
 - Enter the subscriber alias or ID, and press  to proceed.
 - Edit the previously dialed ID, and press  to proceed.

- 6 Press  or  to **Remote Mon.**. Press  to select.

The display shows a transitional mini notice, indicating the request is in progress. The green LED lights up.

- 7 Wait for acknowledgment.
If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.
- The audio from the monitored radio starts playing for a programmed duration, and the display shows **Rem. Monitor**. Once the timer expires, an alert tone sounds, and the LED turns off.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Scan Lists

Scan lists are created and assigned to individual channels or groups. Your radio scans for voice activity by cycling through the channel or group

sequence specified in the scan list for the current channel or group.

Your radio can support up to 250 scan lists, with a maximum of 16 members in a list.

You can add, delete, or prioritize channels by editing a scan list.

You can attach a new scan list to your radio via Front Panel Programming.

The **Priority** icon appears on the left of the member alias, if set, to indicate whether the member is on a Priority 1 or Priority 2 channel list. You cannot have multiple Priority 1 or Priority 2 channels in a scan list. There is no **Priority** icon if priority is set to **None**.



Note:

This feature is not applicable in Capacity Plus.

Setting Active Scan Lists

Follow the procedure to set an active scan list.

- 1 Press  to access the menu.
- 2 Press  or  to Scan. Press  to select.

- 3 Press  or  to Set Active List. Press  to select.

- 4 Press  or  to the required list. Press  to select.

The list selected is your active scan list.

Viewing Entries in the Scan List

Follow the procedure to view the entries in the Scan list on your radio.

- 1 Press  to access the menu.
- 2 Press  or  to Scan. Press  to select.
- 3 Press  or  to View/Edit List. Press  to select.
- 4 Press  or  to view each member on the list.

Viewing Entries in the Scan List by Using the Alias Search

Follow the procedure to view entries in the Scan list on your radio by using the alias search.

- 1 Press  to access the menu.

- 2 Press  or  to Scan. Press  to select.

- 3 Press  or  to View/Edit List. Press  to select.

- 4 Enter the first character of the required alias.
The display shows a blinking cursor.

- 5 Enter the rest of the characters of the required alias.
The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.
The first text line shows the characters you entered. The following text lines show the shortlisted search results.

Adding New Entries to the Scan List

Follow the procedure to add new entries to the Scan list on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Scan. Press  to select.

- 3 Press  or  to View/Edit List. Press  to select.

- 4 Press  or  to Add Member. Press  to select.

- 5 Press  or  to the required alias or ID. Press  to select.

- 6 Press  or  to the required priority level.
Press  to select.
The display shows a positive mini notice and then, Add Another?.

- 7 Do one of the following:

- Press ▲ or ▼ to Yes to add another entry.
Press  to select. Repeat Step 5 and Step 6.
- Press ▲ or ▼ to No to save the current list.
Press  to select.

Deleting Entries from the Scan List

Follow the procedure to delete entries on your radio from the Scan list.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Scan. Press  to select.
- 3 Press ▲ or ▼ to View/Edit List. Press  to select.
- 4 Press ▲ or ▼ to the required alias or ID. Press  to select.
- 5 Press ▲ or ▼ to Delete. Press  to select.
The display shows Delete Entry?.
- 6 Do one of the following:

- Press ▲ or ▼ to Yes to delete the entry.
Press  to select.
The display shows a positive mini notice.
- Press ▲ or ▼ to No to return to the previous screen. Press  to select.

- 7 Repeat Step 4 to Step 6 to delete other entries.

- 8 Long press  to return to the Home screen after deleting all required aliases or IDs.

Deleting Entries from the Scan List by Using the Alias Search

Follow the procedure to delete entries from the Scan list on your radio by using the alias search.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Scan. Press  to select.
- 3 Press ▲ or ▼ to View/Edit List. Press  to select.

- 4 Enter the first character of the required alias.
The display shows a blinking cursor.

- 5 Enter the rest of the characters of the required alias.

The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.

The first text line shows the characters you entered. The following text lines show the shortlisted search results.

- 6 Press  to select.

- 7 Press  or  to Delete. Press  to select.
The display shows Delete Entry?.

- 8 Do one of the following:

- Press  or  to Yes to delete the entry.
Press  to select.

The display shows a positive mini notice.

- Press  or  to No to return to the previous screen. Press  to select.

- 9 Repeat Step 3 to Step 7 to delete other entries.

- 10 Long press  to return to the Home screen after deleting all required aliases or IDs.

Scan

Your radio cycles through the programmed scan list for the current channel looking for voice activity when you start a scan.



Note:

This feature is not applicable in Capacity Plus.

The LED blinks yellow and the scan icon appears on the status bar.

There are two ways of initiating scan:

Main Channel Scan (Manual)

Your radio scans all the channels or groups in your scan list. On entering scan, your radio may, depending on the settings, automatically start on the last

scanned active channel or group, or on the channel where scan was initiated.

Auto Scan (Automatic)

Your radio automatically starts scanning when you select a channel or group that has Auto Scan enabled.

Turning Scan On or Off

Follow the procedure to turn scan on or off on your radio.



Note:

While scanning, the radio only accepts data (e.g. text message, location, or PC data) if received on its Selected Channel.

- 1 Press to access the menu.
- 2 Press or to Scan. Press to select.
- 3 Do one of the following:
 - Press or to Turn On. Press to select.

- Press or to Turn Off. Press to select.

If scan is enabled:

- The display shows Scan On and **Scan** icon.
- The yellow LED blinks.

If scan is disabled:

- The display shows Scan Off.
- The **Scan** icon disappears.

Responding to Transmissions During Scanning

During scanning, your radio stops on a channel or group where activity is detected. The radio stays on that channel for a programmed duration known as hang time. Follow the procedure to respond to transmissions during scanning on your radio.

- 1 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button during hang time. The green LED lights up.

- 2 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-

- 3 Release the **PTT** button to listen.

The radio returns to scanning other channels or groups if you do not respond within the hang time.

Deleting Nuisance Channels

If a channel continually generates unwanted calls or noise, termed as Nuisance Channel, you can temporarily remove the unwanted channel from the scan list. This capability does not apply to the channel designated as the Selected Channel. Follow the procedure to delete nuisance channels on your radio.

- 1 When your radio locks on to an unwanted or nuisance channel, press the programmed **Nuisance Channel Delete** button until you hear a tone.

A nuisance channel can only be deleted by using the programmed **Nuisance Channel Delete** button. This feature is not accessible through the menu.

- 2 Release the **Nuisance Channel Delete** button. The nuisance channel is deleted.
-

Restoring Nuisance Channels

Follow the procedure to restore nuisance channels on your radio.

Do one of the following:

- Turn the radio off and then power it on again.
 - Stop and restart a scan via the programmed **Scan** button or menu.
 - Change the channel using the **Channel Up/Down** button.
-

Contacts Settings

Contacts provides address book capabilities on your radio. Each entry corresponds to an alias or ID that you use to initiate a call. The entries are alphabetically sorted.

Each entry, depending on context, associates with the different call types: Group Call, Private Call, All Call, PC Call, or Dispatch Call.

PC Call and Dispatch Call are data-related. They are only available with the applications. Refer to the data applications documentation for further details.

Additionally, Contacts menu allows you to assign each entry to a programmable number key or more

on a keypad microphone. If an entry is assigned to a number key, your radio can perform a quick dial on the entry.



Note:

You see a checkmark before each number key that is assigned to an entry. If the checkmark is before **Empty**, you have not assign a number key to the entry.

Your radio supports a maximum of 1,000 Contacts list members.

Each entry within Contacts displays the following information:

- Call Type
- Call Alias
- Call ID



Note:

You can add, or edit subscriber IDs for the Digital Contacts list. Deleting subscriber IDs can only be performed by your dealer.

If the Privacy feature is enabled on a channel, you can make privacy-enabled Group Calls, Private Calls, and All Calls on that channel. Only target radios with the same Privacy Key,

or the same Key Value and Key ID as your radio will be able to decrypt the transmission.

Making a Call Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in Contacts.



Note:

Press  or  to exit alias search. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen. Your radio may be programmed to perform a radio presence check prior to setting up the Private Call. If the target radio is not available, you hear a short tone and see negative mini notice on the display. The radio returns to the menu prior to initiating the radio presence check.

1

Press  to access the menu.

2

Press  or  to **Contacts**. Press  to select. The entries are alphabetically sorted.

3 Key in the first character of the required alias. A blinking cursor appears.

4 Use the keypad to type the required alias. Press  to move one space to the left. Press .

Press the . The first line of the display shows the characters you keyed in. The next lines of the display show the short listed search results. The alias search is case-insensitive. If there are two or more entries with the same name, the radio displays the entry that is listed first in the Contacts list.

5 Press the **PTT** button to make the call. The LED lights up solid green. The display shows the destination alias.

6 Wait for the Talk Permit Tone to finish (if enabled), and speak clearly into the microphone.

7 Release the **PTT** button to listen. When the target radio responds, the LED blinks green, the radio unmutes and the response sounds through the radio's speaker.

8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond. If there is no voice activity for a predetermined period of time, the call ends. The display shows *Call Ended*.

Making All Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in Contacts. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen. If the target radio is not available, you hear a short tone and see *Party Not Available* on the display; the radio returns to the menu prior to initiating the radio presence check. Follow the procedure to make All Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

- 1 Press  to access the menu.

- 2 Press  or  to `Contacts`. Press  to select. The display shows the entries in alphabetical order.

- 3 Enter the first character of the required alias. The display shows a blinking cursor.

- 4 Enter the rest of the characters of the required alias.
The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.
The first text line shows the characters you entered. The following text lines show the shortlisted search results.

- 5 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination ID, call type, and **Group Call** icon.

- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 7 Release the **PTT** button to listen. The green LED blinks when the target radio responds.

- 8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows `Call Ended`.

Making Private Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in `Contacts`. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen. Your radio may be programmed to perform a radio presence check before setting up the Private Call. If the target radio is not available, you hear a short tone and see `Party Not Available` on the display; the radio returns to the menu before initiating the radio presence check. Follow the

procedure to make Private Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search. If you release the PTT button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

- 1 Press  to access the menu.

- 2 Press  or  to **Contacts**. Press  to select. The display shows the entries in alphabetical order.

- 3 Enter the first character of the required alias. The display shows a blinking cursor.

- 4 Enter the rest of the characters of the required alias.
The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.

The first text line shows the characters you entered. The following text lines show the shortlisted search results.

- 5 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination ID, call type, and **Private Call** icon.

- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

- 7 Release the **PTT** button to listen. The green LED blinks when the target radio responds.

- 8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows **Call Ended**.

Making Group Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is

only applicable while in Contacts. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen. If the target radio is not available, you hear a short tone and see **Party Not Available** on the display; the radio returns to the menu prior to initiating the radio presence check. Follow the procedure to make Group Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search. If you release the PTT button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select. The display shows the entries in alphabetical order.
- 3 Enter the first character of the required alias. The display shows a blinking cursor.

- 4 Enter the rest of the characters of the required alias.

The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.

The first text line shows the characters you entered. The following text lines show the shortlisted search results.

- 5 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination ID, call type, and **Group Call** icon.
- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- 7 Release the **PTT** button to listen. The green LED blinks when the target radio responds.
- 8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows **Call Ended**.

Making Phone Calls by Using the Alias Search

You can also use alias or alphanumeric search to retrieve the required subscriber alias. This feature is only applicable while in Contacts. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen. If the target radio is not available, you hear a short tone and see **Party Not Available** on the display; the radio returns to the menu prior to initiating the radio presence check. Follow the procedure to make Phone Calls on your radio by using the alias search.



Note:

Press  button or  to exit alias search. If you release the **PTT** button while the radio is setting up the call, it exits without any indication and returns to the previous screen.

- 1 Press  to access the menu.
- 2 Press  or  to **Contacts**. Press  to select.

The display shows the entries in alphabetical order.

- 3 Enter the first character of the required alias. The display shows a blinking cursor.
- 4 Enter the rest of the characters of the required alias.
The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.
The first text line shows the characters you entered. The following text lines show the shortlisted search results.
- 5 Press the **PTT** button to make the call. The green LED lights up. The display shows the destination ID, call type, and **Phone Call** icon.
- 6 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- 7 Release the **PTT** button to listen. The green LED blinks when the target radio responds.

- 8 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.

The call ends when there is no voice activity for a predetermined period. A tone sounds. The display shows `Call Ended`.

Assigning Entries to Programmable Number Keys

Follow the procedure to assign entries to programmable number keys on your radio.

- 1 Press  to access the menu.
 - 2 Press  or  to `Contacts`. Press  to select.
 - 3 Press  or  to the required alias or ID. Press  to select.
 - 4 Press  or  to `Program Key`. Press  to select.
-

- 5 Do one of the following:

- If the desired number key has not been assigned to an entry, press  or  to the desired number key. Press  to select.
- If the desired number key has been assigned to an entry, the display shows `The Key is Already Assigned` and then, the first text line shows `Overwrite?`. Do one of the following:

Press  or  to `Yes`. Press  to select.

The radio sounds a positive indicator tone and the display shows `Contact Saved` and a positive mini notice.

Press  or  to `No` to return to the previous step.

Removing Associations Between Entries and Programmable Number Keys

Follow the procedure to remove the associations between entries and programmable number keys on your radio.

- 1 Do one of the following:

- Long press the programmed number key to the required alias or ID. Proceed to Step 4.
- Press  to access the menu.

2 Press ▲ or ▼ to **Contacts**. Press  to select.

3 Press ▲ or ▼ to the required alias or ID. Press  to select.

4 Press ▲ or ▼ to **Program Key**. Press  to select.

5 Press ▲ or ▼ to **Empty**. Press  to select.
The first text line shows **Clear from all keys**.

6 Press ▲ or ▼ to **Yes**. Press  to select.



Note:

When an entry is deleted, the association between the entry and its programmed number key(s) is removed.

A positive indicator tone sounds. The display shows **Contact Saved**.

The screen automatically returns to the previous menu.

Adding New Contacts

Follow the procedure to add new contacts on your radio.

1 Press  to access the menu.

2 Press ▲ or ▼ to **Contacts**. Press  to select.

3 Press ▲ or ▼ to **New Contact**. Press  to select.

4 Press ▲ or ▼ to select contact type **Radio Contact** or **Phone Contact**. Press  to select.

5 Enter the contact number with the keypad, and press  to proceed.

6 Enter the contact name with the keypad, and press  to proceed.

- 7 Press ▲ or ▼ to the required ringer type. Press  to select.
A positive indicator tone sounds. The display shows a positive mini notice.

Sending Messages to a Contact

Follow the procedure to send a message to a contact.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to **Contacts**. Press  to select.
- 3 Press ▲ or ▼ to **New Contact**. Press  to select.
- 4 Press ▲ or ▼ to the required contact type, either **Radio Contact** or **Phone Contact**. Press  to select.
- 5 Press ▲ or ▼ to the required alias. Press  to select.

- 6 Press ▲ or ▼ to **Send Message**. Press  to select.

- 7 Press  to send the message.

Call Indicator Settings

Activating or Deactivating Call Ringers for Call Alerts

Follow the procedure to activate or deactivate call ringers for Call Alerts on your radio.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to **Utilities**. Press  to select.
- 3 Press ▲ or ▼ to **Radio Settings**. Press  to select.
- 4 Press ▲ or ▼ to **Tones/Alert**. Press  to select.

5 Press ▲ or ▼ to Call Ringers. Press  to select.

6 Press ▲ or ▼ to Call Alert. Press  to select.

7 Do one of the following:

- Press ▲ or ▼ to the required tone. Press  to select.

The display shows ✓ and the selected tone.

- Press ▲ or ▼ to Off. Press  to select.

If the ringing tones were earlier enabled, the display shows ✓ beside Off.

If the ringing tones were earlier disabled, the display does not show ✓ beside Off.

Activating or Deactivating Call Ringers for Private Calls

Follow the procedure to activate or deactivate call ringers for Private Calls on your radio.

1 Press  to access the menu.

2 Press ▲ or ▼ to Utilities. Press  to select.

3 Press ▲ or ▼ to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Tones/Alerts. Press  to select.

5 Press ▲ or ▼ to Call Ringers. Press  to select.

6 Press ▲ or ▼ to Private Call. Press  to select.

7 Do one of the following:

- Press ▲ or ▼ to the required tone. Press  to select.

The display shows ✓ and the selected tone.

- Press ▲ or ▼ to Off. Press  to select.
If the ringing tones were earlier enabled, the display shows ✓ beside Off.
If the ringing tones were earlier disabled, the display does not show ✓ beside Off.

Activating or Deactivating Call Ringers for Text Messages

Follow the procedure to activate or deactivate call ringers for text messages on your radio.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Utilities. Press  to select.
- 3 Press ▲ or ▼ to Radio Settings. Press  to select.
- 4 Press ▲ or ▼ to Tones/Alerts. Press  to select.

- 5 Press ▲ or ▼ to Call Ringers. Press  to select.
- 6 Press ▲ or ▼ to Text Message. Press  to select.
The display shows ✓ and the current tone.
- 7 Do one of the following:
 - Press ▲ or ▼ to the required tone. Press  to select.
The display shows ✓ and the selected tone.
 - Press ▲ or ▼ to Off. Press  to select.
If the ringing tones were earlier enabled, the display shows ✓ beside Off.
If the ringing tones were earlier disabled, the display does not show ✓ beside Off.

Activating or Deactivating Call Ringers for Telemetry Status with Text

Follow the procedure to activate or deactivate call ringers for telemetry status with text on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Tones/Alert. Press  to select.

- 5 Press  or  to Call Ringers. Press  to select.

- 6 Press  or  to Telemetry. Press  to select.
The current tone is indicated by a 

- 7 Do one of the following:

- Press  or  to the preferred tone. Press  to select.

The display shows Tone <Number> Selected and a  appears left of the selected tone.

- Press  or  to Turn Off. Press  to select.

The display shows Telemetry Ringer Off and a  appears left of Turn Off.

Assigning Ring Styles

The radio can be programmed to sound one of ten predefined ringing tones when receiving a Call Alert or a Text Message from a particular contact. The radio sounds out each ring style as you navigate through the list. Follow the procedure to assign ring styles on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Contacts. Press  to select.
The entries are alphabetically sorted.

- 3 Press ▲ or ▼ to the required alias or ID. Press  to select.

- 4 Press ▲ or ▼ to View/Edit. Press  to select.

- 5 Press ▲ or ▼ to Ringer. Press  to select.

- 6 Press ▲ or ▼ to the required tone. Press  to select.

The display shows a positive mini notice.

All Tones

- 1  to access the menu.
- 2 ▲ or ▼ to Utilities and press  to select.
- 3 Go to Radio Settings. Select Tones/Alerts. Select All Tones. Toggle All Tones to be enabled or disabled.

Selecting Ring Alert Types

You can program your the radio calls to one predetermined vibrate call. If All Tones status is disabled, the radio displays the All Tone Mute icon. If All Tones status is enabled, the related ring alert type is displayed.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Utilities. Press  to select.
- 3 Go to Radio Settings. Select Tones/Alerts.
- 4 Select Ring Alert Type.
- 5 Choose from one of the following ring alert types:
 - Ring
 - Vibrate
 - Ring & Vibrate
 - Silent
- The radio sounds one vibration if it is a momentary ring style.

- The radio vibrates repetitively if it is a repetitive ring style.
- When set to Ring & Vibrate, the radio sounds a specific ring tone if there is any incoming radio transaction (i.e. Call Alert, Message or Job Ticket). It sounds like a good key tone or missed call. If the notification list is not empty, the radio repeats a vibration every 5 minutes.

Configuring Vibrate Style



Note:

The programmed **Vibrate Style** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can configure the vibrate style by performing one of the following actions.

- Press the programmed **Vibrate Style** button to access the Vibrate Style menu.
 - a) Press ▲ or ▼ to Short, Medium, or Long and press  to select.
-
- Access this feature via the menu.

- a) Press  to access the menu.
- b) Press ▲ or ▼ to Utilities and press  to select.
- c) Press ▲ or ▼ to Radio Settings and press  to select.
- d) Press ▲ or ▼ to Tones/Alerts and press  to select.
- e) Press ▲ or ▼ to Vibrate Style and press  to select.
- f) Press ▲ or ▼ to Short, Medium, or Long and press  to select.

Escalating Alarm Tone Volume

The radio can be programmed to continually alert, when a radio call remains unanswered. This is done by automatically increasing the alarm tone volume over time. This feature is known as Escalart.

Call Log Features

Your radio keeps track of all recent outgoing, answered, and missed Private Calls. The call log feature is used to view and manage recent calls.

Missed Call Alerts may be included in the call logs, depending on the system configuration on your radio. You can perform the following tasks in each of your call lists:

- Store Alias or ID to Contacts
- Delete Call
- Delete All Calls
- View Details

Viewing Recent Calls

Follow the procedure to view recent calls on your radio.

- 1 Press  to access the menu.
- 2 Press  or  to Call Log. Press  to select.
- 3 Press  or  to the preferred list. Press  to select.

The options are Missed, Answered, and Outgoing lists.

The display shows the most recent entry.

-
- 4 Press  or  to view the list.

You can start a Private Call with the alias or ID the display is currently showing by pressing the **PTT** button.

Responding to Missed Calls

Whenever a call is missed, your radio displays a missed call message in the notification list. The display shows Missed Calls.

Do one of the following:

- Press  to view the missed call ID.
The missed call log list appears on display.
- Press  to store or delete the entry.

Storing Aliases or IDs from the Call List

Follow the procedure to store aliases or IDs on your radio from the Call list.

- 1 Press  to access the menu.

- 2 Press  or  to Call Log. Press  to select.

- 3 Press  or  to the required list. Press  to select.

- 4 Press  or  to the required alias or ID. Press  to select.

- 5 Press  or  to Store. Press  to select.
The display shows a blinking cursor.

- 6 Enter the rest of the characters of the required alias. Press  to select.
You can store an ID without an alias.
The display shows a positive mini notice.

Deleting Calls from the Call List

Follow the procedure to delete calls on your radio from the Call list.

- 1 Press  to access the menu.

- 2 Press  or  to Call Log. Press  to select.

- 3 Press  or  to the required list. Press  to select.
If the list is empty:
 - A tone sounds.
 - The display shows List Empty.

- 4 Press  or  to the required alias or ID. Press  to select.

- 5 Press  or  to Delete Entry?. Press  to select.

- 6 Do one of the following:
 - Press  to select Yes to delete the entry.

The display shows *Entry Deleted*.

- Press ▲ or ▼ to No. Press Ⓜ to select.

The radio returns to the previous screen.

Viewing Details from the Call List

Follow the procedure to view details on your radio from the Call list.

- 1 Press Ⓜ to access the menu.
 - 2 Press ▲ or ▼ to *Call Log*. Press Ⓜ to select.
 - 3 Press ▲ or ▼ to the required list. Press Ⓜ to select.
 - 4 Press ▲ or ▼ to the required alias or ID. Press Ⓜ to select.
 - 5 Press ▲ or ▼ to *View Details*. Press Ⓜ to select.
The display shows the details.
-

Call Alert Operation

Call Alert paging enables you to alert a specific radio user to call you back when they are able to do so.

This feature is applicable for subscriber aliases or IDs only and is accessible through the menu via *Contacts*, *manual dial*, or a programmed **One Touch Access** button.

Making Call Alerts

Follow the procedure to make Call Alerts on your radio.

- 1 Press the programmed **One Touch Access** button.
The display shows *Call Alert* and the subscriber alias or ID. The green LED lights up.
 - 2 Wait for acknowledgment.
If the Call Alert acknowledgment is received, the display shows a positive mini notice.

If the Call Alert acknowledgment is not received, the display shows a negative mini notice.
-

Responding to Call Alerts

Follow the procedure to respond to Call Alerts on your radio.

When you receive a Call Alert:

- A repetitive tone sounds.
- The yellow LED blinks.
- The display shows the notification list listing a Call Alert with the alias or ID of the calling radio.

Depending on the configuration by your dealer or system administrator, you can respond to a Call Alert by doing one of the following:

- Press the **PTT** button and respond with a Private Call directly to the caller.
- Press the **PTT** button to continue normal talkgroup communication.

The Call Alert is moved to the Missed Call option at the Call Log menu. You can respond to the caller from the Missed Called log.

See [Notification List](#) on page 98 and [Call Log Features](#) on page 70 for more information.

Making Call Alerts by Using the Contacts List

Follow the procedure to make Call Alerts on your radio by using the Contacts list.

- 1 Press  to access the menu.

- 2 Press  or  to **Contacts**. Press  to select.

- 3 Do one of the following:
 - Select the subscriber alias or ID directly
Press  or  to the required alias or ID.
Press  to select.
 - Use the **Manual Dial** menu
Press  or  to **Manual Dial**. Press  to select.
Press  or  to **Radio Contact**. Press  to select.
The display shows **Radio Number:** and a blinking cursor. Enter the subscriber ID you want to page. Press  to select.

- 4 Press ▲ or ▼ to Call Alert. Press  to select.
The display shows Call Alert and the subscriber alias or ID. The green LED lights up.

- 5 Wait for acknowledgment.
If the Call Alert acknowledgment is received, the display shows a positive mini notice.

If the Call Alert acknowledgment is not received, the display shows a negative mini notice.

Emergency Operation

An Emergency Alarm is used to indicate a critical situation. You are able to initiate an Emergency at any time even when there is activity on the current channel.

Your dealer can set the duration of a button press for the programmed **Emergency** button, except for long press, which is similar with all other buttons:

- Short Press** Duration between 0.05 seconds and 0.75 seconds.
- Long Press** Duration between 1.00 second and 3.75 seconds.

The **Emergency** button is assigned with the Emergency On/Off feature. Check with your dealer for the assigned operation of the **Emergency** button.



Note:

If short press the **Emergency** button is assigned to turn on the Emergency mode, then long press the **Emergency** button is assigned to exit the Emergency mode.

If long press the **Emergency** button is assigned to turn on the Emergency mode, then short press the **Emergency** button is assigned to exit the Emergency mode.

Your radio supports three Emergency Alarms:

- Emergency Alarm
- Emergency Alarm with Call
- Emergency Alarm with Voice to Follow

In addition, each alarm has the following types:

- Regular** Radio transmits an alarm signal and shows audio and/or visual indicators.
- Silent** Radio transmits an alarm signal without any audio or visual indicators. Radio receives calls without any sound through

the speaker, until the programmed *hot mic* transmission period is over and/or you press the **PTT** button.

Silent with Voice

Radio transmits an alarm signal without any audio or visual indicators, but allow incoming calls to sound through the speaker. If *hot mic* is enabled, the incoming calls sound through the speaker after the programmed *hot mic* transmission period is over. The indicators only appear once you press the **PTT** button.



Note:

Only one of the Emergency Alarms above can be assigned to the programmed **Emergency** button.

Sending Emergency Alarms

This feature allows you to send an Emergency Alarm, a non-voice signal, which triggers an alert indication on a group of radios. Follow the procedure to send Emergency Alarms on your radio.

Your radio does not display any audio or visual indicators during Emergency mode when it is set to Silent.

- 1 Press the programmed **Emergency On** button. You see the following:

- The display shows Tx Alarms and the destination alias.

The green LED lights up. The **Emergency** icon appears.



Note:

If programmed, the Emergency Search tone sounds. This tone is muted when the radio transmits or receives voice, and stops when the radio exits Emergency mode. The Emergency Search tone can be programmed via the CPS.

-
- 2 Wait for acknowledgment. If successful:

- The Emergency tone sounds.
- The green LED blinks.
- The display shows Alarm Sent.

If unsuccessful after all retries have been exhausted:

- A tone sounds.
- The display shows Alarm Failed.

The radio exits the Emergency Alarm mode and returns to the Home screen.

Sending Emergency Alarms with Call

This feature allows you to send an Emergency Alarm with Call to a group of radios. Upon acknowledgement by a radio within the group, the group of radios can communicate over a programmed Emergency channel.

Follow the procedure to send Emergency Alarms with call on your radio.

- 1 Press the programmed **Emergency On** button. You see the following:

- The display shows *Sending Alarm*, which alternates with your radio ID.

The green LED lights up. The **Emergency** icon appears.



Note:

If programmed, the Emergency Search tone sounds. This tone is muted when the radio transmits or receives voice, and stops when the radio exits Emergency mode. The Emergency Search tone can be

programmed by your dealer or system administrator.

-
- 2 Wait for acknowledgment. If successful:
 - The Emergency tone sounds.
 - The green LED blinks.
 - The display shows *Alarm Sent*.
-
- 3 Press the **PTT** button to make the call. The green LED lights up. The display shows the **Group Call** icon.
-
- 4 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
-
- 5 Release the **PTT** button to listen. The display shows the caller and group aliases.
-
- 6 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond to the call.
-
- 7 Press the **Emergency Off** button to exit the Emergency mode.

The radio returns to the Home screen.

Sending Emergency Alarms with Voice to Follow

This feature allows you to send an Emergency Alarm with Voice to Follow to a group of radios. Your radio microphone is automatically activated, allowing you to communicate with the group of radios without pressing the **PTT** button. This activated microphone state is also known as *hot mic*.

If your radio has Emergency Cycle Mode enabled, repetitions of *hot mic* and receiving period are made for a programmed duration. During Emergency Cycle Mode, received calls sound through the speaker.

If you press the **PTT** button during the programmed receiving period, you hear a prohibit tone, indicating that you should release the **PTT** button. The radio ignores the **PTT** button press and remains in Emergency mode.

If you press the **PTT** button during *hot mic*, and continue to press it after the *hot mic* duration expires, the radio continues to transmit until you release the **PTT** button.

If the Emergency Alarm request fails, the radio does not retry to send the request, and enters the *hot mic* state directly.



Note:

Some accessories may not support *hot mic*. Check with your dealer or system administrator for more information.

Follow the procedure to send Emergency Alarms with voice to follow on your radio.

- 1 Press the programmed **Emergency On** button. You see the following:

- The display shows Tx Alarm and the destination alias.

The green LED lights up. The **Emergency** icon appears.

- 2 Once the display shows Alarm Sent, speak clearly into the microphone.

The radio automatically stops transmitting when:

- The cycling duration between *hot mic* and receiving calls expires, if Emergency Cycle Mode is enabled.
- The *hot mic* duration expires, if Emergency Cycle Mode is disabled.

Receiving Emergency Alarms

Follow the procedure to receive Emergency Alarms on your radio.

When you receive an Emergency Alarm:

- A tone sounds.
- The red LED blinks.
- The display shows the **Emergency** icon, and the Emergency caller alias or if there is more than one alarm, all emergency caller aliases are displayed in an Alarm List.

1 Do one of the following:

- If only one alarm, press  to view more details.
- If more than one alarm, press  or  to the required alias, and press  to view more details.

2 Press  to view the action options.

3 Press  and select Yes to exit the Alarm list.

4 Press  to access the menu.

5 Select **Alarm List** to revisit the Alarm list.

Responding to Emergency Alarms

Follow the procedure to respond to Emergency Alarms on your radio.

1 Press  or  to the required alias or ID.

2 If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to transmit non-emergency voice to the same group the Emergency Alarm targeted. The green LED lights up. Your radio remains in the Emergency mode.

3 Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.

4 Release the **PTT** button to listen. When the emergency initiating radio responds:

- The green LED blinks.

- The display shows the **Group Call** icon and ID, transmitting radio ID, and the Alarm list.

Emergency voice can only be transmitted by the emergency initiating radio. All other radios, including the emergency receiving radio, transmit non-emergency voice.

Exiting Emergency Mode After Receiving the Emergency Alarm

Follow the procedure to exit Emergency mode after receiving Emergency alarm.

Delete the alarm items.

Deleting an Alarm Item from the Alarm List

Follow the procedure to delete the alarm items from the Alarm List, to exit Emergency mode.

- 1 Press  to access the menu.
- 2 Press  or  to Alarm List. Press  to select.
- 3 Press  or  to the required alarm item. Press  to select.

- 4 Press  or  to Delete. Press  to select.

Reinitiating Emergency Mode

This feature is only applicable to the radio sending the Emergency Alarm. Follow the procedure to reinitiate Emergency mode on your radio.

Do one of the following:

- Change the channel while the radio is in Emergency mode.

The radio exits the Emergency mode, and reinitiates Emergency, if Emergency Alarm is enabled on the new channel.

- Press the programmed **Emergency On** button during an Emergency initiation or transmission state.

The radio exits this state, and reinitiates Emergency.

Exiting Emergency Mode After Sending the Emergency Alarm

This feature is only applicable to the radio sending the Emergency Alarm.

Your radio exits Emergency mode when:

- An acknowledgment is received (for Emergency Alarm only).
- All retries to send the alarm have been exhausted.
- Your radio is turned off.

**Note:**

Your radio does not reinitiate the Emergency mode automatically when it is powered up again.

Follow the procedure to exit Emergency mode on your radio.

Do one of the following:

- Press the programmed **Emergency Off** button.
- Change the channel to a new channel that has no emergency system configured.

The display shows No Emergency.

Man Down

**Note:**

This feature is applicable to SL7550e/SL7590e/SL7580e only.

This feature prompts an emergency to be raised if there is a change in the motion of the radio, such as

the tilt of the radio, motion and/or the lack of motion for a predefined time.

Following a change in the motion of the radio for a programmed duration, the radio pre-warns the user via an audio indicator indicating that a change in motion is detected.

If there is still no acknowledgment by the user before the predefined reminder timer expires, the radio initiates an Emergency Alarm or an Emergency Call. You can program the reminder timer via CPS.

Turning the Man Down Feature On or Off

**Note:**

This feature is applicable to SL7550e/SL7590e/SL7580e only. The programmed **Man Down** button and Man Down settings are assigned via CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

If you disable the Man Down feature, the programmed alert tone sounds repeatedly until the Man Down feature is enabled. A device failure tone sounds when the Man Down feature fails while powering up. The device

failure tone continues until the radio resumes normal operation.

If you enable Man Down to maximum sensitivity and set Vibrate Style to high, the radio automatically restricts Vibrate Style to medium. This function prevents high Vibrate Style from initiating the Man Down emergency feature.

You can enable or disable this feature by performing one of the following actions.

- Press the programmed **Man Down** button to toggle the feature on or off.
-
- Access this feature via the menu.
 - a) Press  to access the menu.
 - b) Press  or  to Utilities. Press  to select.
 - c) Press  or  to Radio Settings. Press  to select.
 - d) Press  or  to Man Down. Press  to select.

You can also use  or  to change the selected option.

- e) Press  to enable or disable Man Down.

If enabled,  appears besides Enabled.

If disabled,  disappears beside Enabled.

Text Messaging Features

Your radio is able to receive data, for example a text message, from another radio or an e-mail application.

The maximum length of characters when you send and receive a text message is 280 characters which includes the subject line. You see the subject line when you receive messages from e-mail applications.



Note:

The maximum length of 280 characters is applicable only for models with the latest software and hardware. On older hardware, the text message will be truncated to the maximum length of 140 characters. Check with your dealer or system administrator for more information.

The Inbox is capable of storing a maximum of 30 messages.

The radio exits the current screen once the inactivity timer expires. Text messages in the typing screen are automatically saved to the Drafts folder.

If you long press  at any time, you return to the Home screen.



Note:

If the channel type is not a match, you can only edit, forward, or delete Sent text messages; forward, delete, or delete all Received text messages; and edit or forward Fail-to-Send text messages.

Writing Text Messages

Follow the procedure to write text message on your radio.

- 1 Do one of the following:
 - Press the programmed **Text Message** button. Proceed to Step 3.
 - Press  to access the menu.

- 2 Press  or  to Messages. Press  to select.

- 3 Press  or  to Compose. Press  to select. A blinking cursor appears.

- 4 Use the keypad to type your message.

Press  to move one space to the left.

Press  or  to move one space to the right.

Press  to delete any unwanted characters.

Long press  to change text entry method.

- 5 Press  once message is composed. Do one of the following:

- Press  to send the message.
- Press . Press  or  to choose among editing, deleting, or saving the message. Press  to select.

Sending Text Messages

Follow the procedure to send text message on your radio.

It is assumed that you have a newly written text message or a saved text message.

Select the message recipient. Do one of the following:

- Press ▲ or ▼ to the required alias or ID.

Press  to select.

- Press ▲ or ▼ to Manual Dial. Press  to select. The first line of the display shows Radio Number: . The second line of the display shows a blinking cursor. Key in the subscriber alias or ID. Press .

The display shows transitional mini notice, confirming your message is being sent.

If successful:

- A tone sounds.
- The display shows positive mini notice.

If unsuccessful:

- A low tone sounds.
- The display shows negative mini notice.
- The message is moved to the Sent Items folder.
- The message is marked with a Send Failed icon.



Note:

For a newly written text message, the radio returns you to the Resend option screen.

Sending Quick Text Messages

Follow the procedure to send predefined Quick Text messages on your radio to a predefined alias.

1 Do one of the following:

- Press the programmed **Text Message** button. Proceed to 3.
- Press  to access the menu.

2

Press ▲ or ▼ to Messages. Press  to select.

3

Press ▲ or ▼ to Quick Text. Press  to select.

- 4 Press ▲ or ▼ to the required Quick Text message. Press  to select.
If required, use the keypad to edit the message.

- 5 Press  once the message is composed.

- 6 Do the following to select the recipient and send the message.
 - a) Press ▲ or ▼ to the required alias or ID.
Press  to select.
 - b) Press ▲ or ▼ to Manual Dial. Press  to select.
The first line of the display shows Radio Number: and the second line shows a blinking cursor.
 - c) Key in the subscriber alias or ID and press .
The display shows a transitional mini notice, confirming that your message is being sent.

- 7 Wait for acknowledgment.
If successful:
 - A positive indicator tone sounds.

- The display shows a positive mini notice.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Saved Text Messages

You can save a text message to send it at a later time.

If a PTT button press or a mode change causes the radio to exit the text message writing/editing screen while you are in the process of writing or editing a text message, your current text message is automatically saved to the Drafts folder.

The most recent saved text message is always added to the top of the Drafts list.

The Drafts folder stores a maximum of ten (10) last saved messages. When the folder is full, the next saved text message automatically replaces the oldest text message in the folder.

Viewing Saved Text Messages

Follow the procedure to view saved text message on your radio.

- 1 Do one of the following:

- Press the programmed **Text Message** button. Proceed to Step 3.
- Press  to access the menu.

2 Press  or  to Messages. Press  to select.

3 Press  or  to Drafts. Press  to select.

4 Press  or  to the required message. Press  to select.

Editing Saved Text Messages

Follow the procedure to edit saved text message on your radio.

1 Press  while viewing the message.

2 Press  or  to Edit. Press  to select. A blinking cursor appears.

3 Use the keypad to type your message.

Press  to move one space to the left.

Press  or  to move one space to the right.

Press  to delete any unwanted characters.

Long press  to change text entry method.

4 Press  once message is composed. Do one of the following:

- Press  or  to Send. Press  to send the message.
 - Press . Press  or  to choose between saving or deleting the message. Press  to select.
-

Deleting Saved Text Messages from the Drafts Folder

Follow the procedure to delete saved text message from drafts on your radio.

1 Do one of the following:

- Press the programmed **Text Message** button. Proceed to Step 3.

- Press  to access the menu.

2 Press  or  to Messages. Press  to select.

3 Press  or  to Drafts. Press  to select.

4 Press  or  to the required message. Press  to select.

5 Press  again while viewing the message.

6 Press  or  to Delete. Press  to delete the text message.

Resending Text Messages

Follow the procedure to resend text messages on your radio.

When you are at the **Resend** option screen:

- Press  to resend the same message to the same subscriber or group alias or ID.
If successful:

- A tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A tone sounds.
- The display shows a negative mini notice.
- The radio returns to the **Resend** option screen.

Forwarding Text Messages

Follow the procedure to forward text messages on your radio.

When you are at the **Resend** option screen:

- 1 Press  or  to Forward, and press  to send the same message to another subscriber or group alias or ID.
- 2 Do the following to select the message recipient.
 - a) Press  or  to the required alias or ID.
Press  to select.
 - b) Press  or  to Manual Dial. Press  to select.

The first line of the display shows Radio Number: and the second line shows a blinking cursor.

- c) Key in the subscriber alias or ID and press .

The display shows Text Message:<Subscriber/Group Alias or ID>, confirming that your message is being sent.

3 Wait for acknowledgment.

If successful:

- A tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A tone sounds.
- The display shows a negative mini notice.

Editing Text Messages

Select Edit to edit the message.



Note:

If a subject line is present (for messages received from an e-mail application), you cannot edit it.

- 1 Press  or  to Edit. Press  to select. The display shows a blinking cursor.

2 Use the keypad to edit your message.

- Press  to move one space to the left.
- Press  or  to move one space to the right.
- Press  to delete any unwanted characters.
- Long press  to change text entry method.

3 Press once message is composed.

4 Do one of the following:

- Press  or  to Send and press  to send the message.
- Press  or  to Save and press  to save the message to the Drafts folder.
- Press  to edit the message.

- Press  to choose between deleting the message or saving it to the Drafts folder.

Viewing Sent Text Messages

Follow the procedure to view sent text messages on your radio.

- 1 Do one of the following:
 - Press the programmed **Text Message** button. Proceed to Step 3.
 - Press  to access the menu.

-
- 2 Press  or  to Messages. Press  to select.

-
- 3 Press  or  to Sent Items. Press  to select.

If the Sent Items folder is empty:

- The display shows List Empty.
- A low tone sounds, if the Keypad Tone is turned on.

-
- 4 Press  or  to the required message. Press  to select.

The display shows a subject line if the message is from an e-mail application.

Sending Sent Text Messages

Follow the procedure to send a sent text messages on your radio.

When you are viewing a Sent message:

- 1 Press .

-
- 2 Press  or  to Resend. Press  to select. The display shows a transitional mini notice, confirming your message is being sent.

-
- 3 Wait for acknowledgment.
If successful:

- A tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A tone sounds.
- The display shows a negative mini notice.

- The radio proceeds to the **Resend** option screen. See [Resending Text Messages](#) on page 83 for more information.

Responding to Text Messages

Follow the procedure to respond to text messages on your radio.

When you receive a text message:

- The display shows the Notification list with the alias or ID of the sender.
- The display shows the **Message** icon.



Note:

The radio exits the Text Message alert screen and sets up a Private or Group Call to the sender of the message if the **PTT** button is pressed.

1 Do one of the following:

- Press or to **Read**. Press to select.
The display shows the text message. The display shows a subject line if the message is from an e-mail application.

- Press or to **Read Later**. Press to select.

The radio returns to the screen you were on prior to receiving the text message.

- Press or to **Delete**. Press to select.

2

Press to return to the Inbox.

Viewing Text Messages

Follow the procedure to view text messages on your radio.

1

Press to access the menu.

2

Press or to **Messages**. Press to select.

3

Press or to **Inbox**. Press to select.

If the Inbox is empty:

- The display shows **List Empty**.
- A tone sounds, if the Keypad Tone is turned on.

- 4 Press ▲ or ▼ to the required message. Press  to select.
The display shows a subject line if the message is from an e-mail application.

Viewing Telemetry Status Text Messages

Follow the procedure to view a telemetry status text message from the inbox.

- 1 Press  to access the menu.
-
- 2 Press ▲ or ▼ to Messages. Press  to select.
-
- 3 Press ▲ or ▼ to Inbox. Press  to select.
-
- 4 Press ▲ or ▼ to the required message. Press  to select.
You cannot reply to a Telemetry Status text message.
The display shows Telemetry: <Status Text Message>.

- 5 Long press  to return to the Home screen.

Deleting Text Messages from the Inbox

Follow the procedure to delete text messages from the Inbox on your radio.

- 1 Do one of the following:
- Press the programmed **Text Message** button. Proceed to Step 3.
 - Press  to access the menu.
-
- 2 Press ▲ or ▼ to Messages. Press  to select.
-
- 3 Press ▲ or ▼ to Inbox. Press  to select.
If the Inbox is empty:
- The display shows List Empty.
 - A tone sounds.
-
- 4 Press ▲ or ▼ to the required message. Press  to select.
The display shows a subject line if the message is from an e-mail application.

- 5 Press  to access the sub-menu.

- 6 Press  or  to Delete. Press  to select.

- 7 Press  or  to Yes. Press  to select.
The display shows a positive mini notice. The screen returns to the Inbox.

Deleting All Text Messages from the Inbox

Follow the procedure to delete all text messages from the Inbox on your radio.

- 1 Do one of the following:
 - Press the programmed **Text Message** button. Proceed to Step 3.
 - Press  to access the menu.

- 2 Press  or  to Messages. Press  to select.

- 3 Press  or  to Inbox. Press  to select.
If the Inbox is empty:
 - The display shows List Empty.

- A tone sounds.

- 4 Press  or  to Delete All. Press  to select.

- 5 Press  or  to Yes. Press  to select.
The display shows a positive mini notice.

Job Tickets

This feature allows your radio to receive Job Tickets, which are messages from the dispatcher listing out tasks to perform.

You can respond to Job Tickets in order to sort them into Job Ticket Folders. By default, the folders are "All", "New", "Started", and "Completed".

Your radio supports a maximum of 100 Job Tickets, all of which can be seen in the "All" folder. New Job Tickets and Job Tickets with recent change in state are listed first. Upon reaching the maximum number of Job Tickets, the next Job Ticket automatically replaces the last Job Ticket in your radio.

Job Tickets are retained even after radio is powered down and powered up again.

Your radio automatically detects and discards the duplicated Job Tickets with the same subject line.

Accessing the Job Ticket Folder

Follow the procedure to access the Job Ticket folder.

- 1 Do one of the following:
 - Press the programmed **Job Ticket** button. Proceed to Step 3.
 - Press  to access the menu.

- 2 Press  or  to Job Tickets. Press  to select.

- 3 Press  or  to the required folder. Press  to select.

- 4 Press  or  to the required Job Ticket. Press  to select.

Logging In or Out of the Remote Server

This feature allows you to log in and log out of the remote server by using your user ID via the menu.

- 1 Press  to access the menu.

- 2 Press  or  to Log In. Press  to select.
If you are already logged in, menu displays Log Out.

The display shows a transitional mini notice, confirming that you have been logged in successfully.

If you have failed to log in, the display shows a negative mini notice.

Sending Job Tickets Using One Job Ticket Template

If your radio is configured with one Job Ticket template, perform the following actions to send the Job Ticket.

- 1 Use the keypad to type the required room number.
Press  to select.

- 2  or  to Room Status. Press  to select.

- 3 ▲ or ▼ to the required option. Press  to select.
-

- 4 ▲ or ▼ to Send. Press  to select.
The display shows transitional mini notice, confirming your message is sent.

If the message is not sent, the display shows negative mini notice.
-

Sending Job Tickets Using More Than One Job Ticket Template

If your radio is configured with more than one Job Ticket template, perform the following actions to send the Job Tickets.

- 1 ▲ or ▼ to the required option. Press  to select.
-

- 2 ▲ or ▼ to Send. Press  to select.
The display shows transitional mini notice, confirming your message is sent.

If the message is not sent, the display shows negative mini notice.
-

Responding to Job Tickets

- 1 Press  to access the menu.
-
- 2 ▲ or ▼ to Job Tickets. Press  to select.
-
- 3 ▲ or ▼ to the required folder. Press  to select.
-
- 4 ▲ or ▼ to the required job ticket. Press  to select.
-
- 5 Press  once more to access the sub-menu.
You can also press the corresponding number key (1–9) to **Quick Reply**.
-
- 6 ▲ or ▼ to the required job ticket. Press  to select.

The display shows transitional mini notice, confirming your message being sent.

If successful:
- A positive indicator tone sounds.

- The display shows a positive mini notice.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Deleting Job Tickets

Follow the procedure to delete job tickets on your radio.

1 Do one of the following:

- Press the programmed **Job Ticket** button.
Proceed to Step 3
- Press  to access the menu.

2  or  to Job Tickets. Press  to select.

3  or  to All. Press  to select.

4  or  to the required Job Ticket. Press  to select.

5 Press  again while viewing the Job Ticket.

6  or  to Delete. Press  to select.

Privacy

This feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software-based scrambling solution. The signaling and user identification portions of a transmission are not scrambled.

Your radio must have privacy enabled on the channel to send a privacy-enabled transmission, although this is not a necessary requirement for receiving a transmission. While on a privacy-enabled channel, the radio is still able to receive clear or unscrambled transmissions.

Your radio supports two types of privacy, but only **one** can be assigned to your radio. They are:

- Basic Privacy
- Enhanced Privacy

To unscramble a privacy-enabled call or data transmission, your radio must be programmed to have the same Privacy Key for Basic Privacy, or the same Key Value and Key ID for Enhanced Privacy as the transmitting radio.

If your radio receives a scrambled call that is of a different Privacy Key, or different Key Value and Key ID, you will either hear a garbled transmission for Basic Privacy or nothing at all for Enhanced Privacy.

If the radio has a privacy type assigned, the Home Screen shows the Secure or Unsecure icon, except when the radio is sending or receiving an Emergency call or alarm.

The green LED lights up when the radio is transmitting, and blinks rapidly when the radio is receiving an ongoing privacy-enabled transmission.



Note:

Some radio models may not offer this Privacy feature, or may have a different configuration. Check with your dealer or system administrator for more information.

Multi-Site Controls

These features are applicable when your current radio channel is part of an IP Site Connect or Capacity Plus--Multi-Site configuration.

Starting Manual Site Search

Follow the procedure to start manual site search when the received signal strength is poor in order to attempt to find a site with better signal.

1 Do one of the following:

- Press the programmed **Manual Site Roam** button. Skip the following steps.
- Press to access the menu.

2 Press or to Utilities. Press to select.

3 Press or to Radio Settings. Press to select.

4 Press or to Site Roaming. Press to select.

5 Press or to Active Search. Press to select.
A tone sounds. The green LED blinks. The display shows Finding Site.

If the radio finds a new site:

- A positive indicator tone sounds.
- The LED turns off.

- The display shows `Site <Alias> Found`.

If the radio fails to find a new site:

- A negative indicator tone sounds.
- The LED turns off.
- The display shows `Out of Range`.

If a new site is within range, but the radio is unable to connect to it:

- A negative indicator tone sounds.
- The LED turns off.
- The display shows `Channel Busy`.

Site Lock On/Off

When toggled on, the radio searches the current site only. When toggled off, the radio searches other sites in addition to the current site.

Press the programmed **Site Lock** button.

If the **Site Lock** function is toggled on:

- You hear a positive indicator tone, indicating the radio has locked to the current site.
- The display shows `Site Locked`.

If the **Site Lock** function is toggled off:

- You hear a negative indicator tone, indicating the radio is unlocked.
- The display shows `Site Unlocked`.

Security

This feature allows you to enable or disable any radio in the system. For example, you may want to disable a stolen radio to prevent unauthorized users from using it, and enable the radio when it is recovered.

You can enable or disable a radio by using one of these features:

- Programmable Button
- Contacts List
- Manual Dial (via Contacts)

You will not receive an acknowledgment if you press



during Radio Enable or Radio Disable operation.



Note:

Check with your dealer or system administrator for more information.

Enabling Radios

Follow the procedure to enable your radio.

- 1 Press the programmed **Radio Enable** button.

- 2 Press ▲ or ▼ to the required alias or ID. Press  to select.
The display shows **Radio Enable** and the subscriber alias or ID. The green LED lights up.

- 3 Wait for acknowledgment.
If successful:
 - A positive indicator tone sounds.
 - The display shows a positive mini notice.
 If unsuccessful:
 - A negative indicator tone sounds.
 - The display shows a negative mini notice.

Disabling Radios

Follow the procedure to disable your radio.

- 1 Press the programmed **Radio Disable** button.

- 2 Press ▲ or ▼ to the required alias or ID. Press  to select.

The display shows a transitional mini notice, indicating the request is in progress. The green LED blinks.

- 3 Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Lone Worker

This feature prompts an emergency to be raised if there is no user activity, such as any radio button press or activation of the channel selector, for a predefined time.

Following no user activity for a programmed duration, the radio pre-warns the user via an audio indicator once the inactivity timer expires.

If there is still no acknowledgment by the user before the predefined reminder timer expires, the radio initiates an Emergency Alarm.

Only one of the following Emergency Alarms is assigned to this feature:

- Emergency Alarm
- Emergency Alarm with Call
- Emergency Alarm with Voice to Follow

The radio remains in the emergency state, allowing voice messages to proceed until action is taken. See [Emergency Operation](#) on page 292 for more information on ways to exit Emergency.



Note:

Check with your dealer or system administrator for more information.

Password Lock Features

This feature allows you to restrict access to the radio by asking for a password when the device is turned on

Accessing Radios by Using Passwords

Follow the procedure to access your radio by using a password.

1 Enter the current four-digit password.

- Press ▲ or ▼ to edit the numeric value of each digit, and press  to enter and move to the next digit.

2

Press  to enter the password.

If successful, the radio powers up.

If unsuccessful:

- After the first and second attempt, the display shows `Wrong Password`. Repeat Step 1.
- After the third attempt, the display shows `Wrong Password` and then, `Radio Locked`. A tone sounds. The yellow LED double blinks. Your radio enters into locked state for 15 minutes.



Note:

In locked state, your radio responds to inputs from **On/Off/Volume Control Knob** and programmed **Backlight** button only.

Unlocking Radios in Locked State

Your radio is unable to receive any call, including emergency calls, in locked state. Follow the procedure to unlock your radio in locked state.

- 1 Power up the radio.
Your radio restarts the 15-minutes timer for locked state.

- 2 Wait for 15 minutes.
Your radio responds only to **On/Off** button in locked state.

- 3 Repeat the steps in [Accessing Radios by Using Passwords](#) on page 90 to access the radio.

Changing Passwords

Follow the procedure to change passwords on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Passwd Lock. Press  to select.

- 5 Enter the current four-digit password, and press  to proceed.
If the password is incorrect, the display shows **Wrong Password** and automatically returns to the previous menu.

- 6 Press  or  to Change PWD. Press  to select.

- 7 Enter a new four-digit password, and press  to proceed.

- 8 Re-enter the new four-digit password, and press  to proceed.
If successful, the display shows **Password Changed**.

If unsuccessful, the display shows **Passwords Do Not Match**.

The screen automatically returns to the previous menu.

Bluetooth

This feature allows you to use your radio with a Bluetooth-enabled device (accessory) via a Bluetooth connection. Your radio supports both Motorola and COTS (Commercially available Off-The-Shelf) Bluetooth-enabled devices.

Bluetooth operates within a range of 10 meters (32 feet) line of sight. This is an unobstructed path between your radio and your Bluetooth-enabled device. It is not recommended that you leave your radio behind and expect your Bluetooth-enabled device to work with a high degree of reliability when they are separated.

At the fringe areas of reception, both voice and tone quality will start to sound "garbled" or "broken". To correct this problem, simply position your radio and Bluetooth-enabled device closer to each other (within the 10-meter defined range) to re-establish clear audio reception. The Bluetooth function of your radio

has a maximum power of 2.5 mW (4 dBm) at the 10-meter range.

Your radio can support up to three simultaneous Bluetooth connections with Bluetooth-enabled devices of unique types. For example, a headset, a scanner, and a PTT-Only Device (POD). Multiple connections with Bluetooth-enabled devices of the same type are not supported.

Refer to the user manual of your respective Bluetooth-enabled device for more details on the full capabilities of your Bluetooth-enabled device.

Your radio connects to the Bluetooth-enabled device within range with either the strongest signal strength, or to one which it has connected to before in a prior session. Do not turn off your Bluetooth-enabled

device or press the home back button  during the finding and connecting operation as this cancels the operation.

Turning Bluetooth On and Off

- 1 Press  to access the menu.
-

2 Press ▲ or ▼ to Bluetooth. Press Ⓜ to select.

3 Press ▲ or ▼ to My Status. Press Ⓜ to select.
The display shows On and Off. The current status is indicated by a ✓.

4 Do one of the following:

- Press ▲ or ▼ to On. Press Ⓜ to select. The display shows ✓ beside On.
- Press ▲ or ▼ to Off. Press Ⓜ to select. The display shows ✓ beside Off.

Connecting to Bluetooth Devices

Turn on your Bluetooth-enabled device and place it in pairing mode.

1 Press Ⓜ to access the menu.

2 Press ▲ or ▼ to Bluetooth. Press Ⓜ to select.

3 Press ▲ or ▼ to Devices. Press Ⓜ to select.

4 Do one of the following:

- Press ▲ or ▼ to the required device. Press Ⓜ to select.
- Press ▲ or ▼ to Find Devices to locate available devices. Press ▲ or ▼ to the required device. Press Ⓜ to select.

5 Press ▲ or ▼ to Connect. Press Ⓜ to select.
Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to the user manual of your Bluetooth-enabled device.
The display shows Connecting to <Device>.

Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows <Device> Connected and the **Bluetooth Connected** icon.
- The display shows ✓ beside the connected device.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows *Connecting Failed*.

Connecting to Bluetooth Devices in Discoverable Mode

Turn on your Bluetooth-enabled device and place it in pairing mode.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Find Me. Press  to select. The radio can now be found by other Bluetooth-enabled devices for a programmed duration. This is called Discoverable Mode.

Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.
- The display shows <Device> Connected and the **Bluetooth Connected** icon.

- The display shows  beside the connected device.

If unsuccessful:

- A negative indicator tone sounds.
- The display shows *Connecting Failed*.

Disconnecting from Bluetooth Devices

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Devices. Press  to select.

- 4 Press  or  to the required device. Press  to select.

- 5 Press  or  to Disconnect. Press  to select. The display shows *Disconnecting from <Device>*.

Wait for acknowledgment.

- A tone sounds.
- The display shows <Device> Disconnected and the **Bluetooth Connected** icon disappears.
- The ✓ disappears beside the connected device.

Switching Audio Route between Internal Radio Speaker and Bluetooth Device

Follow the procedure to toggle audio routing between internal radio speaker and external Bluetooth device.

Press the programmed **Bluetooth Audio Switch** button.

The display shows one of the following results:

- A tone sounds. The display shows Route Audio to Radio.
- A tone sounds. The display shows Route Audio to Bluetooth.

Viewing Device Details

Follow the procedure to view the device details on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Devices. Press  to select.

- 4 Press  or  to the required device. Press  to select.

- 5 Press  or  to View Details. Press  to select.

Editing Device Name

Follow the procedure to edit the name of available Bluetooth-enabled devices.

- 1 Press  to access the menu.

- 2 Press  or  to Bluetooth. Press  to select.

- 3 Press  or  to Devices. Press  to select.

- 4 Press ▲ or ▼ to the required device. Press  to select.
-

- 5 Press ▲ or ▼ to Edit Name. Press  to select.
-

- 6 Enter a new device name. Press  to select.
The display shows Device Name Saved.
-

Deleting Device Name

You can remove a disconnected device from the list of Bluetooth-enabled devices.

- 1 Press  to access the menu.

 - 2 Press ▲ or ▼ to Bluetooth. Press  to select.

 - 3 Press ▲ or ▼ to Devices. Press  to select.

 - 4 Press ▲ or ▼ to the required device. Press  to select.
-

- 5 Press ▲ or ▼ to Delete. Press  to select.
The display shows Device Deleted.
-

Adjusting Bluetooth Mic Gain Values

Allows control of microphone gain value in connected Bluetooth-enabled devices.

- 1 Press  to access the menu.

 - 2 Press ▲ or ▼ to Bluetooth. Press  to select.

 - 3 Press ▲ or ▼ to BT Mic Gain. Press  to select.

 - 4 Press ▲ or ▼ to the BT Mic Gain type and the current values. To edit values, press  to select.

 - 5 Press ▲ or ▼ to increase or to decrease values.
Press  to select.
-

Permanent Bluetooth Discoverable Mode



Note:

The Permanent Bluetooth Discoverable Mode must be enabled by the dealer or system administrator. If enabled, Bluetooth is **not** displayed in the Menu and you cannot use any Bluetooth programmable button features.

Other Bluetooth-enabled devices can locate your radio, but the devices cannot connect to the radio.

The Permanent Bluetooth Discoverable Mode enables dedicated devices to use your radio position in the process of Bluetooth-based location.

Indoor Location



Note:

Indoor Location feature is applicable for models with the latest software and hardware. Check with your dealer or system administrator for more information.

Indoor Location can be used to keep track of radio users location while indoors. When Indoor Location is activated, the radio is in a limited discoverable mode. Dedicated beacons are used to locate the radio and determine its position.

Turning Indoor Location On or Off

You can turn on or turn off Indoor Location by performing one of the following actions.

- Access this feature via the menu.
 - a) Press to access the menu.
 - a) Press or to Bluetooth and press to select.
 - a) Press or to Indoor Location and press to select.
 - b) Press to turn on Indoor Location.
The display shows Indoor Location On. You hear a good key tone.
One of the following scenarios occurs.
 - If successful, the Indoor Location Available icon appears on the Home screen display.
 - If unsuccessful, the display shows Turning On Failed. You hear a bad key tone.
 - c) Press to turn off Indoor Location.
The display shows Indoor Location Off.
You hear a good key tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon disappears on the Home screen display.
- If unsuccessful, the display shows **Turning Off Failed**. You hear a bad key tone.

-
- Access this feature via the programmed button.
 - a) Long press the programmed **Indoor Location** button to turn on Indoor Location.
The display shows **Indoor Location On**. You hear a positive tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon appears on the Home screen display.
- If unsuccessful, the display shows **Turning On Failed**. If unsuccessful, you hear a negative tone.

- b) Press the programmed **Indoor Location** button to turn off Indoor Location.
The display shows **Indoor Location Off**. You hear a positive tone.

One of the following scenarios occurs.

- If successful, the Indoor Location Available icon disappears on the Home screen display.
- If unsuccessful, the display shows **Turning Off Failed**. If unsuccessful, you hear a negative tone.

Accessing Indoor Location Beacons Information

Displays information on Indoor Location Beacons.

- 1 Press  to access the menu.
- 2 Press  or  to **Bluetooth** and press  to select.
- 3 Press  or  to **Indoor Location** and press  to select.
- 4 Press  or  to **Beacons** and press  to select.

The display shows the beacons information.

Notification List

Your radio has a Notification list that collects all your unread events on the channel, such as unread text messages, telegrams, missed calls and call alerts.

The display shows the **Notification** icon when the Notification list has one or more events.

The list supports a maximum of 40 unread events. When the list is full, the next event automatically replaces the oldest event. After the events are read, they are removed from the Notification list.

For text messaging and missed call/call alert notification events, the maximum number are 30 text messages and 10 missed calls/call alerts. This maximum number depends on individual feature (job tickets or text messages or missed calls/ call alerts) list capability.

Accessing Notification List

Follow the procedure to access the Notification list on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Notification. Press  to select.

- 3 Press  or  to the required event. Press  to select.

- 4 Long press  to return to the Home screen.

Over-the-Air Programming

Your dealer can remotely update your radio via Over-the-Air Programming (OTAP) without physical connection. Additionally, some settings can also be configured via OTAP.

When your radio undergoes OTAP, the green LED blinks.

When your radio receives high volume data:

- The display shows the **High Volume Data** icon.
- The channel becomes busy.
- A negative tone sounds if you press the **PTT** button.

When OTAP completes, depending on the configuration:

- A tone sounds. The display shows `Updating Restarting`. Your radio restarts by powering off and on again.
- You can select `Restart Now` or `Postpone`. When you select `Postpone`, your radio returns to the previous screen. The display shows the **OTAP Delay Timer** icon until the automatic restart occurs.

When your radio powers up after automatic restart:

- If successful, the display shows `Sw Update Completed`.
- If unsuccessful, the display shows `Sw Update Failed`.

See [Checking Software Update Information](#) on page 112 for the updated software version.

Transmit Inhibit

Transmit inhibit feature allow users to block all transmission from the radio.



Note:

Bluetooth and Wi-Fi features are available in Transmit Inhibit mode.

Enabling Transmit Inhibit

Perform one of the following actions:

- Press  or  to `Tx Inhibit` and press  to select.
- Press the **Transmit Inhibit** programmable button.

The display shows `Tx Inhibit On`. You hear a positive indicator tone, indicating that transmission is inhibited.



Note:

The status of the Transmit Inhibit does not change after the radio powers up.

Disabling Transmit Inhibit

Perform one of the following actions:

- Press  or  to `Tx Inhibit` and press  to select.
- Press the **Transmit Inhibit** programmable button.

The display shows Tx Inhibit Off. You hear a negative indicator tone to indicate transmission is back to normal operation.

Wi-Fi Operation

Wi-Fi® is a registered trademark of Wi-Fi Alliance®.



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

This feature allows you to setup and connect to a Wi-Fi® network. Wi-Fi supports updates for radio firmware, codeplug, and resources such as language packs and voice announcement.

Turning Wi-Fi On or Off



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

The programmed **Wi-Fi On or Off** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can turn on or turn off Wi-Fi® by performing one of the following actions.

- Press the programmed **Wi-Fi On or Off** button. Voice Announcement sounds Turning On Wi-Fi or Turning Off Wi-Fi.

-
- Access this feature via the menu.
 - a) Press to access the menu.
 - b) Press or to Wi-Fi and press to select.
 - c) Press or to Wi-Fi Status and press to select.

Press to turn on Wi-Fi. The display shows beside Enabled.

Press to turn off Wi-Fi. The disappears from beside Enabled.

If Wi-Fi is enabled and a low capacity battery is used, an alert screen is displayed upon power up with the following notice.

- Low Capacity Battery!
- Tx power restricted to 2W and Wi-Fi disabled.

- Use a compatible battery to lift restriction.
- Press  to continue.

Lift the restriction to enable 3W operation and Wi-Fi by performing the following action. Power off the radio and change to a compatible battery such as Lithium-ion 1800 mAh Battery Pack (HKNN4013_), Lithium-ion 2200 mAh Battery Pack (PMNN4459_) or Lithium-ion 2300mAh Battery Pack (PMNN4468_).

If Wi-Fi is disabled and a low capacity battery is used, the transmit power is restricted to 2W.

Connecting to a Network Access Point



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

When you turn on Wi-Fi®, the radio scans and connects to a network access point.

You can also connect to a network access point via the menu.

- 1 Press  to access the menu.

- 2 Press  or  to Wi-Fi and press  to select.

- 3 Press  or  to Networks and press  to select.

- 4 Press  or  to a network access point and press  to select.

- 5 Press  or  to Connect and press  to select.

- 6 Enter the password and press . When the connection is successful, the radio displays a notice and the network access point is saved into the profile list.

Refreshing the Network List



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

- Perform the following actions to refresh the network list.

- a) Press  to access the menu.
- b) Press  or  to **WiFi** and press  to select.
- c) Press  or  to **Networks** and press  to select.
When you enter the Networks menu, the radio automatically refreshes the network list.

- If you are already in the Networks menu, perform the following action to refresh the network list.

- a) Press  or  to **Refresh** and press  to select.

The radio refreshes and displays the latest network list.

Adding a Network



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

If a preferred network is not in the available network list, perform the following actions to add a network.

- 1 Press  to access the menu.
 - 2 Press  or  to **WiFi** and press  to select.
 - 3 Press  or  to **Networks** and press  to select.
 - 4 Press  or  to **Add Network** and press  to select.
 - 5 Enter the Service Set Identifier (SSID) and press .
 - 6 Press  or  to **Open** and press  to select.
 - 7 Enter the password and press .
- The radio displays  to indicate that the network is successfully saved.

Viewing Details of Network Access Points



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only.

Perform the following actions to view details of network access points.

- 1 Press to access the menu.

- 2 Press or to **WiFi** and press to select.

- 3 Press or to **Networks** and press to select.

- 4 Press or to a network access point and press to select.

- 5 Press or to **View Details** and press to select.

For a connected network access point, the Service Set Identifier (SSID), Security Mode, Media Access Control (MAC) address, and Internet Protocol (IP) address are displayed.

For a non-connected network access point, the Service Set Identifier (SSID) and Security Mode are displayed.

Removing Network Access Points



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only. Enterprise network access points that are added via CPS can only be removed via CPS.

Perform the following actions to remove network access points from the profile list.

- 1 Press to access the menu.

- 2 Press or to **WiFi** and press to select.

- 3 Press or to **Networks** and press to select.

- 4 Press or to the selected network access point and press to select.

- 5 Press ▲ or ▼ to Remove and press  to select.

- 6 Press ▲ or ▼ to Yes and press  to select.
The radio displays  to indicate that the selected network access point is successfully removed.

Utilities

This chapter explains the operations of the utility functions available in your radio.

Locking or Unlocking the Keypad

Follow the procedure to lock or unlock the keypad of your radio.

- 1 Do one of the following:
- Press  followed by . Skip the following steps.
 - Press  to access the menu.

- 2 Press ▲ or ▼ to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Keypad Lock. Press  to select.
- If the keypad is locked, the display shows Keypad Locked.
 - If the keypad is unlocked, the display shows Keypad Unlocked.

The radio returns to the Home screen.

Turning Keypad Tones On or Off

Follow the procedure to turn keypad tones on or off on your radio.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Utilities. Press  to select.
- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Tones/Alerts. Press  to select.

- 5 Press ▲ or ▼ to Keypad Tones. Press  to select.

- 6 Do one of the following:
 - Press ▲ or ▼ to On. Press  to select. The display shows ✓ beside On.
 - Press ▲ or ▼ to Off. Press  to select. The display shows ✓ beside Off.

Setting the Power Level



Note:

This feature is applicable to SL7550e/SL7590e/SL7580e only with a frequency band width of 403MHz–470MHz or 470.000005MHz–527MHz. Select the value of high transmit power in CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

You can customize your radio's power setting to high or low for each Connect Plus zone.

High enables communication with tower sites in Connect Plus mode located at a considerable distance from you. Low enables communication with tower sites in Connect Plus mode in closer proximity.

Follow the procedure described next to access this feature via the radio menu.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to Utilities and press  to select.

- 3 Press ▲ or ▼ to Radio Settings and press  to select.

- 4 Press ▲ or ▼ to Power and press  to select.

- 5 Press ▲ or ▼ to the required setting and press  to select.
 ✓ appears beside selected setting. At any time, long press  to return to the Home screen. Screen returns to the previous menu.

Turning Option Board On or Off

Option board capabilities within each channel can be assigned to programmable buttons. Follow the procedure to turn option board on or off on your radio.

Press the programmed **Option Board** button.

Turning Voice Operating Transmission On or Off

Follow the procedure to turn Voice Operating Transmission (VOX) on or off on your radio.

1 Do one of the following:

- Press the programmed **VOX** button. Skip the steps below.
- Press  to access the menu.

2 Press  or  to Utilities. Press  to select.

3 Press  or  to Radio Settings. Press  to select.

4 Press  or  to VOX. Press  to select.

5 Do one of the following:

- Press  or  to On. Press  to select. The display shows  beside On.
- Press  or  to Off. Press  to select. The display shows  beside Off.

Turning Radio Tones/Alerts On or Off

You can enable and disable all radio tones and alerts, if needed, except for incoming Emergency alert tone. Follow the procedure to turn tones and alerts on or off on your radio.

1 Do one of the following:

- Press the programmed **Tones/Alerts** button. Skip the steps below.
- Press  to access the menu.

2 Press  or  to Utilities. Press  to select.

3 Press  or  to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Tones/Alerts. Press  to select.

5 Press ▲ or ▼ to All Tones. Press  to select.

6 Press  to enable or disable all tones and alerts.
If enabled, ✓ appears besides Enabled.
If disabled, ✓ disappears beside Enabled.

Setting Tones/Alerts Volume Offset Levels

This feature adjusts the volume of the tones or alerts, allowing it to be higher or lower than the voice volume. Follow the procedure to set the tones and alerts volume offset levels on your radio.

1 Press  to access the menu.

2 Press ▲ or ▼ to Utilities. Press  to select.

3 Press ▲ or ▼ to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Tones/Alerts. Press  to select.

5 Press ▲ or ▼ to Vol. Offset. Press  to select.

6 Press ▲ or ▼ to the required volume offset level.
A feedback tone sounds with each corresponding volume offset level.

7 Do one of the following:

- Press  to select. The required volume offset level is saved.
 - Press  to exit. The changes are discarded.
-

Turning Talk Permit Tone On or Off

Follow the procedure to turn Talk Permit Tone on or off on your radio.

1 Press  to access the menu.

- 2 Press ▲ or ▼ to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Tones/Alerts. Press  to select.

- 5 Press ▲ or ▼ to Talk Permit. Press  to select.

- 6 Press  to enable or disable the Talk Permit Tone.
The display shows one of the following results:
 - If enabled, ✓ appears besides Enabled.
 - If disabled, ✓ disappears beside Enabled.

Setting Text Message Alert Tones

You can customize the text message alert tone for each entry in the Contacts list. Follow the procedure to set the text message alert tones on your radio.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to Contacts. Press  to select.

- 3 Press ▲ or ▼ to the required alias or ID. Press  to select.

- 4 Press ▲ or ▼ to Message Alert. Press  to select.

- 5 Do one of the following:
 - Press ▲ or ▼ to Momentary. Press  to select.
The display shows ✓ beside Momentary.
 - Press ▲ or ▼ to Repetitive. Press  to select.
The display shows ✓ beside Repetitive.

Displaying Wallpaper

Your radio displays the Wallpaper background on home screen. You can select from five default wallpapers.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Display. Press  to select.

- 5 Press  or  to Wallpaper. Press  to select.
You can also use  or  to change the selected option.

Screen Saver Mode

The screen saver feature allows the radio to save radio battery time.

A Screen Saver Pre Duration is used to track the radio activities before entering screen saver mode.

The radio starts Screen Saver Pre Duration upon power up and enters into screen saver mod. When the Screen Saver Pre Duration timer expires, the radio exits screen saver mode and responds to related transaction normally upon any user input and over-the-air transaction.

The radio restarts Screen Saver Pre Duration upon any user input and over-the-air transaction. After being in Screen Saver mode for 5 seconds, the radio enters keypad lock state automatically. When any audio or Bluetooth accessory is connected, battery saver mode is enabled, the radio enters screen saver mode.

If there is any user input or over-the-air transaction, the radio exits screen saver mode and responds to the user interaction. The Screen Saver Pre Duration is restarted and the radio goes back to screen saver mode when it expires.

Audio Accessory

The audio accessory has two modes: Normal and Battery Saver mode.

When an audio accessory is plugged in and the setting is in Battery Saver Mode, the radio restarts the timer and goes into screen saver mode. In this scenario, when there is any user input (including user input on radio and accessory attachment/detachment) or when receiving emergency alarm/call, the radio exits screen saver mode and responds to user event as normal. The Screen Saver timer restarts and the radio goes back to screen saver mode when the time allocated expires.

Enabling or Disabling Auto Keypad Lock

You can enable or disable the auto keypad lock of your radio to avoid inadvertent key entry.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Auto Keypad Lock. Press  to select.

- 5 Do one of the following:

- Press  to enable Auto Keypad Lock. The display shows  beside Enabled.
 - Press  to disable Auto Keypad Lock.  disappears beside Enable.
-

Setting Languages

Follow the procedure to set the languages on your radio.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Languages. Press  to select.
-

- 5 Press ▲ or ▼ to the required language. Press  to select.
The display shows ✓ beside the selected language.
-

Turning LED Indicators On or Off

Follow the procedure to turn the LED indicators on or off on your radio.

- 1 Press  to access the menu.
-
- 2 Press ▲ or ▼ to Utilities. Press  to select.
-
- 3 Press ▲ or ▼ to Radio Settings. Press  to select.
-
- 4 Press ▲ or ▼ to LED Indicator. Press  to select.
-

- 5 Press  to enable or disable the LED indicator. The display shows one of the following results:
 - If enabled, ✓ appears besides Enabled.
 - If disabled, ✓ disappears beside Enabled.
-

Turning Voice Announcement On or Off

This feature enables the radio to audibly indicate the current zone or channel the user has just assigned, or the programmable button the user has just pressed. This is typically useful when the user has difficulty reading the content shown on the display. This audio indicator can be customized according to customer requirements. Follow the procedure to turn Voice Announcement on or off on your radio.

- 1 Do one of the following:
 - Press the programmed **Voice Announcement** button. Skip the following steps.
 - Press  to access the menu.
-
- 2 Press ▲ or ▼ to Utilities. Press  to select.
-

- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Voice Announcement. Press  to select.

- 5 Press  to enable or disable Voice Announcement.
- If enabled, ✓ appears besides Enabled.
 - If disabled, ✓ disappears beside Enabled.

Text-to-Speech

The Text-to-Speech feature can only be enabled by your dealer or system administrator. If Text-to-Speech is enabled, the Voice Announcement feature is automatically disabled. If Voice Announcement is enabled, then the Text-to-Speech feature is automatically disabled.

This audio indicator can be customized per customer requirements. This feature is typically useful when the user is in a difficult condition to read the content shown on the display.

Setting Text-to-Speech

Follow the procedure to set the Text-to-Speech feature.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Utilities. Press  to select.
- 3 Press ▲ or ▼ to Radio Settings. Press  to select.
- 4 Press ▲ or ▼ to Voice Announcement. Press  to select.
- 5 Press ▲ or ▼ to any of the following features. Press  to select.

The available features are as follows:

- All
- Messages
- Job Tickets
- Channel
- Zone

- Program Button

✓ appears beside the selected setting.

Text Entry Configuration

Your radio allows you to configure different text.

You can configure the following settings for entering text on your radio:

- Word Predict
- Word Correct
- Sentence Cap
- My Words

Your radio supports the following text entry methods:

- Numbers
- Symbols
- Predictive or Multi-Tap
- Language (If programmed)



Note:

Press  at any time to return to the previous screen or long press  to return to the Home Screen. The radio exits the current screen once the inactivity timer expires.

Enabling or Disabling Word Predict

Word Predict: Your radio can learn common word sequences that you often enter. It then predicts the next word you may want to use after you enter the first word of a common word sequence into the text editor.

- 1 Press  to access the menu.
- 2 Press  or  to Utilities. Press  to select.
- 3 Press  or  to Radio Settings. Press  to select.
- 4 Press  or  to Text Entry. Press  to select.
- 5 Press  or  to Word Predict. Press  to select.
- 6 Do one of the following:

- Press ▲ or ▼ to Text Entry. Press  to select.
- Press to enable the Word Predict. If enabled, ✓ appears besides Enabled.
- Press to disable the Word Predict. If disabled, ✓ disappears beside Enabled.

Enabling or Disabling Word Correct

Supplies alternative word choices when the word entered into the text editor is not recognized by the in-built dictionary.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Utilities. Press  to select.
- 3 Press ▲ or ▼ to Radio Settings. Press  to select.
- 4 Press ▲ or ▼ to Text Entry. Press  to select.

- 5 Press ▲ or ▼ to Word Correct. Press  to select.

6 Do one of the following:

- Press ▲ or ▼ to Word Correct. Press  to select.
- Press to enable Word Correct. If enabled, ✓ appears besides Enabled.
- Press to disable Word Correct. If disabled, ✓ disappears beside Enabled.

Enabling or Disabling Sentence Cap

Automatically enables capitalization for the first letter in the first word for every new sentence.

- 1 Press  to access the menu.
- 2 Press ▲ or ▼ to Utilities. Press  to select.
- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Text Entry. Press  to select.

5 Press ▲ or ▼ to Sentence Cap. Press  to select.

6 Do one of the following:

- Press  to enable Sentence Cap. The display shows ✓ beside Enabled.
 - Press  to disable Sentence Cap. The ✓ disappears from beside Enabled.
-

Viewing Custom Words

You can add your own custom words into the in-built dictionary of your radio. Your radio maintains a list to contain these words.

1 Press  to access the menu.

2 Press ▲ or ▼ to Utilities. Press  to select.

3 Press Press ▲ or ▼ to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Text Entry. Press  to select.

5 Press ▲ or ▼ to My Words. Press  to select.

6 Press ▲ or ▼ to List of Words. Press  to select.
The display shows the list of custom words.

Editing Custom Words

You can edit custom words saved in your radio

1 Press  to access the menu.

2 Press ▲ or ▼ to Utilities. Press  to select.

3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Text Entry. Press  to select.

- 5 Press ▲ or ▼ to My Words. Press  to select.

- 6 Press ▲ or ▼ to List of Words. Press  to select.
Display shows the list of custom words.

- 7 Press ▲ or ▼ to the required word. Press  to select.

- 8 Press ▲ or ▼ to Edit. Press  to select.

- 9 Use the keypad to edit your custom word.
 - Press ◀ to move one space to the left.
 - Press ▶ key to move one space to the right.
 - Press the  key to delete any unwanted characters.
 - Long press  to change text entry method.

- 10 Press  once your custom word is completed.

The display shows transitional mini notice, confirming your custom word is being saved.

- If the custom word is saved, a tone sounds and the display shows positive mini notice.
- If the custom word is not saved, a low tone sounds and the display show negative mini notice.

Adding Custom Words

You can add custom words into the in-built radio dictionary.

- 1 Press  to access the menu.

- 2 Press ▲ or ▼ to Utilities. Press  to select.

- 3 Press ▲ or ▼ to Radio Settings. Press  to select.

- 4 Press ▲ or ▼ to Text Entry. Press  to select.

5 Press ▲ or ▼ to My Words. Press  to select.

6 Press ▲ or ▼ to Add New Word. Press  to select.
Display shows the list of custom words.

7 Use the keypad to edit your custom word.

- Press ◀ to move one space to the left.
- Press ▶ key to move one space to the right.
- Press the  key to delete any unwanted characters.
- Long press  to change text entry method.

8 Press  once your custom word is completed.

The display shows transitional mini notice, confirming your custom word is being saved.

- If the custom word is saved, a tone sounds and the display show positive mini notice.
- If the custom word is not saved, a low tone sounds and the display show negative mini notice.

Deleting a Custom Word

Follow the procedure to delete the custom words saved in your radio.

1 Press  to access the menu.

2 Press ▲ or ▼ to Utilities. Press  to select.

3 Press ▲ or ▼ to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Text Entry. Press  to select.

5 Press ▲ or ▼ to My Words. Press  to select.

6 Press ▲ or ▼ to the required word. Press  to select.

7 Press ▲ or ▼ to Delete. Press  to select.

8 Choose one of the following.

- At Delete Entry?, press  to select Yes. The display shows Entry Deleted.
- Press  or  to No. Press  to return to the previous screen.

Deleting All Custom Words

Follow the procedure to delete all custom words from the in-built dictionary of your radio.

- 1 Press  to access the menu.
- 2 Press  or  to Utilities. Press  to select.
- 3 Press  or  to Radio Settings. Press  to select.
- 4 Press  or  to Text Entry. Press  to select.
- 5 Press  or  to My Words. Press  to select.

- 6 Press  or  to Delete All. Press  to select.

- 7 Do one of the following:

- At Delete Entry?, press  to select Yes. The display shows Entry Deleted.
- Press  or  to No to return to the previous screen. Press  to select.

Flexible Receive List

Flexible Receive List is a feature that allows you to create and assign members on the receive talkgroup list. Your radio can support a maximum of 16 members in the list. This feature is supported in Capacity Plus.

Turning Flexible Receive List On or Off

Follow the procedure to turn Flexible Receive List on or off.

- 1 Do one of the following:
 - Press the programmed **Flexible Receive List** button. Skip the following steps.

- Press  to access the menu.

2 Press  or  to Flexible Rx List. Press  to select.

3 Do one of the following:

- Press  or  to Turn On. Press  to select.
A positive indicator tone sounds.
The display shows a positive mini notice.
- Press  or  to Turn Off. Press  to select.
A negative indicator tone sounds.
The display shows a negative mini notice.

Turning Digital Microphone AGC On or Off

The Digital Microphone Automatic Gain Control (AGC) controls the microphone gain of the radio automatically while transmitting on a digital system. This feature suppresses loud audio or boosts soft audio to a preset value in order to provide a

consistent level of audio. Follow the procedure to turn Digital Microphone AGC on or off on your radio.

1 Press  to access the menu.

2 Press  or  to Utilities. Press  to select.

3 Press  or  to Radio Settings. Press  to select.

4 Press  or  to Mic AGC-D. Press  to select.

5 Press  to enable or disable Digital Microphone AGC.

The display shows one of the following results:

- If enabled,  appears besides Enabled.
- If disabled,  disappears beside Enabled.

Turning Intelligent Audio On or Off

Your radio automatically adjusts the audio volume to overcome current background noise in the environment, inclusive of both stationary and non-

stationary noise sources. This is a receive-only feature and does not affect transmission audio. Follow the procedure to turn Intelligent Audio on or off on your radio.



Note:

This feature is not applicable during a Bluetooth session.

- 1 Do one of the following:
 - Press the programmed **Intelligent Audio** button. Skip the steps below.
 - Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Intelligent Audio. Press  to select.

- 4 Do one of the following:
 - Press  or  to On. Press  to select. The display shows  beside On.

- Press  or  to Off. Press  to select. The display shows  beside Off.

Turning Acoustic Feedback Suppressor On or Off

The feature allows you to minimize acoustic feedback in received calls. Follow the procedure to turn Acoustic Feedback Suppressor on or off on your radio.

- 1 Do one of the following:
 - Press the programmed **AF Suppressor** button. Skip the following steps.
 - Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to AF Suppressor. Press  to select.

- 5 Do one of the following:

- Press  to enable Acoustic Feedback Suppressor.
- Press  to disable Acoustic Feedback Suppressor.

If enabled,  appears besides Enabled. If disabled,  disappears beside Enabled.

Turning Trill Enhancement On or Off

You can enable this feature when you are speaking in a language that contains many words with alveolar trill (rolling “R”) pronunciations. Follow the procedure to turn Trill Enhancement on or off on your radio.

- 1 Do one of the following:
 - Press the programmed **Trill Enhancement** button. Skip the steps below.
 - Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

- 3 Press  or  to Radio Settings. Press  to select.

- 4 Press  or  to Trill Enhance. Press  to select.

- 5 Do one of the following:

- Press  or  to On. Press  to select. The display shows  beside On.
- Press  or  to Off. Press  to select. The display shows  beside Off.

Setting Audio Ambience

Follow the procedure to set the audio ambience on your radio according to your environment.

- 1 Press  to access the menu.

- 2 Press  or  to Utilities. Press  to select.

3 Press ▲ or ▼ to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Audio Ambience. Press  to select.

5 Press ▲ or ▼ to the required setting. Press  to select.

The settings are as follows.

- Choose **Default** for the default factory settings.
- Choose **Loud** to increase speaker loudness when using in noisy surroundings.
- Choose **Work Group** to reduce acoustic feedback when using with a group of radios that are near to each other.

The display shows  beside the selected setting.

Setting Audio Profiles

Follow the procedure to set audio profiles on your radio.

1 Press  to access the menu.

2 Press ▲ or ▼ to Utilities. Press  to select.

3 Press ▲ or ▼ to Radio Settings. Press  to select.

4 Press ▲ or ▼ to Audio Profiles. Press  to select.

5 Press ▲ or ▼ to the required setting. Press  to select.

The settings are as follows.

- Choose **Default** to disable the previously selected audio profile and return to the default factory settings.
- Choose **Level 1**, **Level 2**, or **Level 3** for audio profiles intended to compensate for noise-induced hearing loss that is typical for adults over 40 years of age.
- Choose **Treble Boost**, **Mid Boost**, or **Bass Boost** for audio profiles that align with your preference for tinnier, more nasal, or deeper sounds.

- Default
- Level 1, Level 2, or Level 3
- Treble Boost, Mid Boost, or Bass Boost

The display shows  beside the selected setting.

Viewing RSSI Values

Follow the procedure to view RSSI values on your radio.

When you are at the Home screen:

- 1 Press  three times and immediately press , all in five seconds.
The display shows the current Received Signal Strength Indicator (RSSI) values.

- 2 Long press  to return to the Home screen.

Received Signal Strength Indicator

This feature allows you to view the Received Signal Strength Indicator (RSSI) values.

The display shows the RSSI icon at the top right corner. See [Display Icons](#) on page 233 for more information on the RSSI icon.

General Radio Information

Your radio contains information on various general parameters.

The general information of your radio are as follows.

- Battery information.
- Radio alias and ID.
- Firmware and Codeplug versions.
- Software update.
- Open-Source Software information
- Site information.
- Received Signal Strength Indicator



Note:

You return to the previous screen when you press , and to the Home screen when you long press , at any time. The radio exits the current screen once the inactivity timer expires.

Checking Radio Alias and ID

Follow the procedure to check the radio alias and ID on your radio.

- 1 Do one of the following:

- Press the programmed **Radio Alias and ID** button. Skip the steps below.

A positive indicator tone sounds.

- Press  to access the menu.

You can press the programmed **Radio Alias and ID** button to return to the previous screen.

-
- 2 Press  or  to Utilities. Press  to select.
-

- 3 Press  or  to Radio Info. Press  to select.
-

- 4 Press  or  to My ID. Press  to select.
The first text line shows the radio alias. The second text line shows the radio ID.
-

Checking Firmware and Codeplug Versions

Follow the procedure to check the firmware and codeplug versions on your radio.

-
- 1 Press  to access the menu.
-

- 2 Press  or  to Utilities. Press  to select.
-

- 3 Press  or  to Radio Info. Press  to select.
-

- 4 Press  or  to Versions. Press  to select.
The display shows the current firmware and codeplug versions.
-

Checking Software Update Information

This feature shows the date and time of the latest software update carried out via OTAP or Wi-Fi. Follow the procedure to check the software update information on your radio.

-
- 1 Press  to access the menu.
-

- 2 Press  or  to Utilities. Press  to select.
-

- 3 Press  or  to Radio Info. Press  to select.
-

- 4 Press ▲ or ▼ to SW Update. Press ⏏ to select.
The display shows the date and time of the latest software update.
-

Software Update menu is only available after at least one successful OTAP or Wi-Fi session. See [Over-the-Air Programming](#) on page 99 for more information.

Authorized Accessories List

Authorized Accessories List

Antennas

- 420 – 445 MHz Stubby Antenna (PMAE4076_)
- 438 – 470 MHz Stubby Antenna (PMAE4077_)
- 403 – 425 MHz Stubby Antenna (PMAE4078_)
- 450 – 490 MHz Stubby Antenna Kit (PMAE4091_)
- 480 – 527 MHz Stubby Antenna Kit (PMAE4092_)
- 806 – 870 MHz Stubby Antenna (PMAF4017_)
- 896 – 941 MHz Stubby Antenna (PMAF4018_)
- Antenna Mounting Kit, pack of ten screws and plugs (PMLN6040_)

Batteries

- Lithium-Ion 1800 mAh Battery Pack (HKNN4013_).
- Lithium-Ion 1370 mAh Battery Pack (PMNN4425_) ^[11]
- BT100x Lithium-Ion 2300mAh Battery Pack (PMNN4468_)

Cables

- Micro USB Programming Cable (PMKN4128_)

Carry Devices

- Carry Holder (PMLN5956_)
- Nylon Wrist Strap (PMLN6074_)
- Soft Leather Accessory Carry Case with 1.5-Inch Quick Disconnect Swivel Clip (PMLN7040_)

Chargers

- Multi-Unit Charger, US Plug (PMLN5916_)
- Micro USB Charger, US Plug (PMPN4009_)
- Micro USB Single-Unit Plug-In Charger (SPN5547_)
- Micro USB Power Supply Adaptor, AC/DC Switch Mode, Wall Cube, 5 W, 100 V – 240 V, US/Japan Plug (PS000042A11) ^[12]
- Micro USB Power Supply, 5 V 1 A, US/NA Plug (25009298001) ^[12]
- SL Series Tri-Unit Charger (PMLN6358_)

354 ¹¹ Not applicable to the 800/900 band.

- Micro USB Travel Charger/Vehicular Charger Cigarette Lighter Adapter with Coil Cord (PMPN4066_) ^[12]

Miscellaneous Accessories

- 1370 mAH Battery Cover (PMLN6000_)
- 1800 mAH Battery Cover (PMLN6001_)
- Screen Protector, Clear (single pack contains one unit) (AY000269A01_) ^[13]

¹² Your radio is compatible with the accessories listed here. Contact your dealer for details.

¹³ Your radio is compatible with the accessories listed here. Contact your dealer for details.

Limited Warranty

MOTOROLA COMMUNICATION PRODUCTS

I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

MOTOROLA SOLUTIONS, INC. (“MOTOROLA”) warrants the MOTOROLA manufactured Communication Products listed below (“Product”) against defects in material and workmanship under normal use and service for a period of time from the date of purchase as scheduled below:

SL Series Digital Portable Radios	24 Months
Product Accessories (Excluding Batteries and Chargers)	12 Months

MOTOROLA, at its option, will at no charge either repair the Product (with new or reconditioned parts), replace it (with a new or reconditioned Product), or refund the purchase price of the Product during the warranty period provided it is returned in accordance

with the terms of this warranty. Replaced parts or boards are warranted for the balance of the original applicable warranty period. All replaced parts of Product shall become the property of MOTOROLA.

This express limited warranty is extended by MOTOROLA to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by MOTOROLA. MOTOROLA assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of MOTOROLA.

Unless made in a separate agreement between MOTOROLA and the original end user purchaser, MOTOROLA does not warrant the installation, maintenance or service of the Product.

MOTOROLA cannot be responsible in any way for any ancillary equipment not furnished by MOTOROLA which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. Because each system which may use the Product is unique, MOTOROLA disclaims liability for range, coverage, or

operation of the system as a whole under this warranty.

II. GENERAL PROVISIONS

This warranty sets forth the full extent of MOTOROLA'S responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at MOTOROLA's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

III. STATE LAW RIGHTS:

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION OR EXCLUSIONS MAY NOT APPLY.

This warranty gives specific legal rights, and there may be other rights which may vary from state to state.

IV. HOW TO GET WARRANTY SERVICE

You must provide proof of purchase (bearing the date of purchase and Product item serial number) in order to receive warranty service and, also, deliver or send the Product item, transportation and insurance prepaid, to an authorized warranty service location. Warranty service will be provided by MOTOROLA through one of its authorized warranty service locations. If you first contact the company which sold you the Product (e.g., dealer or communication service provider), it can facilitate your obtaining warranty service. You can also call MOTOROLA at 1-800-927-2744 US/Canada.

V. WHAT THIS WARRANTY DOES NOT COVER

- 1 Defects or damage resulting from use of the Product in other than its normal and customary manner.
- 2 Defects or damage from misuse, accident, water, or neglect.
- 3 Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.
- 4 Breakage or damage to antennas unless caused directly by defects in material workmanship.
- 5 A Product subjected to unauthorized Product modifications, disassembles or repairs (including, without limitation, the addition to the Product of non-MOTOROLA supplied equipment) which adversely affect performance of the Product or interfere with MOTOROLA's normal warranty inspection and testing of the Product to verify any warranty claim.
- 6 Product which has had the serial number removed or made illegible.
- 7 Rechargeable batteries if:
 - any of the seals on the battery enclosure of cells are broken or show evidence of tampering.
 - the damage or defect is caused by charging or using the battery in equipment or service other than the Product for which it is specified.
- 8 Freight costs to the repair depot.
- 9 A Product which, due to illegal or unauthorized alteration of the software/firmware in the Product, does not function in accordance with MOTOROLA's published specifications or the FCC certification labeling in effect for the Product at the time the Product was initially distributed from MOTOROLA.
- 10 Scratches or other cosmetic damage to Product surfaces that does not affect the operation of the Product.
- 11 Normal and customary wear and tear.

VI. PATENT AND SOFTWARE PROVISIONS

MOTOROLA will defend, at its own expense, any suit brought against the end user purchaser to the extent that it is based on a claim that the Product or parts infringe a United States patent, and MOTOROLA will pay those costs and damages finally awarded against

the end user purchaser in any such suit which are attributable to any such claim, but such defense and payments are conditioned on the following:

- 1 MOTOROLA will be notified promptly in writing by such purchaser of any notice of such claim,
- 2 MOTOROLA will have sole control of the defense of such suit and all negotiations for its settlement or compromise, and
- 3 Should the Product or parts become, or in MOTOROLA's opinion be likely to become, the subject of a claim of infringement of a United States patent, that such purchaser will permit MOTOROLA, at its option and expense, either to procure for such purchaser the right to continue using the Product or parts or to replace or modify the same so that it becomes non-infringing or to grant such purchaser a credit for the Product or parts as depreciated and accept its return. The depreciation will be an equal amount per year over the lifetime of the Product or parts as established by MOTOROLA.

MOTOROLA will have no liability with respect to any claim of patent infringement which is based upon the combination of the Product or parts furnished hereunder with software, apparatus or devices not

furnished by MOTOROLA, nor will MOTOROLA have any liability for the use of ancillary equipment or software not furnished by MOTOROLA which is attached to or used in connection with the Product. The foregoing states the entire liability of MOTOROLA with respect to infringement of patents by the Product or any parts thereof.

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VII. GOVERNING LAW

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