

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.

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

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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>

Computer Software Copyrights

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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.

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

■ Charging the Battery

Your radio is powered by a Nickel Metal-Hydride (NiMH) or Lithium-Ion (Li-Ion) battery. To avoid damage and comply with warranty terms, charge the battery using a Motorola charger *exactly* as described in the charger user guide.

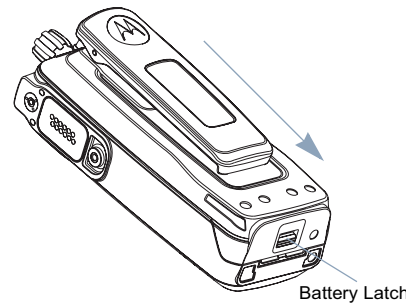
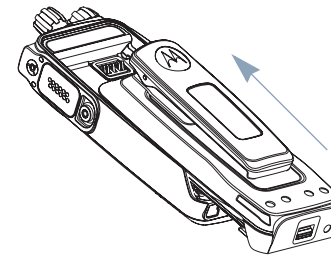
Charge a new battery 14 to 16 hours before initial use for best performance.

IMPORTANT: **ALWAYS** charge your IMPRES battery with 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.

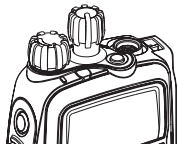


To remove the battery, turn the radio off. Move the battery latch into unlock position and hold, and slide the battery down and off the rails.

■ Attaching the Antenna



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



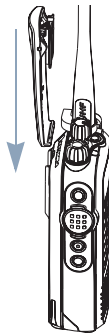
To remove the antenna, turn the antenna counterclockwise. Make sure you turn off the radio and remove the universal connector cover first.



Caution

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



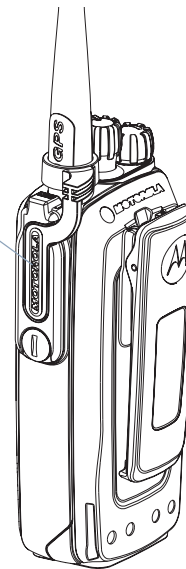
Align the grooves on the clip with those on the battery and press downward until you hear a click.

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.

Universal Connector 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.

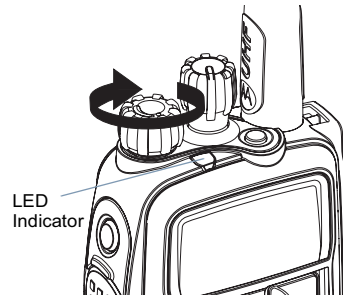
Turn the thumbscrew clockwise to secure the connector cover to the radio.

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).

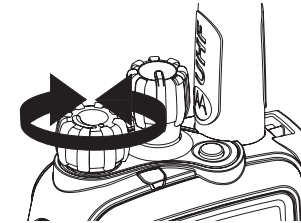
If your radio does not power up, check your battery. Make sure that it is charged and properly attached. If your radio still does not power up, contact your dealer.

*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.

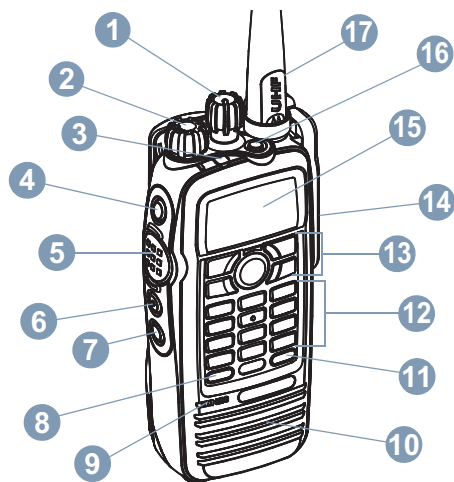


Identifying Radio Controls

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
- 11 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.

■ 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 ID.

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 📞 – Directly initiates a predefined Private or 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 📞 – Allows a target radio to be remotely disabled.

Remote Monitor 📞 – Turns on the microphone of a target radio without it giving any indicators.

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

Scan – Toggles scan on or off.

Telemetry Control 📞 – Controls the Output Pin on a local or remote radio.

Text Messaging 📞 – 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  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  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.

Key	Number of Times Key is Pressed												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1 ,/?	1	.	,	?	!	@	&	'	%	-	:	*	#
2 abc	A	B	C	2									
3 def	D	E	F	3									
4 ghi	G	H	I	4									
5 jkl	J	K	L	5									
6 mno	M	N	O	6									
7 pqrs	P	Q	R	S	7								
8 tuv	T	U	V	8									
9 wxyz	W	X	Y	Z	9								
0 CAPS	0	NOTE: Press to enter "0" and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.											
* DEL	* or del	NOTE: Press during text entry to delete the character. Press during numeric entry to enter a "**".											
# —	# or space	NOTE: Press during text entry to insert a space. Press during numeric entry to enter a "#".											

■ Push-To-Talk (PTT) Button


The **PTT** button on the side of the radio serves two basic purposes:

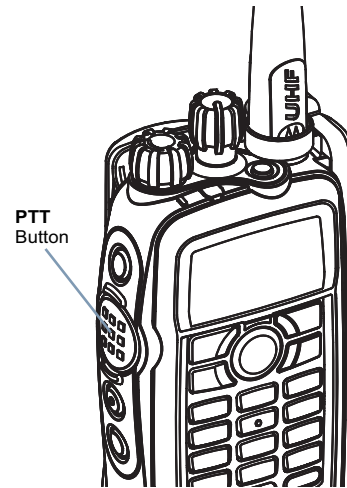
- While a call is in progress, the **PTT** button allows the radio to transmit to other radios in the call.

Press and hold down **PTT** button to talk. Release the **PTT** button to listen.

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

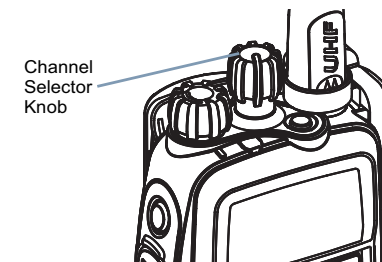
- While a call is not in progress, the **PTT** button is used to make a new call (see **Making a Radio Call** on page 16).

 *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.



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.
- 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**
 - User has unread message(s) in the Inbox.




Inbox Full 
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.

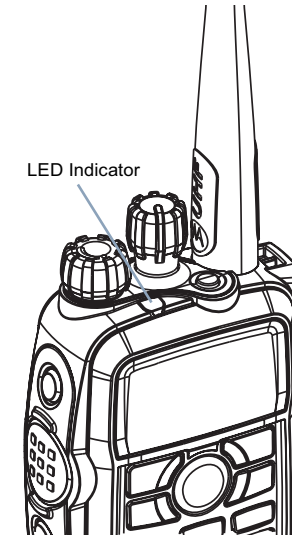
Blinking red – Radio is transmitting at low battery condition, receiving an emergency transmission or has failed the self-test upon powering up.

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.

- Continuous Tone**  A monotone sound. Sounds continuously until termination.

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

- Repetitive Tone**  A single tone that repeats itself until it is terminated by the user.

- Momentary Tone**  Sounds only once for a short period of time defined by the radio.

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.

- 1  to access the menu.

- 2 ◀ or ▶ to Zone and press  to select.

- 3 The current zone is displayed and indicated by a ✓.

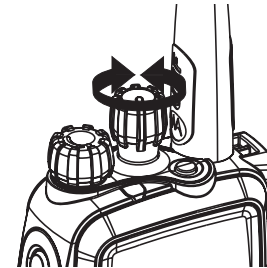
- 4 ◀ or ▶ to the required zone and press  to select.

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

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

Procedure:

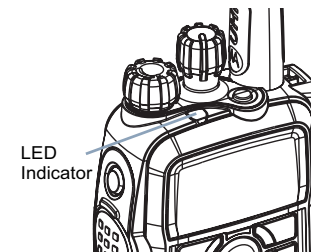
Once the required zone is displayed (if you have multiple zones in your radio), turn the preprogrammed Channel Selector Knob to select the channel, subscriber alias or ID, or group alias or ID.



■ 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.

- 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.

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  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:

- 1 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).*

Making a Private Call

Procedure:

- 1 Turn the Channel Selector Knob to select the channel with the active subscriber alias or ID.
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 3 Press the **PTT** button to make the call. The LED lights up solid green. The 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:

- 1 Turn the Channel Selector Knob to select the channel with the active All Call group alias or ID.
- 2 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 3 Press the **PTT** button to make the call. The LED lights up solid green. The 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

Follow the procedure below.

- 1  to access the menu.
- 2  or  to Utilities and press  to select.
- 3  or  to Radio Settings and press  to select.
- 4  or  to Talkaround and press  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  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	page 23
Scan	page 25
Contacts Settings	page 27
Call Indicator Settings	page 29
Call Log Features	page 31
Call Alert Operation	page 33
Emergency Operation	page 35
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.







- 1 Press the preprogrammed **Radio Check** button
- 2 ◀ or ▶ to the required subscriber alias or ID and press  to select.
- 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.

- 1  to access the menu.
- 2 ◀ or ▶ to **Contacts** and press  to select.

- 3 ◀ or ▶ to the required subscriber alias or ID and press  to select.
OR
 ◀ or ▶ to Manual Dial and press  to select.
 If there was previously dialed ID, the ID appears along with a blinking cursor. Use the keypad to edit the ID. Press  to select.
OR
 ◀ or ▶ to Manual Dial and press  to select. Key in the subscriber alias or ID and press .
-
- 4 ◀ or ▶ to Radio Check and press  to select.
-
- 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  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  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 `Remote Monitor Ended`.
- OR**
If unsuccessful:
The radio repeats the attempt until the preprogrammed number of tries expires.
-


OR

Procedure:

Using the menu.

- 1  to access the menu.
-
- 2 ◀ or ▶ to `Contacts` and press  to select.
-
- 3 ◀ or ▶ to the required subscriber alias or ID and press  to select.
- OR**
◀ or ▶ to `Manual Dial` and press  to select.
If there was previously dialed ID, the ID appears along with a blinking cursor. Use the keypad to edit the ID. Press  to select.
- OR**


◀ or ▶ to `Manual Dial` and press  to select. Key in the subscriber alias or ID and press  to select.

- 4 ◀ or ▶ to `Remote Mon.` and press  to select.
-
- 5 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.
-

■ 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  channels by editing a scan list.

Viewing an Entry in the Scan List


Procedure:

- 1  to access the menu.

- 2 ◀ or ▶ to Scan and press  to select.

- 3 ◀ or ▶ to View/Edit List and press  to select.

- 4 Use ◀ or ▶ to view each member on the list.


 *The priority icon appears left of the member's alias, if set, to indicate whether the member is on a Priority 1 or Priority 2 channel list. You **cannot** have multiple Priority 1 or Priority 2 channels in a scan list.*


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


Editing the Scan List


Adding a New Entry to the Scan List


Procedure:


- 1  to access the menu.

 - 2 ◀ or ▶ to Scan and press  to select.



 - 3 ◀ or ▶ to View/Edit List and press  to select.

 - 4 ◀ or ▶ to Add Member and press  to select.

 - 5 ◀ or ▶ to the required alias or ID and press  to select.


 - 6 ◀ or ▶ to the required priority level (Priority 1 or Priority 2 is **ONLY** applicable when in Analog mode) and press  to select.


 - 7 The display shows Entry Saved, followed immediately by Add Another?.


 - 8 ◀ or ▶ to Yes and press  to select, to add another entry, and repeat steps 5 and 6.
- OR**
- ◀ or ▶ to No and press  to select to save the current list.


Deleting an Entry from the Scan List


Procedure:



- 1  to access the menu.

- 2 ◀ or ▶ to Scan and press  to select.


- 3 ◀ or ▶ to View/Edit List and press  to select.

- 4 ◀ or ▶ to the required alias or ID and press  to select.

- 5 ◀ or ▶ to Delete? and press  to select.


- 6 At Delete Entry?, ◀ or ▶ to Yes and press  to select, to delete the entry. The display shows Entry Deleted.
OR
◀ or ▶ to No and press  to select to return to the previous screen.


- 7 Repeat steps 4 to 6 to delete other entries.


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


Setting and Editing Priority for an Entry in the Scan List


Procedure:


- 1  to access the menu.

- 2 ◀ or ▶ to Scan and press  to select.

- 3 ◀ or ▶ to View/Edit List and press  to select.

- 4 ◀ or ▶ to the required alias or ID and press  to select.

- 5 ◀ or ▶ to Edit Priority? and press  to select.

- 6 ◀ or ▶ to the required priority level (Priority 1 or Priority 2 is **ONLY** applicable when in Analog mode) and press  to 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**.

■ 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 **Scan** button to start or stop Scan.

OR

Follow the procedure below.

- 1 Use the Channel Selector Knob to select a channel preprogrammed with a scan list.
- 2  to access the menu.
- 3  or  to Scan and press  to select.
- 4 The display shows Turn On if scan is disabled.
OR
The display shows Turn Off if scan is enabled.
- 5 Press  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:

- 1 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.

■ 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  to access the menu.
- 2 ◀ or ▶ to **Contacts** and press  to select. The entries are alphabetically sorted.
- 3 ◀ or ▶ to the required group alias or ID.
- 4 Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth.
- 5 Press the **PTT** button to make the call. The LED lights up solid green. The display shows the 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

Procedure:

- 1  to access the menu.

- 2  or  to **Contacts** and press  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.

- 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 first line displays the subscriber alias or ID. The second line displays **Private Call** and the Private 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 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:

- 1  to access the menu.

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

- 3 Key in the first character of the 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  to access the menu.
- 2  or  to `Utilities` and press  to select.
- 3  or  to `Radio Settings` and press  to select.
- 4  or  to `Tones/Alerts` and press  to select.
- 5  or  to `Call Ringers` and press  to select.
- 6  or  to `Private Call` and press  to select.
- 7 The display shows `Turn On`. Press  to enable Call Ringers for Private Calls. The display shows `Private Call Ringer On`.
OR
The display shows `Turn Off`. Press  to disable Call Ringers for Private Calls. The display shows `Private Call 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  to access the menu.

 - 2 ◀ or ▶ to Utilities and press  to select.



 - 3 ◀ or ▶ to Radio Settings and press  to select.

 - 4 ◀ or ▶ to Tones/Alerts and press  to select.

 - 5 ◀ or ▶ to Call Ringers and press  to select.

 - 6 ◀ or ▶ to Text Message and press  to select.


 - 7 The current tone is indicated by a ✓.


 - 8 ◀ or ▶ to the preferred tone and press  to select. The display shows Tone <Number> Selected and a ✓ appears left of the selected tone.
- OR**
- ◀ 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:


- 1  to access the menu.

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

- 3 ◀ or ▶ to the required alias or ID and press  to select.

- 4 ◀ or ▶ to Ring Style and press  to select.

- 5 A ✓ indicates the current selected tone.

- 6 ◀ or ▶ to the required tone and press  to select.


- 7 The display shows Contact Saved.


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


Escalating Alarm Tone Volume


You can program your radio to continually alert you when a radio call remains unanswered. This is done by automatically increasing the alarm tone volume over time. This feature is known as Escalert.


Procedure:



- 1  to access the menu.

- 2 ◀ or ▶ to Utilities and press  to select.

- 3 ◀ or ▶ to Radio Settings and press  to select.

- 4 ◀ or ▶ to Tones/Alerts and press  to select.

- 5 ◀ or ▶ to Escalert and press  to select.

- 6 The display shows Turn On. Press  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  to access the menu.

- 2 ◀ or ▶ to Call Log and press  to select.

- 3 ◀ or ▶ to preferred list and press  to select.

- 4 The display shows the most recent entry at the top of the list.

- 5 ◀ or ▶ 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:

- 1 The display shows *Missed Calls*, along with the number of calls missed and *View?*.
- 2 Press  to view the missed call ID. The missed call log list appears on display.
Press  to store or delete the entry.
OR
◀ or ▶ to *View Later?* and press  to select. You return to the Home screen.

Storing an Alias or ID from the Missed Call List


Procedure:


- 1  to access the menu.
- 2 ◀ or ▶ to *Call Log* and press  to select.
- 3 ◀ or ▶ to *Missed* and press  to select.
- 4 ◀ or ▶ to the required missed call alias or ID and press  to select.
- 5 ◀ or ▶ to *Store?* and press  to select.
- 6 A blinking cursor appears. If needed, key in the alias for that ID and press .
- 7 The display shows *Contact Saved*.


You can also store an ID without an alias.


Deleting a Call from a Call List


Procedure:


- 1  to access the menu.

- 2 ◀ or ▶ to Call Log and press  to select.

- 3 ◀ or ▶ to the required list and press  to select.

- 4 ◀ or ▶ to the required alias or ID and press  to select.

- 5 ◀ or ▶ to Delete Entry? and press  to select.

- 6 ◀ or ▶ to Yes and press  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  to exit the Call Alert.

 **Making a Call Alert from the Contacts List****Procedure:**

- 1  to access the menu.

- 2 ◀ or ▶ to **Contacts** and press  to select.

- 3 ◀ or ▶ to the required subscriber alias or ID and press  to select.
OR
◀ or ▶ to **Manual Dial** and press  to select.
A blinking cursor appears. Enter the subscriber ID you want to page and press .

- 4 ◀ or ▶ to **Call Alert** and press  to select.

- 5 The display shows **Call Alert: <Subscriber Alias or ID>**, indicating that the Call Alert has been sent.

- 6 The LED lights up solid green when your radio is sending the Call Alert.

- 7 If the Call Alert acknowledgement is received, 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:**

- 1 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**.

■ 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 Rcvd**, 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 , 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 , 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 non-voice signal, which triggers an alert indication on another radio.

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`.
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.