Professional Digital Two-Way Radio System

MototRB0[™] XPR[™] 6500 / XPR[™] 6550 Display Portable

User Guide







Declaration of Conformity

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



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.

ii.

Contents

This User Guide contains all the information you need to use the MOTOTRBO XPR Series Portables.

Declaration of Conformity i
Important Safety Information
Computer Software Copyrights viii
Getting Started 1 How to Use This Guide 1 What Your Dealer/System Administrator 1 Can Tell You 1
Preparing Your Radio for Use
Attaching the Battery
Attaching the Belt Clip
Adjusting the Volume

Identifying Radio Controls	. 5
Radio Controls You Will Be Using	. 5
Programmable Buttons	. 6
Assignable Radio Functions	. 6
Assignable Settings or Utility Functions	. 7
Accessing the Preprogrammed Functions	. 7
Using the Keypad	. 8
Push-To-Talk (PTT) Button	. 9
Switching Between Analog and Digital Mode	. 9
Identifying Status Indicators	10
Display Icons	10
Call Icons	11
	11
Audio Tones	12
Making and Pocoiving Calls	12
Selecting a Zone	12
Selecting a Dadio Channel, Subscriber ID	12
or Group ID	13
Receiving and Responding to a Radio Call	13
Receiving and Responding to a Group Call	14
Receiving and Responding to a Private Call	14
recoming and recoponding to a rivate our	ιт.

iii

Receiving an All Call	. 15
Making a Radio Call	. 16
Making a Voice Call with the Channel	
Selector Knob	. 16
Making a Group Call	. 16
Making a Private Call	. 17
Making an All Call	. 17
Making a Group or Private Call with the	
One Touch Call Button	. 17
Talkaround	. 18
Monitoring Features	. 19
Monitoring a Channel	. 19
Permanent Monitor	. 19
Advanced Features	. 20
Radio Check	. 20
Sending a Radio Check	. 20
Remote Monitor	. 21
Initiating Remote Monitor	. 21
Scan Lists	. 23
Viewing an Entry in the Scan List	. 23
Editing the Scan List	. 23
Adding a New Entry to the Scan List	. 23

Deleting an Entry from the Scan List	1
	+
Scan	C
Starting and Stopping Scan	5
Responding to a Transmission During a Scan 26	3
Deleting a Nuisance Channel	3
Restoring a Nuisance Channel	3
Contacts Settings 27	7
Making a Group Call from Contacts	7
Making a Private Call from Contacts	3
Making a Private Call by Alias Search	3
Call Indicator Settings 29	9
Activating and Deactivating Call Ringers	
for Private Calls 29	9
Activating and Deactivating Call Ringers	
for Text Messaging 30)
Assigning Ring Styles 30)
Escalating Alarm Tone Volume	1
Call Log Features	1
Viewing Recent Calls	1
Missed Call Screen 32	2

iv

English

C)
-	Ś.
2	1
7	5
2	
5	
C.	

41

Storing an Alias or ID from the Missed
Deleting a Call from a Call List
Call Alert Operation
Receiving and Acknowledging a Call Alert
Making a Call Alert from the Contacts List
Making a Call Alert with the One
Touch Call Button
Emergency Operation
Receiving an Emergency Alarm
Responding to an Emergency Alarm
Sending an Emergency Alarm
Sending an Emergency Alarm with
Call
Sending an Emergency Alarm with
Voice to Follow
Boinitiating on Emergency Mode

Sending a Quick Text Message with the

	ті
Managing Text Messages4	11
Viewing a Text Message from the Inbox4	12
Replying to a Text Message from the Inbox 4	12
Deleting a Text Message from the Inbox4	13
Deleting All Text Messages from the Inbox 4	14
Security	14
Radio Disable	14
Radio Enable4	45
Utilities	46
Locking and Unlocking the Keypad4	46
Turning Keypad Tones On or Off4	16
Setting the Squelch Level4	17
Setting the Power Level	47
Controlling the Display Backlight	48
Turning Radio Tones/Alerts On or Off4	18
Turning the Talk Permit Tone On or Off4	19
Turning the LED Indicator On or Off4	19
Turning the Introduction Screen On or Off 5	50
Accessing General Radio Information5	50
Accessing the Battery Information	50
Checking the Radio ID	51
Checking the Firmware Version	51
Checking the Codeplug Version	51

Reading a Text Message

. 32

. 33 . 33 . 34

. 34 . 35

. 35 . 36 . 36

.37

. 37 . 38 . 38

V

Accessories	52
Antennas	52
Batteries	52
Carry Devices	52
Chargers	53
Earbuds and Earpieces	53
Headsets and Headset Accessories	53

Remote Speaker Microphones	53
Surveillance Accessories	54
Miscellaneous Accessories	54
Batteries and Chargers Warranty	55
Limited Warranty	56

vi

English

Important Safety Information

Important Safety Information

Product Safety and RF Exposure Compliance



Caution

Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet 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.motorola.com/governmentandenterprise

vii

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+2TM 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.

English

Getting Started

Take a moment to review the following:

How to Use This Guide	page 1
What Your Dealer/System Administrator Can Tell You .	page 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, two icons are used to differentiate Analog mode and Digital mode only features:



Indicates an Analog Mode only feature.



Indicates a Digital Mode only feature.

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

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 pa	age 2
Attaching the Battery	age 2
Attaching the Antenna pa	age 3
Attaching the Belt Clip pa	age 3
Attaching the Universal Connector Cover	age 3
Powering Up the Radio pa	age 4
Adjusting the Volume pa	age 4

Charging the Battery

Your radio is powered by a Nickel Metal-Hydride (NiMH) or Lithium-lon (Li-lon) 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 the IMPRES charger. Using a conventional charger causes irrecoverable loss of IMPRES battery data. As a result, the battery functions as a non-IMPRES battery and cannot display the data on your radio. Additionally, it voids your IMPRES battery warranty, although the standard battery warranty still applies.

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. Make sure you turn off the radio and remove the universal connector cover first.



If antenna needs to be replaced, ensure that only MOTOTRBO antennas are used. Neglecting this will damage your radio. See Antennas on page 52 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. Then slide the clip upward and away from the radio.

Attaching the Universal Connector Cover

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



Cover

Place the universal connector cover loop over the attached antenna. Slide it all the way down to the base of the antenna.

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.

Powering Up the Radio

Rotate the On/Off/Volume Control Knob clockwise until you hear a click. You see Powering Up on the radio's display.

The LED blinks 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 49).

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 Radio Tones/Alerts On or Off* on page 48).

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.



English

Identifying Radio Controls

Identifying Radio Controls

Take a moment to review the following:

Radio Controls You Will Be Using	page 5
Programmable Buttons	page 6
Accessing the Preprogrammed Functions	page 7
Using the Keypad	page 8
Push-To-Talk (PTT) Button	page 9
Switching Between Analog and Digital Mode	page 9

Radio Controls You Will Be Using



1	Channel Selector Knob
2	On/Off/Volume Control Knob
3	LED Indicator
4	Side Button 1*
5	Push-to-Talk (PTT) Button
6	Side Button 2*
7	Side Button 3*
8	Front Button P1*
9	Microphone
10	Speaker
1	Front Button P2*
12	Keypad
13	Menu Navigation Keys
14	Universal Connector for Accessories
15	Display
16	Emergency Button*
17	Antenna
	* These buttons are programmable.

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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:

- Press Pressing and releasing rapidly.
- Long press Pressing and holding for the preprogrammed • duration (between 0.25 seconds and 3.75 seconds).
- Hold down Keeping the button pressed.

Assignable Radio Functions

Contacts – Provides direct access to the Contacts list.

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



Manual Dial — Initiates a call by keying in any subscriber

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 Call <u> Oirectly initiates a predefined Private or</u> Group Call, a Call Alert or a Quick Text message.

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

Radio Check 🕕 – Determines if a radio is active in a system.

Radio Enable 💷 - Allows a target radio to be remotely enabled.

Radio Disable (1) – Allows a target radio to be remotely disabled.

Remote Monitor \square – 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.

Telemetry Control (III) – Controls the Output Pin on a local or remote radio.

Text Messaging (III) – Selects the Text Message menu.

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 – Toggles display backlight 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.

Accessing the Preprogrammed 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 Menu Navigation Buttons as follows:
- 1 To access the menu, press the <u>→</u> button. Press the appropriate **Menu Scroll** button (or ►) 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 \int_{back} 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.

					Num	ber of Ti	mes Key	is Press	ed				
Key	1	2	3	4	5	6	7	8	9	10	11	12	13
1,?	1		,	?	!	@	&	í	%	-	:	*	#
2 abc	A	В	С	2									
3 def	D	Е	F	3									
4 ghi	G	Н	I	4									
5 jkl	J	К	L	5									
6 mno	М	Ν	0	6									
7pqrs	Р	Q	R	S	7								
8tuv	Т	U	V	8									
9 wxyz	W	Х	Y	Z	9								
O CAPS	0	NOTE: F	Press to en	ter "0" and	long press	s to activat	e the CAPS	6 lock. And	other long p	press to tur	n off the C	APS lock.	
* DEL	* or del	NOTE: F	Press durin	g text entr	y to delete	the charac	ter. Press	during num	neric entry	to enter a '	·*"		
#	# or space	NOTE: F	Press durin	g text entr	y to insert a	a space. P	ress during	numeric e	entry to ent	er 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 16).
 - If the Talk Permit Tone is enabled (see **Turning the Talk Permit Tone On or Off** on page 49), wait until the short alert tone ends before talking.

Switching Between Analog and Digital Mode

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

Channel Selector – Knob



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 25).

Identifying Status Indicators

Your radio indicates its operational status through the following:

Display Icons	page 10
Call Icons	page 11
LED Indicator	page 11
Audio Tones	page 12

Display Icons

The full dot matrix, black and white, liquid crystal display (LCD) of your radio shows radio status, text entries, and menu entries.



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



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.



Power Level

Radio is set at Low power.

Radio is set at High power.



Emergency

Radio is in Emergency mode.



or

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Monitor

Selected channel is being monitored.

Battery



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

Blinks when the battery is low.

Scan



Scan feature is activated.

Priority Scan



Radio detects activity on channel/group designated as Priority 1 (if • is blinking) or Priority 2 (if • is steady).

Talkaround



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



Unread Message 向

User has unread message(s) in the Inbox.



Inbox Full 间 User's Inbox is full.



Tones Disable

Tones are turned off.

GPS Available 🕕



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



GPS Not Available/Out of Range 🙃

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

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).

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

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

Solid green - Radio is transmitting.

Blinking green – Radio is powering up or receiving a call.



Audio Tones

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

 $\label{eq:continuous} \textbf{Continuous Tone} \ \ A \ monotone \ sound. \ Sounds$



continuously until termination.



Sounds periodically depending on the duration set by the radio. Tone starts, stops, and repeats itself.



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.

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 Zone	page 12
Selecting a Radio Channel, Subscriber ID,	
or Group ID	page 13
Receiving and Responding to a Radio Call	page 13
Making a Radio Call	page 16
Talkaround	page 18
Monitoring Features	page 19

Selecting a Zone

A zone is a group of channels. Your radio supports up to a maximum of 50 zones.

Use the following procedure to select a zone.

Procedure:

Press the preprogrammed Zone button and proceed to step 3. **OR**

Follow the procedure below.

- to access the menu.
- 2 \triangleleft or \blacktriangleright to Zone and press \bigcirc to select.
- 3 The current zone is displayed and indicated by a ✓.
- 4 \blacktriangleleft or \blacktriangleright to the required zone and press \frown to select.
- 5 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 preprogrammed Channel Selector Knob to select the channel, subscriber alias or ID, or group alias or ID.



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.



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):

- 1 The LED blinks green.
- 2 The first line of the display shows the caller alias, and the RSSI icon. The second line displays the group alias and the Group Call icon (in Digital mode only).
- 3 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- Press the PTT button to respond to the call. The LED lights up solid green.
- 5 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- 6 Release the PTT button to listen.
- 7 If there is no voice activity for a predetermined period of time, the call ends.

See **Making a Group Call** on page 16 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 $\int \frac{1}{1000}$ button to go to the Home screen to view the caller alias before replying.

Receiving and Responding to a Private Call

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

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 lights up solid yellow momentarily. Only one of these call types can be programmed to your radio by your dealer.

Procedure:

When you receive a Private Call:

 Depending on how your radio is programmed: The LED lights up solid yellow momentarily. Then, the LED blinks green.

OR

The LED blinks green.

- 2 The first line of the display shows the subscriber alias or ID, and the RSSI icon. The second line displays Private Call and the Private Call icon.
- 3 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 4 Press the PTT button to respond to the call. The LED lights up solid green.
- 5 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- 6 Release the **PTT** button to listen.
- 7 If there is no voice activity for a predetermined period of time, the call ends.
- 8 You hear a short tone. The display shows Call Ended.

See **Making a Private Call** on page 17 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.
- 2 The first line of the display shows the caller alias, and the RSSI icon. The second line displays All Call and the All Call icon.
- 3 Once the All Call ends, the radio returns to the previous screen before receiving the call.

You cannot respond to an All Call.

See **Making an All Call** on page 17 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 preprogrammed button functions until the call ends.

Making a Radio Call

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

- The Channel Selector Knob
- A preprogrammed One Touch Call button
- The Contacts list (see Contacts Settings on page 27)
- 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 28)
- Making a Voice 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:

1 Turn the Channel Selector Knob to select the channel with the active 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 group alias or ID, and the Group Call icon.
- 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. You see the Group Call icon, the group alias or ID, and transmitting radio alias or ID on your display.
- 6 If there is no voice activity for a predetermined period of time, the call ends.
- 7 Radio returns to the previous screen you were on prior to receiving the call.

You can also make a Group Call via Contacts (see **Making a Group Call from Contacts** on page 27).

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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 first line displays the subscriber alias or ID. The second line displays Private Call and the Private Call icon.
- 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 there is no voice activity for a predetermined period of time, the call ends.
- 7 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 28) or perform a quick alphanumeric search for the required alias via a keypad entry (see **Making a Private Call by Alias Search** on page 28).

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:

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

Users on the channel cannot respond to an All Call.

Making a Group or Private Call with the One Touch Call Button

The One Touch Call 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.

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

Procedure:

- 1 Press the preprogrammed **One Touch Call** 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 display shows the group/subscriber alias or ID, and the Group/Private Call icon.
- 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 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 receiving the call.

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

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".

Procedure:

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

OR

1

Follow the procedure below.

- io access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Utilities and press \frown to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press \frown to select.
- 4 \blacktriangleleft or \blacktriangleright to Talkaround and press \bigcirc to select.
- 5 You see Turn On if the radio is currently in Repeater mode. OR

You see Turn Off if the radio is currently in Talkaround mode.

- 6 Press or to select.
- 7 The display shows Talkaround On. OR The display shows Talkaround Off.
- 8 The screen automatically returns to the previous menu.

The Talkaround setting is retained even after powering down.

Monitoring Features

Monitoring a Channel

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

Procedure:

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

Permanent Monitor

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

Procedure:

- 1 Press the preprogrammed **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 display.
- **3** Press the preprogrammed **Permanent Monitor** button to exit Permanent Monitor mode.
- 4 Radio sounds an alert tone, the LED turns off, and display shows Permanent Monitor Off.

Advanced Features

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

Radio Check page 20
Remote Monitor page 21
Scan Lists
Scan page 25
Contacts Settings page 27
Call Indicator Settings page 29
Call Log Features page 31
Call Alert Operation page 33
Emergency Operation
Text Messaging Features page 39
Security page 44
Utilities page 46

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:

Using the preprogrammed Radio Check button.

- Press the preprogrammed **Radio Check** button
- 3 The display shows Radio Check: <Subscriber Alias or ID>, indicating that Radio Check is in progress. The LED lights up solid green.
- 4 Wait for acknowledgement.
- 5 If the target radio is active in the system, a tone sounds and the display briefly shows Target Radio Available. OR

If the target radio is not active in the system, a tone sounds and the display briefly shows Target Radio Not Available.

6 Radio returns to the subscriber alias or ID screen.

OR

Procedure:

Using the menu.

ito access the menu.

 \blacksquare or \blacktriangleright to Contacts and press \odot to select.

3 or ► to the required subscriber alias or ID and press

 In to select.

OR

✓ or ► to Manual Dial and press \bigcirc to select. If there was previously dialed ID, the ID appears along with a blinking cursor. Use the keypad to edit the ID. Press \bigcirc to select.

OR

 \blacktriangleleft or \blacktriangleright to Manual Dial and press R to select. Key in the subscriber alias or ID and press R.

- 5 The display shows Radio Check: <Subscriber Alias or ID>, indicating that Radio Check is in progress. The LED lights up solid green.
- 6 Wait for acknowledgement.
- 7 If the target radio is active in the system, a tone sounds and the display briefly shows Target Radio Available. OR

If the target radio is not active in the system, a tone sounds and the display briefly shows Target Radio Not Available.

8 Radio returns to the subscriber alias or ID screen.

If the $\int_{\text{these}}^{\text{these}}$ 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

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:

Using the preprogrammed Remote Monitor button.

- 1 Press the preprogrammed **Remote Monitor** button.
- 2 or to the required subscriber alias or ID and press
 (or) to select.
- 3 Radio sounds an alert tone and the LED blinks green.
- 4 Wait for acknowledgment.
- 5 The display shows Remote Monitor Successful. OR The display shows Remote Monitor Failed.

6 If successful:

The radio starts receiving audio from the monitored radio for a preprogrammed duration.

Once the timer expires, the radio sounds an alert tone and the LED turns off. The display shows ${\tt Remote\ Monitor\ Ended}.$

OR

If unsuccessful:

The radio repeats the attempt until the preprogrammed number of tries expires.

OR

2

3

Procedure:

Using the menu.

in access the menu.

- \blacktriangleleft or \blacktriangleright to Contacts and press to select.
- \triangleleft or \blacktriangleright to the required subscriber alias or ID and press $(\overline{o_k})$ to select.

OR

✓ or ► to Manual Dial and press ildese to select. If there was previously dialed ID, the ID appears along with a blinking cursor. Use the keypad to edit the ID. Press ildese to select.

OR

✓ or ► to Manual Dial and press to select. Key in the subscriber alias or ID and press for to select.

- 5 Radio sounds an alert tone and the LED blinks green.
- 6 Wait for acknowledgment.
- 7 The display shows Remote Monitor Successful. OR

The display shows Remote Monitor Failed.

8 If successful:

The radio starts receiving audio from the monitored radio for a preprogrammed duration.

Once the timer expires, the radio sounds an alert tone and the LED turns off. The display shows Remote Monitor Ended.

OR

If unsuccessful:

The radio repeats the attempt until the preprogrammed number of tries expires.

English

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 32 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 (A) channels by editing a scan list.

Viewing an Entry in the Scan List

Procedure:

- 1 multiple to access the menu.
- 2 \triangleleft or \blacktriangleright to Scan and press \bigcirc to select.
- 3 ◀ or ► to View/Edit List and press 🛶 to select.
- 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.

Editing the Scan List

www_ to access the menu.
✓ or ► to Scan and press
✓ or ► to View/Edit List and press imes to select.
\blacktriangleleft or \blacktriangleright to Rdd Member and press $$ to select.
\blacktriangleleft or \blacktriangleright to the required alias or ID and press $$ to select
or between to the required priority level (Priority 1 or Priority 2)
is ONLY applicable when in Analog mode) and press or to select.
is ONLY applicable when in Analog mode) and press $$ to select. The display shows Entry Saved, followed immediately by Add Another?.

Deleting an Entry from the Scan List

Procedure:

- to access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Scan and press \odot to select.
- 3 ◀ or ▶ to View/Edit List and press 🕞 to select.

OR

- 7 Repeat steps 4 to 6 to delete other entries.
- After deleting all required aliases or IDs, long press $fill \int deleting$ to return to the Home screen.

Setting and Editing Priority for an Entry in the Scan List (

Procedure:

- to access the menu.
- 2 \triangleleft or \blacktriangleright to Scan and press \bigcirc to select.
- 3 ◀ or ► to View/Edit List and press 🕞 to select.
- 5 \blacktriangleleft or \blacktriangleright to Edit Priority? and press \odot to select.
- or ► to the required priority level (Priority 1 or Priority 2 is ONLY applicable when in Analog mode) and press or select.
- 7 The display shows Entry Saved before returning to the previous screen.
- 8 The priority icon appears left of the member's name.

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

Engli

Scan

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

The LED blinks yellow and you see the scan icon on the display.

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.

Starting and Stopping Scan

Procedure:

Press the preprogrammed $\ensuremath{\textbf{Scan}}$ button to start or stop Scan. $\ensuremath{\textbf{OR}}$

Follow the procedure below.

- 1 Use the Channel Selector Knob to select a channel preprogrammed with a scan list.
- $2 \quad \text{int} to access the menu.$
- 3 \blacktriangleleft or \blacktriangleright to Scan and press \frown to select.
- 4 The display shows Turn On if scan is disabled. OR The display shows Turn Off if scan is enabled.

5 Press or to select.

6 The LED blinks yellow and the scan icon is displayed when Scan is enabled.

OR

The LED turns off and the scan icon is not displayed when Scan is disabled.

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 preprogrammed 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.
- 2 Press the **PTT** button during hang time. The LED lights up solid green.
- 3 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- 4 Release the **PTT** button to listen.
- 5 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:

- When your radio "locks on to" an unwanted or nuisance channel, press the preprogrammed **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 preprogrammed **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:

- Power the radio off and then powering it on again, OR
- Stop and restart a scan via the preprogrammed **Scan** button or menu, **OR**
- Change the channel via the Channel Selector Knob.

26

English
Contacts Settings

Contacts provides "address-book" capabilities on your portable. Each entry corresponds to an alias or ID that you use to initiate a call.

Additionally, 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 further details.

Your radio supports two Contacts lists, one for Analog contacts (with a maximum of 128 members) and one for Digital contacts (with a maximum of 256 members).

Each entry within Contacts displays the following information:

- Call Type
- Call Alias
- Call ID
- **NOTE:** You can add, delete, or edit subscriber IDs for the Digital Contacts list.

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

Making a Group Call from Contacts

Procedure:

- 1 $\boxed{1}$ 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. The display shows the group alias or ID, and the Group Call icon.
- 6 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- 7 Release the PTT button to listen. When 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.
- 8 If there is no voice activity for a preprogrammed period of time, the call ends.

🗍 Making a Private Call from Contacts 间

Procedure:

- 1 $\overline{}$ to access the menu.
- 2 or to Contacts and press w to select. The entries are alphabetically sorted.
- 3 → or ▶ to the required subscriber alias or ID.
 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.

- 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 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) and speak clearly into the microphone.

- 7 Release the PTT button to listen. When the target radio responds, the LED blinks green and the display shows the transmitting user's ID.
- 8 If there is no voice activity for a preprogrammed period of time, the call ends.
- 9 You hear a short tone. The display shows Call Ended.

Making a Private 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.
- 3 Key in the first character of the alias.
- 4 or to the required alias.
- 5 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.

- 6 Press the **PTT** button to make the call. The LED lights up solid green. The first line displays the target radio's ID. The second line displays Private Call and the Private Call icon.
- 7 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- 8 Release the **PTT** button to listen. When the target radio responds, the LED blinks green.
- 9 If there is no voice activity for a preprogrammed period of time, the call ends.
- **10** You hear a short tone. The display shows Call Ended.
- **NOTE:** 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 Party Not Available on the display.

The radio returns to the menu prior to initiating the radio presence check.

Call Indicator Settings

Activating and Deactivating Call Ringers for Private Calls

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

Procedure:

- 1 multiple to access the menu.
- 2 \triangleleft or \blacktriangleright to Utilities and press \bowtie to select.
- 3 \triangleleft or \blacktriangleright to Radio Settings and press \bigcirc to select.
- 4 \triangleleft or \blacktriangleright to Tones/Alerts and press \bigcirc to select.
- 5 \blacktriangleleft or \blacktriangleright to Call Ringers and press \frown to select.
- 6 \blacktriangleleft or \blacktriangleright to Private Call and press \bigcirc to select.
- 7 The display shows Turn On. Press (iv) to enable Call Ringers for Private Calls. The display shows Private Call Ringer On.

OR

The display shows Turn Off. Press $_{\rm OK}$ to disable Call Ringers for Private Calls. The display shows <code>Private Call</code> Ringer Off.

Activating and Deactivating Call Ringers for Text

Messaging 🕕

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

Procedure:

- 1 in access the menu.
- 2 \triangleleft or \blacktriangleright to Utilities and press \bigcirc to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press to select.
- 4 \triangleleft or \blacktriangleright to Tones/Alerts and press \odot to select.
- 5 \blacktriangleleft or \blacktriangleright to Call Ringers and press $\overleftarrow{}$ to select.
- The current tone is indicated by a \checkmark .
- d or ► to the preferred tone and press \odot to select. The display shows Tone <Number> Selected and a ✓ appears left of the selected tone.

OR

6

8

✓ or ► to Turn Off and press to select. The display shows Text Message Ringer Off and a appears left of Turn Off.

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:

- to access the menu.
- 2 or ▶ to Contacts and press ok to select. The entries are alphabetically sorted.
- 3 ◀ or ► to the required alias or ID and press to select.
- 4 \blacktriangleleft or \blacktriangleright to Ring Style and press \bowtie to select.
- 5 A ✓ indicates the current selected tone.
- 6 \blacktriangleleft or \blacktriangleright to the required tone and press to select.
- The display shows Contact Saved.

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

30

English

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 m to access the menu.
- 2 \triangleleft or \blacktriangleright to Utilities and press \bigcirc to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press to select.

- 6 The display shows Turn On. Press (c) to enable Escalert. The display shows Escalert On. OR

The display shows Turn Off. Press () to disable Escalert. The display shows Escalert Off.

🔳 Call Log Features 📵

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

You can perform the following tasks in each of your call lists:

- Store ID to Contacts
- Delete

Viewing Recent Calls

The lists are Missed, Answered, and Outgoing.

Procedure:

- 1 is access the menu.
- 2 \triangleleft or \blacktriangleright to Call Log and press \bigcirc_{κ} to select.
- 3 \blacktriangleleft or \blacktriangleright to preferred list and press \frown to select.
- 4 The display shows the most recent entry at the top of the list.
- 5 \blacktriangleleft or \blacktriangleright to view the list.

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

Missed Call Screen

Whenever a call is missed, your radio displays a missed call message. Select View? to view it immediately or View Later? to view at a later time.

NOTE: The radio exits the Missed Call screen and sets up a Private Call if you press the **PTT** button while viewing a missed call number.

Procedure:

- The display shows Missed Calls, along with the number of calls missed and View?.
- Press is to view the missed call ID. The missed call log list appears on display.

Press \bigcirc to store or delete the entry. **OR**

 \blacktriangleleft or \blacktriangleright to Uiew Later? and press ok to select. You return to the Home screen.

Storing an Alias or ID from the Missed Call List

Procedure:

menul to access the menu.

- 2 \triangleleft or \blacktriangleright to Call Log and press \bigcirc to select.
- 3 ◀ or ► to Missed and press 🐼 to select.
- 4 or to the required missed call alias or ID and press
 ork to select.
- 6 A blinking cursor appears. If needed, key in the alias for that ID and press ok.
- 7 The display shows Contact Saved.

You can also store an ID without an alias.

32

English

Deleting a Call from a Call List

Procedure:

- to access the menu.
- 2 \triangleleft or \blacktriangleright to Call Log and press \bigcirc to select.
- 3 \blacktriangleleft or \blacktriangleright to the required list and press \bowtie to select.
- 5 \blacktriangleleft or \blacktriangleright to Delete Entry? and press \odot to select.
- 7 The display shows Entry Deleted.

The display shows *List Empty* when you select a call list and it contains no entries.

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 Acknowledging a Call Alert

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

Procedure:

- 1 You hear a repetitive tone. The LED blinks yellow.
- 2 Press and release the PTT button to acknowledge the alert. OR

Press or to exit the Call Alert.

Making a Call Alert from the Contacts List

Procedure:

- to access the menu.
- 3 or to the required subscriber alias or ID and press
 ork to select.
 - OR

4

✓ or ► to Manual Dial and press \bigcirc to select. A blinking cursor appears. Enter the subscriber ID you want to page and press \bigcirc .

- \blacktriangleleft or \blacktriangleright to Call Alert and press \odot to select.
- 5 The display shows Call Alert: (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.
- If the Call Alert acknowledgement is received, a tone sounds and the display shows Call Alert Successful. **OR**

If the Call Alert acknowledgement is not received, a tone sounds and the display shows Call Alert Failed.

Making a Call Alert with the One Touch Call Button

Procedure:

- Press the preprogrammed **One Touch Call** button to make a Call Alert to the predefined alias or ID.
- 2 The display shows Call Alert: (Subscriber Alias or ID), indicating that the Call Alert has been sent.
- 3 The LED lights up solid green when your radio is sending the Call Alert.
- 4 If the Call Alert acknowledgement is received, a tone sounds and the display shows Call Alert Successful. OR

If the Call Alert acknowledgement is not received, a tone sounds and the display shows Call Alert Failed.

34

English

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 radio supports 3 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.

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

Receiving an Emergency Alarm

Procedure:

- 1 When receiving an Emergency Alarm, the display shows the Emergency icon, the number of alarms received, and Alarm Roud, which alternates with the alias or ID of the sender.
- 2 A tone sounds and the LED blinks red.
- 3 If enabled, your radio automatically acknowledges the Emergency Alarm.

When your radio receives an Emergency Alarm, it displays the Emergency Alarm received indications until acknowledgement is sent 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.

NOTE: Short press *freek*, then long press the preprogrammed **Emergency** button to clear the Emergency Alarm received indications and exit Emergency mode.

Responding to an Emergency Alarm

Procedure:

When receiving an Emergency Alarm:

- 1 Press any button to stop all Emergency Alarm received indications.
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 3 Press PTT button to initiate a call with the emergency initiating radio. 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.
- 5 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 Once your call ends, short press ∫ (m), then long press the preprogrammed **Emergency** button to clear the Emergency Call received indications and exit Emergency mode.
- 7 The radio returns to the Home screen.

Sending an Emergency Alarm

This feature allows you to send an Emergency Alarm, a nonvoice signal, which triggers an alert indication on another radio.

Procedure:

- Press the preprogrammed **Emergency** button.
- 2 The display shows Sending Alarm, which alternates with your radio ID. The LED lights up solid green and the Emergency icon appears on the Home screen display.
- 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.

Sending an Emergency Alarm with Call

This feature allows you send an Emergency Alarm to another radio. Upon acknowledgement, both radios can communicate over a preprogrammed Emergency channel.

Procedure:

- 1 Press the preprogrammed **Emergency** button.
- 2 The display shows Sending Alarm, 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.
- 4 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 5 Press PTT button to make the call. The LED lights up solid green and the group icon appears on the display.
- 6 Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.
- 7 Long press the preprogrammed Emergency button to exit the Emergency mode.
- 8 The radio returns to the Home screen.

Sending an Emergency Alarm with Voice to Follow 🕕

This feature allows you to send an Emergency Alarm to another radio. Upon acknowledgement, your radio's microphone is automatically activated, allowing you to communicate with the other radio without pressing the **PTT**.

This activated microphone state is also known as "hot mic".

If you press the **PTT** button during the preprogrammed 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 preprogrammed **Emergency** button.
- 2 The display shows Sending Alarm. The LED lights up solid green and the Emergency icon is displayed.
- 3 Once the display shows Emergency Alarm Successful, 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 on the display.
- 5 Once the hot mic duration expires, the radio automatically stops transmitting. To transmit again, press the **PTT** button.

If the Emergency Alarm request fails, the radio returns to the Home screen.

Reinitiating an Emergency Mode

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 preprogrammed **Emergency** button during an Emergency initiation/transmission state. This causes the radio to exit this state, and to reinitiate Emergency.

Exiting Emergency Mode

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

- Emergency Alarm acknowledgement is received (for Emergency Alarm only), OR
- All retries to send the alarm have been exhausted, OR
- The preprogrammed **Emergency** button is long pressed (not applicable for **Emergency Alarm with Voice to Follow**).
- **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.

Text Messaging Features 🕕

NOTE: Press \int_{back}^{e} at any time to return to the previous screen or long press \int_{back}^{e} to return to the Home screen.

Writing and Sending a Text Message

The maximum length of characters for a text message is 140.

Procedure:

Press the preprogrammed **Text Messaging** button and proceed to step 3.

OR

Follow the procedure below.

- 1 multiple to access the menu.
- 2 ◀ or ► to Messages and press wo to select.

4 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.

- 5 Press is once message is composed.
- 6 < or ► to the required subscriber alias or ID and press
 (a) to select.
 OR

✓ or ► to Manual Dial and press \odot to select. Key in the subscriber ID and press \odot .

- 7 The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
- 8 If the message is sent, a tone sounds and the display shows Message Sent.

OR

If the message is not sent, the display shows ${\tt Message Sent}$ Failed.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows *Message Rok Roud.*

OR

If the target radio fails to receive the Quick Text message, a tone sounds and the display shows Message Rck Failed.

Sending a Quick Text Message

Your radio supports a maximum of ten (10) Quick Text messages as programmed by your dealer.

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

Maximum length of characters for a text message is 140.

Procedure:

Press the preprogrammed **Text Messaging** button and proceed to step 3.

OR

Follow the procedure below.

- 1 minutes to access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Messages and press \odot to select.
- 3 \blacktriangleleft or \blacktriangleright to Quick Text and press to select.

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 the required subscriber alias or ID and press
 is to select.

OR

- ✓ or ► to Manual Dial and press → to select. Key in the subscriber alias or ID and press →.
- 8 The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
- 9 If the message is sent successfully, a tone sounds and the display shows Message Sent. OR

If the message cannot be sent, the display shows ${\tt Message}$ Sent Failed.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows *Message Rck Rcvd*.

OR

If the target radio fails to receive the Quick Text message, a tone sounds and the display shows Message Ack Failed.

NOTE: You will not be able to save the modified predefined messages.

- Sending a Quick Text Message with the One Touch Call Button
- 1 Press the preprogrammed **One Touch Call** button to send a predefined Quick Text message to a predefined alias or ID.
- 2 The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
- 3 If the message is sent successfully, a tone sounds and the display shows Message Sent.

OR

If the message cannot be sent, the display shows Message Sent Failed.

Receiving a Text Message

When receiving a message, the display shows the alias or ID of the sender and the message icon at the far left of the screen.

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 if the **PTT** button is pressed when the radio is displaying the alert screen.

Reading a Text Message

Procedure:

- Image of the read and press is to select.
- 2 Selected message in the Inbox opens.
- Press
 I to return to the Inbox.

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

Selecting *Read Later* returns you to the screen you were on prior to receiving the text message. Selecting *Delete* deletes the text message.

Managing 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
- Save
- Delete
- Delete All

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

NOTE: Press $\int_{\text{back}}^{\text{m}}$ at any time to return to the previous screen or long press $\int_{\text{back}}^{\text{m}}$ to return to the Home screen.

Viewing a Text Message from the Inbox

Procedure:

- to access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Messages and press \odot to select.
- 3 \blacktriangleleft or \blacktriangleright to Inbox and press \bowtie to select.
- 5 Press is to select the current message, and press is again to reply, forward, save, or delete that message. OR

Long press $\int \frac{1}{\text{back}}$ to return to the Home screen.

Replying to a Text Message from the Inbox

Procedure:

Press the preprogrammed **Text Messaging** button and proceed to step 3.

OR

Follow the procedure below.

- to access the menu.

- 4 \triangleleft or \blacktriangleright to the required message and press \bigcirc to select.
- 5 Press is once more to access the sub-menu.
- ✓ or ► to Write and press in to select.
 A blinking cursor appears. Use the keypad to write your message.

OR

✓ or ► to Quick Text and press imes to select. A blinking cursor appears. Use the keypad to edit your message, if required.

- 8 Press is composed.
- 9 The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
- 10 If the message is sent successfully, a tone sounds and the display shows Message Sent.

OR

If the message cannot be sent, the display shows Message Sent Failed.

Only applicable when sending to subscriber aliases or IDs:

If the target radio successfully receives the Quick Text message, a tone sounds and the display shows *Message Rck Rcvd*.

OR

If the target radio fails to receive the Quick Text message, a tone sounds and the display shows Message Rck Failed.

Deleting a Text Message from the Inbox

Procedure:

Press the preprogrammed **Text Messaging** button and proceed to step 3.

OR

Follow the procedure below.

- \square to access the menu.
- 2 or to Messages and press os to select.
- 3 \blacktriangleleft or \blacktriangleright to Inbox and press \odot to select.
- 5 Press is once more to access the sub-menu.

- 8 The display shows Message Deleted.
- 9 The screen returns to the Inbox.

Deleting All Text Messages from the Inbox

Procedure:

Press the preprogrammed **Text Messaging** button and proceed to step 3.

OR

Follow the procedure below.

- 1 multiple to access the menu.
- 3 ◀ or ► to Inbox and press ilde{w} to select.
- 4 \triangleleft or \blacktriangleright to Delete All and press \odot to select.
- 6 The display shows Inbox Cleared.

The display shows *List* Empty when you select the Inbox and it contains no text messages.

Security

You can enable or disable any radio in the system. For example, you might want to disable a stolen radio, to prevent the thief from using it, and enable that radio, when it is recovered.

NOTE: Performing Radio Disable and Enable is limited to radios with these functions enabled.

Radio Disable

Procedure:

Using the preprogrammed Radio Disable button.

- Press the preprogrammed **Radio Disable** button.
- 3 The display shows Radio Disable: <Subscriber Alias or ID> and the LED lights up solid green.
- 4 Wait for acknowledgment.
- 5 If successful, a tone sounds and the display shows Radio Disable Successful.

OR

If not successful, a tone sounds and the display shows Radio Disable Failed.

OR

Procedure:

Using the menu.

- 1 mu to access the menu.
- 3 or to the required alias or ID and press w to select. OR

✓ or ► to Manual Dial and press → to select.

Key in the subscriber alias or ID and press \odot .

- 4 or ▶ to Radio Disable and press to select. The LED blinks green.
- 5 The display shows Radio Disable: <Subscriber Alias or ID> and the LED lights up solid green.
- 6 Wait for acknowledgment.
- 7 If successful, a tone sounds and the display shows Radio Disable Successful.

OR

If not successful, a tone sounds and the display shows Radio Disable Failed.

Do not press <u>fin</u> during the Radio Disable operation as you will not get an acknowledgement message.

Radio Enable

Procedure:

Using the preprogrammed Radio Enable button.

- Press the preprogrammed **Radio Enable** button.
- 3 The display shows The display shows Radio Enable: <Subscriber Alias or ID> and the LED lights up solid green.
- 4 Wait for acknowledgment.
- 5 If successful, a tone sounds and the display shows Radio Enable Successful.

OR

If not successful, a tone sounds and the display shows Radio Enable Failed.

OR

Procedure:

Using the menu.

1 in access the menu.

2 or to Contacts and press to select. The entries are alphabetically sorted.

✓ or ► to Manual Dial and press \bigcirc to select.
Key in the subscriber alias or ID and press \bigcirc .

- 4 or ► to Radio Enable and press ok to select. The LED blinks green.
- 5 The display shows Radio Enable: <Subscriber Alias or ID> and the LED lights up solid green.
- 6 Wait for acknowledgment.
- 7 If successful, a tone sounds and the display shows Radio Enable Successful.

OR

If not successful, a tone sounds and the display shows Radio Enable Failed.

Do not press $\int_{\text{back}}^{\infty}$ during the Radio Enable operation as you will not get an acknowledgement message.

Utilities

Locking and Unlocking the Keypad

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

Procedure:

[_____ to access the menu.

- 3 \blacktriangleleft or \blacktriangleright until Radio Settings and press \odot to select.
- 5 The display shows Keypad Locked and returns to the Home screen.
- 6 To unlock the keypad, press mini followed by *.
- 7 The display shows Keypad Unlocked and returns to the Home screen.

Turning Keypad Tones On or Off

You can enable and disable keypad tones if needed.

Procedure:

in access the menu.

English

- 2 \triangleleft or \blacktriangleright to Utilities and press \bigcirc to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press \odot to select.
- 4 \blacktriangleleft or \blacktriangleright to Tones/Alerts and press \frown to select.
- 6 The display shows Turn On. Press or to enable keypad tones. The display shows Keypad Tone On. OR

The display shows Turn Off. Press (a) to disable keypad tones. The display shows Keypad Tone Off.

🗍 Setting the Squelch Level 🌘

You can adjust your radio's squelch level to filter out unwanted calls with low signal strength or channels that have a higher than normal background noise.

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 preprogrammed **Squelch** button to toggle squelch level between normal and tight.

OR

Follow the procedure below.

menu. to access the menu.

- 2 \blacktriangleleft or \blacktriangleright to Utilities and press \frown to select.
- 4 \triangleleft or \blacktriangleright to Squelch and press \bigcirc to select.
- 5 Choose either Tight or Normal and press 🕟 to select.
- 6 Screen returns to the previous menu.

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. Low enables communication with radios in closer proximity.

Procedure:

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

OR

Follow the procedure below.

- 1 mu to access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Utilities and press \frown to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press to select.
- I a or ► to Power and press → to select.

- 5 Change your current setting as prompted on the display.
- 6 Press or to select a new power level.
- 7 Screen returns to the previous menu.

Long press $\int_{\text{back}}^{\text{m}}$ to return to the Home screen. The power level icon is visible.

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 preprogrammed **Backlight** button to toggle the backlight settings.

OR

Follow the procedure below.

- 1 multiple to access the menu.
- 2 \triangleleft or \blacktriangleright to Utilities and press \bigcirc to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press \odot to select.
- 4 \blacktriangleleft or \blacktriangleright to Backlight and press \frown to select.

5 The display shows Auto On. Press or to enable the display backlight. The display shows Backlight Auto On. OR

The display shows Turn Off. Press is to disable the display backlight. The display shows Backlight Turn Off.

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 49).

Turning 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 preprogrammed **All Tones/Alerts** button to toggle all tones on or off.

OR

Follow the procedure below.

in access the menu.

- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press \frown to select.

- 6 The display shows Turn On. Press int to enable all tones and alerts. The display shows All Tones On. OR

The display shows Turn Off. Press or to disable all tones and alerts. The display shows All Tones Off.

🗍 Turning the Talk Permit Tone On or Off 间

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

Procedure:

- to access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Utilities and press to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press to select.

- 6 The display shows Turn On. Press or to enable the Talk Permit Tone. The display shows Talk Permit Tone On. OR

The display shows Turn Off. Press or to disable the Talk Permit Tone. The display shows Talk Permit Tone Off.

Turning the LED Indicator On or Off

You can enable and disable the LED Indicator if needed.

Procedure:

- 1 mu to access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Utilities and press to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press \oiint to select.
- 5 The display shows Turn On. Press or to enable the LED Indicator. The display shows All LEDs On. OR

The display shows Turn Off. Press is to disable the LED Indicator. The display shows All LEDs Off.

The display backlight, buttons, and keypad backlighting are automatically turned off if the LED indicator is disabled (see **Controlling the Display Backlight** on page 48).

Turning the Introduction Screen On or Off

You can enable and disable the Introduction Screen if needed.

Procedure:

- 1 multiple to access the menu.
- 2 \triangleleft or \blacktriangleright to Utilities and press \bigcirc to select.
- 3 \blacktriangleleft or \blacktriangleright to Radio Settings and press \frown to select.
- 5 The display shows Turn On. Press is to enable the Introduction Screen. The display shows Intro Screen On. OR

The display shows Turn Off. Press is to disable the Introduction Screen. The display shows Intro Screen Off.

Accessing General Radio Information

Your radio contains information on the following:

- Battery
- Radio ID
- Software Version
- Codeplug Version
- **NOTE**: Press $\int_{\text{back}}^{\text{mass}}$ at any time to return to the previous screen or long press $\int_{\text{back}}^{\text{mass}}$ to return to the Home screen.

Accessing the Battery Information

Displays information on your radio battery.

Procedure:

- to access the menu.
- 3 🛛 ◄ Or ▶ until Radio Info and press 🕞 to select.
- 4 \blacktriangleleft or \blacktriangleright until Battery Info and press \odot to select.
- 5 The battery type is displayed.

For IMPRES batteries ONLY:

✓ or ► to Capacity to view battery capacity level, indicated by a horizontal bar and percentage reading.

OR

 \triangleleft or \blacktriangleright to First Use to view the date of initial use. OR

✓ or ► to End of Life to view if the battery is still usable. If the battery has reached its end of life, the display shows Replace Battery

Checking the Radio ID

Displays the ID of your radio.

Procedure:

- 1 multiple to access the menu.
- 2 \triangleleft or \blacktriangleright to Utilities and press \bigcirc to select.
- 4 \triangleleft or \blacktriangleright to My Number and press \bigcirc to select.
- 5 The radio ID is displayed.

Checking the Firmware Version

Displays the firmware version on your radio.

Procedure:

- 1 $\overline{}$ to access the menu.
- 2 \blacktriangleleft or \blacktriangleright to Utilities and press \odot to select.

- 5 The current firmware version is displayed.

Checking the Codeplug Version

Displays the codeplug version on your radio.

Procedure:

- 1 in access the menu.
- 2 \triangleleft or \blacktriangleright to Utilities and press \bigcirc to select.

- 5 The current codeplug version is displayed.

Accessories

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

Antennasp	bage 52
Batteries p	bage 52
Carry Devices p	bage 52
Chargers	bage 53
Earbuds and Earpieces p	bage 53
Headsets and Headset Accessories	bage 53
Remote Speaker Microphones p	bage 53
Surveillance Accessories p	bage 54
Miscellaneous Accessories p	bage 54

Antennas

- Combination GPS/UHF 403 433 MHz Folded Monopole Antenna (PMAE4018_)
- Combination GPS/UHF 403 433 MHz Stubby Antenna (PMAE4021_)
- UHF 403 470 MHz Whip Antenna (PMAE4022_)
- Combination GPS/UHF 430 470 MHz Stubby Antenna (PMAE4023_)
- Combination GPS/UHF 430 470 MHz Folded Monopole Antenna (PMAE4024_)

Batteries

- NiMH, 1300 mAh Submersible (IP57) Battery (PMNN4065_)
- IMPRES Li-Ion, 1500 mAh Submersible (IP57) Battery (PMNN4066_)
- IMPRES Li-Ion, 1400 mAh Submersible (IP57) Battery, Intrinsically Safe (FM) (PMNN4069_)

Carry Devices

- 2-inch Belt Clip (PMLN4651_)
- 2.5-inch Belt Clip (PMLN4652_)
- Nylon Carry Case with 3-inch Fixed Belt Loop for Display Radio (PMLN5015_)
- Hard Leather Carry Case with 2.5-inch Swivel Belt Loop for Display Radio (PMLN5019_)
- Hard Leather Carry Case with 3-inch Swivel Belt Loop for Display Radio (PMLN5020_)
- Hard Leather Carry Case with 3-inch Fixed Belt Loop for Display Radio (PMLN5021_)
- 2.5-inch Replacement Swivel Belt Loop (PMLN5022_)
- 3-inch Replacement Swivel Belt Loop (PMLN5023_)
- 1.75-inch Black Leather Belt (4200865599)

Chargers

- IMPRES Multi-Unit Charger (WPLN4212_)
- IMPRES Multi-Unit Charger with Displays (WPLN4219_)
- IMPRES Single-Unit Charger (WPLN4232_)

Earbuds and Earpieces

- Receive-Only Earbud (AARLN4885_)
- D-Shell Receive-Only Earpiece (PMLN4620_)
- Small Custom Earpiece for Surveillance Kits, Right Ear (RLN4760_)
- Medium Custom Earpiece for Surveillance Kits, Right Ear (RLN4761_)
- Large Custom Earpiece for Surveillance Kits, Right Ear (RLN4762_)
- Small Custom Earpiece for Surveillance Kits, Left Ear (RLN4763_)
- Medium Custom Earpiece for Surveillance Kits, Left Ear (RLN4764_)
- Large Custom Earpiece for Surveillance Kits, Left Ear (RLN4765_)
- Receive-Only Earpiece (RLN4941_)
- Standard Earpiece, Black (RLN6279_)

- Standard Earpiece, Beige (RLN6280_)
- Replacement Foam Ear Pad and Windscreen (RLN6283_)
- Earpiece with Acoustic Tube Assembly, Beige (RLN6284_)
- Earpiece with Acoustic Tube Assembly, Black (RLN6285_)
- Earpiece with High Noise Kit, Beige (RLN6288_)
- Earpiece with High Noise Kit, Black (RLN6289_)
- Over-the-Ear Receiver (For Use with PMMN4025_ and PMMN4024_) (WADN4190_)

Headsets and Headset Accessories

Lightweight Headset (RMN5058_)

Remote Speaker Microphones

- Remote Speaker Microphone (PMMN4024_)
- Remote Speaker Microphone with Enhanced Audio (PMMN4025_)
- Remote Speaker Microphone, Submersible (IP57) (PMMN4040_)
- Public Safety Microphone with Enhanced Audio, 30-inch Cable (PMMN4041_)

- Public Safety Microphone with Enhanced Audio, 24-inch Cable (PMMN4042_)
- Public Safety Microphone with Enhanced Audio, 18-inch Cable (PMMN4043_)
- Remote Speaker Microphone Replacement Coil Cord Kit (For Use with PMMN4024_ and PMMN4040_) (RLN6074_)
- Remote Speaker Microphone Replacement Coil Cord Kit (For Use with PMMN4025) (RLN6075_)

Surveillance Accessories

- Receive Only Surveillance Kit, Black (Single Wire) (RLN5878_)
- Receive Only Surveillance Kit, Beige (Single Wire) (RLN5879_)
- 2-Wire Surveillance with Enhanced Audio, Black (RLN5880_)
- 2-Wire Surveillance with Enhanced Audio, Beige (RLN5881_)
- 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Black with Enhanced Audio (RLN5882_)
- 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Beige with Enhanced Audio (RLN5883_)
- Surveillance Low Noise Kit (RLN5886_)
- Surveillance High Noise Kit (RLN5887_)

Miscellaneous Accessories

- Universal Chest Pack (HLN6602_)
- Waterproof Bag, Includes Large Carry Strap (HLN9985_)
- Shoulder Strap (Attaches to D-Rings on Carry Case) (NTN5243_)
- Small Clip, Epaulet Strap (RLN4295_)
- Break-A-Way Chest Pack (RLN4570_)
- Universal RadioPAK and Utility Case (Fanny Pack) (RLN4815_)
- Replacement Ear Tips, Clear, Pack of 25 (For Use with RLN5886_) (RLN6282_)
- Replacement Strap for RLN4570_ and HLN6602_ Chest Packs (1505596Z02)
- Accessory Dust Cover (1571477L01)
- Replacement Foam Plugs, Pack of 50 (For Use with RLN5887_) (5080384F72)
- Universal RadioPAK Extension Belt (4280384F89)

54

English

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 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 Portable Units	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 type acceptance 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.

MOTOROLA **XPR Series Portables Quick Reference Card**

Radio Controls



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



Channel Selector Knob



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3	LED Indicator	Menu Nav
4	Side Button 1 (Programmable) SP: LP:	
5	Push-to-Talk (PTT) Button	mer
6	Side Button 2 (Programmable) SP : LP :	В
7	Side Button 3 (Programmable)	A Left/Right
	Front Button P1 (Programmable)	B Menu But
8	SP: LP:	C OK Buttor
9	Microphone	D Back/Hon
10	Speaker	Display Ic
1	Front Button P2 (Programmable)	The following ar radio's display.
12	Keypad	The nur represe Four ba
13	Menu Navigation Keys	This ico receivin
14	Universal Connector for Accessories	Radio is
15	Display	🛕 Radio is
16	Emergency Button (Programmable) SP: LP:	Selecte
17	Antenna	

vigation Buttons 'back

- Navigation Keys tton n
 - ne Button

ons

re the icons that appear on the

mber of bars displayed ents the radio signal strength. ars indicates the strongest signal. on is only displayed while ıg.

s currently set at Low Power (L) Power (H).

s in Emergency mode.

d channel is being monitored.



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D

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

-Ζ

Scan feature is activated.

Radio recognizes activity on the channel/group designated as Priority 1

(if ● is blinking) or as Priority 2 (if ● is steady).

Radio is bypassing repeater and communicating directly with another radio.



Unread message in the Inbox.



User's Inbox is full. 🖲



Tones are set off.



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.

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.



ΠI

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.

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.

Adjusting the Volume

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

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 Call Alert.

Solid green – Radio is transmitting.

Blinking green – Radio is powering up or receiving a call.

Selecting a Zone

Press the preprogrammed **Zone** button and proceed to step 3.

OR

Follow the procedure below.

to access the menu.

- or b to Zone and press or to select.
- 3 The current zone is displayed and indicated by a ✓.
- ✓ or ► to the required zone and press
 to select.
- 5 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.

Making a Group Call

Press the preprogrammed **One Touch Call** button and proceed to step 2.

OR

Follow the procedure below.

- 1 Turn the Channel Selector Knob to select the channel with the active group alias or ID. OR
 - $\underline{\ }$ to access the menu.
 - ✓ or ► to Contacts. Press (→) to select.
 - \blacktriangleleft or \blacktriangleright to the alias or ID you want to call and press \bigcirc to select.

English

- 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 group alias or ID, and the Group Call icon.
- 4 Wait for the Talk Permit Tone to finish (if enabled). Speak clearly into the microphone.
- 5 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.
- 6 If there is no voice activity for a preprogrammed period of time, the call ends.

📕 Making a Private Call 🖲

Press the preprogrammed **One Touch Call** button and proceed to step 2.

OR

Follow the procedure below.

- 1 Turn the Channel Selector Knob to select the channel with the active subscriber alias or ID. OR
 - \fboxsc{meru} to access the menu.
 - ✓ or ► to Contacts. Press (to select.)
 - \blacktriangleleft or \blacktriangleright to the ID you want to call and press \bigcirc to select.
- 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.
- 4 Wait for the Talk Permit Tone to finish (if enabled). Speak clearly into the microphone.
- 5 Release the PTT button to listen. When the target radio responds, the LED blinks green.
- 6 If there is no voice activity for a preprogrammed period of time, the call ends.
- 7 You hear a short tone. The display shows Call Ended.

Making an All Call

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

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

5 If there is no voice activity for a preprogrammed 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

Press the preprogrammed **Scan** button to turn scan on or off.

OR

Follow the procedure below.

- $\boxed{}$ to access the menu.
- 3 You see Scan On or Scan Off depending on previous selection.

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

Sending a Call Alert

Press the preprogrammed **One Touch Call** button and proceed to step 5.

OR

Follow the procedure below.

- $\overline{}$ to access the menu.
- 2 ◀ or ► to Contacts. Press 🛶 to select.

- 3 or to the required subscriber alias or ID and press (ink) to select.
- ✓ or ► to Call Alert and press (to select.
- The display shows Call Alert: <Subscriber Alias or ID>. The LED lights up solid green.
- If the Call Alert acknowledgement is received, 6 a tone sounds. Display shows Call Alert Successful.

OR

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

Sending a Quick Text Message

Press the preprogrammed Text Messaging button and proceed to step 3. OR

Press the preprogrammed One Touch Call button to send a predefined Quick Text message to a predefined alias or ID and proceed to step 6. OR

Follow the procedure below.

- $\boxed{}$ to access the menu.
- ✓ or ► to Messages. Press to select.
- 3 ✓ or ► to Quick Text and press (to select.

- or both to the required Quick Text and press (ink) to select.
- ✓ or ► to the required alias or ID and press \bigcirc to select.
- The display shows Text Message: <Group/ 6 Subscriber Alias or ID>
- If the message is sent successfully, a tone sounds. Display shows Message Sent. OR

If the message cannot be sent, the display shows Message Sent Failed.

Replying to a Text Message with Quick Text from the Inbox 💷

Press the preprogrammed Text Messaging button and proceed to step 3. OR

Follow the procedure below.

The second secon

- ✓ or ► to Messages. Press (to select.
- or b to Inbox. Press a to select.
- or between to the required message and press (ink) to select.
- Press (inc) once more to access the sub-5 menu.
- 6 \blacktriangleleft or \blacktriangleright to Reply and press \bigcirc to select.

- ✓ or ► to Quick Text and press → to select.
- 8 Press \bigcirc once more to send the reply.
- The display shows Text Message: <Group/ 9 Subscriber Alias or ID>.
- 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 Sent Failed.

Sending an Emergency Alarm

- Press the preprogrammed **Emergency** button.
- The display shows Sending Alarm, which alternates with your radio ID. The LED lights up solid green and the Emergency icon appears on the Home screen display.
- When an Emergency Alarm acknowledgment is received, the Emergency tone sounds and the LED blinks green. The display shows Emergencu 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.

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


Motorola, Inc. 1301 E. Algonquin Rd. Schaumburg, IL 60196-1078, U.S.A.

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