

# MOTOTRBO XPR™ 7550 Display Portable User Guide

68009502001-A

## **Contents**

This User Guide contains all the information you need to use the MOTOTRBO XPR Series Digital Portable Radios.

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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: XPR 7550

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. 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/TV technician for help.

**Notes** 

## **Important Safety Information**

## **Product Safety and RF Exposure Compliance**



Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet Caution enclosed with your radio.

#### ATTENTION!

This radio is restricted to occupational use only to satisfy FCC RF energy exposure requirements.

Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet enclosed with your radio (Motorola Publication part number 6881095C98) to ensure compliance with RF energy exposure limits.

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

http://www.motorolasolutions.com/governmentandenterprise

## **Software Version**

All the features described in the following sections are supported by the radio's software version R02.00.00.

See Checking the Firmware Version and Codeplug **Version** on page 109 to determine your radio's software version.

Check with your dealer or system administrator for more details of all the features supported.

## **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<sup>TM</sup> 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 IP57 specifications, allowing the radio to withstand adverse field conditions such as being submersed in water.

- If the radio has been submersed in water, shake the radio well to remove any water that may be trapped inside the speaker grille and microphone port. Trapped water could cause decreased audio performance.
- If the radio's battery contact area has been exposed to water, clean and dry battery contacts on both the radio and the battery before attaching the battery to the radio. The residual water could short-circuit the radio.
- If the radio has been submersed in a corrosive substance (e.g. saltwater), rinse the radio and battery in fresh water then dry the radio and battery.
- To clean the exterior surfaces of the radio, use a diluted solution of mild dishwashing detergent and fresh water (i.e. one teaspoon of detergent to one gallon of water).

- Never poke the vent (hole) located on the radio chassis below the battery contact. This vent allows for pressure equalization in the radio. Doing so may create a leak path into the radio and the radio's submersibility may be lost.
- Never obstruct or cover the vent, even with a label.
- Ensure that no oily substances come in contact with the vent.
- The radio with antenna attached properly is designed to be submersible to a maximum depth of 1 meter (3.28 feet) and a maximum submersion time of 30 minutes. Exceeding either maximum limit or use without antenna may result in damage to the radio.
- When cleaning the radio, do not use a high pressure jet spray on the radio as this will exceed the 1 meter depth pressure and may cause water to leak into the radio.



Caution

Do not disassemble the radio. This could damage radio seals and result in leak paths into the radio. Radio maintenance should only be done in service depot that is equipped to test and replace the seal on the radio.

## **Notes**

## **Getting Started**

Take a moment to review the following:
How to Use This Guide page 1
What Your Dealer/System Administrator
Can Tell Youpage 1

#### How to Use This Guide

This User Guide covers the basic operation of the MOTOTRBO Portables.

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

Throughout this publication, the icons below are used to indicate features supported in either the conventional Analog mode or conventional Digital mode:



Indicates a conventional Analog Mode-Only feature.



Indicates a conventional Digital Mode-Only feature.

For features that are available in **both** conventional Analog and Digital modes, **no** icon is shown.

Selected features are **also** available on the single-site trunking mode, Capacity Plus. See *Capacity Plus* on page 14 for more information.

## What Your Dealer/System Administrator Can Tell You

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?

## **Preparing Your Radio for Use**

Assemble your radio by following these steps:

Charging the Battery	page 2
Attaching the Battery	page 3
Attaching the Antenna	page 3
Attaching the Belt Clip	page 4
Attaching the Universal Connector  Cover (Dust Cover)	page 4
Powering Up the Radio	page 5
Adjusting the Volume	page 6

## **Charging the Battery**

Your radio is powered by a Nickel Metal-Hydride (NiMH) or 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.

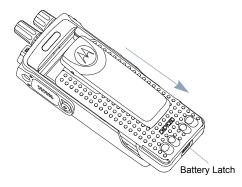
Charge a new battery 14 to 16 hours before initial use for best performance.

**IMPORTANT**: **ALWAYS** 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.

## Attaching the Battery

Align the battery with the rails on the back of the radio. Press the battery firmly, and slide upward until the latch snaps into place. Slide battery latch into lock position.

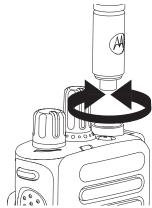




To remove the battery, turn the radio off. Move the battery latch into unlock position and hold, and slide the battery down and off the rails.

## Attaching the Antenna

With the radio turned off, set the antenna in its receptacle and turn clockwise.



To remove the antenna, turn the antenna counterclockwise.



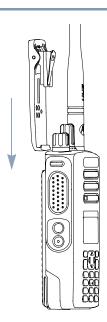
Caution

If antenna needs to be replaced, ensure that only MOTOTRBO antennas are used. Neglecting this will damage your radio. See *Antennas* on page 111 for a list of available antennas.

## Attaching the Belt Clip

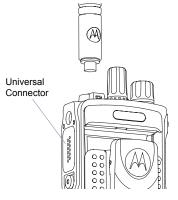
Align the grooves on the clip with those on the battery and press downward until you hear a click.

To remove the clip, press the belt clip tab away from the battery. Using a key may be helpful. Then slide the clip upward and away from the radio.



## Attaching the Universal Connector Cover (Dust Cover)

The universal connector is located on the antenna side of the radio. It is used to connect MOTOTRBO accessories to the radio.



Insert the hooked end of the cover into the slots above the universal connector. Press downward on the cover to seat the lower tab properly into the RF connector.

Turn the thumbscrew clockwise to secure the connector cover to the radio.

To remove the universal

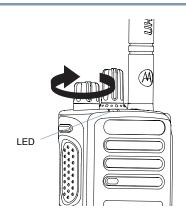
connector cover, press down on the cover and turn the thumbscrew counterclockwise. Lift the cover up, slide the connector cover loop upwards, and remove it from the attached antenna.

Replace the dust cover when the universal connector is not in use.

## Powering Up the Radio

Rotate the On/Off/Volume Control Knob clockwise until you hear a click. You see MOTOTRBO (TM) on the radio's display momentarily, followed by a welcome message or welcome image.

The LED lights up solid green and the Home screen lights up if the backlight setting is set to turn on automatically.



NOTE: The Home screen does not light up during a power up if the LED indicator is disabled (see *Turning the LED Indicator On or Off* on page 102).

A brief tone sounds, indicating that the power up test is successful.

NOTE: There is no power up tone if the radio tones/alerts function is disabled (see *Turning the Radio Tones/Alerts On or Off* on page 96).

If your radio does not power up, check your battery. Make sure that it is charged and properly attached. If your radio still does not power up, contact your dealer.

To turn off the radio, rotate this knob counterclockwise until you hear a click. You see a brief Powering Down on the radio's display.

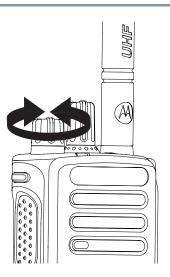
## Adjusting the Volume

To increase the volume, turn the **On/Off/Volume Control Knob** clockwise.

To decrease the volume, turn this knob counterclockwise.

NOTE: Your radio can be programmed to have a minimum volume offset where the volume level cannot be turned down fully. Check with your dealer or system administrator for

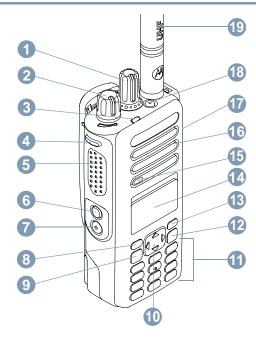
more information.



## **Identifying Radio Controls**

take a moment to review the following:
Radio Controls page 7
Programmable Buttons page 8
Using the 4-Way Navigation Buttonpage 10
Accessing the Programmed Functions page 11
Using the Keypadpage 12
Push-To-Talk (PTT) Buttonpage 13
Switching Between Conventional Analog and
Digital Mode page 14
Capacity Pluspage 14

#### Radio Controls



- Channel Selector Knob
- On/Off/Volume Control Knob
- LED Indicator

- Side Button 1\*
- Push-to-Talk (PTT) Button
- 6 Side Button 2\*
- Side Button 3\*
- 8 Front Button P1\*
- Menu/OK Button
- 10 4-Way Navigation Button
- Keypad
- Back/Home Button
- Front Button P2\*
- 1 Display
- 15 Microphone
- 16 Speaker
- Universal Connector for Accessories
- Emergency Button\*
- Antenna

<sup>\*</sup> These buttons are programmable.

## Programmable Buttons

Your dealer can program the programmable buttons as shortcuts to **radio functions** or **preset channels/groups** depending on the duration of a button press:

- Short press Pressing and releasing rapidly.
- Long press Pressing and holding for the programmed duration.
- Hold down Keeping the button pressed.

NOTE: The programmed duration of a button press is applicable for all assignable radio/utility functions or settings. See *Emergency Operation* on page 60 for more information on the programmed duration of the *Emergency* button.

## Assignable Radio Functions

**Bluetooth Audio Switch** – Toggles audio routing between internal radio speaker and external Bluetooth-enabled accessory.

Contacts - Provides direct access to the contacts list.

**Call Alert** – Direct access to the radio contacts list to select a radio contact to send a call alert to.

**Call Forwarding** – Toggles Call Forwarding on or off.

**Call Log** – Selects the call log list.

**Voice Announcement for Channel** – Plays zone and channel announcement voice messages for the current channel. This function is unavailable when Voice Announcement is disabled.

**Emergency** – Depending on the programming, initiates or cancels an emergency alarm or call.

Intelligent Audio On/Off - Toggles Intelligent Audio on or off.

**Manual Dial** — Initiates a call by keying in any subscriber ID.

**Mic AGC On/Off** – Toggles the internal microphone automatic gain control (AGC) on or off. Not applicable during a Bluetooth session.

**Monitor** – Monitors a selected channel for activity.

**Nuisance Channel Delete\*** – Temporarily removes an unwanted channel, except for the Selected Channel, from the scan list. The Selected Channel refers to the user's selected zone/channel combination from which scan is initiated.

**One Touch Access** – Directly initiates a predefined Private or Group Call, a Call Alert or a Quick Text message.

**Option Board Feature** – Toggles option board feature(s) on or off for option board-enabled channels.

**Permanent Monitor\*** – Monitors a selected channel for all radio traffic until function is disabled.

**Privacy** — Toggles privacy on or off.

Radio Alias and ID - Provides radio alias and ID.

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.

**Repeater/Talkaround\*** – Toggles between using a repeater and communicating directly with another radio.

**Scan\*** – Toggles scan on or off.

Status - Selects the status list menu.

**Telemetry Control** — Controls the Output Pin on a local or remote radio.

**Text Message** – Selects the text message menu.

**Transmit Interrupt Remote Dekey** — Stops the transmission of a remote monitored radio without giving any indicators, or an ongoing interruptible call to free the channel.

**Voice Announcement On/Off** – Toggles Voice Announcement on or off.

**Voice Operating Transmission (VOX)** – Toggles VOX on or off.

**Zone** – Allows selection from a list of zones.

## Assignable Settings or Utility Functions

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

Backlight On/Off - Toggles display backlight on or off.

**Backlight Brightness** – Adjusts the brightness level.

**Display Mode** – Toggles the day/night display mode on or off.

**Keypad Lock** – Toggles keypad between locked and unlocked.

**Power Level** – Toggles transmit power level between high and low.

**Squelch** — Toggles squelch level between tight and normal.

## Using the 4-Way Navigation Button

You can use the 4-way navigation button, •, to scroll through options, increase/decrease values, and navigate vertically.

Category	<b>△</b> or <b>▽</b>	<b>d</b> or ▶
Menu	Vertical Navigation	-
Lists	Vertical Navigation	-
View Details	Vertical Navigation	Previous/Next Item

You can use the 4-way navigation button, , as a number, alias, or free form text editor.

Editor Category	<b>▲</b> or <b>▼</b>	◀ or ▶		
Number	-	Left: Delete last digit Right: –		
Alias	_	Move cursor one character left/right		
Free Form Text	Move cursor up/ down	Move cursor one character left/right		
Numeric Values	Increase/Decrease	_		

## Accessing the Programmed Functions

You can access various radio functions through one of the following ways:

 A short or long press of the relevant programmable buttons.



OR

- Use the 4-way navigation button as follows:
- 1 To access the menu, press the button. Press the appropriate direction of the to access the menu functions.
- 2 To select a function or enter a sub-menu, press the button.
- 3 To go back one menu level, or to return to the previous screen, press the button. Long press the button to return to the Home screen.

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

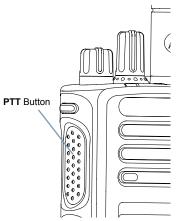
## Using the Keypad

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 table below shows the number of times a key needs to be pressed to generate the required character.

		Number of Times Key is Pressed											
Key	1	2	3	4	5	6	7	8	9	10	11	12	13
1,.?	1		,	?	!	@	&	•	%	-	:	*	#
2 ABC	Α	В	С	2									
3 DEF	D	Е	F	3									
4 GHI	G	Н	I	4									
<b>5</b> јкі	J	K	L	5									
<b>6</b> MNO	М	N	0	6									
7 PORS	Р	Q	R	S	7								
<b>8</b> TUV	Т	U	V	8									
9 мхүх	W	Χ	Y	Z	9								
<b>0</b> &	0	NOTE: F	NOTE: Press to enter "0" and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.										
*∢	* or del	NOTE: Press during text entry to delete the character. Press during numeric entry to enter a "*".											
# 🖺	# or space	NOTE: Press during text entry to insert a space. Press during numeric entry to enter a "#".											

## Push-To-Talk (PTT) Button

The **PTT** button on the side of the radio 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 down **PTT** button to talk. Release the **PTT** button to listen.

The microphone is activated when the **PTT** button is pressed.

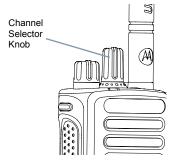
 While a call is not in progress, the PTT button is used to make a new call (see Making a Radio Call on page 27). If the Talk Permit Tone (see **Turning the Talk Permit Tone On or Off** on page 98) or the **PTT** Sidetone (n) is enabled, wait until the short alert tone ends before talking.

- During a call, if the Channel Free Indication feature is enabled on your radio (programmed by your dealer), you will hear a short alert tone the moment the target radio (the radio that is receiving your call) releases the **PTT** button, indicating the channel is free for you to respond.
- You will also hear the Channel Free Indication tone if your call is interrupted, for example when the radio receives an Emergency Call.

You can turn off the Channel Free Indication tone or the **PTT** Sidetone by disabling all radio tones and alerts (see **Turning the Radio Tones/Alerts On or Off** on page 96).

## Switching Between Conventional Analog and Digital Mode

Each channel in your radio can be configured as a conventional analog or conventional digital channel. Use the Channel Selector Knob to switch between an analog or a digital channel.



When switching from digital to analog mode, certain features are unavailable. Icons for the digital features (such as Messages) reflect this change by appearing 'grayed out'. Disabled features are hidden in the menu.

Your radio also has features available in both analog and digital mode. However, the minor differences in the way each feature works does **NOT** affect the performance of your radio.

**NOTE:** Your radio also switches between digital and analog modes during a dual mode scan (see *Scan* on page 44).

## Capacity Plus

Capacity Plus 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 can **only** access channel(s) with Capacity Plus via the Channel Selector Knob, while features supported in Capacity Plus can be accessed via the menu and/or a programmable button press.

Icons of features not applicable to Capacity Plus will not be available in the menu. You will hear a negative indicator tone if you access a feature not applicable to Capacity Plus via a programmable button press.

Your radio also has features that are available in both conventional digital mode 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 system.

## **Identifying Status Indicators**

Your radio indicates its operational status through the following
Display Icons page 15
Call Iconspage 17
Advanced Menu Iconspage 17
Mini Notice Icons page 18
Sent Item Icons page 18
LED Indicatorpage 19
Audio Tonespage 20
Indicator Tones nage 20

## Display Icons

The 132 x 90 pixels, 256 colors, liquid crystal display (LCD) of your radio shows radio status, text entries, and menu entries.

The following are icons that appear on the status bar at the top of the radio's display. Icons are displayed on the status bar, arranged left-to-right, 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.



#### **Battery**

The number of bars (0-4) shown indicates the charge remaining in the battery.





#### **Bluetooth**

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



#### **Bluetooth Connected**

The Bluetooth feature is enabled. The icon stays lit when one or more remote Bluetooth devices are connected.



#### **Emergency**

Radio is in Emergency mode.



#### Notification

Notification list is not empty.



Scan feature is enabled.

### Scan - Priority 1\*

Radio detects activity on channel/group designated as Priority 1).

#### Scan - Priority 2 \*

Radio detects activity on channel/group designated as Priority 2.



Vote scan feature is enabled.

#### Monitor

Selected channel is being monitored.

#### Talkaround\*

In the absence of a repeater, radio is currently configured for direct radio to radio communication.

## Site Roaming\* (n) The site roaming feature is enabled.

Secure (n)

The Privacy feature is enabled.

Unsecure (n)

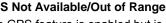
The Privacy feature is disabled.



#### GPS Available (n)

The GPS feature is enabled. The icon stays lit when a position fix is available.

## GPS Not Available/Out of Range (n)



The GPS feature is enabled but is not receiving data from the satellite.

## **Option Board**

The Option Board is enabled.

#### **Option Board Non-Function**

The Option Board is disabled.

## **Tones Disable**

Tones are turned off.

#### **Power Level**

Radio is set at Low power.

OR

Radio is set at High power.

\* Not applicable in Capacity Plus

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



#### **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).

#### Advanced Menu Icons

The following icons appear beside menu items that offer a choice between two options or as an indication that there is a sub-menu offering two options.

## Checkbox (Empty)

Indicates the option is not selected.



#### **Checkbox (Checked)**

Indicates the option is selected.

#### Solid Black Box

Indicates the option selected for the menu item with a sub-menu.

#### Mini Notice Icons

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



**Successful Transmission (Positive)** 

Successful action taken.



**Failed Transmission (Negative)** 

Failed action taken.



**Transmission in Progress (Transitional)** 

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

## Sent Item Icons 📵



The following icons appear in the Sent Items folder.



#### **Sent Successfully**

The text message is sent successfully.



#### Send Failed



The text message cannot be sent.



#### **In-Progress**



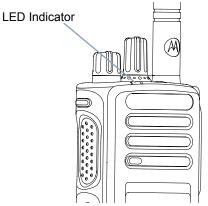
 The text message to a subscriber alias or ID is pending transmission, followed by waiting for acknowledgement.



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

#### LED Indicator

The LED indicator 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.

**Solid green** – Radio is powering up, or transmitting.

**Blinking green** – Radio is receiving a non-privacy-enabled call or data, or detecting activity over the air.

**Double blinking green** – Radio is receiving a privacy-enabled call or data ...

**Solid yellow** – Radio is monitoring a conventional channel.

**Blinking yellow** – Radio is scanning for activity or receiving a Call Alert.

**Double blinking yellow** — Radio is no longer connected to the repeater while in Capacity Plus, all Capacity Plus channels are currently busy, Auto Roaming is enabled, radio is actively searching for a new site. Also indicates radio has yet to respond to a group call alert, or radio is locked.

NOTE: While in conventional mode, when the LED blinks green, it indicates the radio detects activity over the air. Due to the nature of the digital protocol, this activity may or may not affect the radio's programmed channel.

For Capacity Plus, there is no LED indication when the radio is detecting activity over the air.

#### Audio Tones

Alert tones provide you with audible indications of the radio's status or the radio's response to data received.

**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.

## Indicator Tones

High pitched tone	Low pitched tone				
	Positive Indicator Tone				
	Negative Indicator Tone				

## **Making and Receiving Calls**

Once you understand how your MOTOTRBO Portable is configured, you are ready to use your radio.

Use this navigation guide to familiarize yourself with the basic Call features:

Selecting a Site page	e 21
Selecting a Zone page	e 21
Selecting a Radio Channel, Subscriber ID,	
or Group ID	€ 23
Receiving and Responding to a Radio Callpage	€ 23
Making a Radio Call page	e 27
Stopping a Radio Call page	e 33
Talkaroundpage	e 33
Monitoring Featurespage	e 34

## Selecting a Site <a>n</a>

A site is a specific area where a base station is placed to provide optimal coverage for the radio.

If enabled, your radio is able to connect to different available sites via an Internet Protocol (IP) network.

See IP Site Connect on page 84 for more information.

## Selecting a Zone

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.

Use the following procedure to select a zone.

#### Procedure:

Press the programmed Zone button and proceed to Step 3. **OR** 

Follow the procedure below.

- 1 to access the menu.
- 3 The current zone is displayed and indicated by a ✓.

4 or ▼ to the required zone and proceed to Step 7.OR

Key in the first character of the required zone.

5 A blinking cursor appears.

Use the keypad to type the required zone.

Press ◀ to move one space to the left.

Press to move one space to the right.

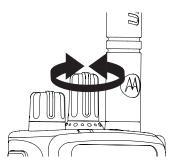
Press the \*DEL key to delete any unwanted characters.

The first line of the display shows the characters you keyed in. The next lines of the display show the shortlisted search results.

The alias search is case-insensitive. If there are two or more zones with the same name, the radio displays the zone that is listed first in the zone list.

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

## Selecting a Radio Channel, Subscriber ID, or Group ID



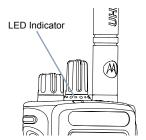
#### Procedure:

Once the required zone is displayed (if you have multiple zones in your radio), turn the programmed Channel Selector Knob to select the channel.

## Receiving and Responding to a Radio Call

Once the channel, subscriber ID or group ID 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 double blinks green 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).

See *Privacy* on page 82 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.

#### Procedure:

When you receive a Group Call (while on the Home screen):

- The LED blinks green.
- The Group Call icon appears in the top right corner. The first text line shows the caller alias. The second text line displays the group call alias.
- Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- If the Channel Free Indication feature is enabled, you will 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.

#### OR

If the Voice Interrupt feature is enabled, press the PTT button to stop the current call from the transmitting radio and free the channel for you to talk/respond.

- The LED lights up solid green.
- Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

OR

- Wait for the PTT Sidetone to finish (if enabled) and speak clearly into the microphone.
- Release the PTT button to listen.
- If there is no voice activity for a predetermined period of time, the call ends.

See Making a Group Call on page 27 for details on making a Group Call.

**NOTE:** 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>n</a>



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

There are two types of Private Calls. The first type, where a radio presence check is performed prior to setting up the call, while the other sets up the call immediately.

When your radio is checked, the LED blinks green.

Only **one** of these call types can be programmed to your radio by your dealer.

#### Procedure:

When you receive a Private Call:

- The LED blinks green.
- The Private Call icon appears in the top right corner. The first text line shows the caller alias.
- Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

4 If the Channel Free Indication feature is enabled, you will 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.

#### OR

If the Voice Interrupt feature is enabled, press the **PTT** button to stop the current call from the transmitting radio and free the channel for you to talk/respond.

- 5 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.
- 8 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.

See *Making a Private Call* on page 28 for details on making a Private Call.

## Receiving an All Call

An All Call is a call from an individual radio to every radio on the channel. It is used to make important announcements requiring the user's full attention.

#### Procedure:

When you receive an All Call:

- 1 A tone sounds and the LED blinks green.
- The Group Call icon appears in the top right corner. The first text line shows the caller alias. The second text line displays 811 Call.
- Once the All Call ends, the radio returns to the previous screen before receiving the call.

If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is now available for use.

You cannot respond to an All Call.

See **Making an All Call** on page 29 for details on making an All Call.

NOTE: The radio stops receiving the All Call if you switch to a different channel while receiving the call.

During an All Call, you will **not** be able to use any programmed button functions until the call ends.

## Receiving and Responding to a Selective Call



A Selective Call is a call from an individual radio to another individual radio. It is a Private Call on an analog system.

#### Procedure:

When you receive a Selective Call:

- The LED blinks green.
- The Private Call icon appears in the top right corner. The first text line shows the caller alias or Selective Call or Alert with Call.
- Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from vour mouth.
- If the Channel Free Indication feature is enabled, you will 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 LED lights up solid green.
- Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- Release the PTT button to listen.
- 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.

NOTE: See Making a Selective Call on page 30 for details on making a Private Call.

## Making a Radio Call

You can select a channel, subscriber ID, or group by using:

- The Channel Selector Knob
- A programmed One Touch Access button
- The programmed number keys This method is for Group, Private and All Calls only and is used with the keypad (see Making a Group, Private or All Call with the **Programmable Number Key** on page 32).
- The Contacts list (see Contacts Settings on page 47)
- Manual Dial (via Contacts) This method is for Private Calls only and is dialed using the keypad (see Making a Private Call from Contacts on page 49).

**NOTE:** Your radio must have the Privacy feature enabled on the channel to send a privacy-enabled transmission. Only target radios with the same Privacy Key OR the same Key Value and Key ID as your radio will be able to unscramble the transmission.

See *Privacy* on page 82 for more information.



## Making a Call with the Channel Selector Knob

## Making a Group Call

To make a call to a group of users, your radio must be configured as part of that group.

#### Procedure:

- Turn the Channel Selector Knob to select the channel with the active group alias or ID.
- Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from vour mouth.
- 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.
- Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

#### OR

- Wait for the PTT Sidetone to finish (if enabled) and speak clearly into the microphone.
- Release the PTT button to listen. When the target radio responds, the LED blinks green. You see the Group Call icon, the group alias or ID, and transmitting radio alias or ID on your display.

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

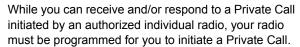
#### OR

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

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

You can also make a Group Call via Contacts (see **Making a Group Call from Contacts** on page 48).

## 🧻 Making 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, the programmed number keys, or the Channel Selector Knob, 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 67 or *Call Alert Operation* on page 59 for more information.

#### Procedure:

- 1 Turn the Channel Selector Knob to select the channel with the active subscriber 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 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.

- 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.
- 6 If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond. OR

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.

You can also make a Private Call via Contacts (see **Making a Private Call from Contacts** on page 49) or perform a quick alphanumeric search for the required alias via a keypad entry (see **Making a Call by Alias Search** on page 50).

## Making an All Call

This feature allows you to transmit to all users on the channel. Your radio must be programmed to allow you to use this feature.

#### Procedure:

- 1 Turn the Channel Selector Knob to select the channel with the active All Call group 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 Group Call icon appears in the top right corner. The first text line shows #11 Call.
- Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
  OR

Wait for the **PTT** Sidetone to finish (if enabled) and speak clearly into the microphone.

Users on the channel cannot respond to an All Call.

## 🗍 Making a Selective Call 📵

Just like a Private Call, while you can receive and/or respond to a Selective Call initiated by an authorized individual radio, your radio must be programmed for you to initiate a Selective Call.

#### Procedure:

- 1 Turn the Channel Selector Knob to select the channel with the active subscriber 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 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.

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

#### OR

Wait for the **PTT** Sidetone 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.
- 6 If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond.

#### OR

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 Group or Private Call with the One Touch Access Button

The One Touch Access feature allows you to make a Group or Private Call to a predefined alias or ID easily. This feature can be assigned to a short or long programmable button press, or to a long numeric button press.

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

#### Procedure:

- 1 Press the programmed **One Touch Access** button to make a Group or Private Call to the predefined 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 Group/Private Call icon appears in the top right corner. The first text line shows the caller alias. The second text line displays the call status for a Private Call.

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

OR

For Group Call only: Wait for the PTT Sidetone 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.
- 6 If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond.

OR

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

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

For a Private Call, you hear a short tone when the call ends.

## Making a Group, Private or All Call with the Programmable Number Key

The Programmable Number Key feature allows you to make a Group, Private or All Call to a predefined alias or ID easily. This feature can be assigned to all the available number keys on a keypad.

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.

#### Procedure:

When you are on the Home screen:

- 1 Long press the programmed number key to make a Group, Private or All Call to the predefined alias or ID. If the number key is not associated to an entry, a negative indicator tone sounds.
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- Press the **PTT** button to make the call. The LED lights up solid green. The Group/Private Call icon appears in 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 R11 Call for All Call.

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

OR

- For Group Call only: Wait for the PTT Sidetone 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.
- 6 If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond.

OR

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

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

For a Private Call, you hear a short tone when the call ends.

See Assigning an Entry to a Programmable Number Key on page 51 for details on assigning an entry to a number key on the keypad.

## Stopping a Radio Call 📵



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.

#### Procedure:

While on the required channel:

- Press the programmed Transmit Interrupt Remote Dekey button.
- The display shows Remote Dekey.
- Wait for acknowledgment.
- The radio sounds a positive indicator tone and the display shows Remote Dekey Success, indicating that the channel is now free.

#### OR

The radio sounds a negative indicator tone and the display shows Remote Dekey Failed.

On the interrupted radio, the display shows Call Interrupted and your radio sounds a negative indicator tone until you release the PTT button, if it is transmitting an interruptible call that is stopped via this feature.

## Talkaround

You can continue to communicate when your repeater is not operating, or when your radio is out of the repeater's range but within talking range of other radios.

This is called "talkaround".

**NOTE:** This feature is not applicable in Capacity Plus.

#### Procedure:

Press the programmed **Repeater/Talkaround** button to toggle between talkaround and repeater modes.

#### OR

Follow the procedure below.

- to access the menu.
- ▶ or ▼ to Utilities and press 🖫 to select.
- ▲ or ▼ to Radio Settings and press Ѿ to select.
- or ▼ to Talkaround 🕷
- Press to enable Talkaround. The display shows ✓ beside Fnabled.

#### OR

Press to disable Talkaround. The ✓ disappears from beside Enabled.

6 The screen automatically returns to the previous menu.

The Talkaround setting is retained even after powering down.

**NOTE:** At Step 4, you can also use ◀ or ▶ to change the selected option.

## Monitoring Features

## Monitoring a Channel

Use the Monitor feature to make sure a channel is clear before transmitting.

**NOTE:** This feature is not applicable in Capacity Plus.

#### Procedure:

- 1 Press and hold the programmed **Monitor** button and listen for activity.
- The monitor icon appears on the status bar and the LED lights up solid yellow.
- You hear radio activity or total silence, depending on how your radio is programmed.
- 4 When you hear "white noise" (that is, the channel is free), press the **PTT** button to talk and release it to listen.

## Permanent Monitor

Use the Permanent Monitor feature to continuously monitor a selected channel for activity.

**NOTE:** This feature is not applicable in Capacity Plus.

#### Procedure:

- 1 Press the programmed **Permanent Monitor** button.
- 2 Radio sounds an alert tone, the LED lights up solid yellow, and the display shows Permanent Monitor On. The monitor icon appears on the status bar.
- 3 Press the programmed Permanent Monitor button to exit Permanent Monitor mode.
- 4 Radio sounds an alert tone, the LED turns off, and display shows Permanent Monitor Off.

# 0

## **Advanced Features**

Use this navigation guide to learn more about advanced features available with your radio:

Radio Check page 37	
Remote Monitorpage 38	
Scan Lists page 40	
Scan page 44	
Vote Scan page 47	
Contacts Settings page 47	
Call Indicator Settings page 53	
Call Log Features page 57	
Call Alert Operationpage 59	
Emergency Operation page 60	
Text Message Features page 67	
Analog Message Encode page 80	
Analog Status Update page 81	
Privacy page 82	
Dual Tone Multi Frequency (DTMF) page 84	
IP Site Connect page 84	
Security page 87	
Lone Worker page 89	
Password Lock Features page 90	
Bluetooth Operation page 93	
Notification List page 96	

Utilities	page 96
Front Panel Programming (FPP)	page 110

## 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.

This feature is only applicable for subscriber aliases or IDs.

## Sending a Radio Check

#### Procedure:

Use the programmed Radio Check button.

- Press the programmed Radio Check button.
- to select.
- The display shows transitional mini notice, indicating the request is in progress. The LED lights up solid green.
- Wait for acknowledgement.

If successful, a positive indicator tone sounds and the display shows positive mini notice.

#### OR

If unsuccessful, a negative indicator tone sounds and the display shows negative mini notice.

Radio returns to the subscriber alias or ID screen.

#### OR

#### Procedure:

Use the menu.

- to access the menu.
- or ▼ to Contacts and press ( to select.)
- to select.

#### OR

◆ 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 the ID. Press to select.

#### OR

◆ or ▼ to Manual Dial and press to select. Key in the subscriber alias or ID and press (iii).

► or ▼ to Radio Check and press to select.

- The display shows transitional mini notice, indicating the request is in progress. The LED lights up solid green.
- Wait for acknowledgement.
- If successful, a positive indicator tone sounds and the display shows positive mini notice.

#### OR

If unsuccessful, a negative indicator tone sounds and the display shows negative mini notice.

Radio returns to the subscriber alias or ID screen.

If the button is pressed when the radio is waiting for acknowledgement, a tone sounds, and the radio terminates all retries and exits Radio Check mode.

## Remote Monitor (n)



Use the Remote Monitor feature to turn on the microphone of a target radio (subscriber alias or IDs only). No audible or visual indication is given to the target radio. 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

#### Procedure:

Use the programmed Remote Monitor button.

- Press the programmed Remote Monitor button.
- to select.
- The display shows transitional mini notice, indicating the request is in progress. The LED lights up solid green.
- Wait for acknowledgment.

the LFD turns off.

If successful, a positive indicator tone sounds and the display shows positive mini notice. Your radio starts playing audio from the monitored radio for a programmed duration and display shows Rem. Monitor. Once the timer expires, the radio sounds an alert tone and

OR

If unsuccessful, a negative indicator tone sounds and the display shows negative mini notice.

#### OR

#### Procedure:

Use the menu.

- 1 to access the menu.
- 2 ▲ or ▼ to Contacts and press ( to select.
- or ▼ to the required subscriber alias or ID and press to select.

#### OR

◆ 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 the ID. Press to select.

#### OR

- ◆ or ▼ to Manual Dial and press to select. Key in the subscriber alias or ID and press to select.
- 4 ♠ or ▼ to Remote Mon. and press to select.
- 5 The display shows transitional mini notice, indicating the request is in progress. The LED lights up solid green.
- 6 Wait for acknowledgment.

If successful, a positive indicator tone sounds and the display shows positive mini notice. Your radio starts playing audio from the monitored radio for a programmed duration and display shows Rem. Monitor.

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

#### OR

If unsuccessful, the radio sounds a negative indicator tone the display shows negative mini notice.

## Stopping Remote Monitor

Remote Monitor automatically stops after a programmed duration or when there is any user operation on the target radio.

#### Procedure:

- Press the programmed Transmit Interrupt Remote Dekey button.
- The display shows transitional mini notice, indicating the request is in progress. The LED lights up solid green.
- 3 Wait for acknowledgment.
- 4 If successful, a positive indicator tone sounds and the display shows positive mini notice.

#### OR

If unsuccessful, a negative indicator tone sounds and the display shows negative mini notice.

## Scan Lists

Scan lists are created and assigned to individual channels/ groups. Your radio scans for voice activity by cycling through the channel/group sequence specified in the scan list for the current channel/group.

Your radio can support up to 250 scan lists, with a maximum of 16 members in a list. Each scan list supports a mixture of both analog and digital entries.

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.

**NOTE:** This feature is not applicable in Capacity Plus.

## Viewing an Entry in the Scan List

#### Procedure:

- 1 to access the menu.
- 2 ▲ or ▼ to Scan and press 🗓 to select.
- 4 Use → or ▼ to view each member on the list.

The priority icon appears left of the member's 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**.

## ☐ Viewing an Entry in the Scan List by Alias Search

#### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Scan and press to select.
- 4 Key in the first character of the required alias.
- 5 A blinking cursor appears.

Use the keypad to type the required alias.

- Press 

  to move one space to the left.
- Press ▶ to move one space to the right.

Press the \*DEL key to delete any unwanted characters.

6 The first line of the display shows the characters you keyed in. The next lines of the display show the shortlisted 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 scan list.

- Editing the Scan List
- Adding a New Entry to the Scan List

#### Procedure:

- to access the menu.
- 2 ▲ or ▼ to Scan and press 🗓 to select.
- 4 ▲ or ▼ to Add Member and press to select.

Key in the first character of the required alias.

6 A blinking cursor appears.

Use the keypad to type the required alias.

- Press ◀ to move one space to the left.
- Press to move one space to the right.

Press the \*DEL key to delete any unwanted characters.

7 The first line of the display shows the characters you keyed in. The next lines of the display show the shortlisted search results.

The alias search is case-insensitive. If there are two or more aliases with the same name, the radio displays the alias that is listed first in the list.

- 8 Press to select.
- 10 The display shows positive mini notice, followed immediately by Add Another?.
- 11 or to Yes and press to select, to add another entry, and repeat Steps 5 to 9.

OR

or ▼ to No and press to select to save the current list.

Deleting an Entry from the Scan List

#### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Scan and press to select.
- 4 or ▼ to the required alias or ID and proceed to Step 7.
  OR
  - Key in the first character of the required alias.

    A blinking cursor appears.

Use the keypad to type the required alias.

Press ◀ to move one space to the left.

Press beto move one space to the right.

Press the \*DEL key to delete any unwanted characters.

6 The first line of the display shows the characters you keyed in. The next lines of the display show the shortlisted 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 scan list.

- 7 Press to select.
- 8 ▲ or ▼ to Delete and press ( to select.

- 9 At Delete Entry?, or to Yes and press to select, to delete the entry. The display shows positive mini notice. OR
  - or ▼ to No and press to select to return to the previous screen.
- 10 Repeat Steps 4 to 9 to delete other entries.

After deleting all required aliases or IDs, long press (a) to return to the Home screen.

Setting and Editing Priority for an Entry in the Scan List

#### Procedure:

- to access the menu.

- Toy in the mot orangeter of the required
- A blinking cursor appears.
  Use the keypad to type the required alias.
- Press ◀ to move one space to the left.
- Press ▶ to move one space to the right.
- Press the \*DEL key to delete any unwanted characters.
- 6 The first line of the display shows the characters you keyed in. The next lines of the display show the shortlisted 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 scan list.

- 7 Press to select.
- 8 ♠ or ▼ to Edit Priority and press ( to select.
- **10** The display shows positive mini notice before returning to the previous screen.
- 11 The priority icon appears left of the member's name.

There is no priority icon if priority is set to **None**.

## Scan

When you start a scan, your radio cycles through the programmed scan list for the current channel looking for voice activity.

The LED blinks yellow and the scan icon appears on the status bar.

During a dual mode scan, if you are on a digital channel, and your radio locks onto an analog channel, it automatically switches from digital mode to analog mode for the duration of the call. This is also true for the reverse.

There are two ways of initiating scan:

- Main Channel Scan (Manual): Your radio scans all the channels/groups in your scan list. On entering scan, your radio may – depending on the settings – automatically start on the last scanned "active" channel/group or on the channel where scan was initiated.
- Auto Scan (Automatic): Your radio automatically starts scanning when you select a channel/group that has Auto Scan enabled.

**NOTE:** This feature is not applicable in Capacity Plus.

## Starting and Stopping Scan

#### Procedure:

Press the programmed **Scan** button to start or stop Scan. **OR** 

Follow the procedure below.

- 1 Use the Channel Selector Knob to select a channel programmed with a scan list.
- 2 to access the menu.
- 4 ▲ or ▼ to Scan State and press to select.
- 6 The display shows Scan On when scan is enabled. The LED blinks yellow and the scan icon appears.

#### OR

The display shows Scan Off if scan is disabled. The LED turns off and the scan icon disappears.

appearsdisappears While scanning, the radio will only accept data (e.g. text message, location, telemetry, or PC data) if received on its Selected Channel.

## Responding to a Transmission During a Scan

During scanning, your radio stops on a channel/group where activity is detected. The radio stays on that channel for a programmed time period known as "hang time".

#### Procedure:

- 1 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
  - If the Channel Free Indication feature is enabled, you will 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 LED lights up solid green.
- 3 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

#### OR

- Mait for the PTT Sidetone 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 channels/groups.

## Deleting a Nuisance Channel

If a channel continually generates unwanted calls or noise (termed a "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.

#### Procedure:

- 1 When your radio "locks on to" an unwanted or nuisance channel, press the programmed Nuisance Channel Delete button until you hear a tone.
- 2 Release the Nuisance Channel Delete button. The nuisance channel is deleted.

Deleting a "nuisance" channel is **only** possible through the programmed **Nuisance Channel Delete** button. This feature is **not** accessible through the menu.

## Restoring a Nuisance Channel

#### Procedure:

To restore the deleted nuisance channel, do **one** of the following:

- Turn the radio off and then power it on again, OR
- Stop and restart a scan via the programmed Scan button or menu, OR
- Change the channel via the Channel Selector Knob.

## 

Vote Scan provides you with wide area coverage in areas where there are multiple base stations transmitting identical information on different analog channels.

Your radio scans analog channels of multiple base stations and performs a voting process to select the strongest received signal. Once that is established, your radio unmutes to transmissions from that base station.

The LED blinks yellow and the vote scan icon appears on the status bar.

To respond to a transmission during a Vote Scan, follow the same procedures as Responding to a Transmission During a Scan on page 45.

## **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.

Each entry, depending on context, associates with one of five types of calls: 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 more information.

**NOTE:** If the Privacy feature is enabled on a channel, you can make privacy-enabled Group Call, Private Call, and All Call 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 unscramble the transmission.

See *Privacy* on page 82 for more information.



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

Your radio supports two Contacts lists, one for Analog contacts and one for Digital contacts, with a maximum of 500 members for each Contacts list.

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.

For the Analog Contacts list, you can only view the subcriber IDs, edit the subscriber IDs, and initiate a Call Alert. Adding and deleting capabilities can only be performed by your dealer.

## Making a Group Call from Contacts

#### Procedure:

- 1 to access the menu.

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

#### OR

Wait for the **PTT** Sidetone to finish (if enabled) and speak clearly into the microphone.

- Release the PTT button to listen. When any user in the group responds, the LED blinks green. You see the Group Call icon, the group ID, and that user's ID on your display.
- If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond.

#### OR

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

## 🗍 Making a Private Call from Contacts 📵



- 1 to access the menu.

#### OR

★ or ▼ to Manual Dial and press to select.

If there was previously dialed subscriber alias or ID, the alias or ID appears along with a blinking cursor.

Use the keypad to edit the ID.

#### OR

- or ▼ to Manual Dial and press to select.

  Use the keypad to enter a new subscriber alias or ID.
- 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.
  - Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- Release the PTT button to listen. When the target radio responds, the LED blinks green and the display shows the transmitting user's ID.
- 8 If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond.

#### OR

- If there is no voice activity for a programmed period of time, the call ends.
- 9 You hear a short tone. The display shows Call Ended.

## Making a Call by Alias Search 📵



You can also use alias or alphanumeric search to retrieve the required subscriber alias.

This feature is only applicable while in Contacts.

#### Procedure:

- to access the menu.
- ◆ or ▼ to Contacts and press ( to select. The entries are alphabetically sorted.
- Key in the first character of the required alias.
- A blinking cursor appears.

Use the keypad to type the required alias.

Press 

to move one space to the left.

Press to move one space to the right.

Press the \*DEL key to delete any unwanted characters.

- The first line of the display shows the characters you keyed in. The next lines of the display show the shortlisted search results.
  - The alias search is case-insensitive. If there are two or more aliases with the same name, the radio displays the alias that is listed first in the Contacts list.
- Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- Press the PTT button to make the call. The LED lights up solid green. The display shows the destination alias.
- Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- Release the PTT button to listen. When the target radio responds, the LED blinks green.
- 10 If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond.

#### OR

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

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

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.

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.

## Assigning an Entry to a Programmable Number Key

#### Procedure:

- to access the menu.

- 4 ▲ or ▼ to Program Key and press to select.
- or ▼ to the desired number key and press to select.

If the number key is currently assigned to another entry, the display shows The Key is filteredy Used and then, the first line of the display shows Overwrite?.

- or ▼ to Yes and press to select.
- 6 The radio sounds a positive indicator tone and the display shows positive mini notice.
- 7 The screen automatically returns to the previous menu.

NOTE: Each entry can be associated to different number keys. 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.

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.

See Making a Group, Private or All Call with the Programmable Number Key on page 32 for details on making a Group, Private or All Call with the programmed number key(s).

Removing the Association between Entry and Programmable Number Key

#### Procedure:

Long press the programmed number key to the required alias or ID, press to select, and proceed to Step 4.

#### OR

Follow the procedure below.

- 1 to access the menu.

- 4 ▲ or ▼ to Program Key and press 🖫 to select.
- 5 ♠ or ▼ to Empty and press ∰ to select.
- The first line of the display shows Clear from all keys?.
- 8 The radio sounds a positive indicator tone and the display shows positive mini notice.
- 9 The screen automatically returns to the previous menu.

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

## Setting Default Contact

#### Procedure:

Follow the procedure below.

- 1 to access the menu.
- 2 ♠ or ▼ to Contacts and press to select.
- 4 ▲ or ▼ to Set as Default and press ( to select.
- The radio sounds a positive indicator tone and the display shows positive mini notice.
- 6 A ✓ appears beside the selected default alias or ID.

## 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.

#### Procedure:

- 1 to access the menu.
- 2 ♠ or ▼ to Utilities and press ( to select.
- 3 ▲ or ▼ to Radio Settings and press 🗓 to select.
- 5 ▲ or ▼ to Call Ringers and press 🖫 to select.

**NOTE:** At Step 6, you can also use **∮** or **▶** to change the selected option.

## Activating and Deactivating Call Ringers for Private Calls

You can turn on or off the ringing tones for a received Private Call.

#### Procedure:

- 1 to access the menu.
- 3 ▲ or ▼ to Radio Settings and press 🖫 to select.
- 4 ◆ or ▼ to Tones/Alents and press ( to select.
- 5 ▲ or ▼ to Call Ringers and press 🖫 to select.
- 6 ▲ or ▼ to Private Call ਿ.
- 7 Press ( to enable Private Call ringing tones. The display shows ✓ beside Enabled.

OR

Press to disable Private Call ringing tones. The ✓ disappears from beside Enabled.

**NOTE:** At Step 6, you can also use **∮** or **▶** to change the selected option.

## Activating and Deactivating Call Ringers for Selective Call

You can select, or turn on or off ringing tones for a received Selective Call.

#### Procedure:

- 1 to access the menu.
- 3 ♠ or ▼ to Radio Settings and press ( to select.
- 4 or to Tones/Alents and press to select.
- 5 ♠ or ▼ to Call Ringers and press ( to select.
- 6 ♠ or ▼ to Selective Call and press ( to select. The current tone is indicated by a ✓.

**NOTE:** At Step 6, you can also use ◀ or ▶ to change the selected option.

## Activating and Deactivating Call Ringers for Text Message

You can select, or turn on or off the ringing tones for a received Text Message.

#### Procedure:

- 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/Alents and press 🗓 to select.
- 5 ▲ or ▼ to Call Ringers and press to select.

**NOTE:** At Step 6, you can also use ◀ or ▶ to change the selected option.

## Activating and Deactivating Call Ringers for Telemetry Status with Text

You can turn on or off the alert tones for a received Telemetry Status with Text.

#### Procedure:

- 1 to access the menu.
- 3 ▲ or ▼ to Radio Settings and press 🖫 to select.
- 5 ♠ or ▼ to Call Ringers and press ( to select.

**NOTE:** At Step 6, you can also use ◀ or ▶ to change the selected option.

## Assigning Ring Styles

You can program your radio to sound one of ten predefined ringing tones when receiving a Call Alert or a Text Message from a particular contact.

#### Procedure:

- 1 to access the menu.

- 4 ◆ or ▼ to Edit and press 🗓 to select.
- 5 Press until display shows Edit Ringtone menu.
- 6 A ✓ indicates the current selected tone.
- 8 The display shows a positive mini notice.

The radio sounds out each ring style as you navigate through the list.

## 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 Escalert.

#### Procedure:

- 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/Alents and press ( to select.
- 6 Press to enable Escalert. The display shows ✓ beside Enabled.

#### OR

Press to disable Escalert. The ✓ disappears from beside Enabled.

**NOTE:** At Step 5, you can also use **∮** or **▶** to change the selected option.

## Call Log Features <a>⑥</a>

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:

- Store ID to Contacts
- Delete
- View Details

## Viewing Recent Calls

The lists are Missed, Answered, and Outgoing.

#### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Call Log and press ( to select.
- 3 ◆ or ▼ to required list and press to select.
- 4 The display shows the most recent entry at the top of the list.

Press the **PTT** button to start a Private Call with the current selected alias or ID.

## Storing an Alias or ID from a Call List

#### Procedure:

- to access the menu.
- or ▼ to Call Log and press to select.

- A blinking cursor appears. If needed, key in the alias for that ID and press .
- 7 The display shows positive mini notice.

You can also store an ID without an alias.

## Deleting a Call from a Call List

#### Procedure:

- 1 to access the menu.

- 5 ◆ or ▼ to Delete and press 🗓 to select.
- 6 Press ( to select Yes to delete the entry. The display shows positive mini notice.

OR

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 (see **Turning Keypad Tones On or Off** on page 97).

## Viewing Details from a Call List

#### Procedure:

- 1 to access the menu.
- 2 ▲ or ▼ to Call Log and press 🖫 to select.

# 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 or manual dial.

# Receiving and Responding to a Call Alert

When you receive a Call Alert page, you see the notification list listing a Call Alert with the alias or ID of the calling radio on the display.

### Procedure:

- 1 You hear a repetitive tone. The LED blinks yellow.
- Press the PTT button while the display still shows the Call Alert in the Notification List to respond with a Private Call. OR

Press to exit the Notification List. The alert is moved to the Missed Call Log.

See **Notification List** on page 96 for details about the Notification List.

See **Call Log Features** on page 57 for details about the Missed Call List.

# Making a Call Alert from the Contacts List

### Procedure:

- to access the menu.
- or ▼ to Contacts and press to select.

### OR

- ▲ or ▼ to Manual Dial and press to select.

  A blinking cursor appears. Enter the subscriber ID you want to page and press.
- 4 ▲ or ▼ to Call Alert and press ∰ to select.
- 5 The display shows Call Alert and the subscriber alias or ID, indicating that the Call Alert has been sent.
- 6 The LED lights up solid green when your radio is sending the Call Alert.
- 7 If the Call Alert acknowledgement is received, the display shows positive mini notice.

### OR

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

# Making a Call Alert with the One Touch Access **Button**

#### Procedure:

- Press the programmed One Touch Access button to make a Call Alert to the predefined alias or ID.
- The display shows 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 positive mini notice.

### OR

If the Call Alert acknowledgement is not received, the display shows 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 on any screen display 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 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 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 radio's speaker, until you press the PTT button to initiate the call.
- Silent with Voice Radio transmits an alarm signal without any audio or visual indicators, but allow incoming calls to sound through the radio's speaker.

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

# Receiving an Emergency Alarm

### Procedure:

### OR

The emergency icon appears, a tone sounds, the LED blinks red, and the radio displays the emergency caller alias Press to view more details. Press again to view your action options.

2 Press and select Yes to exit the Alarm List.

To revisit the Alarm List, press to access the menu and select flam List.

When your radio receives an Emergency Alarm, it displays the Emergency Alarm received indications until acknowledgement is sent (if enabled) and you exit the Emergency mode.

You will not be able to receive any other indications or displays for any other calls until you exit the Emergency Alarm received screen.

The Emergency icon appears on the status bar if there are undeleted emergency alarms in the Alarm List.

#### NOTE:

When your radio receives an Emergency Alarm, and you change the radio channel, the Emergency Alarm list is hidden. The new channel displays the Emergency icon and the LED blinks red. When you change the radio channel back to the previous channel, it also displays the Emergency icon and the LED blinks red.

# Responding to an Emergency Alarm

### Procedure:

When receiving an Emergency Alarm:

- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
  - If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is now available for use.
- 3 Press PTT button to transmit non-emergency voice to the same group that the Emergency Alarm was targeted to. The LED lights up solid green. Your radio remains in the Emergency mode.

- 4 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
  OR
  - Mait for the PTT Sidetone to finish (if enabled) and speak clearly into the microphone.
- Release the **PTT** button to listen. When the emergency initiating radio responds, the LED blinks green. You see the Group Call icon, the group ID, and transmitting radio ID on your display.
- 6 Your radio displays 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.

# Sending an Emergency Alarm

This feature allows you to send an Emergency Alarm, a non-voice signal, which triggers an alert indication on a group of radios.

#### Procedure:

- 1 Press the programmed **Emergency On** button.
- The display shows Tx Alarm and the destination alias. The LED lights up solid green and the Emergency icon appears.
  OR
  - The display shows Tx Telegram and the destination alias. The LED lights up solid green and the Emergency icon appears.
- When an Emergency Alarm acknowledgment is received, the Emergency tone sounds and the LED blinks green. The display shows Alarm Sent.

#### OR

If your radio does not receive an Emergency Alarm acknowledgement, and after all retries have been exhausted, a tone sounds and the display shows Alarm Failed.

4 Radio exits the Emergency Alarm mode and returns to the Home screen.

If your radio is set to Silent, it will not display any audio or visual indicators during Emergency mode.

# Sending an Emergency Alarm with Call

This feature allows you to send an Emergency Alarm to a group of radios. Upon acknowledgement by a radio within the group, the group of radios can communicate over a programmed Emergency channel.

#### Procedure:

- 1 Press the programmed **Emergency On** button.
- The display shows Tx flamm and the destination alias. The LED lights up solid green and the Emergency icon appears.
  OR
  - The display shows Tx Telegram and the destination alias. The LED lights up solid green and the Emergency icon appears.
- When an Emergency Alarm acknowledgment is received, the Emergency tone sounds and the LED blinks green. The display shows Alarm Sent.
- 4 Your radio enters the emergency call mode when the display shows Emergency and the destination group alias.
- 5 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 6 Press **PTT** button to make the call. The LED lights up solid green and the group icon appears on the display.

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

Mait for the PTT Sidetone to finish (if enabled) and speak clearly into the microphone.

- 8 Release the PTT button to listen. When you receive a group call, the display shows the caller alias and group alias.
- When the channel is free for you to respond, a short alert tone sounds ( if the Channel Free Indication feature is enabled). Press the PTT button to respond.
  OR

Once your call ends, press **Emergency Off** button to exit the Emergency mode.

10 The radio returns to the Home screen.

If your radio is set to Silent, it will not display any audio or visual indicators during Emergency mode, or allow any received calls to sound through the radio's speaker, until you press the **PTT** button to initiate the call.

If your radio is set to Silent with Voice, it will not display any audio or visual indicators during Emergency mode, but allow incoming calls to sound through the radio's speaker. The indicators will only appear once you press the **PTT** button to initiate, or respond to, the call.

# Sending an Emergency Alarm with Voice to Follow

This feature allows you to send an Emergency Alarm to a group of radios. Your radio's 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 you press the **PTT** button during the programmed hot mic transmission period, the radio ignores the **PTT** press and remains in Emergency mode.

NOTE: 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.

### Procedure:

- 1 Press the programmed **Emergency On** button.
- The display shows Tx flamm and the destination alias. The LED lights up solid green and the Emergency icon appears.
  OR

The display shows Tx Telegram and the destination alias. The LED lights up solid green and the Emergency icon appears.

Once the display shows filarm Sent, speak clearly into the microphone. When hot mic has been enabled, the radio

- automatically transmits without a **PTT** press until the hot mic duration expires.
- 4 While transmitting, the LED lights up solid green and the Emergency icon appears.
- 5 Once the hot mic duration expires, the radio automatically stops transmitting. To transmit again, press the **PTT** button.
- 6 Press **Emergency Off** button to exit the Emergency mode.
- 7 The radio returns to the Home screen.

If your radio is set to Silent, it will not display any audio or visual indicators during Emergency mode, or allow any received calls to sound through the radio's speaker, until the programmed hot mic transmission period is over, and you press the **PTT** button.

If your radio is set to Silent with Voice, it will not display any audio or visual indicators during Emergency mode when you are making the call with hot mic, but allow sound through the radio's speaker when the target radio responds after the programmed hot mic transmission period is over. The indicators will only appear when you press the **PTT** button.

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

# Reinitiating an Emergency Mode

**NOTE:** This feature is only applicable to the radio sending the Emergency Alarm.

There are two instances where this can happen:

- You change the channel while the radio is in Emergency mode. This exits the Emergency mode. If Emergency Alarm is enabled on this new channel, the radio reinitiates Emergency.
- You press the programmed Emergency On button during an Emergency initiation/transmission state. This causes the radio to exit this state, and to reinitiate Emergency.

# Exiting Emergency Mode

**NOTE:** This feature is only applicable to the radio sending the Emergency Alarm.

Your radio exits Emergency mode when **one** of the following occurs:

- Emergency Alarm acknowledgement is received (for Emergency Alarm only), OR
- An Emergency Exit Telegram is received, OR
- All retries to send the alarm have been exhausted, OR
- The Emergency Off button is pressed.

**NOTE:** If your radio is powered off, it exits the Emergency mode. The radio will not reinitiate the Emergency mode automatically when it is turned on again.

If you change channels when your radio is in Emergency mode to a channel that has no emergency system configured, No Emergency is shown on your display.

# Text Message 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 for a text message. including the subject line (seen when receiving message from an e-mail application), is 280.

The radio exits the current screen once the inactivity timer expires. Any text message in the writing/editing screen will automatically be saved to the Drafts folder.

**NOTE:** Long press at any time to return to the Home screen.

# Writing and Sending a Text Message

# Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

### OR

Follow the procedure below.

- to access the menu.
- ◆ or ▼ to Messages and press ( to select.)

- ▶ or ▼ to Compose and press 🗓 to select.
- A blinking cursor appears.

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 \*DEL key to delete any unwanted characters.

- Press once message is composed.
- or ▼ to the required alias or ID and press ( to select.)

# OR

or ▼ to Manual Dial and press ( to select.)

Key in the subscriber ID and press

# OR

- to edit the message.
- again to discard the message or save it to the Drafts folder.
- The display shows transitional mini notice, confirming your message is being sent.
- If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

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 71).

# Sending a Quick Text Message

Your radio supports a maximum of 50 Quick Text messages as programmed by your dealer.

While Quick Text messages are predefined, you can edit each message before sending it.

# **Procedure:**

Press the programmed **Text Message** button and proceed to Step 3.

### OR

Follow the procedure below.

- 1 to access the menu.

- 5 A blinking cursor appears. 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 \*DEL key to delete any unwanted characters.

- 6 Press once message is composed.
- - or ▼ to Manual Dial and press to select.

Key in the subscriber alias or ID and press .

# OR

- to edit the message.
- again to discard the message or save it to the Drafts folder.
- 8 The display shows transitional mini notice, confirming your message is being sent.
- 9 If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

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 71).

Sending a Quick Text Message with the One Touch
Access Button

### Procedure:

- Press the programmed One Touch Access button to send a predefined Quick Text message to a predefined alias or ID.
- 2 The display shows transitional mini notice, confirming your message is being sent.
- If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

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 71).

# 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

### Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

# OR

Follow the procedure below.

- 1 to access the menu.

# Editing and Sending a Saved Text Message

# Procedure:

- 1 Press again while viewing the message.
- 2 ♠ or ▼ to Edit and press ( to select.

A blinking cursor appears.

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 \*DEL key to delete any unwanted characters.

Press once message is composed.

- - ◆ or ▼ to Manual Dial and press to select.

Key in the subscriber alias or ID and press (iii).

4 The display shows transitional mini notice, confirming your message is being sent.

5 If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

If the text message fails to send, it is moved to the Sent Items folder and marked with a Send Failed icon.

# Deleting a Saved Text Message from Drafts

### Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

### OR

Follow the procedure below.

- 1 to access the menu.

- 5 Press again while viewing the message.

# Managing Fail-to-Send Text Messages

You can select one of the following options while at the Resend option screen:

- Resend
- Forward
- Edit

**NOTE:** If the channel type (i.e. conventional digital or Capacity Plus) is not a match, you can only edit and forward a Fail-to-Send message.

# Resending a Text Message

### Procedure:

- 1 Press to resend the same message to the same subscriber/group alias or ID.
- 2 If the message is sent, a tone sounds and the display shows positive mini notice.

#### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

# Forwarding a Text Message

Select Forward to send the message to another subscriber/group alias or ID.

### Procedure:

- 1 ♠ or ▼ to Forward and press ( to select.
- 2 or ▼ to the required alias or ID and press to select. OR
  - or ▼ to Manual Dial and press to select.

    Key in the subscriber ID and press ...
- 3 The display shows transitional mini notice, confirming your message is being sent.
- 4 If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

# Editing a Text Message

Select Edit to edit the message before sending it.

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

#### Procedure:

- 1 ◆ or ▼ to Edit and press to select.
- 2 A blinking cursor appears.

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 \*DEL key to delete any unwanted characters.

- 3 Press once message is composed.
- 4 ▲ or ▼ to Send and press 🕷 to send the message.

### OR

◆ or ▼ to Save and press to save the message to the Drafts folder.

### OR

to edit the message.

again to delete the message or save it to the Drafts folder.

5 ♠ or ▼ to the required alias or ID and press ( to select.

### OR

◆ or ▼ to Manual Dial and press to select.

Key in the subscriber ID and press.

The display shows transitional mini notice, confirming your message is being sent.

7 If the message is sent, a tone sounds and the display shows positive mini notice.

#### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

# 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

# Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

# OR

Follow the procedure below.

- 1 to access the menu.

- 4 or to the required message and press to select. A subject line may be shown if the message is from an e-mail application.

The icon beside each message indicates the status of the message (see **Sent Item Icons** on page 18).

# Sending a Sent Text Message

You can select one of the following options while viewing a sent text message:

- Resend
- Forward
- Edit
- Delete

**NOTE:** If the channel type (i.e. conventional digital or Capacity Plus) is not a match, you can only edit, forward, or delete a Sent message.

### Procedure:

- 1 Press again while viewing the message.
- 3 The display shows transitional mini notice, confirming that the same message is being sent to the same target radio.
- 4 If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

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:** Changing the volume, and pressing any button, except for , or , or , returns you to the message.

The radio exits the Resend option screen if you press the **PTT** button to initiate a Private or Group Call, or to respond to a Group Call. The radio also exits the screen when it receives a text or telemetry message, an emergency call or alarm, or a call alert.

The display returns to the Resend option screen if you press the **PTT** button to respond to a Private Call (except when the radio is displaying the Missed Call screen), and at the end of an All Call.

Press riangle or riangle to access the Forward, Edi t, or Delete option screen:

- Select Forward to send the selected text message to another subscriber/group alias or ID (see Forwarding a Text Message on page 72).
- Select Edit to edit the selected text message before sending it (see Editing a Text Message on page 72).
- Select Delete to delete the text message.

**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 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

### Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

### OR

Follow the procedure below.

- 1 to access the menu.

- 4 ♠ or ▼ to Delete All and press to select.
- or ▼ to Yes and press to select. The display shows positive mini notice

  OR

or 
 to No and press 
 to return to the previous screen.

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 (see **Turning Keypad Tones On or Off** on page 97).

# 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

**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 when the radio is displaying the alert screen.

# Reading a Text Message

#### Procedure:

- Selected message in the Inbox opens.
  A subject line may be shown if the message is from an e-mail application.
- 3 Press to return to the Inbox.

### OR

Press to reply, forward, or delete the text message.

Press ♠ or ▼ to access the Read Later or Delete option screen:

- Select Read Later to return to the screen you were on prior to receiving the text message.
- Select Delete to 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.

Your radio supports the following options for text messages:

- Reply
- Forward
- Delete
- Delete All

**NOTE:** If the channel type (i.e. conventional digital or Capacity Plus) is not a match, you can only forward, delete, or delete all Received messages.

Text messages in the Inbox are sorted according to the most recently received.

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

# Viewing a Text Message from the Inbox

### Procedure:

- 1 to access the menu.

A subject line may be shown if the message is from an e-mail application.

5 Press to select the current message, and press again to reply, forward, or delete that message.

OR

Long press (\*) to return to the Home screen.

# Viewing a Telemetry Status Text Message from the Inbox

### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Messages and press to select.

- 5 The display shows Telemetry: <Status Text Message>.
- 6 Long press (2) to return to the Home screen.

You cannot reply to a Telemetry Status text message.

# Replying to a Text Message from the Inbox

### Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

# OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Messages and press to select.
- 3 ◆ or ▼ to Inbox and press to select.
- 4 or to the required message and press to select. A subject line may be shown if the message is from an e-mail application.
- 5 Press once more to access the sub-menu.
- 6 ▲ or ▼ to Reply and press 🗓 to select.

OR

or ▼ to Quick Reply and press to select.

- A blinking cursor appears. Use the keypad to edit your message, if required.
- 7 Press once message is composed.
- 8 The display shows transitional mini notice, confirming your message is being sent.
- If the message is sent, a tone sounds and the display shows positive mini notice.

#### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

If the message fails to send, the radio returns you to the Resend option screen (see **Managing Fail-to-Send Text Messages** on page 71).

Deleting a Text Message from the Inbox

# Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

# OR

Follow the procedure below.

- 1 to access the menu.

- 5 Press once more to access the sub-menu.
- 6 ▲ or ▼ to Delete and press 🗓 to select.
- 8 The display shows positive mini notice.
- The screen returns to the Inbox.

# Deleting All Text Messages from the Inbox

### Procedure:

Press the programmed **Text Message** button and proceed to Step 3.

### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Messages and press ( to select.
- 4 ◆ or ▼ to Delete All and press to select.
- 6 The display shows positive mini notice.

When you select the Inbox and it contains no text messages, the display shows  $List\ Empt_{Lh}$  and sounds a low tone if Keypad Tones are turned on (see **Turning Keypad Tones On or Off** on page 97).

# 

Your radio is able to send preprogrammed messages from the Message list to a radio alias or to the dispatcher.

# Sending MDC Message Encode to Dispatcher

### Procedure:

- 1 ◆ or ▼ to Message and press to select.

- 4 The display shows transitional mini notice, confirming your message is being sent.
- 5 If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

# Sending 5-Tone Message Encode to Contact

#### Procedure:

- 1 ◆ or ▼ to Message and press to select.
- or ▼ to Quick Text and press to select.

- 3 ♠ or ▼ to the required message. Press to select.
- 5 The display shows transitional mini notice, confirming your message is being sent.
- 6 If the message is sent, a tone sounds and the display shows positive mini notice.

### OR

If the message is not sent, a low tone sounds and the display shows negative mini notice.

# Analog Status Update (A)



Your radio is able to send preprogrammed messages from the Status List indicating your current activity to a radio contact (for 5-Tone systems) or to the dispatcher (for MDC systems).

The last acknowledged message is kept at the top of the Status List. The other messages are arranged in alphanumeric order.

# Sending Status Update to Predefined Contact

### Procedure:

- ◆ or ▼ to Set as Default. Press to send the status update.
- The display shows transitional mini notice, confirming your status update is being sent.
- If the status update is acknowledged, a tone sounds and the display shows positive mini notice. A ✓ appears beside the acknowledged status.

### OR

If the status update is not acknowledged, a low tone sounds and the display shows negative mini notice. A ✓ remains beside the previous status.

For 5-Tone systems, see **Setting Default Contact** on page 53 for details on setting the default contact.

For 5-Tone systems, a PTT button press while in the status list sends the selected status update and returns to the Home screen to initiate a voice call.

# Viewing 5-Tone Status Details

### Procedure:

- or ▼ to Status and press to select.
- or ▼ to the required status. Press to select.
- or ▼ to View Details. Press to select.
- The display shows details of the selected status.

# Editing 5-Tone Status Details

### Procedure:

- or ▼ to Status and press to select.
- or ▼ to the required status. Press to select.
- or ▼ to Edit. Press ( to select.)
- A blinking cursor appears.

Use the keypad to edit the status details.

Press 

to move one space to the left.

Press or the # key to move one space to the right.

Press the \*DEL key to delete any unwanted characters. Press once editing is complete.

- 5 The display shows Status Saved.
- 6 Radio returns to Status List.



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 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 (unscrambled) transmissions.

Your radio supports two types of privacy:

- Basic Privacy
- Enhanced Privacy.

Only **ONE** of the privacy types above can be assigned to the radio.

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 a different Key Value and Key ID, you will either hear a garbled transmission (Basic Privacy) or nothing at all (Enhanced Privacy).

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

NOTE: Some radio models may not offer this Privacy feature.

Check with your dealer or system administrator for more information.

### Procedure:

Press the programmed **Privacy** button to toggle privacy on or off.

# OR

Follow the procedure below.

- 1 to access the menu.
- 2 ▲ or ▼ to Utilities and press to select.
- 4 ▲ or ▼ to Privacy.

5

6 Press to enable Privacy. The display shows ✓ beside Enabled.

### OR

Press to disable Privacy. The ✓ disappears from beside Enabled.

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 call or alarm.

**NOTE:** At Step 4, you can also use ◀ or ▶ to change the selected option.

# **Dual Tone Multi Frequency (DTMF)**

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

### Procedure:

To initiate a DTMF call.

- Press and hold the **PTT** button.
- Enter the desired number. \* or #.

You can turn off the DTMF tone by disabling all radio tones and alerts (see Turning the Radio Tones/Alerts On or Off on page 96).

# IP Site Connect (a)



This feature allows your radio to extend communication beyond the reach of a single site, by connecting to different available sites via an Internet Protocol (IP) network.

**NOTE:** This feature is not applicable in Capacity Plus.

When the radio moves out of range from one site and into the range of another, it connects to the new site's base station 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 base station 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.

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 channel(s) in the Members list during the automatic roam operation to locate the best site.

A Members list supports a maximum of 16 channels (including the Selected Channel).

**NOTE:** You cannot manually add or delete an entry to the Members list. Check with your dealer or system administrator for more information.

# Starting an Automatic Site Search

**NOTE:** The radio **only** scans for a new site if the current signal is weak or when the radio is unable to detect any signal from the current site. If the RSSI value is strong, the radio remains on the current site.

### Procedure:

Press the programmed Site Lock On/Off button.

- 1 A tone sounds and the display shows Site Unlocked.
- The LED blinks yellow rapidly when the radio is actively searching for a new site, and turns off once the radio locks on to a site.
- 3 The display shows the channel alias and the site roaming icon appears.

OR

#### Procedure:

Use the 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 Site Roaming and press 🕷 to select.
- 6 The radio returns to the Home screen. The display shows the channel alias and the site roaming icon appears.
- 7 The LED blinks yellow rapidly when the radio is actively searching for a new site, and turns off once the radio locks on to a site.

The radio also performs an automatic site search (site is unlocked) during a **PTT** button press or data transmission if the current channel, an IP Site Select channel with an attached roam list, is out of range.

# Stopping an Automatic Site Search

When the radio is actively searching for a new site:

### Procedure:

Press the programmed Site Lock On/Off button.

- 1 A tone sounds and the display shows Si te Locked.
- 2 The LED turns off and the display shows the channel alias.

### OR

### Procedure:

Use the 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 Site Roaming and press to select.
- 5 ♠ or ▼ to Lock Site State.
- 6 Press to lock site. The display shows ✓ beside Enabled.

  OR

Press to unlock site. The ✓ disappears from beside Enabled. The LED turns off and the radio returns to the Home screen. The display shows the channel alias.

**NOTE:** At Step 5, you can also use **∮** or **▶** to change the selected option.

# Starting a Manual Site Search

### Procedure:

Press the programmed **Manual Site Roam** button and proceed to Step 6.

# OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press ( to select.
- 3 ♠ or ▼ to Radio Settings and press ( to select.
- 5 ♠ or ▼ to Active Search and press 🗓 to select.
- 6 A tone sounds and the display shows Finding Site. The LED blinks green.
- 7 If a new site is found, a tone sounds and the LED turns off. The display shows Site <Alias> Found.

### OR

If there is no available site within range, a tone sounds and the LED turns off. The display shows Out of Range.

### OR

If a new site is within range, but the radio is unable to connect to it, a tone sounds and the LED turns off. The display shows Channel Busy.

8 The radio returns to the Home screen.

# Security <a>6</a>

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

#### Procedure:

Use the programmed Radio Disable button.

- 1 Press the programmed **Radio Disable** button.
- 3 The display shows transitional mini notice, indicating the request is in progress. The LED blinks green.
- 4 Wait for acknowledgment.
- 5 If successful, a positive indicator tone sounds and the display shows positive mini notice.

### OR

If unsuccessful, a negative indicator tone sounds and the display shows negative mini notice.

OR

### Procedure:

Use the menu.

- 1 to access the menu.
- 2 or ▼ to Contacts and press to select. The entries are alphabetically sorted.
- - ◆ or ▼ to Manual Dial and press to select.

    Key in the subscriber alias or ID and press.
- 4 ▲ or ▼ to Radio Disable and press 🕷 to select.
- 5 The display shows transitional mini notice, indicating the request is in progress. The LED blinks green.
- 6 Wait for acknowledgment.
- 7 If successful, a positive indicator tone sounds and the display shows positive mini notice.

### OR

If unsuccessful, a negative indicator tone sounds and the display shows negative mini notice.

Do not press during the Radio Disable operation as you will not get an acknowledgement message.

# Radio Enable

### Procedure:

Use the programmed Radio Enable button.

- 1 Press the programmed Radio Enable button.
- 3 The display shows Radio Enable and the subscriber alias or ID. The LED lights up solid green.
- 4 Wait for acknowledgment.
- 5 If successful, the radio sounds a positive indicator tone and the display shows positive mini notice.
  OR

If unsuccessful, the radio sounds a negative indicator tone and the display shows negative mini notice.

### OR

#### Procedure:

Use the menu.

- 1 to access the menu.
- 2 ♠ or ▼ to Contacts and press ( to select. The entries are alphabetically sorted.

◆ or ▼ to Manual Dial and press to select. Key in the subscriber alias or ID and press .

- or ▼ to Radio Enable and press to select.
- The display shows Radio Enable and the subscriber alias or ID. The LED lights up solid green.
- Wait for acknowledgment.
- If successful, the radio sounds a positive indicator tone and the display shows positive mini notice.

# OR

If unsuccessful, the radio sounds a negative indicator tone and the display shows negative mini notice.

Do not press a during the Radio Enable operation as you will not get an acknowledgement message.

# **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 60 on ways to exit Emergency.

**NOTE:** This feature is limited to radios with this function enabled. Check with your dealer or system administrator for more information.

# Password Lock Features

If enabled, this feature allows you to access your radio via password upon powering up.

# Accessing the Radio from Password

### Procedure:

Power up the radio.

- 1 You hear a continuous tone.
- 2 Enter your current four-digit password with the radio's keypad. The display shows ●●●. Press to proceed.

### OR

Enter your current four-digit password. Press ♠ or ▼ to edit each digit's numeric value. Press ▶ or to move to the next digit. Each digit changes to ●. Press to confirm your selection.

You hear a positive indicator tone for every digit pressed. Press ◀ to remove the each ● on the display. You hear 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:

Your radio proceeds to power up. See *Powering Up the Radio* on page 5.

#### OR

If the password is incorrect:

The display shows Wrong Password. Repeat Steps 2.

#### OR

After the third incorrect password, the display shows <code>WrongPassword</code> and then, shows <code>Radio Locked</code>. A tone sounds and the LED double blinks yellow.

Your radio enters into locked state for 15 minutes, and responds to inputs from **On/Off/Volume Control Knob** and programmed **Backlight Auto** button only.

**NOTE:** The radio is unable to receive any call, including emergency calls, in locked state.

# Unlocking the Radio from Locked State

### Procedure:

Wait for 15 minutes. Repeat Steps 1 to 3 in *Accessing the Radio from Password* on page 90.

OR

Power up the radio, if you have powered down the radio during locked state:

- 1 A tone sounds and the LED double blinks yellow. The display shows Radio Locked.
- Wait for 15 minutes. Repeat Accessing the Radio from Password on page 90.

Your radio restarts the 15 minutes timer for locked state when you power up.

Turning the Password Lock On or Off

### Procedure:

- 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 your current four-digit password. See Step 2 in Accessing the Radio from Password on page 90.
- 6 If the password is correct:

  Press ( to enable Password Lock. The display shows ✓ beside Enabled.

# OR

Press to disable Password Lock. The ✓ disappears from beside Enabled.

#### OR

If the password is incorrect:

The display shows Wrong Password and automatically returns to the previous menu.

**NOTE:** At Step 6, you can also use **∮** or **▶** to change the selected option.

# Changing the Password

### Procedure:

1 to access the menu.

2 ◆ or ▼ to Utilities and press to select.

3 ▲ or ▼ to Radio Settings and press 🗓 to select.

5 Enter your current four-digit password. See Step 2 in Accessing the Radio from Password on page 90.

6 If the password is correct:

or ▼ to Change Pwd and press to select.

OR

If the password is incorrect:

The display shows Wrong Password and automatically returns to the previous menu.

- 7 Enter a new four-digit password. See Step 2 in Accessing the Radio from Password on page 90.
- 8 Re-enter the new four-digit password. See Step 2 in Accessing the Radio from Password on page 90.
- 9 If both of the new password inputs match: The display shows Password Changed. OR

If both of the new password inputs do not match: The display shows Passwords Do Not Match.

10 The screen automatically returns to the previous menu.

# Bluetooth Operation

This feature allows you to use your radio with a Bluetoothenabled 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 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. Your radio's Bluetooth function has a maximum power of 2.5 mW (4 dBm) at the 10-meter range.

Your radio can support up to 3 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 your respective Bluetooth-enabled device's user manual for more details on your Bluetooth-enabled device's full capabilities.

# Turning Bluetooth On or Off

### Procedure:

- 1 to access the menu.
- 3 ♠ or ▼ to My Status and press 🗓 to select.
- 4 The display shows ûn and ûff. or to ûn and press to enable Bluetooth. ✓ appears beside ûn. The Bluetooth icon appears on the status bar.

### OR

The display shows <code>@n</code> and <code>@ff</code>. ♠ or ▼ to <code>@ff</code> and press to disable Bluetooth. ✓ appears beside <code>@ff</code>.

# Finding and Connecting to a Bluetooth Device

### **Procedure:**

- 1 Turn on your Bluetooth-enabled device and place it in pairing mode. Refer to respective Bluetooth-enabled device's user manual.
- 1 On your radio, press to access the menu.
- 2 ◆ or ▼ to Blue tooth and press ( to select.
- 3 ◆ or ▼ to Devices and press to select.

4 or to the required device and press to select.

OR

or ▼ to the required device and press to select.

Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to respective Bluetooth-enabled device's user manual.

6 If successful, the radio display shows ⟨Device⟩ Connected. A tone sounds and ✓ appears beside the connected device. The Bluetooth Connected icon appears on the status bar.

#### OR

If unsuccessful, the radio display shows Connecting Failed.

Do not turn off your Bluetooth-enabled device or press during the finding and connecting operation as this cancels the operation.

NOTE: If pin code is required, use the same entry method as Step 2 in *Accessing the Radio from Password* on page 90.

# Disconnecting from a Bluetooth Device

### Procedure:

- 1 On your radio, press to access the menu.
- 2 ♠ or ▼ to Blue tooth and press to select.

- The radio display shows ⟨Device⟩ Disonnected. A positive indicator tone sounds and ✓ disappears beside the connected device. The Bluetooth Connected icon disappears on the status bar.

### Switching Audio Route

You can toggle audio routing between internal radio speaker and external Bluetooth-enabled accessory.

### Procedure:

- 1 Press the programmed Bluetooth Audio Switch button .
- 2 A tone sounds and display shows Route Audio to Radio.
  OR

A tone sounds and display shows  ${\tt Route}\ {\tt Audio}\ {\tt to}\ {\tt Bluetooth}.$ 

### Viewing Device Details

#### Procedure:

- 1 to access the menu.
- 2 ▲ or ▼ to Bluetooth 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.

#### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Blue tooth and press ( to select.
- 3 ♠ or  $\checkmark$  to Devices and press  $\stackrel{\boxplus}{\blacksquare}$  to select.
- 4 ♠ or ▼ to the required device and press ( to select.
- 6 A blinking cursor appears.

Use the keypad to type the required zone.

Press 4 to move one space to the left.

Press beto move one space to the right.

Press the \*DEL key to delete any unwanted characters.

7 The display shows Device Name Saved.

### Notification List

Your radio has a Notification List that collects all your "unread" events on the channel, such as unread text messages, telegrams, telemetry 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.

After the events are read, they are removed from the Notification List

### Accessing the Notification List

#### Procedure:

- 1 to access the menu.
- 2 ▲ or ▼ to Notification and press ( to select.

Long press to return to the Home screen.

### 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.

### Procedure:

Press the programmed **All Tones/Alerts** button to toggle all tones on or off.

#### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities 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 all tones. The display shows ✓ beside Enabled.

### OR

Press to disable all tones. The ✓ disappears from beside Enabled.

**NOTE:** At Step 5, you can also use **∮** or **▶** to change the selected option.

### **Turning Keypad Tones On or Off**

You can enable and disable keypad tones if needed.

### Procedure:

- to access the menu.
- or ▼ to Utilities and press to select.
- or ▼ to Radio Settings and press to select.
- ◆ or ▼ to Tones/Alerts and press  $\binom{m}{w}$  to select.
- lacktriangle or lacktriangle to Keypad Tones and press  $^{lacktriangle}$  to select.
- Press (to enable keypad tones. The display shows ✓ beside Fnabled.

### OR

Press ( to disable keypad tones. The ✓ disappears from beside Enabled.

**NOTE:** At Step 5, you can also use **∮** or **▶** to change the selected option.

### 



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.

#### Procedure:

- to access the menu.
- or 
   to Utilities and press 
   to select.
- ◆ or ▼ to Radio Settings and press ( to select.
- or 
   to Tones/Alents and press 
   to select.
- → or ▼ to Vol. Offset and press ( to select.)
- feedback tone with each corresponding volume value.
- Press to keep the required displayed volume value.

### OR

Repeat Step 6 to select another volume value.

### OR

to exit without changing the current volume offset settings.

### Turning the Talk Permit Tone On or Off

You can enable and disable the Talk Permit Tone if needed.

#### Procedure:

- 1 to access the menu.
- 3 ♠ or  $\checkmark$  to Radio Settings and press  $\textcircled{\blacksquare}$  to select.
- 4 ◆ or ▼ to Tones/Alents and press ( to select.
- 5 ♠ or ▼ to Talk Permit and press ∰ to select.
- 6 Press to enable Talk Permit Tone. The display shows ✓ beside Enabled.

### OR

Press to disable Talk Permit Tone. The ✓ disappears from beside Enabled.

**NOTE:** At Step 5, you can also use **∮** or **▶** to change the selected option.

### Setting the Power Level

You can customize your radio's power setting to high or low for each channel.

**Settings:** High enables communication with radios located at a considerable distance from you. Law enables communication with radios in closer proximity.

#### Procedure:

Press the programmed **Power Level** button to toggle transmit power level between high and low.

### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press ( to select.
- 3 lacktriangle or lacktriangle to select.
- 5
- 7 Screen returns to the previous menu.

Long press to return to the Home screen. The power level icon is visible.

**NOTE:** At Step 4, you can also use **∮** or **▶** to change the selected option.

### 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.

### Procedure:

Press the programmed **Display Mode** button to toggle the display mode settings.

### OR

Follow the procedure below.

- 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 Day/Night and press 🗓 to select.

**NOTE:** At Step 4, you can also use **∮** or **▶** to change the selected option.

### Adjusting the Display Brightness

You can adjust radio's display brightness as needed.

#### Procedure:

Press the programmed **Brightness** button and proceed to Step 5.

### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press to select.
- 4 ▲ or ▼ to Brightness and press ∰ to select.
- 5 The display shows a progress bar. Decrease display brightness by pressing ◀ or increase the display brightness by pressing ▶. Press ( to confirm your entry.

### Controlling the Display Backlight

You can enable or disable the radio's display backlight as needed. The setting also affects the Menu Navigation Buttons and keypad backlighting accordingly.

### Procedure:

Press the programmed **Backlight Auto** button to toggle the backlight settings.

### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press ( to select.
- 3 ← or  $\checkmark$  to Radio Settings and press  $^{\circledR}$  to select.
- 4 ◆ or ▼ to Backlight Auto
- 5 Press to enable backlight. The display shows ✓ beside Enabled.

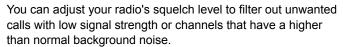
### OR

Press to disable backlight. The ✓ disappears from beside Enabled.

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 102).

**NOTE:** At Step 4, you can also use **∮** or **▶** to change the selected option.

## Setting the Squelch Level



**Settings:** Normal is the default. Tight filters out (unwanted) calls and/or background noise. However, calls from remote locations may also be filtered out.

#### Procedure:

Press the programmed **Squelch** button to toggle squelch level between normal and tight.

### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press to select.
- 3 ♠ or ▼ to Radio Settings and press ∰ to select.
- The display shows Tight and Normal. → or ▼ to the required setting and press to enable. ✓ appears besides selected setting.

6 Screen returns to the previous menu.

**NOTE:** At Step 4, you can also use **∮** or **▶** to change the selected option.

Turning the Introduction Screen On or Off

You can enable and disable the Introduction Screen if needed.

### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press ( to select.
- 3 ◆ or  $\checkmark$  to Radio Settings and press  $\textcircled{\blacksquare}$  to select.
- 4 ▲ or ▼ to Intro Screen and press 🗓 to select.
- 5 Press to enable Introduction Screen. The display shows ✓ beside Fnabled

OR

Press to disable Introduction Screen. The ✓ disappears from beside Enabled.

**NOTE:** At Step 4, you can also use **∮** or **▶** to change the selected option.

### Locking and Unlocking the Keypad

You can lock your radio's keypad to avoid inadvertent key entry.

#### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press to select.
- 3 ♠ or ▼ to Radio Settings and press ( to select.
- 5 The display shows Keypad Locked and returns to the Home screen.
- 6 To unlock the keypad, press of followed by •.
- 7 The display shows Keypad Unlocked and returns to the Home screen.

**NOTE:** At Step 4, you can also use **∮** or **▶** to change the selected option.

### Language

You can set your radio display to be in your required language.

### Procedure:

- 1 to access the menu.

- 4 or ▼ to the required language and press to enable.
   ✓ appears beside selected language.

**NOTE:** At Step 4, you can also use ◀ or ▶ to change the selected option.

### Turning the LED Indicator On or Off

You can enable and disable the LED Indicator if needed.

#### Procedure:

- 1 to access the menu.
- 3 ▲ or ▼ to Radio Settings and press 🖫 to select.
- 4 ▲ or ▼ to LED Indicator and press ∰ to select.
- 5 Press to enable LED indicator. The display shows ✓ beside Enabled.

### OR

Press to disable LED indicator. The ✓ disappears from beside Enabled.

The display backlight, buttons, and keypad backlighting are automatically turned off if the LED indicator is disabled (see **Controlling the Display Backlight** on page 100).

**NOTE:** At Step 4, you can also use ◀ or ▶ to change the selected option.

# ☐ Turning the Voice Operating Transmission (VOX) Feature On or Off

This feature allows you to initiate a hands-free voice activated call on a programmed channel. The radio automatically transmits, for a programmed period, whenever the microphone on the VOX-capable accessory detects voice.

Pressing the **PTT** button during radio operation will disable VOX. To re-enable VOX, do **one** of the following:

- Turn the radio off and power it on again, OR
- Change the channel via the Channel Selector Knob, OR
- Follow the procedure below.

**NOTE:** Turning this feature on or off is limited to radios with this function enabled. Check with your dealer or system administrator for more information.

#### Procedure:

Press the programmed **VOX** button to toggle the feature on or off.

#### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ♠ or ▼ to Utilities and press to select.
- 3 ♠ or ▼ to Radio Settings and press to select.

- 5 Press to enable VOX. The display shows ✓ beside Enabled.

### OR

Press to disable VOX. The ✓ disappears from beside Enabled.

If the Talk Permit Tone feature is enabled (see **Turning the Talk Permit Tone On or Off** on page 98), use a trigger word to initiate the call. Wait for the Talk Permit Tone to finish before speaking clearly into the microphone.

**NOTE:** At Step 4, you can also use ◀ or ▶ to change the selected option.

### ☐ Turning the Option Board Feature(s) On or Off

Option board capabilities within each channel and can be assigned to programmable buttons. Refer to your dealer or system administrator for more information.

#### Procedure:

Press the programmed **Option Board Feature** button to toggle the feature on or off.

### Identifying Cable Type

You can select the type of cable your radio uses.

### **Procedure:**

- 1 to access the menu.
- 3 ▲ or ▼ to Radio Settings and press 🖫 to select.
- 5 The current cable type is indicated by a ✓.

**NOTE:** At Step 4, you can also use **∮** or **▶** to change the selected option.

### 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.

Use the following features to toggle Voice Announcement on or off.

#### Procedure:

Press the programmed **Voice Announcement** button.

### OR

Follow the procedure below.

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press to select.
- 4 Press to enable Voice Announcement. The display shows ✓ beside Enabled.

### OR

Press to disable Voice Announcement. The 

disappears from beside Enabled.

**NOTE:** At Step 3, you can also use **∮** or **▶** to change the selected option.

# Call Forwarding

You can enable your radio to automatically forward voice calls to another radio.

### Procedure:

- 1 to access the menu.
- 2 ♠ or ▼ to Utilities and press to select.
- 4 Press to enable Call Forwarding. The display shows ✓ beside Enabled.

### OR

Press to disable Call Forwarding. The ✓ disappears from beside Enabled.

**NOTE:** At Step 3, you can also use **∮** or **▶** to change the selected option.

### Menu Timer

Set the period of time your radio stays in the menu before it automatically switches to the Home screen.

### Procedure:

- 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 Menu Timer and press 🗓 to select.

### Analog Mic AGC

This feature controls the your radio's microphone gain automatically while transmitting on an analog system. It supresses loud audio or boosts soft audio to a preset value in order to provide a consistent level of audio.

#### Procedure:

- 1 to access the menu.

- 4 ▲ or ▼ to Analog Mic AGC.
- 5 Press <sup>™</sup> to enable Analog Mic AGC. The display shows ✓ beside Enabled.

OR

Press to disable Analog Mic AGC. The ✓ disappears from beside Enabled.

**NOTE:** At Step 3, you can also use **◀** or **▶** to change the selected option.

### Digital Mic AGC

This feature controls the your radio's microphone gain automatically while transmitting on an digital system. It supresses loud audio or boosts soft audio to a preset value in order to provide a consistent level of audio.

#### Procedure:

- 1 to access the menu.

- 4 ♠ or ▼ to Digital Mic AGC.
- Press to enable Digital Mic AGC. The display shows ✓ beside Enabled.

OR

Press to disable Digital Mic AGC. The ✓ disappears from beside Enabled.

**NOTE:** At Step 3, you can also use **∮** or **▶** to change the selected option.

### Intelligent Audio

Your radio automatically adjusts its audio volume to overcome current background noise in the environment.

Use the following features to toggle Intelligent Audio on or off.

### Procedure:

Press the programmed **Intelligent Audio** button to toggle the feature on or off.

### OR

Follow the procedure below.

- 1 to access the menu.
- 3 ♠ or ▼ to Radio Settings and press ( to select.
- 5 Press to enable Intelligent Audio. The display shows ✓ beside Enabled.

### OR

Press to disable Intelligent Audio. The ✓ disappears from beside Enabled.

**NOTE:** At Step 3, you can also use **∮** or **▶** to change the selected option.

### 

Global Positioning System (GPS) is a satellite navigation system that determines the radio's precise location.

It is recommended you only disable GPS to save battery life when the GPS signal is unavailable.

#### Procedure:

Press the programmed **GPS** button to toggle the feature on or off.

#### OR

- 1 to access the menu.

- 5 Press to enable GPS. The display shows ✓ beside Enabled.

#### OR

Press ( to disable GPS. The ✓ disappears from beside Fnabled.

See **Checking the GPS Information** on page 109 for details on retrieving GPS information.

**NOTE:** At Step 4, you can also use ◀ or ▶ to change the selected option.

### Accessing General Radio Information

Your radio contains information on the following:

- Battery
- Radio Alias and ID
- Firmware and Codeplug Versions
- GPS Information

NOTE: Press at any time to return to the previous screen or long press (a) 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.

### Procedure:

- to access the menu.
- or ▼ to Utilities and press to select.
- or 
   to Radio Info and press 
   to select.
- or ▼ to Battery Info and press to select.

The display shows the battery information.

#### OR

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 Alias and ID



Displays the ID of your radio.

#### Procedure:

Press the programmed Radio Alias and ID button to check your radio alias and ID. You hear a positive indicator tone.

### OR

Follow the procedure below.

- to access the menu.
- or ▼ to Utilities and press to select.
- ◆ or ▼ to Radio Info and press to select.
- The first line of the display shows the radio alias. The second line of the display shows the radio ID

You can also press the programmed Radio Alias and ID button to return to the previous screen.

# Checking the Firmware Version and Codeplug Version

Displays the firmware and codeplug versions on your radio.

### Procedure:

- 1 to access the menu.
- 2 ◆ or ▼ to Utilities and press to select.
- 4 ♠ or ▼ to Versions and press ( to select.
- 5 The display shows the current firmware and codeplug versions.

### Checking the GPS Information

Displays the GPS information on your radio, such as values of:

- Latitude
- Longitude
- Altitude
- Direction
- Velocity
- Horizontal Dilution of Precision (HDOP)
- Satellites
- Version

#### Procedure:

- 1 to access the menu.
- 2 ♠ or ▼ to Utilities and press ( to select.
- 3 ▲ or ▼ to Radio Info and press 🗓 to select.

- 6 The display shows the requested GPS information.

See GPS on page 107 for details on GPS.

### Front Panel Programming (FPP)

Your radio is able to customize certain feature parameters to enhance the use of your radio.

### Entering FPP Mode

### Procedure:

- 1 to access the menu.
- 2 ▲ or ▼ to Utilities and press ( to select.
- 3 ▲ or ▼ to Program Radio and press to select.

**NOTE:** Long press at any time to return to the Home screen.

### Editing FPP Mode Parameters

Use the following buttons as required while navigating through the feature parameters.

- $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacklozenge$ ,  $\blacktriangleright$  Scroll through options, increase/decrease values, or navigate vertically
- Select the option or enter a sub-menu
- Short-press to return to previous menu or to exit the selection screen. Long-press to return to Home screen.

### **Accessories**

Your radio is compatible with the accessories listed in this chapter. Contact your dealer for details.

Antennas	page	111
Batteries		
Carry Devices	page	112
Chargers	page	112
Earbuds and Earpieces	page	112
Headsets and Headset Accessories	page	112
Remote Speaker Microphones	page	112
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### I Antennas

- UHF, 403 527 MHz, Whip Antenna (PMAE4068\_)
- UHF, 403 450 MHz, Stubby Antenna (PMAE4069)
- UHF, 440 490 MHz, Stubby Antenna (PMAE4070\_)
- UHF, 470 527 MHz, Stubby Antenna (PMAE4071\_)
- VHF, 144 165 MHz, Helical Antenna (PMAD4116\_)
- VHF, 136 155 MHz, Helical Antenna (PMAD4117\_)
- VHF, 152 174 MHz, Helical Antenna (PMAD4118\_)
- VHF, 136 148 MHz, Stubby Antenna (PMAD4119\_)
- VHF, 146 160 MHz, Stubby Antenna (PMAD4120\_)
- VHF, 160 174 MHz, Stubby Antenna (PMAD4121)

### Batteries

- Core NiMH, 1300mAh Battery (PMNN4412\_)
- Core Slim Li-Ion, 1500 mAh Battery (PMNN4406\_)
- IMPRES Li-lon, 1500 mAh Slim Battery (PMNN4407\_)
- IMPRES Hi-Capacity Li-Ion, 2150 mAh Battery (PMNN4409\_)
- IMPRES Hi-Capacity Li-Ion, 2300 mAh Battery (NNTN8129\_)

### Carry Devices

- Nylon Carry Case with 3-Inch Fixed Belt Loop for Full-Keypad and Limited-Keypad Radio (PMLN5844\_)
- Belt Clip for 2-Inch Belt Width (PMLN4651\_)
- Belt Clip for 2.5-Inch Belt Width (PMLN7008)

### Chargers

- IMPRES Multi-Unit Charger (WPLN4212\_)
- IMPRES Multi-Unit Charger with Display (WPLN4219\_)
- IMPRES Single-Unit Charger (WPLN4232\_)
- Core Single-Unit Charger (NNTN8117\_)
- IMPRES Vehicular Charger (NNTN7616\_)
- IMPRES Battery Reader (NNTN7392 )

### Headsets and Headset Accessories

- Heavy Duty Noise-Canceling Headset (PMLN5275\_)
- Non-Secure Wireless Headset & Pod with Push-to-Talk Audio, 12-Inch Cable (NNTN8125 )
- Non-Secure Wireless Headset & Pod with Push-to-Talk Audio, 9.5-Inch Cable (NNTN8126\_)
- Non-Secure HK200 Mobile Bluetooth Headset (89409N)

### Earbuds and Earpieces

D-Shell Earset (PMLN5096)

### Remote Speaker Microphones

- Remote Speaker Microphone (PMMN4024 )
- IMPRES Remote Speaker Microphone (PMMN4025 )

### Surveillance Accessories

- Receive-Only Surveillance Kit, Black (Single Wire) (RLN5878\_)
- Receive-Only Surveillance Kit, Beige (Single Wire) (RLN5879)

- IMPRES 2-Wire Surveillance Kit, Black (RLN5880 )
- IMPRES 2-Wire Surveillance Kit, Beige (RLN5881\_)
- IMPRES 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Black (RLN5882)
- IMPRES 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Beige (RLN5883)
- IMPRES 3-Wire Surveillance, Black (PMLN5097\_)
- IMPRES 3-Wire Surveillance, Beige (PMLN5106\_)
- IMPRES 3-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Black (PMLN5111)
- IMPRES 3-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Beige (PMLN5112\_)

### Miscellaneous Accessories

- Universal Chest Pack (HLN6602\_)
- Shoulder Strap (Attaches to D-Rings on Carry Case) (NTN5243\_)
- Break-A-Way Chest Pack (RLN4570\_)
- Universal RadioPAK and Utility Case (Fanny Pack) (RLN4815\_)

# **Batteries and Chargers Warranty**

### **The Workmanship Warranty**

The workmanship warranty guarantees against defects in workmanship under normal use and service.

All MOTOTRBO Batteries	Two (2) Years
IMPRES Chargers (Single-Unit and Multi-Unit, Non-Display)	Two (2) Years
IMPRES Chargers (Multi-Unit with Display)	One (1) Year

### **The Capacity Warranty**

The capacity warranty guarantees 80% of the rated capacity for the warranty duration.

Nickel Metal-Hydride (NiMH) or Lithium-Ion (Li-Ion) Batteries	12 Months
IMPRES Batteries, When Used Exclusively with IMPRES Chargers	18 Months

## **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:

XPR Series Digital Portable Radios	Two (2) Years
Product Accessories (Excluding Batteries and Chargers)	One (1) Year

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:

- A) Defects or damage resulting from use of the Product in other than its normal and customary manner.
- B) Defects or damage from misuse, accident, water, or neglect.

- C)Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.
- D)Breakage or damage to antennas unless caused directly by defects in material workmanship.
- E) 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.
- F) Product which has had the serial number removed or made illegible.
- G)Rechargeable batteries if:
  - (1) any of the seals on the battery enclosure of cells are broken or show evidence of tampering.
  - (2) 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.
- H)Freight costs to the repair depot.
- 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.
- J) Scratches or other cosmetic damage to Product surfaces that does not affect the operation of the Product.
- K) 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:

- A) that MOTOROLA will be notified promptly in writing by such purchaser of any notice of such claim;
- B) that MOTOROLA will have sole control of the defense of such suit and all negotiations for its settlement or compromise; and
- C)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.

Laws in the United States and other countries preserve for MOTOROLA certain exclusive rights for copyrighted MOTOROLA software such as the exclusive rights to reproduce in copies and distribute copies of such MOTOROLA software. MOTOROLA software may be used in only the Product in which the software was originally embodied and such software in such Product may not be replaced, copied, distributed, modified in any way, or used to produce any derivative thereof. No other use including, without limitation, alteration, modification, reproduction, distribution, or reverse engineering of such MOTOROLA software or exercise of rights in such MOTOROLA software is permitted. No license is granted by implication, estoppel or otherwise under MOTOROLA patent rights or copyrights.

### VII. GOVERNING LAW:

This Warranty is governed by the laws of the State of Illinois, U.S.A.

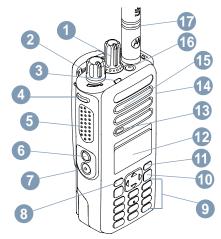
18



## XPR Series Digital Portable Radios Quick Reference Card

**NOTE**: Refer to User Guide for more details on your radio's operations/features.

### Radio Controls



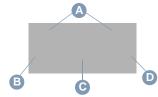
Record your radio's programmable button functions in the blanks provided. **SP** represents Short Press, **LP** represents Long Press.

1 Channel Selector Knob

- On/Off/Volume Control Knob
- 3 LED Indicator
- Side Button 1 (Programmable)
  SP: \_\_\_\_\_ LP: \_\_\_\_\_
- 5 Push-to-Talk (PTT) Button
- Side Button 2 (Programmable)
- Side Button 3 (Programmable)
  SP: LP:
- Front Button P1 (Programmable)
- 9 Keypad
- 10 Menu Navigation Keys
- Front Button P2 (Programmable)
- Display
- Microphone
- Universal Connector for Accessories
- 15 Speaker

- Emergency Button (Programmable)
- 17 Antenna

### Menu Navigation Buttons



- A Left/Right Navigation Keys
- B Menu Button
- OK Button
- Back/Home Button

### Display Icons

The following are the icons that appear on the radio's display.

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





68xxxxxxxx8



Radio is currently set at Low Power (L) or High Power (H).

Tones are turned off.

The Option Board is enabled.

The Option Board is disabled.

The GPS feature is enabled. The icon stays lit when a position fix is available.

The GPS feature is enabled but is not receiving data from the satellite.

Scan feature is enabled.\*

Radio recognizes activity on the channel/ group designated as Priority 1 (if • is

blinking) or as Priority 2 (if • is steady).\* Unread message in the Inbox.

User's Inbox is full 📵

Radio is in Emergency mode.

The Privacy feature is enabled.

The Privacy feature is disabled.

The Site Roaming feature is enabled.\*



Radio bypasses the repeater and communicates directly with another radio.\*



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

### Call Icons

The following icons appear during a call, and in the Contacts list to indicate ID type.



Indicates a Private Call in progress. In Contacts list, it indicates a subscriber alias or ID.



Indicates a Group Call or All Call in progress. In Contacts list, it indicates a group alias or ID.

### Sent Items Icons

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





The text message cannot be sent.



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

### LED Indicator

Blinking red – Radio is receiving an Emergency transmission or has failed the self-test upon powering up.

Solid yellow - Radio is receiving a request for a Private Call, or monitoring a channel.

Blinking yellow - Radio is scanning for activity or receiving a.

Double blinking yellow - Radio is no longer connected to the repeater while in Capacity Plus, all Capacity Plus channels are currently busy or in locked state

Rapidly blinking yellow - Radio is searching for a new site.

Solid green - Radio is transmitting.

Blinking green – Radio is powering up, receiving a non-privacy-enabled call or data, or detecting activity over the air.

Rapidly blinking green - Radio is receiving a privacy-enabled call or data.

For Capacity Plus, there is no LED indication when the radio is detecting activity over the air.

### Powering Up and Turning Off the Radio

Rotate the On/Off/Volume Control Knob clockwise until you hear a click to turn on the radio, and counterclockwise until you hear a click to turn it off.

<sup>\*</sup> Not applicable in Capacity Plus

### Adjusting the Volume

Turn the On/Off/Volume Control Knob clockwise or counterclockwise.

NOTE: Your radio can be programmed to have a minimum volume offset where the volume level cannot be turned down fully. Check with your dealer or system administrator for more information.

### Accessing the Radio from Password

Power up the radio.

- 1 You hear a continuous tone. The first line of the display shows Enter Password: The second line of the display shows a blinking cursor.

You hear a positive indicator tone for every digit pressed. Press to remove the last \* on the display. You hear a negative indicator tone, if you press when the second line of the display is empty, or if you press more than four digits.

3 If the password is correct: Your radio proceeds to power up.

#### OR

If the password is incorrect:

The display shows Wrong Password. Repeat Steps 1 and 2.

Password less than four digits is incorrect.

OR

After the third incorrect password, the display shows wrong Password and then, shows Radio Locked. A tone sounds and the LED double blinks yellow.

Your radio enters into locked state for 15 minutes, and responds to inputs from **On/Off/Volume Control Knob** and programmed **Backlight** button only.

NOTE: The radio is unable to receive any call, including emergency calls, in locked state



Press the programmed **Zone** button and proceed to Step 3.

#### OR

Follow the procedure below.

- 1 for access the menu.
- 2 or to Zone and press to select.
- 3 The current zone is displayed and indicated by a .

OR

Key in the first character of the required zone.

5 A blinking cursor appears. Use the keypad to type the required zone. Press to move one space to the left. Press to move one space to the right. Press the \*DEL key to delete any unwanted characters.

- The first line of the display shows the characters you keyed in. The second line of the display shows the required zone.

  The alias search is case-insensitive. If there are two or more zones with the same name, the radio displays the zone that is listed first in the zone list.
- 7 The display shows <Zone> Selected momentarily and returns to the selected zone screen.

### Selecting a Radio Channel, Subscriber ID, or Group ID

- Turn the On/Off/Volume Control Knob to power up your radio.
- 2 Turn the Channel Selector Knob to select the required channel, subscriber ID, or group ID.

### Capacity Plus

Turn the Channel Selector Knob clockwise or counterclockwise to access channels with Capacity Plus.

### Making a Group Call

Press the programmed **One Touch Access** button and proceed to Step 2.

#### OR

Long press the programmed number key and proceed to Step 2.

OR

Follow the procedure below.

Turn the Channel Selector Knob to select the channel with the active group alias or ID.

OR

to access the menu.

or to Contacts. Press of to select. or to the alias or ID you want to call and press o to select.

- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- Press the PTT button to make the call. The LED lights up solid green. The display shows the group alias or ID, and the Group Call icon.
- Wait for the Talk Permit Tone to finish (if enabled).

OR

Wait for the PTT Sidetone to finish (if enabled).

- Speak clearly into the microphone.
- Release the PTT button to listen. When the target radio responds, the LED blinks green. Display shows the Group Call icon, the group ID, and target radio ID.
- If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond.

OR

If the Voice Interrupt feature is enabled. press the PTT button to stop the current call from the transmitting radio and free the channel for you to talk/respond.

OR

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

To make a call to a group of users, your radio must be configured as part of that group.

Your radio must have the Privacy feature enabled on the channel to send a privacyenabled transmission. Only target radios with the same Privacy Key OR the same Key Value and Kev ID as your radio will be able to unscramble the transmission.

### 🔳 Making a Private Call 📵



NOTE: Your radio must be programmed for you to initiate a Private Call

Press the programmed One Touch Access button and proceed to Step 2.

#### OR

Long press the programmed number key and proceed to Step 2.

#### OR

Follow the procedure below.

Turn the Channel Selector Knob to select the channel with the active subscriber alias or ID. OR

to access the menu

or to Contacts. Press of to select. or to the ID you want to call and press ( to select.

#### OR

Use the keypad to type the required alias. The first line of the display shows the characters you keyed in. The second line of the display shows the required alias.

- 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 first line displays the subscriber alias or ID. The second line displays Private Call and the Private Call icon
- Wait for the Talk Permit Tone to finish (if enabled). Speak clearly into the microphone.
- Release the PTT button to listen. When the target radio responds, the LED blinks green.
- If the Channel Free Indication feature is enabled, you will hear a short alert tone the moment the target radio releases the PTT button, indicating the channel is free for you to respond. Press the PTT button to respond. OR

If the Voice Interrupt feature is enabled, press the PTT button to stop the current call from the transmitting radio and free the channel for you to talk/respond.

### OR

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

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

Your radio must have the Privacy feature enabled on the channel to send a privacyenabled transmission. Only target radios with the same Privacy Key OR the same Key Value and Key ID as your radio will be able to unscramble the transmission.

### Making an All Call

**NOTE**: Your radio must be programmed to allow you to use this feature. Users on the channel cannot respond to an All Call.

Long press the programmed number key and proceed to Step 2.

#### OR

Follow the procedure below.

- Turn the Channel Selector Knob to select the channel with the active All Call group 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 All Call group alias or ID, and the All Call icon.
- Wait for the Talk Permit Tone to finish (if enabled).

### OR

Mait for the PTT Sidetone to finish (if enabled).

Speak clearly into the microphone.

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

When you receive an All Call, a message appears and remains on your radio's display until the call ends. You will not be able to continue with any menu navigation or editing until the call ends.

Once the All Call ends, the radio returns to the menu prior to receiving the call.

### Scanning Channels

NOTE: This feature is not applicable in Capacity Plus.

Press the programmed Scan button to turn scan on or off.

### OR

Follow the procedure below.

- to access the menu
- or to Scan and press to select.
- You see Scan On or Scan Off depending on previous selection.

During scan, the LED blinks yellow and the scan icon is displayed.

### Making a

Press the programmed One Touch Access button and proceed to Step 5.

#### OR

Follow the procedure below.

to access the menu

- or to Contacts. Press of to select.
- or to the required subscriber alias or ID and press (P) to select.
- ✓ or ► to and press ⋈ to select.
- The display shows: <Subscriber Alias or ID>. The LED lights up solid green.
- If the acknowledgement is received, a tone sounds. Display shows Successful. OR

If the acknowledgement is not received, a tone sounds. Display shows Failed.

### 🔳 Sending a Quick Text Message 🐵



Press the programmed **Text Message** button and proceed to Step 3.

#### OR

Press the programmed One Touch Access button to send a predefined Quick Text message to a predefined alias or ID and proceed to Step 6. OR

Follow the procedure below.

- to access the menu.
- ✓ or ► to Messages. Press to select.
- ✓ or 

  to Quick Text and press 

  to select
- or to the required Quick Text and press or to select.
- or to the required alias or ID and press (e) to select.

- 7 If the message is sent successfully, a tone sounds. Display shows Message Sent. OR

If the message cannot be sent, 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.
- Select Forward to send the message to another subscriber/group alias or ID.
- Select Edit to edit the message before sending it.

**NOTE**: 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 stores 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.

The icon at the top right corner of the screen indicates the status of the message.

# Replying to a Text Message with Quick Text from the Inbox

Press the programmed **Text Message** button and proceed to Step 3.

#### OR

Follow the procedure below.

- 1 to access the menu.
- 2 or to Messages. Press to select.
- 3 or ▶ to Inbox. Press ® to select.
- 4 or to the required message and press to select.
  - A subject line may be shown if the message is from an e-mail application.
- 5 Press once more to access the submenu.
- 6 or ▶ to Reply and press ® to select.
- or ► to Quick Text and press ⊕ to select.
- 8 Press once more to send the reply.
- 10 If the message is sent successfully, a tone sounds. Display shows Message Sent.
  OR

If the message cannot be sent, 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.
- Select Forward to send the message to another subscriber/group alias or ID.
- Select Edit to edit the message before sending it.

### Sending an Emergency Alarm

- Press the programmed Emergency On button.
- The display shows Sending filanm, which alternates with your radio ID. The LED lights up solid green and the Emergency icon appears on the Home screen display.
- 3 When an Emergency Alarm acknowledgment is received, the Emergency tone sounds and the LED blinks green. The display shows Emergency Alarm Successful.
  OR

If your radio does not receive an Emergency Alarm acknowledgement, and after all retries have been exhausted, a tone sounds and the display shows Emergency Alarm Failed.

4 Radio exits the Emergency Alarm mode and returns to the Home screen.

If your radio is set to Silent, it will not display any audio or visual indicators during Emergency mode.

### Privacy

Press the programmed **Privacy** button to toggle privacy on or off.

#### OR

Follow the procedure below.

- 1 to access the menu.
- 2 or to Utilities. Press to select
- 3 **●** or **▶** to Radio Settings. Press **®** to select.
- 4 ◀️or ▶️ to Privacy. Press to select.
- The display shows Privacy and Turn On. Press to enable privacy. The display shows Privacy On.

#### OR

The display shows Privacy and Turn Off. Press to disable privacy. The display shows Privacy Off.

### IP Site Connect 📵

**NOTE**: This feature is not applicable in Capacity Plus.

Press the programmed **Site Lock On/Off** button to toggle automatic site roaming on or off.

OR

Follow the procedure below.

- 1 to access the menu.
- 2 or to Utilities. Press to select.
- 3 ◀ or ▶ to Radio Settings. Press ☜ to select.
- select. The display shows Site Unlocked.
  The LED blinks yellow rapidly when the radio is actively searching for a new site, and turns off once the radio locks on to a site. The display shows the site roaming icon.

#### OR

● or ● to Lock Site. Press ● to select. The display shows Site Locked. The LED turns off.

### OR

Press the programmed **Manual Site Roam** button and proceed to Step 6.

### OR

Follow the procedure below.

1 m

to access the menu.

- or to Utilities. Press to select
- 3 ◀ or ▶ to Radio Settings. Press ☜ to select.
- 5 or ▶ to Active Search. Press ® to select.
- 6 A tone sounds. The display shows Finding Site. The LED blinks green.
- 7 If a new site is found, a tone sounds, and the LED turns off. The display shows Site <Alias> Found.

#### OR

If there is no available site within range, a tone sounds, and the LED turns off. The display shows Out of Range.

#### OR

If a new site is within range, but the radio is unable to connect to it, a tone sounds, and the LED turns off. The display shows Channel Busy.

8 The radio returns to the Home screen.

# **Notes**