PROFESSIONAL DIGITAL TWO-WAY RADIO

MOTOTRBO™

XPR™ 7350/XPR 7380/XPR 7350e/XPR 7380e
NON-DISPLAY PORTABLE

USER GUIDE

NOVEMBER 2016

68009500001-GE

Declaration of Conformity

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

Declaration of Conformity
Per FCC CFR 47 Part 2 Section 2.1077(a)

Responsible Party

Name: Motorola Solutions, Inc.

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

Phone Number: 1-800-927-2744

Hereby declares that the product:

Model Name: **XPR 7350/XPR 7380/XPR 7350e/XPR 7380e**

conforms to the following regulations:

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

Table continued…

Class B Digital Device

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

1 This device may not cause harmful interference, and

2 This device must accept any interference received, including interference that may cause undesired operation.

NOTICE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio or TV technician for help.

Send Feedback

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Important Safety Information

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

ATTENTION!

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

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

http://www.motorolasolutions.com

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

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

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

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Notice to Users (FCC and Industry Canada)

This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt RSS's per the following conditions:

- This device may not cause harmful interference.

- This device must accept any interference received, including interference that may cause undesired operation.

- Changes or modifications made to this device, not expressly approved by Motorola, could void the authority of the user to operate this equipment.

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Software Version

All the features described in the following sections are supported by the software version **R02.07.00.0000** or later.

Check with your dealer or system administrator for more information.

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European Union (EU) Waste of Electrical and Electronic Equipment (WEEE) directive

The European Union's WEEE directive requires that products sold into EU countries must have the crossed out trash bin label on the product (or the package in some cases).

As defined by the WEEE directive, this cross-out trash bin label means that customers and end-users in EU countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end-users in EU countries should contact their local equipment supplier representative or service centre for information about the waste collection system in their country.

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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.

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Handling Precautions

The MOTOTRBO Series Digital Portable radio meets IP67 specifications, allowing the radio to withstand adverse field conditions such as being submersed in water. This section describes some basic handling precautions.

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

- If the radio has been submersed in water, shake the radio well to remove any water that may be trapped inside the speaker grille and microphone port. Trapped water could cause decreased audio performance.

- If the radio's battery contact area has been exposed to water, clean and dry battery contacts on both the radio and the battery before attaching the battery to the radio. The residual water could short-circuit the radio.

- If the radio has been submersed in a corrosive substance (e.g. saltwater), rinse the radio and battery in fresh water then dry the radio and battery.

- To clean the exterior surfaces of the radio, use a diluted solution of mild dishwashing detergent and fresh water (i.e. one teaspoon of detergent to one gallon of water).

- Never poke the vent (hole) located on the radio chassis below the battery contact. This vent allows for pressure equalization in the radio. Doing so may create a leak path into the radio and the radio's submersibility may be lost.

- Never obstruct or cover the vent, even with a label.

- Ensure that no oily substances come in contact with the vent.

- The radio with antenna attached properly is designed to be submersible to a maximum depth of 1 meter (3.28 feet) and a maximum submersion time of 30 minutes. Exceeding either maximum limit or use without antenna may result in damage to the radio.

- When cleaning the radio, do not use a high pressure jet spray on the radio as this will exceed the 1 meter depth pressure and may cause water to leak into the radio.

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Introduction

This user guide covers the operation of the MOTOTRBO radios.

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

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

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

Icon Information

Throughout this publication, the icons described are used to indicate features supported in either the conventional analog or conventional digital mode.

Indicates a conventional **Analog Mode-Only** feature.

Indicates a conventional **Digital Mode-Only** feature.

For features that are available in **both** conventional analog and digital modes, both icons are **not** shown.

Conventional Analog and Digital Modes

Each channel in your radio can be configured as a conventional analog or conventional digital channel.

Certain features are unavailable when switching from digital to analog mode.

Your radio also has features available in both analog and digital modes. The minor differences in the way each feature works do **not** affect the performance of your radio.

NOTICE:
Your radio also switches between digital and analog modes during a dual mode scan. See for more information.

IP Site Connect

This feature allows your radio to extend conventional communication beyond the reach of a single site by connecting to different available sites by using an Internet Protocol (IP) network. This is a conventional multi-site mode.

When the radio moves out of range from one site and into the range of another, the radio connects to the repeater of the new site to send or receive calls or data transmissions. This is done either automatically or manually depending on your settings.

In an automatic site search, the radio scans through all available sites when the signal from the current site is weak or when the radio is unable to detect any signal from the current site. The radio then locks on to the repeater with the strongest Received Signal Strength Indicator (RSSI) value.

In a manual site search, the radio searches for the next site in the roam list that is currently in range but which may not have the strongest signal and locks on to the repeater.

NOTICE:
Each channel can only have either Scan or Roam enabled, not both at the same time.

Channels with this feature enabled can be added to a particular roam list. The radio searches the channels in the roam list during the automatic roam operation to locate the best site. A roam list supports a maximum of 16 channels, including the selected channel.

NOTICE:
You cannot manually add or delete an entry in the roam list. Check with your dealer or system administrator for more information.

Capacity Plus

Capacity Plus–Single-Site

Capacity Plus–Single-Site is a single-site trunking configuration of the MOTOTRBO radio system, which uses

a pool of channels to support hundreds of users and up to 254 Groups. This feature allows your radio to efficiently utilize the available number of programmed channels while in Repeater Mode.

You hear a negative indicator tone if you try to access a feature not applicable to Capacity Plus–Single-Site via a programmable button press.

Your radio also has features that are available in conventional digital mode, IP Site Connect, and Capacity Plus. However, the minor differences in the way each feature works does **not** affect the performance of your radio.

Check with your dealer or system administrator for more information on this configuration.

Capacity Plus–Multi-Site

Capacity Plus–Multi-Site is a multi-channel trunking configuration of the MOTOTRBO radio system, combining the best of both Capacity Plus and IP Site Connect configurations.

Capacity Plus–Multi-Site allows your radio to extend trunking communication beyond the reach of a single site, by connecting to different available sites which are connected via an Internet Protocol (IP) network. It also

provides an increase in capacity by efficiently utilizing the combined available number of programmed channels supported by each of the available sites.

When the radio moves out of range from one site and into the range of another, it connects to the new site's repeater to send or receive calls/data transmissions. Depending on your settings, this is done automatically or manually.

If the radio is set to do this automatically, it scans through all available sites when the signal from the current site is weak or when the radio is unable to detect any signal from the current site. It then locks on to the repeater with the strongest Received Signal Strength Indicator (RSSI) value.

In a manual site search, the radio searches for the next site in the roam list that is currently in range (but which may not have the strongest signal) and locks on to it.

Any channel with Capacity Plus–Multi-Site enabled can be added to a particular roam list. The radio searches these channels during the automatic roam operation to locate the best site.

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

Similar to Capacity Plus–Single Site, icons of features not applicable to Capacity Plus–Multi-Site are not available in the menu. You hear a negative indicator tone if you try to access a feature not applicable to Capacity Plus–Multi-Site via a programmable button press.

Basic Operations

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

Charging the Battery

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

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

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

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

Attaching the Battery

Follow the procedure to attach the battery to your radio.

> **NOTICE:**
>
> The certification of the radio is voided if you attach a UL battery to an FM approved radio or vice versa. Your radio can be preprogrammed via CPS to alert you if this battery mismatch occurs. Check with your dealer or system administrator to determine how your radio has been programmed.
>
> This battery mismatch alert feature is only applicable for IMPRES battery and Non-IMPRES battery with kit number programmed in Erasable Programmable Read Only Memory (EPROM).
>
> When the radio is attached with the wrong battery, a low pitched warning tone sounds, the LED lights up blinking red and the Voice Announcement/Text-to-Speech sounds Wrong Battery if the Voice Announcement/Text-to-Speech is loaded via CPS.

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

Send Feedback
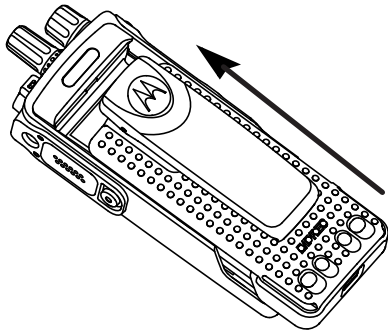
2 To remove the battery, turn the radio off. Move the battery latch marked **A** into unlock position and hold, and slide the battery down and off the rails.
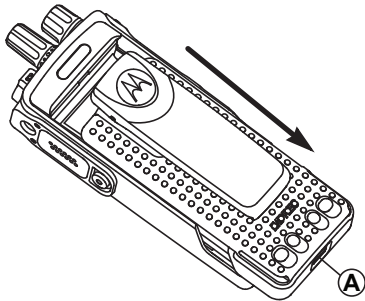
Attaching the Antenna

Follow the procedure to attach the antenna to your radio.

Ensure that the radio is turned off.

1 Set the antenna in its receptacle and turn clockwise.
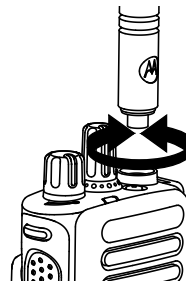
2 To remove the antenna, turn the antenna counterclockwise.

⚠ **CAUTION:**
If antenna needs to be replaced, ensure that only MOTOTRBO antennas are used. Neglecting this will damage your radio.

Attaching the Carry Holster

Follow the procedure to attach the carry holster to your radio.

1 Align the rails on the carry holster with the grooves on the battery.

2 Press downwards until you hear a click.
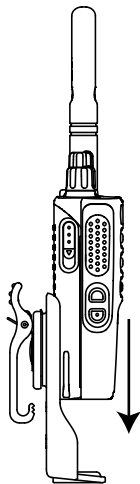
Attaching the Universal Connector Cover (Dust Cover)

The universal connector is located on the antenna side of the radio. It is used to connect MOTOTRBO accessories to the radio. Follow the procedure to attach the dust cover to your radio.

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

1 Insert the slanted end of the cover into the slots above the universal connector.

2 Press downwards on the cover to seat the dust cover properly on the universal connector.
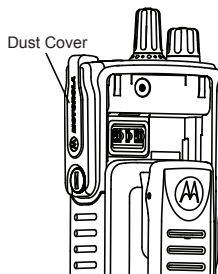
Dust Cover

3 Secure the connector cover to the radio by turning the thumbscrew clockwise.

Cleaning the Universal Connector Cover (Dust Cover)

If the radio is exposed to water, dry the universal connector before attaching an accessory or replacing the dust cover. If the radio is exposed to salt water or contaminants, perform the following cleaning procedure.

1 Mix one tablespoon of mild dishwashing detergent with one gallon of water to produce a 0.5 percent solution.

2 Clean only the external surfaces of the radio with the solution. Apply the solution sparingly with a stiff, nonmetallic, short-bristled brush.

3 Dry the radio thoroughly with a soft and lint-free cloth. Ensure the contact surface of the universal connector is clean and dry.

4 Apply Deoxit Gold Cleaner or Lubricant Pen (Manufacturer CAIG Labs, Part number G100P) on the contact surface of the universal connector.

5 Attach an accessory to the universal connector to test the connectivity.

> **NOTICE:**
> Do not submerge the radio in water. Ensure excess detergent does not get trapped in between the universal connector, controls, or crevices.

Clean the radio once a month for maintenance. For a harsher environment such as in petrochemical plants or in a high salt density marine environment, clean the radio more often.

Removing the Universal Connector Cover (Dust Cover)

Follow the procedure to remove the dust cover from your radio.

1 Push the latch downwards.

2 Lift the cover up and slide down the dust cover from the universal connector to remove it.

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

Powering Up the Radio

Follow the procedure to power up your radio.

Rotate the **On/Off/Volume Control Knob** clockwise until a click sounds.

- A tone sounds.
- The green LED lights up.

> **NOTICE:**
> There is no tone upon powering up if the Tones/Alerts function is disabled. See Turning Radio Tones/Alerts On or Off on page 81 for more information.

> **NOTICE:**
> During the initial power-up after a software version update to **R02.07.00.0000** or later, a GNSS firmware upgrade takes place for 20 seconds. After the upgrade, the radio resets and turns on. This firmware upgrade is only applicable for portable models with the latest software and hardware.

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

Turning Off the Radio

Follow the procedure to turn off your radio.

Rotate the **On/Off/Volume Control Knob** counterclockwise until a click sounds.

Adjusting the Volume

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

Do one of the following:

- Turn the **On/Off/Volume Control Knob** clockwise to increase the volume.

- Turn the **On/Off/Volume Control Knob** counterclockwise to decrease the volume.

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

Radio Controls

This chapter explains the buttons and functions to control the radio.
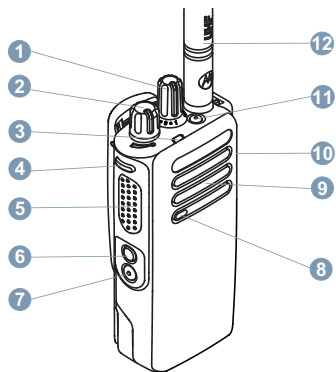
1 Channel Selector Knob

2 On/Off/Volume Control Knob

3 LED Indicator

4 Side Button 1[1]

5 Push-to-Talk (**PTT**) Button

6 Side Button 2[1]

7 Side Button 3[1]

8 Microphone

9 Speaker

10 Universal Connector for Accessories

11 Emergency Button[1]

12 Antenna

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[1] These buttons are programmable.

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Capacity Max Operations

Push-To-Talk (PTT) Button

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

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

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

If the Talk Permit Tone is enabled, wait until the short alert tone ends before talking.

Programmable Buttons

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

Short press
Pressing and releasing rapidly.

Long press
Pressing and holding for the programmed duration.

> 🖉 **NOTICE:**
> See Emergency Operation on page 148 for more information on the programmed duration of the *Emergency* button.

Assignable Radio Functions

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

Audio Toggle
Toggles audio routing between the internal radio speaker and the speaker of wired accessory.

Battery Strength
Indicates battery strength via the LED Indicator.

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

Bluetooth Connect
Initiates a Bluetooth find-and-connect operation.

Bluetooth Disconnect
Terminates all existing Bluetooth connections between your radio and any Bluetooth-enabled devices.

Bluetooth Discoverable
Enables your radio to enter Bluetooth Discoverable Mode.

Cancel
Allows users to end selected calls.

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

Intelligent Audio
Toggles intelligent audio on or off.

Manual Site Roam
Starts the manual site search.

Mic AGC
Toggles the internal microphone automatic gain control (AGC) on or off.

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

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

Phone Exit
Ends a Phone Call.

Privacy
Toggles privacy on or off.

Reset Home Channel
Sets a new home channel.

Silence Home Channel Reminder
Mutes the Home Channel Reminder.

Site Info
Plays site announcement voice messages for the current site when Voice Announcement is enabled.

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

Trill Enhancement
Toggles trill enhancement on or off.

Voice Announcement
Toggles voice announcement on or off.

Wi-Fi
Toggles Wi-Fi on or off.

Zone Toggle
Allows radio user to toggle between Zone 1 and Zone 2.

Assignable Settings or Utility Functions

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

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

Power Level
Toggles transmit power level between high and low.

Status Indicators

This chapter explains the status indicators and audio tones used in the radio.

LED Indicator

The LED indicator shows the operational status of your radio.

Blinking Red
Radio has failed the self-test upon powering up.

Radio is receiving or sending an emergency transmission.

Radio is transmitting in low battery state.

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

Mute Mode is enabled.

Solid Green
Radio is powering up.

Radio is transmitting.

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

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

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

Radio is detecting activity over the air.

> **NOTICE:**
> This activity may or may not affect the programmed channel of the radio due to the nature of the digital protocol.

Double Blinking Green
Radio is receiving a privacy-enabled call or data.

Solid Yellow

Radio is in Bluetooth Discoverable Mode.

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

Blinking Yellow

Radio is receiving a Call Alert.

Double Blinking Yellow

Radio has Auto Roaming enabled.

Radio is actively searching for a new site.

Radio has yet to respond to a Group Call Alert.

Radio is locked.

Radio is not connected to the system.

Tones

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

High Pitched Tone

Low Pitched Tone

Audio Tones

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

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
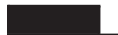
Sounds only once for a duration set by the radio.

Indicator Tones

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

Send Feedback

Positive Indicator Tone

Negative Indicator Tone

Registration

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

Registering

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

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

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

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

Out of Range

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

When a radio is out of range, a repetitive tone sounds and the red LED flashes.

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

Talkgroup Affiliation Failed

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

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

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

Register Denied

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

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

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

Zone and Channel Selections

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

The radio can be programmed with a maximum of 250 Capacity Max Zones with a maximum of 160 Channels per zone. Each Capacity Max zone contains a maximum of 16 assignable positions.

Selecting Zones

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

Press the programmed **Zone Toggle** button.

One of the following tone sounds:
Positive Indicator Tone
Radio is in Zone 2.

Negative Indicator Tone
Radio is in Zone 1.

Selecting a Call Type

Use the Channel Selector Knob to select a call type. This can be a Group Call, Broadcast Call, All Call, or Private Call, depending on how your radio is programmed. If you change the Channel Selector Knob to a different position (that has a call type assigned to it), this causes the radio to re-register with the Capacity Max System. The radio registers with the Talkgroup ID that has been programmed for the new Channel Selector Knob position call type.

Your radio does not operate when selected to an unprogrammed channel, use the Channel Selector Knob to select a programmed channel instead.

Send Feedback
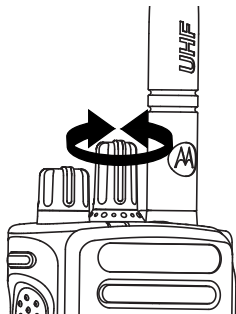
Once the required zone is set (if you have multiple zones in your radio), turn the programmed Channel Selector Knob to select the call type.

Selecting a Site

A site provides coverage for a specific area. In a multi-site network, the Capacity Max radio will automatically search for a new site when the signal level from the current site drops to an unacceptable level.

The Capacity Max system can support up to 250 sites.

Roam Request

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

If there are no sites available:

• The radio continues to search through the list of sites.

• The radio will return to the previous site, if the previous site is still available.

> **NOTICE:**
> This is programmed by your dealer.

Press the programmed **Manual Site Roam** button.

You hear a tone, indicating the radio has switched to a new site.

Site Lock On/Off

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

Press the programmed **Site Lock** button.

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

- You hear a positive indicator tone, indicating the radio has locked to the current site.

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

- You hear a negative indicator tone, indicating the radio is unlocked.

Site Restriction

In Capacity Max system, your radio administrator has the ability to decide which network sites your radio is and is not allowed to use. The radio does not have to be reprogrammed to change the list of allowed and disallowed sites. If your radio attempts to register at a disallowed site, your radio receives indication that the site is denied. The radio then searches for a different network site.

When experiencing site restrictions, the yellow LED double flashes to indicate a site search.

Site Trunking

A site must be able to communicate with the Trunk Controller to be considered as System Trunking. If the site cannot communicate with the Trunk Controller in the system, a radio enters Site Trunking mode. While in Site

Trunking, the radio provides a periodic audible and visual indication to the user to inform the user of their limited functionality.

When a radio is in Site Trunking, a repetitive tone sounds.

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

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

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

Calls

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

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

Programmed One Touch Access Button

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

📝 **NOTICE:**
You can only have one ID assigned to a **One Touch Access** button with a short or long programmable button press.

Programmable Button

This method is used for Phone Calls only.

Group Calls

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

Making Group Calls

Follow the procedure to make Group Calls on your radio.

1 Do one of the following:

- Select a channel with the active group alias or ID. See Selecting a Call Type on page 46.

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

2 Press the **PTT** button to make the call.

The green LED lights up.

3 Do one of the following:

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

- Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled

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

The green LED lights up when the target radio responds.

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

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

The call initiator can press the programmed **Cancel** button to end a Group Call.

Responding to Group Calls

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

When you receive a Group Call:

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

1 Do one of the following:

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

The green LED lights up.

2 Do one of the following:

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

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

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

Broadcast Call

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

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

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

Making Broadcast Calls

Follow the procedure to make Broadcast Calls on your radio.

1 Do one of the following:

- Select a channel with the active group alias or ID. See Selecting a Call Type on page 46.

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

2 Press the **PTT** button to make the call.

   The green LED lights up.

3 Do one of the following:

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

- Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

   The call initiator can press the programmed **Cancel** button to end the Broadcast Call.

Receiving Broadcast Calls

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

When you receive a Broadcast Call:

- The green LED blinks.

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

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

Private Call

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

There are two ways to set up a Private Call.

- The first call type is called Off Air Call Set-Up (OACSU). OACSU sets up the call after performing a radio presence check and completes the call automatically.

- The second type is called Full Off Air Call Set-Up (FOACSU). FOACSU also sets up the call after

performing a radio presence check. However, FOACSU calls require user acknowledgement to complete the call and allows the user to either Accept or Decline the call.

The type of call is configured by the system administrator.

📝 **NOTICE:**
Both the call initiator and recipient are able to terminate an on-going Private Call by pressing the programmed **Cancel** button.

Making Private Calls

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

1   Do one of the following:

   - Select a channel with the active subscriber alias or ID. See .

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

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

3   Press the **PTT** button to make the call.

The green LED lights up.

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

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

The green LED lights up when the target radio responds.

6   The call ends when there is no voice activity for a predetermined period.You will hear a short tone.

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

Making a Private Call with a One Touch Call Button

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

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

1 Press the programmed **One Touch Call** button to make a Private Call to the pre-defined Private Call alias or ID.

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

3 Press the **PTT** button to make the call.

The LED lights up solid green.

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

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

When the target radio responds, the LED blinks green.

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

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

Responding to Private Calls

When you receive a Private Call:

• The green LED blinks.

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

NOTICE:
Depending on how your radio is configured, either Off Air Call Set-Up (OACSU) or Full Off Air Call Set-Up (FOACSU), responding to Private Calls may or may not require user acknowledgement.
For the OACSU configuration, your radio unmutes and the call connects automatically.

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

- To decline a Private Call, perform the following action:
  - Press the programmed **Cancel** button.
- To accept a Private Call, perform the following action:
  - Press the **PTT** button on any entry.
- The green LED lights up.
- Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- Release the **PTT** button to listen.

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

  NOTICE:
  Both the call initiator and recipient are able to terminate an on-going Private Call by pressing the programmed **Cancel** button.

All Calls

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

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

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

Making All Calls

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

1 Select a channel with the active All Call group alias or ID. See .

2 Press the **PTT** button to make the call.

The green LED lights up.

3 Do one of the following:

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

- Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

Users on the channel cannot respond to an All Call.

Receiving All Calls

When you receive an All Call:

- A tone sounds.

- The green LED blinks.

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

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

NOTICE:
The radio stops receiving the All Call if you switch to a different channel while receiving the call. You are not able to continue with any programmed button functions until the call ends during an All Call.

Phone Calls

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

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

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

Responding to Phone Calls as Group Calls

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

When you receive a Phone Call as a Group Call:

- The green LED blinks.

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

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

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

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

  You hear a short tone.

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

Responding to Phone Calls as All Calls

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

- The green LED blinks.

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

Responding to Phone Calls as Private Calls

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

When you receive a Phone Call as a Private Call:

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

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

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

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

  You hear a short tone.

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

Call Preemption

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

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

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

Voice Interrupt

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

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

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

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

Enabling Voice Interrupt

Follow the procedure to initiate Voice Interrupt on your radio.

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

1   To interrupt the transmission during an on-going call, press the **PTT** button.

The radio sounds a negative indicator tone until the **PTT** button is released.

2 Wait for acknowledgement.

If successful:

- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

3 Do one of the following:

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

Advanced Features

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

NOTICE:

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

Call Queue

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

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

If the call setup is successful, the following occur:

- The green LED blinks.
- If enabled, the Talk Permit Tone sounds.
- The radio user has up to 4 seconds to press the **PTT** button to begin voice transmission.

If the call setup is unsuccessful, the following occur:

- If enabled, the Reject Tone sounds.
- The call is terminated and the radio exits the call setup.

Send Feedback

Talkgroup Scan

This feature allows your radio to monitor and join calls for groups defined by a Receive Group List.

When scan is enabled, the scan icon appears on the status bar and the LED blinks yellow. Your radio unmutes to any member in its Receive Group List.

When scan is disabled, your radio does not receive transmission from any members of the Receive Group List, except for All Call and the selected Talkgroup.

NOTICE:
Talkgroup Scan can be cofigured via CPS. Check with your system administrator to determine how your radio has been programmed.

Turning Talkgroup Scan On or Off

Follow the procedure to turn Talkgroup Scan on or off on your radio.

Press the programmed **Scan** button.

If scan is enabled:

- The yellow LED blinks.

- A positive indicator tone sounds.

If scan is disabled:

- The LED turns off.

- A negative indicator tone sounds.

Receive Group List

Receive Group List is a feature that allows you to create and assign members on the talkgroup scan list.

This list is created when your radio is programmed and it determines which groups can be scanned. Your radio can support a maximum of 16 members in this list.

NOTICE:
Receive Group List is programmed by the system administrator. Check with your dealer or system administrator for more information.

Priority Monitor

The Priority Monitor feature allows the radio to automatically receive transmission from talkgroups with higher priority even when radio is in a talkgroup call.

Radio leaves lower priority talkgroup call for higher priority talkgroup call.

NOTICE:
This feature can only be accessed when Talkgroup Scan feature is enabled.

Priority Monitor feature applies only to members in the Receive Group List. There are two Priority Talkgroups: Priority 1 (P1) and Priority 2 (P2). P1 has higher priority than P2. In Capacity Max system, the radio receives transmission according to the priority order below:

1 Emergency Call for P1 Talkgroup

2 Emergency Call for P2 Talkgroup

3 Emergency Call for non-priority Talkgroups in the Receive Group List

4 All Call

5 P1 Talkgroup Call

6 P2 Talkgroup Call

7 Non-priority Talkgroups in the Receive Group List

NOTICE:
This feature is programmed by the system administrator. Check with your dealer or system administrator for more information.

Multi-Talkgroup Affiliation

In a Capacity Max system, your radio can be configured for up to seven talkgroups at a site.

Of the 16 talkgroups in the Receive Group List, up to seven talkgroups can be assigned as affiliation talkgroups. The selected talkgroup and the priority talkgroups are automatically affiliated.

NOTICE:
This feature is programmed by the system administrator. Check with your dealer or system administrator for more information.

Talkback

The Talkback feature allows you to respond to a transmission while scanning.

If your radio scans into a call from the selectable group scan list, and if the **PTT** button is pressed during the scanned call, the operation of the radio depends on whether Talkback was enabled or disabled during radio programming. Check with your dealer or system administrator for more information.

Talkback Disabled

The radio leaves the scanned call and attempts to transmit on the contact for the currently selected channel position. After the Call Hang Time on the currently selected contact expires, the radio returns to the home channel and starts the Scan Hang Time Timer. The radio resumes group scan after its Scan Hang Time Timer expires.

Talkback Enabled

If the **PTT** button is pressed during the Group Hang Time of the scanned call, the radio attempts to transmit to the scanned group.

NOTICE:

If you scan into a call for a group that is not assigned to a channel position in the currently selected zone and the call ends, switch to the proper zone and then select the channel position of the group to talk back to that group.

Bluetooth

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

(Commercially available Off-The-Shelf) Bluetooth-enabled devices.

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

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

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

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

Your radio connects to the Bluetooth-enabled device within range with either the strongest signal strength, or to one which it has connected to before in a prior session. Do not turn off your Bluetooth-enabled device or press the home back button during the finding and connecting operation as this cancels the operation.

Connecting to Bluetooth Devices

Follow the procedure to connect to Bluetooth devices.

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

Press the programmed **Bluetooth Connect** button.

Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to the user manual of your Bluetooth-enabled device.

- A tone sounds.
- The yellow LED blinks.

Wait for acknowledgment.
If successful:

- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

Disconnecting from Bluetooth Devices

Follow the procedure to disconnect from Bluetooth devices.

Press the programmed **Bluetooth Disconnect** button.

A positive indicator tone sounds when the device has been disconnected.

Switching Audio Route between Internal Radio Speaker and Bluetooth Device

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

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

A tone sounds when the audio route has switched.

Permanent Bluetooth Discoverable Mode

The Permanent Bluetooth Discoverable Mode must be enabled by the dealer or system administrator.

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

Multi-Site Controls

Starting Manual Site Search

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

> Press the programmed **Manual Site Roam** button.
> - A tone sounds.
> - The green LED blinks.

If the radio finds a new site:

- A positive indicator tone sounds.
- The LED turns off.

If the radio fails to find a new site:

- A negative indicator tone sounds.
- The LED turns off.

Site Lock On/Off

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

> Press the programmed **Site Lock** button.
>
> If the **Site Lock** function is toggled on:
> - You hear a positive indicator tone, indicating the radio has locked to the current site.
>
> If the **Site Lock** function is toggled off:
> - You hear a negative indicator tone, indicating the radio is unlocked.

Home Channel Reminder

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

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

- The Home Channel Reminder tone and announcement sound.

Muting the Home Channel Reminder

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

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

Setting New Home Channels

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

> Press the **Reset Home Channel** programmable button to set the current channel as the new Home Channel.

Remote Monitor

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

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

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

Initiating Remote Monitor

Follow the procedure to initiate Remote Monitor on your radio.

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

Send Feedback

2 Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

Call Indicator Settings

Selecting a Ring Alert Type

NOTICE:
The programmed **Ring Alert Type** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can program the radio calls to one predetermined vibrate call.

The radio vibrates once if it is a momentary ring style. The radio vibrates repetitively if it is a repetitive ring style. When set to Ring and Vibrate, the radio sounds a specific ring tone if there is any incoming radio transaction (for example, Call Alert or Message). It sounds like a good key tone or missed call.

For radios with batteries that support the vibrate feature and are attached to a vibrating belt clip, the available Ring Alert Type options are Silent, Ring, Vibrate, and Ring and Vibrate.

For radios with batteries that do not support the vibrate feature and are not attached to a vibrating belt clip, Ring Alert Type is automatically set to Ring. If you press the programmed **Ring Alert Type** button, a bad key tone sounds, indicating the multiple Ring Alert Type options are disabled.

You can select a Ring Alert Type by performing the following action.

- Press the programmed **Ring Alert Type** button to toggle Voice Announcement or Text-to-Speech, and the radio behavior to the following options.
  - For Silent, Voice Announcement or Text-to-Speech sounds **Ring Alert Type Silent** only.
  - For Ring Only, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio sounds a ring tone.

- For Vibrate Only, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio vibrates.
- For Ring and Vibrate, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio sounds a ring tone and vibrates.

Configuring Vibrate Style

✎ **NOTICE:**
The programmed **Vibrate Style** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

Vibrate Style is enabled when the Vibrating Belt Clip is attached to the radio with a battery that supports the vibrate feature.

You can configure the vibrate style by performing the following action.

- Press the programmed **Vibrate Style** button to toggle to short, medium, or long option and the radio vibrates accordingly. Voice Announcement or Text-to-Speech sounds **Vibrate Style**.

Escalating Alarm Tone Volume

The radio can be programmed to continually alert, when a radio call remains unanswered. This is done by automatically increasing the alarm tone volume over time. This feature is known as Escalert.

Call Alert Operation

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

This feature is accessible via a programmed **One Touch Access** button.

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

The Call Alert Operation can be configured by the dealer or the system administrator to allow the user to press the **PTT** button to respond directly to the call initiator by making a Private Call.

An Off Air Call Set-Up (OACSU) private call allows the user to respond immediately while an Full Off Air Call Set-Up

(FOACSU) private call requires user acknowledgement for the call. OACSU type calls are therefore, recommended to be used for the call alert feature. See Private Call on page 51.

Making Call Alerts

Follow the procedure to make Call Alerts on your radio.

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

The green LED lights up.

2 Wait for acknowledgment.

If the Call Alert acknowledgment is received, a positive indicator tone sounds.

If the Call Alert acknowledgment is not received, a negative indicator tone sounds.

Responding to Call Alerts

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

When you receive a Call Alert:

- A repetitive tone sounds.
- The yellow LED blinks.

Press the **PTT** button within four seconds to respond with a Private Call.

Mute Mode

Mute Mode provides an option to the user to silence all audio indicators of the radio.

Once Mute Mode feature is initiated, all audio indicators are muted except higher priority features such as Emergency operations.

When Mute Mode is exited, the radio resumes playing ongoing tones and audio transmissions.

NOTICE:
This is a purchasable feature. Check with your dealer or system administrator for more information.

Turning On Mute Mode

Follow the procedure to turn on Mute Mode.

Do one of the following:

- Access this feature via the programmed **Mute Mode** button.

- Access this feature by placing the radio in a face-down position momentarily.

Depending on radio model, the Face Down feature can be enabled either through the radio menu or by your system administrator. Check with your dealer or system administrator for more information.

IMPORTANT:
User can only enable either Man Down or Face Down at a time. Both features cannot be enabled together.

NOTICE:
Face Down feature is applicable to XPR 7350e/XPR 7380e only.

The following occurs when Mute mode is enabled:

- Positive Indicator Tone sounds.

- The red LED light starts blinking and remains blinking until Mute Mode is exited.

- Radio is muted.

- Mute Mode Timer begins counting down the duration that is configured.

Exiting Mute Mode

This feature can be exited automatically once the Mute Mode Timer expires.

Do one of the following to exit Mute mode manually:

- Press the programmed **Mute Mode** button.

- Press the PTT button on any entry.

- Place the radio in a face-up position momentarily.

NOTICE:
Face Down feature is applicable to XPR 7350e/XPR 7380e only.

The following occurs when Mute mode is disabled:

- Negative Indicator Tone sounds.

- The blinking red LED turns off.

- Your radio unmutes and speaker state is restored.

- If the timer has not expired, Mute mode timer is stopped.

NOTICE:
Mute Mode is also exited if the user transmits voice or switches to an unprogrammed channel.

Send Feedback

Emergency Operation

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

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

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

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

Short Press
Duration between 0.05 seconds and 0.75 seconds.

Long Press
Duration between 1.00 second and 3.75 seconds.

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

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

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

Your radio supports three Emergency Alarms:

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

In addition, each alarm has the following types:

Regular
Radio transmits an alarm signal and shows audio and/or visual indicators.

Silent
Radio transmits an alarm signal without any audio or visual indicators. Radio receives calls without any sound through the speaker, until the programmed *hot mic* transmission period is over and/or you press the **PTT** button.

Silent with Voice

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

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

Sending Emergency Alarms

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

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

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

The green LED lights up.

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

2 Wait for acknowledgment.

If successful:

• The Emergency tone sounds.

• The green LED blinks.

If unsuccessful after all retries have been exhausted:

• A low-pitched tone sounds.

The radio exits the Emergency Alarm mode.

> ✏️ **NOTICE:**
> When configured for Emergency Alarm only, the emergency process consists only of the Emergency Alarm delivery. The emergency ends when an acknowledgment is received from the system, or when channel access attempts have been exhausted.
>
> No voice call is associated with the sending of an Emergency Alarm when operating as Emergency Alarm Only.

Sending Emergency Alarms with Call

This feature allows you to send an Emergency Alarm with Call to a group of radios or a dispatcher. Upon acknowledgement by the infrastructure within the group, a group of radios can communicate over a programmed Emergency channel. Follow the procedure to send Emergency Alarms with call on your radio.

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

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

The green LED lights up.

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

If an Emergency Alarm acknowledgment is successful received:

- The Emergency tone sounds.
- The green LED blinks.

If an Emergency Alarm acknowledgment is not successfully received:

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

2 Press the **PTT** button to initiate a voice transmission.

The green LED lights up.

3 Do one of the following:

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

- Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

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

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

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

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

> 📝 **NOTICE:**
> The Emergency Call initiator may press the programmed **Cancel** button to end an on-going emergency call. The radio returns to a call idle state.

Sending Emergency Alarms with Voice to Follow

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

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

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

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

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

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

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

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

The green LED lights up.

2 Once the Emergency tone sounds, speak clearly into the microphone.

The radio automatically stops transmitting when:

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

- The *hot mic* duration expires, if Emergency Cycle Mode is disabled.

Receiving Emergency Alarms

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

When you receive an Emergency Alarm:

- A tone sounds.

- The red LED blinks.

NOTICE:
Your radio automatically acknowledges the Emergency Alarm (if enabled).

You can silence the tone. Do one of the following:

- Press the **PTT** button to call the group of radios which received the Emergency Alarm.

- Press any programmable button.

• Exit Emergency mode.

Status Message

This feature allows the user to send status messages to other radios.

The Quick Status list is configured via CPS-RM and comprises up to a maximum of 99 statuses.

The maximum length for each status message is 16 characters.

The Text-to-Speech feature if enabled, allows the radio to audibly indicate the status messages that are received.

> **NOTICE:**
> Text-to-Speech is configured via CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

Sending Status Messages

Follow the procedure below to send a status message.

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

If successful:

• A positive indicator tone sounds.

• The LED turns off.

If unsuccessful:

• A negative indicator tone sounds.

• The LED turns off.

Text Messaging

Quick Text Messages

Your radio supports Quick Text messages as programmed by your dealer.

Sending Quick Text Messages

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

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

2 Wait for acknowledgment.

If successful:

• The green LED lights up.

- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

Privacy

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

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

Your radio supports Enhanced Privacy.

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

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

On a privacy-enabled channel, your radio is able to receive clear or unscrambled calls, depending on how your radio is programmed. In addition, your radio may play a warning tone or not, depending on how it is programmed.

NOTICE:
This feature is not applicable in Citizens Band channels that are in the same frequency.

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

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

Turning Privacy On or Off

Follow the procedure to turn privacy on or off on your radio.

Press the programmed **Privacy** button.

Stun/Revive

This feature allows you to enable or disable any radio in the system. For example, the dealer or system administrator may want to disable a stolen radio to prevent unauthorized users from using it, and enable the radio when it is recovered.

A radio can be disabled (stunned) or enabled (revived) either through the console or through a command initiated by another radio.

Once a radio is disabled, the radio sounds a negative indicator tone.

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

NOTICE:
The dealer or system administrator may permanently disable a radio. See Radio Kill on page 76 for more information.

Radio Kill

This feature is an enhanced security measure to restrict unauthorized access to a radio.

Radio Kill causes a radio to be rendered inoperable. For example, the dealer or system administrator may want to kill a stolen or misplaced radio to prevent unauthorized usage.

NOTICE:
A killed radio can only be revived at a Motorola Solutions service depot. Check with your dealer or system administrator for more information.

Lone Worker

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

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

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

See Emergency Operation on page 69 for more information.

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NOTICE:

Check with your dealer or system administrator for more information.

</div>

Password Lock Features

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

Accessing Radios by Using Passwords

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

1 Enter the current four-digit password.

- Use the **Channel Selector Knob** to enter the first digit of the password.

- Press Side Button 1, 2, or 3 to enter each digit of the remaining three digits of the password.

2 Your radio automatically checks the validity of the password.

If successful, the radio powers up.

If unsuccessful:

- You hear a continuous tone. Repeat step 1.

- After the third attempt, your radio enters into locked state.A tone sounds. The yellow LED double blinks. Your radio enters into locked state for 15 minutes.

Unlocking Radios in Locked State

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

1 Power up the radio.

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

2 Wait for 15 minutes.

Your radio responds only to **On/Off** button in locked state.

3 Repeat the steps in Accessing Radios by Using Passwords on page 77 to access the radio.

Over-the-Air Programming

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

When your radio undergoes OTAP, the green LED blinks.

When your radio receives high volume data:

- The channel becomes busy.

- A negative tone sounds if you press the **PTT** button.

> **NOTICE:**
> Once the programming is complete, a tone sounds, and your radio restarts (powers off and on again).

Wi-Fi Operation

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

> **NOTICE:**
> This feature is applicable to XPR 7350e/XPR 7380e only.

This feature allows you to setup and connect to a Wi-Fi network. Wi-Fi supports updates for radio firmware, codeplug, and resources such as language packs and voice announcement.

Turning Wi-Fi On or Off

> **NOTICE:**
> This feature is applicable to XPR 7350e/XPR 7380e only.

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

Voice Announcements for the programmed **Wi-Fi On or Off** button can be customized via CPS according to user requirements. Check with your dealer or system administrator for more information.

You can turn on or turn off Wi-Fi by performing the following action.

- Press the programmed **Wi-Fi On or Off** button. Voice Announcement sounds Turning On Wi-Fi or Turning Off Wi-Fi.

Connecting to a Network Access Point

📝 **NOTICE:**
This feature is applicable to XPR 7350e/XPR 7380e only.

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

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

Press the programmed **Wi-Fi Status Query** button for the connection status via Voice Announcement. Voice Announcement sounds Wi-Fi is Off, Wi-Fi is On but No Connection, or Wi-Fi is On with Connection.

Voice Announcements for the programmed **Wi-Fi Status Query** button can be customized via CPS according to user requirements. Check with your dealer or system administrator for more information.

Utilities

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

Checking Battery Strength

Follow the procedure to check the battery level of your radio.

Press the programmed **Battery Strength** button.

One of the following occurs:

- The LED lights up solid yellow indicating fair battery capacity.
- The LED lights up solid green indicating full battery capacity.
- The LED blinks red indicating low battery capacity.

Text-to-Speech

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

This audio indicator can be customized per customer requirements.

Setting Text-to-Speech

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

> Press the programmed **Text-to-Speech** button to listen to the received text message.

Turning the Acoustic Feedback Suppressor Feature On or Off

This feature allows you to minimize acoustic feedback in received calls.
Press the programmed **Acoustic Feedback Suppressor** button.

You hear a positive indicator tone, indicating that Acoustic Feedback Suppressor is now enabled.

You hear a negative indicator tone, indicating that the radio is unable to activate Acoustic Feedback Suppressor.

Turning Global Positioning System/Global Navigation Satellite System (GPS/GNSS) On or Off

Global Navigation Satellite System (GNSS) is a satellite navigation system that determines the radio's precise location. GNSS includes Global Positioning System (GPS), Global Navigation Satellite System (GLONASS), and BeiDou Navigation Satellite System (BDS).

> **NOTICE:**
> Selected radio models may offer GPS, GLONASS, and BDS. GNSS constellation is configured via CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

> Do the following step to toggle GPS/GNSS on or off on your radio.

- Press the programmed **GPS/GNSS** button.

Turning Radio Tones/Alerts On or Off

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

Press the programmed **All Tones/Alerts** button.

One of the following tone sounds:
Positive Indicator Tone
All tones and alerts are turned on.

Negative Indicator Tone
All tones and alerts are turned off.

Power Levels

You can customize the power setting to high or low for each channel.

High
This enables communication with radios located at a considerable distance from you.

Low
This enables communication with radios in closer proximity.

Setting Power Levels

Follow the procedure to set the power levels on your radio.

Press the programmed **Power Level** button.

Turning Option Board On or Off

Option board capabilities within each channel can be assigned to programmable buttons. Follow the procedure to turn option board on or off on your radio.

Press the programmed **Option Board** button.

Turning Voice Announcement On or Off

This feature enables the radio to audibly indicate the current zone or channel the user has just assigned, or the programmable button the user has just pressed. This audio indicator can be customized according to customer

requirements. Follow the procedure to turn Voice Announcement on or off on your radio.

> Press the programmed **Voice Announcement** button.
>
> One of the following tone sounds:
> **Positive Indicator Tone**

All tones and alerts are turned on.

> **Negative Indicator Tone**

All tones and alerts are turned off.

Switching Audio Route between Internal Radio Speaker and Wired Accessory

Follow the procedure to toggle audio routing between internal radio speaker and wired accessory.

You can toggle audio routing between the internal radio speaker and the speaker of a wired accessory with the condition that:

- The wired accessory with speaker is attached.

- The audio is not routed to an external Bluetooth accessory.

> Press the programmed **Audio Toggle** button.

A tone sounds when the audio route has switched.

Powering down the radio or detaching the accessory resets the audio routing to the internal radio speaker.

Turning Intelligent Audio On or Off

Your radio automatically adjusts the audio volume to overcome current background noise in the environment, inclusive of both stationary and non-stationary noise sources. This is a receive-only feature and does not affect transmission audio. Follow the procedure to turn Intelligent Audio on or off on your radio.

Press the programmed **Intelligent Audio** button.

> **NOTICE:**
> This feature is not applicable during a Bluetooth session.

Turning Trill Enhancement On or Off

You can enable this feature when you are speaking in a language that contains many words with alveolar trill (rolling "R") pronunciations. Follow the procedure to turn Trill Enhancement on or off on your radio.

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

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Connect Plus Operations

Additional Radio Controls in Connect Plus Mode

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

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

- While a call is not in progress, the **PTT** button is used to make a new call (see Making a Radio Call on page 94).

If the Talk Permit Tone is enabled, wait until the short alert tone ends before talking.

Programmable Buttons

Your dealer can program the programmable buttons as shortcuts to radio functions depending on the duration of a button press:

Short press
Pressing and releasing rapidly.

Long press
Pressing and holding for the programmed duration.

> ✎ **NOTICE:**
> The programmed duration of a button press is applicable for all assignable radio/utility functions or settings. See Emergency Operation on page 107 for more information on the programmed duration of the *Emergency* button.

Assignable Radio Functions

Beacon On/Off
Toggles the Beacon feature on or off. Requires purchase of Connect Plus Man Down feature.

Beacon Reset
Resets (cancels) the Beacon tone, but it does not turn the Beacon feature off. Requires purchase of Connect Plus Man Down feature.

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

Bluetooth Connect
Initiates a Bluetooth find-and-connect operation.

Bluetooth Disconnect
Terminates all existing Bluetooth connections between your radio and any Bluetooth-enabled devices.

Bluetooth Discoverable
Enables your radio to enter Bluetooth Discoverable Mode.

Busy Queue Cancellation
Exits the busy mode when a non-Emergency call in the Busy Queue was initiated. Emergency calls, once accepted into the Busy Queue, cannot be cancelled.

Channel Announcement
Plays zone and channel announcement voice messages for the current channel.

Emergency On/Off
Depending on the programming, initiates or cancels an emergency.

Ring Alert Type
Provides direct access to the Ring Alert Type Setting.

Reset Home Channel
Sets a new home channel.

Silence Home Channel Reminder
Mutes the Home Channel Reminder.

Intelligent Audio
Toggles intelligent audio on or off.

Man Down Alarms On/Off
Toggles all configured Man Down Alarms on or off. Requires purchase of Connect Plus Man Down feature.

Man Down Alarms Reset
If pressed while a Man Down feature Alert Tone is playing, the tone is cancelled and feature timers are reset, but it does not turn the Man Down Alarms off. Requires purchase of Man Down feature.

Mic AGC On/Off
Toggles the internal microphone automatic gain control (AGC) on or off.

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

Phone Exit 🔵
Ends a Phone Call.

Privacy

Toggles privacy on or off.

Roam Request

Requests to search for a different site.

Scan

Toggles scan on or off.

Site Lock On/Off

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

Vibrate Style

Configures the vibrate style.

Voice Announcement On/Off

Toggles voice announcement on or off.

Wi-Fi

Toggles Wi-Fi on or off.

Zone Toggle

Allows radio user to toggle between Zone 1 and Zone 2.

Assignable Settings or Utility Functions

AF Suppressor

Toggles the Acoustic Feedback Suppressor feature on or off.

All Tones/Alerts

Toggles all tones and alerts on or off.

Battery Strength

Indicates battery strength via the LED Indicator.

Toggles the satellite navigation system on or off.

Mic Distortion

Toggles the Microphone Dynamic Distortion Control feature on or off.

Power Level

Toggles transmit power level between high and low.

Unassigned

Indicates that the button function has not yet been assigned.

Identifying Status Indicators in Connect Plus Mode

LED Indicator

The LED indicator shows the operational status of your radio.

Blinking red	Battery mismatch occurs or radio is transmitting at low battery condition, receiving an emergency transmission or has failed the self-test upon powering up, or has moved out of range if radio is configured with Auto-Range Transponder System. Mute Mode is enabled.
Rapidly blinking red	Radio is receiving over-the-air file transfer (Option Board firmware file, Network Frequency file or Option Board Codeplug file) or upgrading to a new Option Board firmware file.

Table continued…

Blinking green and yellow	Radio is receiving a Call Alert, received a text message or Scan is enabled and is receiving activity.
Solid yellow	Radio is in Bluetooth Discoverable Mode. Also indicates fair battery charge when programmable button is pressed.
Double blinking yellow	Radio is actively searching for a new site.
Blinking yellow	Radio is receiving a Call Alert or Scan is enabled and is idle (radio will remain muted to any activity).
Solid green	Radio is powering up or transmitting. Also indicates full charge of the battery when the programmed **Battery Strength** button is pressed.
Blinking green	Radio is powering up, receiving a non-privacy- enabled call or data.
Double blinking green	Radio is receiving a privacy-enabled call.

Send Feedback

Indicator Tones

| High pitched tone | ☐ | Low pitched tone | ■ |

◼▯▭	Positive Indicator Tone
▯◼▭	Negative Indicator Tone

Alert Tones

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

Continuous Tone ■■■	A monotone sound. Sounds continuously until termination.
Periodic Tone ☐☐	Sounds periodically depending on the duration set by the radio. Tone starts, stops, and repeats itself.

Table continued…

Repetitive Tone ☐▭▭	A single tone that repeats itself until it is terminated by the user.
Momentary Tone ◼▭▭	Sounds only once for a short period of time defined by the radio.

Switching Between Connect Plus and Non-Connect Plus Modes

To switch to a non-Connect Plus mode, you must change to another zone, if programmed by your dealer or system administrator. Check with your dealer or system administrator to see if your radio has been programmed with non-Connect Plus zones, and what features are available while operating in non-Connect Plus zones.

Making and Receiving Calls in Connect Plus Mode

Selecting a Site

A site provides coverage for a specific area. A Connect Plus site has a site controller and a maximum of 15 repeaters. In a multi-site network, the Connect Plus radio will automatically search for a new site when the signal level from the current site drops to an unacceptable level.

Roam Request

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

If there are no sites available:

- The radio continues to search through the list of sites.

- The radio will return to the previous site, if the previous site is still available.

  | NOTICE:
  | This is programmed by your dealer.

  Press the programmed **Roam Request** button.

  You hear a tone, indicating the radio has switched to a new site.

Site Lock On/Off

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

Press the programmed **Site Lock** button.

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

- You hear a positive indicator tone, indicating the radio has locked to the current site.

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

- You hear a negative indicator tone, indicating the radio is unlocked.

Selecting a Zone

The radio can be programmed with a maximum of 16 Connect Plus Zones and each Connect Plus zone contains a maximum of 16 assignable positions on the Channel Selector Knob.

Each assignable knob position can be used to start one of the following voice call types:

- Group Call

- Multi-group Call
- Site All Call
- Private Call

> Access the Zone feature by performing the following:
> Press the programmed **Zone Toggle** button.

Using Multiple Networks

If your radio has been programmed to use multiple Connect Plus networks, you can select a different network by switching to the Connect Plus zone that is assigned to the desired network. These network-to-zone assignments are configured by your dealer through radio programming.

Selecting a Call Type

Use the Channel Selector Knob to select a call type. This can be a Group Call, Multi-group Call, Site All Call or Private Call, depending on how your radio is programmed. If you change the Channel Selector Knob to a different position (that has a call type assigned to it), this causes the radio to re-register with the Connect Plus site. The radio registers with the Registration Group ID that has been

programmed for the new Channel Selector Knob position call type.

If you select a position that has no call type assigned to it, your radio sounds a continuous tone. Your radio does not operate when selected to an unprogrammed channel, use the Channel Selector Knob to select a programmed channel instead.
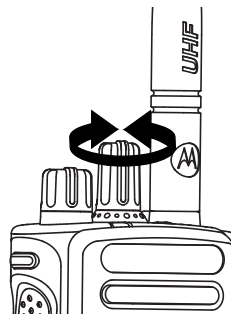
> Once the required zone is set (if you have multiple zones in your radio), turn the programmed Channel Selector Knob to select the call type.

Receiving and Responding to a Radio Call

Once the channel, subscriber ID or call type is set, 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.

✏️ **NOTICE:**
The LED lights up solid green while the radio is transmitting and double blinks green when the radio is receiving a privacy-enabled call. To unscramble a privacy-enabled call, your radio must have the same Privacy Key, OR the same Key Value and Key ID (programmed by your dealer), as the transmitting radio (the radio you are receiving the call from).

✏️ **NOTICE:**
See Privacy on page 115 for more information.

Receiving and Responding to a Group Call

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

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

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

The LED lights up solid green.

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

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

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

✏️ **NOTICE:**
See Making a Group Call on page 95 for details on making a Group Call.

Receiving and Responding to a Private Call

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

When you receive a Private Call, the LED blinks green. Your radio unmutes and the incoming call sounds through the speaker of the radio.

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

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

The LED lights up solid green.

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

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

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

You hear a short tone.

See Making a Private Call on page 95 for details on making a Private Call.

Receiving a Site All Call

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

When you receive an Site All Call, a tone sounds and the LED blinks green.

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

A Site All Call does not wait for a predetermined period of time before ending.

You cannot respond to an Site All Call.

NOTICE:
The radio stops receiving the Site All Call if you switch to a different channel while receiving the call. During a Site All Call, you will **not** be able to use any programmed button functions until the call ends.

Receiving an Inbound Private Phone Call

When you receive an Inbound Private Phone Call, the LED blinks green. The radio unmutes and the incoming private phone call sounds through the radio's speaker.

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

2 Press preprogrammed **Phone Exit** button to end the call.

A short feedback tone sounds.

Receiving an Inbound Phone Talkgroup Call

When you receive an Inbound Phone Talkgroup Call, the LED blinks green. The radio unmutes and the incoming group call sounds through the radio's speaker.

Press the **PTT** button to talk and release it to listen.

Inbound Phone Multi-Group Call

When you receive an Inbound Phone Multi-Group Call, the LED blinks green. The radio unmutes and the incoming multi-group call sounds through the radio's speaker.

Making a Radio Call

After selecting your channel, you can select a subscriber alias or ID, or group alias or ID by using:

- The Channel Selector Knob.

- A programmed **One Touch Access** button – The One Touch Access feature allows you to make a Private Call to a predefined ID easily. This feature can be assigned to a short or long programmable button press. You can **ONLY** have one ID assigned to a **One Touch Access** button. Your radio can have multiple **One Touch Access** buttons programmed.

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

NOTICE:
See Privacy on page 115 for more information.

Making a Call

Making a Group Call

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

1 Select the channel with the active group alias or ID. See Selecting a Call Type on page 91.

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.

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

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

When the target radio responds, the LED blinks green.

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

Making a Private Call

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

You will hear a negative indicator tone, when you make a Private Call via the **One Touch Access** button, if this feature is not enabled.

Use the Quick Text Message or Call Alert features to contact an individual radio. See Text Message Features on page 114 or Call Alert Operation on page 104 for more information.

1 Do one of the following.

- Select the channel with the active subscriber alias or ID. See Selecting a Call Type on page 91.

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

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

3 Press the **PTT** button to make the call.

The LED lights up solid green.

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

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

When the target radio responds, the LED blinks green.

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

Making a Site All Call

This feature allows you to transmit to all users on the site that are currently not engaged in another call. Your radio must be programmed to allow you to use this feature.

Users on the channel/site cannot respond to an Site All Call.

1 Select the channel with the active Site All Call group alias. See .

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.

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

Making a Multi-group Call

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

NOTICE:
Users on the groups cannot respond to a Multi-group Call.

1 Turn the Channel Selector Knob to select the Multi-group alias or ID.

2 Press the **PTT** button to make the call.

The LED lights up solid green.

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

Making a Private Call with a One Touch Call Button

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

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

1 Press the programmed **One Touch Call** button to make a Private Call to the pre-defined Private Call alias or ID.

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

3 Press the **PTT** button to make the call.

The LED lights up solid green.

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

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

When the target radio responds, the LED blinks green.

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

Advanced Features in Connect Plus Mode

Home Channel Reminder

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

If this feature is enabled via the CPS, the Home Channel Reminder tone and announcement sound periodically when the radio is not set to the home channel for a period of time.

You can respond to the reminder by performing one of the following actions:

• Return to the home channel.

• Mute the reminder temporarily via the programmable button.

• Set a new home channel via the programmable button.

Muting the Home Channel Reminder

When the Home Channel Reminder occurs, you can temporarily mute the reminder by performing the following action.

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

Setting a New Home Channel

When the Home Channel Reminder occurs, you can set a new home channel by performing the following action.

• Press the **Reset Home Channel** programmable button.

Auto Fallback

Auto Fallback is a system feature that allows you to continue to make and receive non-emergency calls on the selected Group Contact in the event of certain types of Connect Plus system failures.

If one of these failures occurs, your radio attempts to roam to a different Connect Plus site. This search process may result in your radio finding an operable Connect Plus site,

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or it may result in your radio finding a "Fallback Channel" (if your radio is enabled for Auto Fallback). A Fallback Channel is a repeater that is normally part of an operable Connect Plus site, but is currently unable to communicate with either its site controller or the Connect Plus network. In Fallback mode, the repeater operates as a single digital repeater. Auto Fallback Mode supports non-emergency Group Calls only. No other call types are supported in Fallback Mode.

Indications of Auto Fallback Mode

When your radio is using a Fallback channel, you hear the intermittent "Fallback Tone" approximately once every 15 seconds (except while transmitting). Your radio only permits PTT on the selected Group Contact (Group Call, Multigroup Call, or Site All Call). It does not allow you to make other types of calls.

Making/Receiving Calls in Fallback Mode

NOTICE:
Calls are heard only by radios that are monitoring the same Fallback channel and selected to the same Group. Calls are not networked to other sites or other repeaters.

Emergency voice calls or Emergency Alerts are not available in Fallback mode. If you press the emergency button in Fallback mode, the radio provides an invalid key press tone.

Private (radio to radio) and Phone calls are not available in Fallback mode. If you attempt a call to a private contact, you will receive a denial tone. At this point you should select a desired group contact. Other non-supported calls include Remote Monitor, Call Alert, Radio Check, Radio Enable, Radio Disable, Text messaging, Location Updates, and packet data calls.

Enhanced Traffic Channel Access (ETCA) is not supported in Auto Fallback mode. If two or more radio users press **PTT** at the same time (or at almost the same time), it is possible that both radios transmit until **PTT** is released. In this event, it is

possible that none of the transmissions will be understood by receiving radios.

Making calls in Fallback mode is similar to normal functioning. Simply select the group contact you wish to use (using the radio's normal channel selection method), and then press the **PTT** to start your call. It is possible that the channel may be in use already by another group. If the channel is in use, you receive a busy tone. You may select Group, Multi-group or Site All Call contacts using your radio's normal channel selection method. While the radio is operating on the Fallback Channel, the Multigroup operates just like other Groups. It is only heard by radios that are currently selected to the same Multi-group.

Returning to Normal Operation

If the site returns to normal trunking operation while you are in range of your Fallback repeater, your radio automatically exits Auto Fallback mode. You hear a registration "beep" when the radio successfully registers. If you are in the range of an operable site (that is not in Fallback mode), you may press the Roam Request button (if programmed for your radio) to force your radio to search for and register on an available site. If no other site is available, your radio returns to Auto Fallback mode after searching is complete.

If you drive out of coverage of your Fallback repeater, your radio enters Search mode.

Scan

This feature allows your radio to monitor and join calls for groups defined in a pre-programmed scan list. When scan is enabled, the LED blinks yellow when idle.

Starting and Stopping Scan

NOTICE:
This procedure turns the Scan feature On or Off for all Connect Plus zones with the same Network ID as your currently selected zone.

You can start and stop scanning by pressing the programmed **Scan** button.

- A tone sounds indicating that Scan has been turned on or off.
- When Scan is enabled, the tone's pitch increases.
- When Scan is disabled, the tone's pitch decreases.

Responding to a Transmission During a Scan

During scanning, your radio stops on a group where activity is detected. The radio continuously listens for any member in the scan list when idle on the control channel.

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

2 Press the **PTT** button during hang time.

The LED lights up solid green.

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

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

If you do not respond within the hang time, the radio returns to scanning other groups.

Turning Scan On or Off

> **NOTICE:**
> This procedure turns the Scan feature On or Off for all zones with the same Network ID as your currently selected zone.

When Scan is on and you are not participating in a call, the LED blinks green and yellow.

The procedure for turning Scan on or off depends on how your radio is programmed. If programmed with a Scan On/Off button, use the button to toggle the feature on or off.

• A tone sounds indicating that Scan has been turned on or off.

• When Scan is enabled, the tone's pitch increases.

• When Scan is disabled, the tone's pitch decreases.

Understanding Scan Operation

> **NOTICE:**
> If you scan into a call for a group that is not assigned to a channel position in the currently selected zone and you miss the call's Hang Time, switch to the proper zone and then select the group's channel position to talk back to that group.

There are some circumstances in which you can miss calls for groups that are in your scan list. When you miss a call for one of the following reasons, this does not indicate a problem with your radio. This is a normal scan operation for Connect Plus.

- Scan feature is not turned on (check for LED blinking yellow).
- You are participating in a call already.
- No member of the scanned group is registered at your site (Multisite systems only).

Scan Talkback

If your radio scans into a call from the selectable group scan list, and if the **PTT** button is pressed during the scanned call, the operation of the radio depends on whether Scan Talkback was enabled or disabled during radio programming. Check with your dealer or system administrator for more information.

Scan Talkback Disabled
The radio leaves the scanned call and attempts to transmit on the contact for the currently selected channel position. After the Call Hang Time on the currently selected contact expires, the radio returns to the home channel and starts the Scan Hang Time

Timer. The radio resumes group scan after its Scan Hang Time Timer expires.

Scan Talkback Enabled
If the **PTT** button is pressed during the Group Hang Time of the scanned call, the radio attempts to transmit to the scanned group.

NOTICE:
If you scan into a call for a group that is not assigned to a channel position in the currently selected zone and you miss the Hang Time of the call, switch to the proper zone and then select the channel position of the group to talk back to that group.

Editing Priority for a Talkgroup

The Priority Monitor feature allows the radio to automatically receive transmission from the talkgroup with higher priority when it is in another call. A tone sounds when the radio switches to the call with higher priority. The MOTOTRBO Connect Plus Option Board CPS can configure two levels of priority for the talkgroups: P1 and P2. P1 has higher priority than P2.

NOTICE:

If Default Emergency Revert Group ID is configured in MOTOTRBO Connect Plus Option Board CPS, there are three levels of priority for talkgroups: P0, P1, and P2. P0 is the permanent Emergency Revert Group ID and the highest priority. Check with your dealer or system administrator for more information.

Call Indicator Settings

Selecting a Ring Alert Type

NOTICE:

The programmed **Ring Alert Type** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can program the radio calls to one predetermined vibrate call.

The radio vibrates once if it is a momentary ring style. The radio vibrates repetitively if it is a repetitive ring style. When set to Ring and Vibrate, the radio sounds a specific ring tone if there is any incoming radio transaction (for example, Call Alert or Message). It sounds like a good key tone or missed call.

For radios with batteries that support the vibrate feature and are attached to a vibrating belt clip, the available Ring Alert Type options are Silent, Ring, Vibrate, and Ring and Vibrate.

For radios with batteries that do not support the vibrate feature and are not attached to a vibrating belt clip, Ring Alert Type is automatically set to Ring. If you press the programmed **Ring Alert Type** button, a bad key tone sounds, indicating the multiple Ring Alert Type options are disabled.

You can select a Ring Alert Type by performing the following action.

- Press the programmed **Ring Alert Type** button to toggle Voice Announcement or Text-to-Speech, and the radio behavior to the following options.
  - For Silent, Voice Announcement or Text-to-Speech sounds **Ring Alert Type Silent** only.
  - For Ring Only, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio sounds a ring tone.
  - For Vibrate Only, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio vibrates.

- For Ring and Vibrate, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio sounds a ring tone and vibrates.

Configuring Vibrate Style

NOTICE:
The programmed **Vibrate Style** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

Vibrate Style is enabled when the Vibrating Belt Clip is attached to the radio with a battery that supports the vibrate feature.

You can configure the vibrate style by performing the following action.

- Press the programmed **Vibrate Style** button to toggle to short, medium, or long option and the radio vibrates accordingly. Voice Announcement or Text-to-Speech sounds **Vibrate Style**.

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.

Call Alert Operation

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

This feature is accessible via a programmed **One Touch Access** button.

Responding to Call Alerts

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

When you receive a Call Alert:

- A repetitive tone sounds.
- The yellow LED blinks.

Press the **PTT** button within four seconds to respond with a Private Call.

Making a Call Alert with the One Touch Access Button

Press the programmed **One Touch Access** button to make a Call Alert to the predefined alias.

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

If the Call Alert acknowledgement is received, a positive indicator tone sounds.

If the Call Alert acknowledgement is not received, a negative indicator tone sounds.

Mute Mode

Mute Mode provides an option to the user to silence all audio indicators of the radio.

Once Mute Mode feature is initiated, all audio indicators are muted except higher priority features such as Emergency operations.

When Mute Mode is exited, the radio resumes playing ongoing tones and audio transmissions.

NOTICE:
This is a purchasable feature. Check with your dealer or system administrator for more information.

Turning On Mute Mode

Follow the procedure to turn on Mute Mode.

Do one of the following:
- Access this feature via the programmed **Mute Mode** button.
- Access this feature by placing the radio in a face-down position momentarily.

Depending on radio model, the Face Down feature can be enabled either through the radio menu or by your system administrator. Check with your dealer or system administrator for more information.

IMPORTANT:
User can only enable either Man Down or Face Down at a time. Both features cannot be enabled together.

> 📝 **NOTICE:**
> Face Down feature is applicable to XPR 7350e/XPR 7380e only.

The following occurs when Mute mode is enabled:

- Positive Indicator Tone sounds.

- The red LED light starts blinking and remains blinking until Mute Mode is exited.

- Radio is muted.

- Mute Mode Timer begins counting down the duration that is configured.

Exiting Mute Mode

This feature can be exited automatically once the Mute Mode Timer expires.

Do one of the following to exit Mute mode manually:

- Press the programmed **Mute Mode** button.

- Press the PTT button on any entry.

- Place the radio in a face-up position momentarily.

> 📝 **NOTICE:**
> Face Down feature is applicable to XPR 7350e/XPR 7380e only.

The following occurs when Mute mode is disabled:

- Negative Indicator Tone sounds.

- The blinking red LED turns off.

- Your radio unmutes and speaker state is restored.

- If the timer has not expired, Mute mode timer is stopped.

> 📝 **NOTICE:**
> Mute Mode is also exited if the user transmits voice or switches to an unprogrammed channel.

Emergency Operation

✎ **NOTICE:**
If your radio is programmed for Silent or Silent with Voice emergency initiation, in most cases it automatically exits silent operation after the Emergency Call or Emergency Alert is finished. The exception to this rule is when Emergency Alert is the configured Emergency Mode and Silent is the configured Emergency Type. If your radio is programmed in this manner, the silent operation continues until you cancel silent operation by pressing **PTT** or the button configured for Emergency Off.
Emergency voice calls and Emergency Alerts are not supported when operating in Connect Plus Auto Fallback mode. For more information see the .

An Emergency Alert is used to indicate a critical situation. You can initiate an Emergency at any time, in any state, even when there is activity on the current channel. Pressing the **Emergency** button initiates the programmed Emergency mode. The programmed Emergency mode may also be initiated by triggering the optional Man Down feature. The Emergency feature may be disabled in your radio.

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

Short press
Between 0.05 seconds and 0.75 seconds.

Long press
Between 1.00 second and 3.75 seconds.

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

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

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

When your radio is selected to a Connect Plus zone, it supports three Emergency modes:

Emergency Call
You must press the **PTT** button to talk on the assigned emergency time slot.

Emergency Call with Voice to Follow

For the first transmission on the assigned emergency time slot, the microphone is automatically unmuted and you may talk without pressing the **PTT** button. The microphone stays "hot" in this fashion for a time period programmed into the radio. For subsequent transmissions in the same Emergency call, you must press the **PTT** button.

Emergency Alert

An Emergency Alert is not a voice call. It is an emergency notification that is sent to radios that are configured to receive these alerts. The radio sends an emergency alert via the control channel of the currently registered site. The Emergency Alert is received by radios in the Connect Plus network that are programmed to receive them (no matter which network site they are registered to).

Only one of the Emergency Modes can be assigned to the Emergency button per zone. In addition, each Emergency mode has the following types:

Regular

Radio initiates an Emergency and shows audio and/or visual indicators.

Silent

Radio initiates an Emergency without any audio or visual indicators. The radio suppresses all audio or visual indications of the Emergency until you press the **PTT** button to start a voice transmission.

Silent with Voice

The same as Silent operation, except that the radio also unmutes for some voice transmissions.

Responding to an Emergency Call

The radio does not show that it is receiving an Emergency call. Respond the same way as you would to group calls.

Ignore Emergency Revert Call

This feature enhancement is to provide an option for the radio to ignore an active Emergency Revert Call.

To enable Ignore Emergency Revert Call, the radio must be configured at the Connect Plus Customer Programming Software (CPCPS).

When the feature is enabled, the radio does not receive any audio on the default Emergency Revert Group ID.

Check with your dealer or system administrator for more information.

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Initiating an Emergency Call

✎ NOTICE:
If your radio is set to Silent, it does not display any audio or visual indicators during Emergency mode until you press the **PTT** button to initiate a voice transmission.
If your radio is set to Silent with Voice, it does not initially display any audio or visual indicators that the radio is in Emergency mode. However, your radio unmutes for the transmissions of radios responding to your emergency. The emergency indicators only appear once you press the **PTT** button to initiate a voice transmission from your radio.

For both "Silent" and "Silent with Voice" operation, the radio automatically exits silent operation after the Emergency Call is finished.

1 Press the programmed **Emergency** button.

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

3 Press the **PTT** button to initiate a voice transmission on the Emergency group.

When you release the **PTT** button, the Emergency call continues for the time allotted for the Emergency Call Hang Time.

If you press the **PTT** button during this time, the Emergency call continues.

Initiating an Emergency Call with Voice to Follow

Your radio must be programmed for this type of operation.

When enabled for this operation, when you press the programmed **Emergency** button, and when your radio receives the time slot assignment, the microphone is automatically activated without pressing the **PTT** button. This activated microphone state is also known as "hot mic". The "hot mic" applies to the first voice transmission from your radio during the Emergency call. For subsequent transmissions in the same Emergency call, you must press the **PTT** button.

1 Press the programmed **Emergency** button.

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

3 The microphone remains active for the "hot mic" time specified in your radio's codeplug programming.

During this time, the LED lights up green.

4 Press and hold the **PTT** button to talk longer than the programmed duration.

Initiating an Emergency Alert

> NOTICE:
> If your radio is programmed for "Silent" or "Silent with Voice", it will not provide any audio or visual indications that it is sending an Emergency Alert. If programmed for "Silent", the silent operation continues indefinitely until you press PTT or the button configured for "Emergency Off". If programmed for "Silent with Voice", the radio automatically cancels silent operation when the site controller broadcasts the Emergency Alert.

Press the orange **Emergency** button.

Once the Emergency Alert is successfully sent and is being broadcast for other radios to hear, a positive indicator tone is played.

Exiting Emergency Mode

> NOTICE:
> If the Emergency call ends due to the expiration of the Emergency Hang Time, but the emergency condition is not over, press the **Emergency** button again to restart the process.

If you initiate an Emergency Alert by pressing the programmed **Emergency** button, your radio automatically exits Emergency mode after receiving a response from the Connect Plus system.

If you initiate an Emergency call by pressing the programmed **Emergency** button, your radio will be assigned a channel automatically when one becomes available. Once your radio has transmitted a message indicating the emergency, you cannot cancel your Emergency call. However, if you pressed the button by accident or the emergency no longer exists, you may wish to say this over the assigned channel. When you release

the **PTT** button, the Emergency call is discontinued after the Emergency Call Hang Time expires.

If your radio was configured for Emergency with Voice to Follow, use the "hot mic" period to explain your error, then press and release the **PTT** button to discontinue the transmission. The Emergency call is discontinued after the Emergency Call Hang Time expires.

Man Down Alarms

> **NOTICE:**
> This feature is applicable to XPR 7350e/XPR 7380e only.
>
> Man Down Alarms are not supported when operating in Fallback mode. For more information see the .

This section describes the Connect Plus Man Down Feature. This is a purchasable feature that may or may not apply to your radio.

Your Connect Plus portable radio can be enabled and programmed for one or more of the Man Down Alarms. Your dealer or radio system administrator can tell you whether or not this applies to your radio and which specific Man Down Alarms have been enabled and programmed.

If your radio has been programmed for one or more of the following Man Down Alarms, it is important for you to understand how the Alarm works, what indication (tones) your radio provides, and the action you should take.

The purpose of the Man Down Alarms is to alert others when you might be in danger. This is accomplished by programming your radio to detect a certain angle of tilt, lack of movement, or movement, depending on which Man Down Alarm(s) is/are enabled. If your radio detects a disallowed movement type, and if the condition is not corrected in a certain period of time, the radio starts to play an Alert Tone (if so programmed). At this point you should immediately take one or more of the corrective actions discussed below, depending on which Man Down Alarm(s) has/have been enabled for your radio. If you do not take corrective action within a certain period of time, your radio automatically starts an Emergency (either an Emergency Call or Emergency Alert).

- **Tilt Alarm** – When your radio is tilted at or beyond a specified angle for a period of time, it plays an Alert Tone (if so programmed). To prevent the radio from automatically starting an Emergency Call or Emergency Alert, restore the radio to the vertical position immediately.

- **Anti-Movement Alarm** – When your radio is motionless for a period of time, it plays an Alert Tone (if so programmed). To prevent the radio from automatically starting an Emergency Call or Emergency Alert, move the radio immediately.

- **Movement Alarm** – When your radio is in motion for a period of time, it plays an Alert Tone (if so programmed). To prevent the radio from automatically starting an Emergency Call or Emergency Alert, stop the radio's motion immediately.

Your dealer or radio system administrator can tell you which of the above alarms (if any) has been enabled through radio programming. It is possible to enable both the Tilt and Anti- Movement Alarms. In that case, the Alert Tone plays when the radio detects the first movement violation.

Instead of taking the corrective actions discussed above, you can also prevent the radio from starting the Emergency call or Emergency Alert by using a programmable button, if your radio has been configured in this manner. This is discussed in the next two sections.

Turning Man Down Alarms On and Off

NOTICE:
The programmed **Man Down** button and Man Down settings are assigned via CPS. Check with your dealer or system administrator to determine how your radio has been programmed.
If you enable Man Down to maximum sensitivity and set Vibrate Style to high, the radio automatically restricts Vibrate Style to medium. This function prevents high Vibrate Style from initiating the Man Down emergency feature.

The procedure for turning the Man Down Alarms On and Off depends on how your radio is programmed. If programmed with a Man Down Alarms On/Off button, use the button to toggle the Man Down Alarms On and Off. This applies to all of the Man Down Alarms enabled for your radio.

When using the programmable button to toggle the Man Down Alarms On, your radio plays a tone that rises in pitch.

When using the programmable button to toggle the Man Down Alarms Off, your radio plays a tone that falls in pitch.

In order to hear the tones described above when turning the Man Down Alarms On and Off, the MOTOTRBO radio

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and Connect Plus Option Board must both be enabled for keypad tones.

Resetting the Man Down Alarms

If your radio has been programmed with a Man Down Alarms Reset button, it is possible to reset the Man Down Alarms without turning them On or Off. This stops any Man Down Alert Tone that is currently playing, and it also resets the Alarm timers. However, it is still necessary to correct the movement violation by taking the appropriate corrective action described in the Man Down Alarms section. If the movement violation is not corrected within a period of time, the Alert Tone starts playing again.

Beacon Feature

This section describes the Beacon feature. The Beacon feature is part of Connect Plus Man Down, a purchasable feature. Your dealer or Radio System Administrator can tell you if the Beacon feature applies to your radio.

If your radio has been enabled and programmed for one or more of the Man Down Alarms, it can also be enabled for the Beacon feature.

If your radio automatically starts an Emergency Call or Emergency Alert due to one of the Man Down Alarms, and if your radio is also enabled for the Beacon feature, the radio starts to periodically emit a high pitched tone approximately once every ten seconds. The interval can vary depending on whether you are talking on your radio. The purpose of the Beacon tone is to help searchers locate you. If your radio has also been enabled for the "Visual Beacon", the radio's backlight comes on for a few seconds every time the Beacon tone plays.

You can stop your radio from playing the Beacon tone by using a programmable button, if your radio has been configured in this manner. This is discussed in the next two sections. If your radio does not have the programmable button or menu option, you can stop the Beacon tone by turning the radio off and then on again, or by changing to a different zone (if your radio has been programmed for more than one zone).

Turning Beacon On and Off

The procedure for turning the Beacon On and Off depends on how your radio is programmed. If programmed with a Beacon On/Off button, use the button to toggle the Beacon On and Off.

- When using the programmable button to toggle the Beacon On, your radio plays a tone that rises in pitch.
- When using the programmable button to toggle the Beacon Off, your radio plays a tone that falls in pitch.

In order to hear the tones described above when turning the Beacon On and Off, the MOTOTRBO radio and

Connect Plus Option Board must both be enabled for keypad tones.

Resetting the Beacon

If your radio has been programmed with either the Beacon Reset button, it is possible to reset the Beacon. This stops the Beacon Tone without turning the Beacon feature Off.

Text Message Features

Sending a Quick Text Message with the One Touch Access Button

> Press the programmed **One Touch Access** button to send a predefined Quick Text message to a predefined alias.
>
> The green LED lights up.

If the message is sent, a tone sounds.
If the message cannot be sent, a low tone sounds.

Privacy

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

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

Your radio supports Enhanced Privacy.

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

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

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

You can access this feature by performing one of the following actions:

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

> **NOTICE:**
> Some radio models may not offer this Privacy feature. Check with your dealer or system administrator for more information.

Making a Privacy-Enabled (Scrambled) Call

Toggle privacy on using the programmed privacy button. Your radio must have the Privacy feature enabled for the currently selected channel position to send a privacy-enabled transmission. When privacy is enabled for the currently selected channel position, all voice transmissions made by your radio will be scrambled. This includes Group Call, Multigroup Call, talk-back during scanned calls, Site All Call, Emergency Call, and Private Call. Only receiving radios with the same Key Value and Key ID as your radio will be able to unscramble the transmission.

Bluetooth Operation

📝 **NOTICE:**
If disabled via the CPS, all Bluetooth-related features are disabled and the Bluetooth device database is erased.

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

Bluetooth operates within a range of 10 meters (32 feet) line of sight. This is an unobstructed path between your radio and your Bluetooth-enabled device.

It is not recommended that you leave your radio behind and expect your Bluetooth-enabled device to work with a high degree of reliability when they are separated.

At the fringe areas of reception, both voice and tone quality will start to sound "garbled" or "broken". To correct this problem, simply position your radio and Bluetooth-enabled device closer to each other (within the 10-meter/32 feet defined range) to re-establish clear audio reception. Your radio's Bluetooth function has a maximum power of 2.5 mW (4 dBm) at the 10-meter/32 feet range.

Your radio can support up to 4 simultaneous Bluetooth connections with Bluetooth-enabled devices of unique types. For example, a headset, and a PTT-Only Device (POD). Multiple connections with Bluetooth-enabled devices of the same type are not supported.

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

Finding and Connecting to a Bluetooth Device

Do not turn off your Bluetooth-enabled device during the finding and connecting operation as this cancels the operation.
The radio connects to the Bluetooth-enabled device within range with either the strongest signal strength, or to one which it has connected to before in a prior session.

1   Turn on your Bluetooth-enabled device and place it in pairing mode. Refer to respective Bluetooth-enabled device's user manual.

2 On your radio, press the programmed **Bluetooth Connect** button.

A tone sounds and LED blinks yellow.

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

If successful, a positive indicator tone sounds.

If unsuccessful, a negative indicator tone sounds.

NOTICE:
A pin code may be required to be programmed in your radio before it can pair with some devices. Contact your dealer for more information.

Disconnecting from a Bluetooth Device

On your radio, press the programmed **Bluetooth Disconnect** button.

A positive indicator tone sounds when disconnected.

Switching Audio Route between Internal Radio Speaker and Bluetooth Device

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

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

A tone sounds when the audio route has switched.

Permanent Bluetooth Discoverable Mode

NOTICE:
The Permanent Bluetooth Discoverable Mode can only be enabled via the MOTOTRBO CPS. If enabled, you will **not** be able to use any Bluetooth programmable button features.

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

Wi-Fi Operation

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

✎ **NOTICE:**
This feature is applicable to XPR 7350e/XPR 7380e only.

This feature allows you to setup and connect to a Wi-Fi network. Wi-Fi supports updates for radio firmware, codeplug, and resources such as language packs and voice announcement.

Turning Wi-Fi On or Off

✎ **NOTICE:**
This feature is applicable to XPR 7350e/XPR 7380e only.

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

Voice Announcements for the programmed **Wi-Fi On or Off** button can be customized via CPS according to user requirements. Check with your dealer or system administrator for more information.

You can turn on or turn off Wi-Fi by performing the following action.

• Press the programmed **Wi-Fi On or Off** button. Voice Announcement sounds Turning On Wi-Fi or Turning Off Wi-Fi.

Connecting to a Network Access Point

✎ **NOTICE:**
This feature is applicable to XPR 7350e/XPR 7380e only.

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

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

Press the programmed **Wi-Fi Status Query** button for the connection status via Voice Announcement. Voice Announcement sounds Wi-Fi is Off, Wi-Fi is On but No Connection, or Wi-Fi is On with Connection.

Voice Announcements for the programmed **Wi-Fi Status Query** button can be customized via CPS according to

user requirements. Check with your dealer or system administrator for more information.

Utilities

Turning the Radio Tones/Alerts On or Off

You can enable and disable all radio tones and alerts (except for the incoming Emergency alert tone) if needed.

Press the programmed **All Tones/Alerts** button.

Tone heard ...	Indication
Positive Indicator tone	All tones and alerts are **ON**.
Negative Indicator tone	All tones and alerts are **OFF**.

Setting the Power Level

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

High enables communication with tower sites in Connect Plus mode located at a considerable distance from you. **Low** enables communication with tower sites in Connect Plus mode in closer proximity.

Press the programmed **Power Level** button.

Tone heard ...	Radio transmitting at ...
Positive Indicator tone	Low Power
Negative Indicator tone	High Power

Voice Announcement

This feature enables the radio to audibly indicate the current Zone or Channel the user has just assigned, or

programmable button press. This audio indicator can be customized per customer requirements.

Press the programmed **Voice Announcement** button.

Setting the Text-to-Speech Feature

📝 **NOTICE:**
The Text-to-Speech feature can only be enabled via the MOTOTRBO Customer Programming Software. If enabled, the Voice Announcement feature is automatically disabled, and vice versa. Check with your dealer or system administrator for more information.

This feature enables the radio to audibly indicate the following features:

- Current Channel
- Current Zone
- Programmed button feature on or off

  - Press the programmed **Voice Announcement** button to toggle this feature on or off.

Checking the Battery Strength

You can check how much battery power you have left.

Press the programmed **Battery Strength** button to view the battery strength via the LED indicator.

LED indicator	Indication
Solid Yellow	Radio has a fair battery charge.
Solid Green	Radio has a full battery charge.

Intelligent Audio

Your radio can automatically adjust its audio volume to overcome background noise in the environment, inclusive of all stationary and non-stationary noise sources. This feature is a Receive-only feature and does not affect Transmit audio.
Press the programmed **Intelligent Audio** button.

NOTICE:
This feature is not applicable during a Bluetooth session.

See Authorized Accessories List on page 165 *for recommended Bluetooth-enabled audio accessories with in-built Automatic Volume Control for similar performance.*

Turning the Acoustic Feedback Suppressor Feature On or Off

This feature allows you to minimize acoustic feedback in received calls.
Press the programmed **Acoustic Feedback Suppressor** button.

You hear a positive indicator tone, indicating that Acoustic Feedback Suppressor is now enabled.

You hear a negative indicator tone, indicating that the radio is unable to activate Acoustic Feedback Suppressor.

Turning GPS/GNSS On or Off

Global Navigation Satellite System (GNSS) is a satellite navigation system that determines the radio's precise location. GNSS includes Global Positioning System (GPS), Global Navigation Satellite System (GLONASS), and BeiDou Navigation Satellite System (BDS).

NOTICE:
Selected radio models may offer GPS, GLONASS, and BDS. GNSS constellation is configured via CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

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

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Other Systems

Push-To-Talk (PTT) Button

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

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

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

If the Talk Permit Tone is enabled, wait until the short alert tone ends before talking.

Programmable Buttons

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

Short press
Pressing and releasing rapidly.

Long press
Pressing and holding for the programmed duration.

📝 **NOTICE:**
See Emergency Operation on page 148 for more information on the programmed duration of the *Emergency* button.

Assignable Radio Functions

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

Audio Toggle
Toggles audio routing between the internal radio speaker and the speaker of wired accessory.

Battery Strength
Indicates battery strength via the LED Indicator.

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

Bluetooth Connect
Initiates a Bluetooth find-and-connect operation.

Bluetooth Disconnect
Terminates all existing Bluetooth connections between your radio and any Bluetooth-enabled devices.

Bluetooth Discoverable

Enables your radio to enter Bluetooth Discoverable Mode.

Call Forwarding 🔘

Toggles Call Forwarding on or off.

Channel Announcement

Plays zone and channel announcement voice messages for the current channel.

Emergency

Depending on the programming, initiates or cancels an emergency.

Intelligent Audio

Toggles intelligent audio on or off.

Manual Site Roam [2] 🔘

Starts the manual site search.

Mic AGC

Toggles the internal microphone automatic gain control (AGC) on or off.

Monitor

Monitors a selected channel for activity.

Nuisance Channel Delete [2]

Temporarily removes an unwanted channel, except for the Selected Channel, from the scan list. The Selected Channel refers to the selected zone or channel combination of the user from which scan is initiated.

One Touch Access 🔘

Directly initiates a predefined Private, Phone or Group Call, a Call Alert or a Quick Text message.

Option Board Feature

Toggles option board feature(s) on or off for option board-enabled channels.

Permanent Monitor [2]

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

Phone Exit 🔘

Ends a Phone Call.

Privacy 🔘

Toggles privacy on or off.

Repeater/Talkaround [2]

Toggles between using a repeater and communicating directly with another radio.

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[2] Not applicable in Capacity Plus.

Reset Home Channel

Sets a new home channel.

Silence Home Channel Reminder

Mutes the Home Channel Reminder.

Scan [3]

Toggles scan on or off.

Site Info

Plays site announcement voice messages for the current site when Voice Announcement is enabled.

Site Lock [2] 🔒

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

Telemetry Control

Controls the Output Pin on a local or remote radio.

Transmit Interrupt Remote Dekey

Stops an ongoing interruptible call to free the channel.

Trill Enhancement

Toggles trill enhancement on or off.

Voice Announcement

Toggles voice announcement on or off.

Voice Operating Transmission (VOX)

Toggles VOX on or off.

Wi-Fi

Toggles Wi-Fi on or off.

Zone Toggle

Allows radio user to toggle between Zone 1 and Zone 2.

Assignable Settings or Utility Functions

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

Tones/Alerts

Toggles all tones and alerts on or off.

Power Level

Toggles transmit power level between high and low.

Status Indicators

This chapter explains the status indicators and audio tones used in the radio.

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[3] Not applicable in Capacity Plus–Single-Site.

LED Indicators

LED indicators show the operational status of your radio.

Blinking Red

Radio has failed the self-test upon powering up.

Radio is receiving or sending an emergency transmission.

Radio is transmitting in low battery state.

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

Mute Mode is enabled.

Solid Green

Radio is powering up.

Radio is transmitting.

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

Blinking Green

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

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

Radio is detecting activity over the air.

NOTICE:

This activity may or may not affect the programmed channel of the radio due to the nature of the digital protocol.

There is no LED indication when the radio is detecting activity over the air in Capacity Plus.

Double Blinking Green

Radio is receiving a privacy-enabled call or data.

Solid Yellow

Radio is monitoring a conventional channel.

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

Blinking Yellow

Radio is scanning for activity.

Radio is receiving a Call Alert.

All Capacity Plus-Multi-Site channels are busy.

Double Blinking Yellow

Radio has Auto Roaming enabled.

Radio is actively searching for a new site.

Radio has yet to respond to a Group Call Alert.

Radio is locked.

Radio is not connected to the repeater while in Capacity Plus.

All Capacity Plus channels are busy.

Tones

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

□

High Pitched Tone

■

Low Pitched Tone

Indicator Tones

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

Positive Indicator Tone

Negative Indicator Tone

Audio Tones

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

Continuous Tone
A monotone sound. Sounds continuously until termination.

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

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

Momentary Tone
Sounds only once for a duration set by the radio.

Zone and Channel Selections

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

A zone is a group of channels. Your radio supports up to 32 channels and 2 zones, with a maximum of 16 channels per zone.

Transmissions are sent and received on a channel. Each channel may have been programmed differently to support different groups of users or supplied with different features.

Selecting Zones

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

Press the programmed **Zone Toggle** button.

One of the following tone sounds:
Positive Indicator Tone
Radio is in Zone 2.

Negative Indicator Tone
Radio is in Zone 1.

Selecting Channels

Follow the procedure to select the required channel on your radio after you have selected a zone.

Turn the **Channel Selector** knob to select the channel, subscriber ID, or group ID.

Calls

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

You can select a subscriber alias or ID, or group alias or ID after you have selected a channel by using one of these features:
Programmed One Touch Access Button
This method is used for Group, Private, and Phone Calls only.

NOTICE:
You can only have one ID assigned to a **One Touch Access** button with a short or long programmable button press.

Programmable Button
This method is used for Phone Calls only.

Group Calls

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

Responding to Group Calls

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

When you receive a Group Call:

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

1 Do one of the following:

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

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

   The green LED lights up.

2 Do one of the following:

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

   - Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

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

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

Making Group Calls

Follow the procedure to make Group Calls on your radio.

1 Do one of the following:

- Select a channel with the active group alias or ID.

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

2 Press the **PTT** button to make the call.

The green LED lights up.

3 Do one of the following:

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

- Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

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

The green LED lights up when the target radio responds.

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

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

Private Calls

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

There are two ways to set up a Private Call. The first type sets up the call after performing a radio presence check, while the second type sets up the call immediately. Only one of these types can be programmed to your radio by your dealer.

Responding to Private Calls

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

When you receive a Private Call:

- The green LED blinks.

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

1 Do one of the following:

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

- ⊕ If the Transmit Interrupt Remote Dekey feature is enabled, press the **PTT** button to stop an ongoing interruptible call and free the channel for you to respond.

The green LED lights up.

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

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

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

Making Private Calls ⊕

Your radio must be programmed for you to initiate a Private Call. You hear a negative indicator tone when you initiate the call when this feature is not enabled. Follow the procedure to make Private Calls on your radio.

1 Do one of the following:

- Select a channel with the active subscriber alias or ID.

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

2 Press the **PTT** button to make the call.

The green LED lights up.

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

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

The green LED blinks when the target radio responds.

5 ⊕ If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating

the channel is free for you to respond.Press the **PTT** button to respond to the call.

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

All Calls

An All Call is a call from an individual radio to every radio on the channel. An All Call is used to make important announcements, requiring full attention from the user. The users on the channel cannot respond to an All Call.

Receiving All Calls ⓟ

When you receive an All Call:

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

An All Call does not wait for a predetermined period before ending.

ⓟ If the Channel Free Indication feature is enabled, you hear a short alert tone when the transmitting radio releases

the **PTT** button, indicating the channel is free for you to use. You cannot respond to an All Call.

📝 **NOTICE:**
The radio stops receiving the All Call if you switch to a different channel while receiving the call. You are not able to continue with any programmed button functions until the call ends during an All Call.

Making All Calls ⓟ

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

1 Select a channel with the active All Call group alias or ID.

2 Press the **PTT** button to make the call.

The green LED lights up.

3 Do one of the following:
- Wait for the Talk Permit Tone to end and speak clearly into the microphone if enabled.
- ⓟ Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

Send Feedback

Users on the channel cannot respond to an All Call.

Selective Calls 🔘

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

Responding to Selective Calls 🔘

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

When you receive a Selective Call:

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

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

The green LED lights up.

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

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

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

Making Selective Calls

Your radio must be programmed for you to initiate a Selective Call. Follow the procedure to make Selective Calls on your radio.

1 Select a channel with the active subscriber alias or ID.

2 Press the **PTT** button to make the call.

The green LED lights up.

3 Do one of the following:

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

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

The green LED lights up when the target radio responds.

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

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

Phone Calls 🔘

Making Phone Calls 🔘

Follow the procedure to make Phone Calls on your radio.

When you attempt to make or end a Phone Call without the access and deaccess codes preconfigured, the attempt fails and a negative indicator tone sounds.

1 Press the programmed **One Touch Access** button to the predefined alias or ID.

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

If successful:

• The DMTF Tone sounds.

• You hear the dialling tone of the telephone user.

If unsuccessful:

• A negative indicator tone sounds.

• The phone call fails. Repeat this step.

2 Press the **PTT** button to make the call.

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

4 Press the programmed **Phone Exit** button to end the call.

If end-call-setup is successful:

• A tone sounds.

If end-call-setup is unsuccessful:

• A negative indicator tone sounds.

Send Feedback

- Repeat this step, or wait for the telephone user to end the call.

Responding to Phone Calls as Private Calls ⊕

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

When you receive a Phone Call as a Private Call:

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

If Phone Call capability is not enabled on your radio, your radio mutes the call.

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

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

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

A tone sounds.

Responding to Phone Calls as Group Calls ⊕

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

When you receive a Phone Call as a Group Call:

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

If Phone Call capability is not enabled on your radio, your radio mutes the call.

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

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

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

A tone sounds.

Responding to Phone Calls as All Calls ⊓

When you receive a Phone Call as an All Call, you can respond to or end the call, only if an All Call type is assigned to the channel. Follow the procedure to respond to Phone Calls as All Calls on your radio.

If Phone Call capability is not enabled on your radio, your radio mutes the call.

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

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

Stopping Radio Calls ⊜

This feature allows you to stop an ongoing Group or Private Call to free the channel for transmission. For example, when a radio experiences a "stuck microphone" condition where the **PTT** button is inadvertently pressed by the user. Your radio must be programmed to allow you to use this feature. Follow the procedure to stop calls on your radio.

1 Press the programmed **Transmit Interrupt Remote Dekey** button.

2 Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

> 🖉 **NOTICE:**
> Check with your dealer or system administrator for more information.

Advanced Features

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

> 🖉 **NOTICE:**
> Your dealer or system administrator may have customized your radio for your specific needs. Check with your dealer or system administrator for more information.

Bluetooth

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

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

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

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

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

Your radio connects to the Bluetooth-enabled device within range with either the strongest signal strength, or to one which it has connected to before in a prior session. Do not turn off your Bluetooth-enabled device or press the home back button during the finding and connecting operation as this cancels the operation.

Connecting to Bluetooth Devices

Follow the procedure to connect to Bluetooth devices.

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

Press the programmed **Bluetooth Connect** button.

Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to the user manual of your Bluetooth-enabled device.

- A tone sounds.
- The yellow LED blinks.

Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

Disconnecting from Bluetooth Devices

Follow the procedure to disconnect from Bluetooth devices.

Press the programmed **Bluetooth Disconnect** button.

A positive indicator tone sounds when the device has been disconnected.

Switching Audio Route between Internal Radio Speaker and Bluetooth Device

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

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

A tone sounds when the audio route has switched.

Permanent Bluetooth Discoverable Mode

The Permanent Bluetooth Discoverable Mode must be enabled by the dealer or system administrator.

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

Multi-Site Controls

These features are applicable when your current radio channel is part of an IP Site Connect or Capacity Plus–Multi-Site configuration.

Starting Manual Site Search

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

Press the programmed **Manual Site Roam** button.

- A tone sounds.
- The green LED blinks.

If the radio finds a new site:

- A positive indicator tone sounds.
- The LED turns off.

If the radio fails to find a new site:

- A negative indicator tone sounds.
- The LED turns off.

Site Lock On/Off

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

Press the programmed **Site Lock** button.

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

- You hear a positive indicator tone, indicating the radio has locked to the current site.

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

- You hear a negative indicator tone, indicating the radio is unlocked.

Talkaround

This feature allows you to continue communication when your repeater is not operating, or when your radio is out of range from the repeater but within talking range of other radios.

The talkaround setting is retained even after powering down.

NOTICE:
This feature is not applicable in Capacity Plus–Single-Site, Capacity Plus–Multi-Site, and Citizens Band channels that are in the same frequency.

Toggling Between Repeater and Talkaround Modes

Follow the procedure to toggle between Repeater and Talkaround modes on your radio.

Press the programmed **Repeater/Talkaround** button.

One of the following tones sounds:
Positive Indicator Tone
Radio is in talkaround mode.

Negative Indicator Tone
Radio is in repeater mode.

Monitor Feature

The monitor feature is used to make sure that a channel is clear before transmitting.

NOTICE:
This feature is not applicable in Capacity Plus–Single-Site and Capacity Plus–Multi-Site.

Monitoring Channels

1 Press and hold the programmed **Monitor** button.

   If there is activity on the monitored channel:

   • You hear radio activity or total silence.

   • The yellow LED lights up.

   You hear a "white noise" if the monitored channel is free.

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

Permanent Monitor

The Permanent Monitor feature is used to continuously monitor a selected channel for activity.

Turning Permanent Monitor On or Off

Follow the procedure to turn Permanent Monitor on or off on your radio.

Press the programmed **Permanent Monitor** button.

When the radio enters the mode:

- An alert tone sounds.
- The yellow LED lights up.

When the radio exits the mode:

- An alert tone sounds.
- The yellow LED turns off.

Home Channel Reminder

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

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

- The Home Channel Reminder tone and announcement sound.

Muting the Home Channel Reminder

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

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

Setting New Home Channels

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

Press the **Reset Home Channel** programmable button to set the current channel as the new Home Channel.

Remote Monitor

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

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

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

Initiating Remote Monitor

Follow the procedure to initiate Remote Monitor on your radio.

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

2 Wait for acknowledgment.

If successful:

- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

Scan Lists

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

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

NOTICE:
This feature is not applicable in Capacity Plus.

Scan

Your radio cycles through the programmed scan list for the current channel looking for voice activity when you start a scan.

NOTICE:
This feature is not applicable in Capacity Plus.

The LED blinks yellow.

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 which is also true for the reverse.

There are two ways of initiating scan:
Main Channel Scan (Manual)
Your radio scans all the channels or groups in your scan list. On entering scan, your radio may, depending on the settings, automatically start on the last scanned active

Send Feedback

channel or group, or on the channel where scan was initiated.

Auto Scan (Automatic)

Your radio automatically starts scanning when you select a channel or group that has Auto Scan enabled.

Turning Scan On or Off

Follow the procedure to turn scan on or off on your radio.

Do one of the following:

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

- Turn the Channel Selector Knob to select a channel programmed with Auto Scan enabled.

If scan is enabled:

- The yellow LED blinks.

- A positive indicator tone sounds.

If scan is disabled:

- The LED turns off.

- A negative indicator tone sounds.

Responding to Transmissions During Scanning

During scanning, your radio stops on a channel or group where activity is detected. The radio stays on that channel for a programmed duration known as hang time. Follow the procedure to respond to transmissions during scanning on your radio.

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

    The green LED lights up.

2   Do one of the following:

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

- Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

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

The radio returns to scanning other channels or groups if you do not respond within the hang time.

Deleting Nuisance Channels

If a channel continually generates unwanted calls or noise, termed as Nuisance Channel, you can temporarily remove the unwanted channel from the scan list. This capability does not apply to the channel designated as the Selected Channel. Follow the procedure to delete nuisance channels on your radio.

1 When your radio locks on to an unwanted or nuisance channel, press the programmed **Nuisance Channel Delete** button until you hear a tone.

2 Release the **Nuisance Channel Delete** button.

The nuisance channel is deleted.

Restoring Nuisance Channels

Follow the procedure to restore nuisance channels on your radio.

Do one of the following:

- Turn the radio off and then power it on again.
- Change the channel using the **Channel Selector Knob**.

Vote Scan 🔴

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

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

During a vote scan, the yellow LED blinks.

Follow the same procedures as Responding to Transmissions During Scanning on page 143 to respond to a transmission during a vote scan.

Call Indicator Settings

Selecting a Ring Alert Type

✏️ **NOTICE:**
The programmed **Ring Alert Type** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

You can program the radio calls to one predetermined vibrate call.

The radio vibrates once if it is a momentary ring style. The radio vibrates repetitively if it is a repetitive ring style. When set to Ring and Vibrate, the radio sounds a specific ring tone if there is any incoming radio transaction (for example, Call Alert or Message). It sounds like a good key tone or missed call.

For radios with batteries that support the vibrate feature and are attached to a vibrating belt clip, the available Ring Alert Type options are Silent, Ring, Vibrate, and Ring and Vibrate.

For radios with batteries that do not support the vibrate feature and are not attached to a vibrating belt clip, Ring Alert Type is automatically set to Ring. If you press the

programmed **Ring Alert Type** button, a bad key tone sounds, indicating the multiple Ring Alert Type options are disabled.

You can select a Ring Alert Type by performing the following action.

- Press the programmed **Ring Alert Type** button to toggle Voice Announcement or Text-to-Speech, and the radio behavior to the following options.
  - For Silent, Voice Announcement or Text-to-Speech sounds **Ring Alert Type Silent** only.
  - For Ring Only, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio sounds a ring tone.
  - For Vibrate Only, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio vibrates.
  - For Ring and Vibrate, Voice Announcement or Text-to-Speech sounds **Ring Alert Type** and the radio sounds a ring tone and vibrates.

Configuring Vibrate Style

✎ **NOTICE:**
The programmed **Vibrate Style** button is assigned by your dealer or system administrator. Check with your dealer or system administrator to determine how your radio has been programmed.

Vibrate Style is enabled when the Vibrating Belt Clip is attached to the radio with a battery that supports the vibrate feature.

You can configure the vibrate style by performing the following action.

- Press the programmed **Vibrate Style** button to toggle to short, medium, or long option and the radio vibrates accordingly. Voice Announcement or Text-to-Speech sounds **Vibrate Style**.

Escalating Alarm Tone Volume

The radio can be programmed to continually alert, when a radio call remains unanswered. This is done by automatically increasing the alarm tone volume over time. This feature is known as Escalert.

Call Alert Operation

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

This feature is accessible via a programmed **One Touch Access** button.

Responding to Call Alerts

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

When you receive a Call Alert:

- A repetitive tone sounds.
- The yellow LED blinks.

Press the **PTT** button within four seconds to respond with a Private Call.

Making Call Alerts

Follow the procedure to make Call Alerts on your radio.

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

The green LED lights up.

2 Wait for acknowledgment.

If the Call Alert acknowledgment is received, a positive indicator tone sounds.

If the Call Alert acknowledgment is not received, a negative indicator tone sounds.

Mute Mode

Mute Mode provides an option to the user to silence all audio indicators of the radio.

Once Mute Mode feature is initiated, all audio indicators are muted except higher priority features such as Emergency operations.

When Mute Mode is exited, the radio resumes playing ongoing tones and audio transmissions.

> **NOTICE:**
> This is a purchasable feature. Check with your dealer or system administrator for more information.

Turning On Mute Mode

Follow the procedure to turn on Mute Mode.

Do one of the following:

- Access this feature via the programmed **Mute Mode** button.
- Access this feature by placing the radio in a face-down position momentarily.

Depending on radio model, the Face Down feature can be enabled either through the radio menu or by your system administrator. Check with your dealer or system administrator for more information.

> **IMPORTANT:**
> User can only enable either Man Down or Face Down at a time. Both features cannot be enabled together.

> **NOTICE:**
> Face Down feature is applicable to XPR 7350e/XPR 7380e only.

The following occurs when Mute mode is enabled:

- Positive Indicator Tone sounds.

- The red LED light starts blinking and remains blinking until Mute Mode is exited.

- Radio is muted.

- Mute Mode Timer begins counting down the duration that is configured.

Exiting Mute Mode

This feature can be exited automatically once the Mute Mode Timer expires.

> Do one of the following to exit Mute mode manually:
>
> - Press the programmed **Mute Mode** button.
>
> - Press the PTT button on any entry.
>
> - Place the radio in a face-up position momentarily.
>
>   > NOTICE:
>   > Face Down feature is applicable to XPR 7350e/XPR 7380e only.

The following occurs when Mute mode is disabled:

- Negative Indicator Tone sounds.

- The blinking red LED turns off.

- Your radio unmutes and speaker state is restored.

- If the timer has not expired, Mute mode timer is stopped.

> NOTICE:
> Mute Mode is also exited if the user transmits voice or switches to an unprogrammed channel.

Emergency Operation

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

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

Short Press
    Duration between 0.05 seconds and 0.75 seconds.

Long Press
    Duration between 1.00 second and 3.75 seconds.

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

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

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

Your radio supports three Emergency Alarms:

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

In addition, each alarm has the following types:

Regular
Radio transmits an alarm signal and shows audio and/or visual indicators.

Silent
Radio transmits an alarm signal without any audio or visual indicators. Radio receives calls without any sound through the speaker, until the programmed *hot mic* transmission period is over and/or you press the **PTT** button.

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

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

Receiving Emergency Alarms

Follow the procedure to receive Emergency Alarms on your radio.

When you receive an Emergency Alarm:

- A tone sounds.
- The red LED blinks.

NOTICE:
Your radio automatically acknowledges the Emergency Alarm (if enabled).

Exiting Emergency Mode After Receiving the Emergency Alarm

Follow the procedure to exit Emergency mode after receiving Emergency alarm.

Change the channel.Press the **Emergency Off** button.

Sending Emergency Alarms

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

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

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

The green LED lights up.

NOTICE:
If programmed, the Emergency Search tone sounds. This tone is muted when the radio transmits or receives voice, and stops when the radio exits Emergency mode. The Emergency Search tone can be programmed via the CPS.

2 Wait for acknowledgment.

If successful:

- The Emergency tone sounds.
- The green LED blinks.

If unsuccessful after all retries have been exhausted:

- A low-pitched tone sounds.

The radio exits the Emergency Alarm mode.

Sending Emergency Alarms with Call

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

Send Feedback

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

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

The green LED lights up.

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

2 Wait for acknowledgment.

If successful:

- The Emergency tone sounds.
- The green LED blinks.

3 Press the **PTT** button to make the call.

The green LED lights up.

4 Do one of the following:

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

- 🔴 Wait for the **PTT** Sidetone to end and speak clearly into the microphone if enabled.

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

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

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

Sending Emergency Alarms with Voice to Follow 🔵

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

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

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

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

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

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

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

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

The green LED lights up.

2   Once the Emergency tone sounds, speak clearly into the microphone.

The radio automatically stops transmitting when:

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

- The *hot mic* duration expires, if Emergency Cycle Mode is disabled.

Reinitiating Emergency Mode

This feature is only applicable to the radio sending the Emergency Alarm. Follow the procedure to reinitiate Emergency mode on your radio.

Do one of the following:

- Change the channel while the radio is in Emergency mode.
  The radio exits the Emergency mode, and reinitiates Emergency, if Emergency Alarm is enabled on the new channel.

- Press the programmed **Emergency On** button during an Emergency initiation or transmission state.
  The radio exits this state, and reinitiates Emergency.

Exiting Emergency Mode

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

Your radio exits Emergency mode when:

- An acknowledgment is received (for Emergency Alarm only).
- All retries to send the alarm have been exhausted.
- Your radio is turned off.

NOTICE:
Your radio does not reinitiate the Emergency mode automatically when it is powered up again.

Follow the procedure to exit Emergency mode on your radio.

Do one of the following:

- Press the programmed **Emergency Off** button.

- Turn off the radio and then, power it on again, if your radio has been programmed to remain on the Emergency Revert channel even after acknowledgment is received.

- Change the channel to a new channel that has no emergency system configured.

Man Down

NOTICE:
Man Down feature is applicable to only XPR 7350e/XPR 7380e.

This feature prompts an emergency to be raised if there is a change in the motion of the radio, such as the tilt of the radio, motion and/or the lack of motion for a predefined time.

Following a change in the motion of the radio for a programmed duration, the radio pre-warns the user via an audio indicator indicating that a change in motion is detected.

If there is still no acknowledgment by the user before the predefined reminder timer expires, the radio initiates an Emergency Alarm or an Emergency Call. You can program the reminder timer via CPS.

Turning the Man Down Feature On or Off

✏️ **NOTICE:**
The programmed **Man Down** button and Man Down settings are assigned via CPS. Check with your dealer or system administrator to determine how your radio has been programmed. If you disable the Man Down feature, the programmed alert tone sounds repeatedly until the Man Down feature is enabled. A device failure tone sounds when the Man Down feature fails while powering up. The device failure tone continues until the radio resumes normal operation.

You can enable or disable this feature by performing the following action.

- Press the programmed **Man Down** button to toggle the feature on or off.

Text Messaging Features ⓜ

Your radio is able to send data, for example a text message to another radio.

The Inbox is capable of storing a maximum of 30 messages.

The radio exits the current screen once the inactivity timer expires. Text messages in the typing screen are automatically saved to the Drafts folder.

Quick Text Messages ⓜ

Your radio supports Quick Text messages as programmed by your dealer.

Sending Quick Text Messages ⓜ

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

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

2 Wait for acknowledgment.

If successful:

- The green LED lights up.
- A positive indicator tone sounds.

If unsuccessful:

- A negative indicator tone sounds.

Privacy ⓜ

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

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

Your radio supports two types of privacy, but only **one** can be assigned to your radio. They are:

- Basic Privacy
- Enhanced Privacy

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

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

On a privacy-enabled channel, your radio is able to receive clear or unscrambled calls, depending on how your radio is programmed. In addition, your radio may play a warning tone or not, depending on how it is programmed.

> **NOTICE:**
> This feature is not applicable in Citizens Band channels that are in the same frequency.

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

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

Turning Privacy On or Off ⓜ

Follow the procedure to turn privacy on or off on your radio.

Press the programmed **Privacy** button.

Lone Worker

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

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

If there is still no acknowledgment by the user before the predefined reminder timer expires, the radio initiates an Emergency Alarm.

Only one of the following Emergency Alarms is assigned to this feature:

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

The radio remains in the emergency state, allowing voice messages to proceed until action is taken. See Emergency Operation on page 148 for more information on ways to exit Emergency.

> **NOTICE:**
> Check with your dealer or system administrator for more information.

Password Lock Features

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

Accessing Radios by Using Passwords

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

1. Enter the current four-digit password.

   - Use the **Channel Selector Knob** to enter the first digit of the password.
   - Press Side Button 1, 2, or 3 to enter each digit of the remaining three digits of the password.

2. Your radio automatically checks the validity of the password.

   If successful, the radio powers up.
   If unsuccessful:

   - You hear a continuous tone. Repeat step 1.
   - After the third attempt, your radio enters into locked state.A tone sounds. The yellow LED

Send Feedback

double blinks. Your radio enters into locked state for 15 minutes.

Unlocking Radios in Locked State

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

1 Power up the radio.

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

2 Wait for 15 minutes.

Your radio responds only to **On/Off** button in locked state.

3 Repeat the steps in Accessing Radios by Using Passwords on page 77 to access the radio.

Auto-Range Transponder System

The Auto-Range Transponder System (ARTS) is an analog-only feature designed to inform you when your radio is out-of-range of other ARTS-equipped radios.

ARTS-equipped radios transmit or receive signals periodically to confirm that they are within range of each other.

Your radio provides indications of states as follows:
First-Time Alert
A tone sounds.

ARTS-in-Range Alert
A tone sounds, if programmed.

ARTS-Out-of-Range Alert
A tone sounds. The red LED rapidly blinks.

NOTICE:
Check with your dealer or system administrator for more information.

Over-the-Air Programming

Your dealer can remotely update your radio via Over-the-Air Programming (OTAP) without physical connection.

Additionally, some settings can also be configured via OTAP.

When your radio undergoes OTAP, the green LED blinks.

When your radio receives high volume data:

- The channel becomes busy.

- A negative tone sounds if you press the **PTT** button.

> **NOTICE:**
> Once the programming is complete, a tone sounds, and your radio restarts (powers off and on again).

Wi-Fi Operation

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

> **NOTICE:**
> This feature is applicable to XPR 7350e/XPR 7380e only.

This feature allows you to setup and connect to a Wi-Fi network. Wi-Fi supports updates for radio firmware, codeplug, and resources such as language packs and voice announcement.

Turning Wi-Fi On or Off

> **NOTICE:**
> This feature is applicable to XPR 7350e/XPR 7380e only.

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

Voice Announcements for the programmed **Wi-Fi On or Off** button can be customized via CPS according to user requirements. Check with your dealer or system administrator for more information.

You can turn on or turn off Wi-Fi by performing the following action.

- Press the programmed **Wi-Fi On or Off** button. Voice Announcement sounds Turning On Wi-Fi or Turning Off Wi-Fi.

Connecting to a Network Access Point

> **NOTICE:**
> This feature is applicable to XPR 7350e/XPR 7380e only.

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

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

Press the programmed **Wi-Fi Status Query** button for the connection status via Voice Announcement. Voice Announcement sounds Wi-Fi is Off, Wi-Fi is On but No Connection, or Wi-Fi is On with Connection.

Voice Announcements for the programmed **Wi-Fi Status Query** button can be customized via CPS according to user requirements. Check with your dealer or system administrator for more information.

Utilities

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

Checking Battery Strength

Follow the procedure to check the battery level of your radio.

Press the programmed **Battery Strength** button.

One of the following occurs:

- The LED lights up solid yellow indicating fair battery capacity.
- The LED lights up solid green indicating full battery capacity.
- The LED blinks red indicating low battery capacity.

Flexible Receive List

Flexible Receive List is a feature that allows you to create and assign members on the receive talkgroup list. Your radio can support a maximum of 16 members in the list. This feature is supported in Capacity Plus.

Turning Flexible Receive List On or Off

Follow the procedure to turn Flexible Receive List on or off.

Press the programmed **Flexible Receive List** button.

If enabled:

- The LED blinks yellow.

- A positive indicator tone sounds.

If disabled:

- The LED turns off.
- A negative indicator tone sounds.

Text-to-Speech

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

This audio indicator can be customized per customer requirements.

Setting Text-to-Speech

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

Press the programmed **Text-to-Speech** button to listen to the received text message.

Turning Acoustic Feedback Suppressor On or Off

The feature allows you to minimize acoustic feedback in received calls. Follow the procedure to turn Acoustic Feedback Suppressor on or off on your radio.

Press the programmed **AF Suppressor** button.

Turning Global Positioning System/Global Navigation Satellite System (GPS/GNSS) On or Off

Global Navigation Satellite System (GNSS) is a satellite navigation system that determines the radio's precise location. GNSS includes Global Positioning System (GPS), Global Navigation Satellite System (GLONASS), and BeiDou Navigation Satellite System (BDS).

NOTICE:
Selected radio models may offer GPS, GLONASS, and BDS. GNSS constellation is configured via CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

Do the following step to toggle GPS/GNSS on or off on your radio.

- Press the programmed **GPS/GNSS** button.

Turning Radio Tones/Alerts On or Off

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

Press the programmed **All Tones/Alerts** button.

One of the following tone sounds:
Positive Indicator Tone
All tones and alerts are turned on.

Negative Indicator Tone
All tones and alerts are turned off.

Power Levels

You can customize the power setting to high or low for each channel.

High
This enables communication with radios located at a considerable distance from you.

Low
This enables communication with radios in closer proximity.

Setting Power Levels

Follow the procedure to set the power levels on your radio.

Press the programmed **Power Level** button.

Voice Operating Transmission

The Voice Operating Transmission (VOX) allows you to initiate a hands-free voice-activated call on a programmed

channel. The radio automatically transmits, for a programmed period, whenever the microphone on the VOX-capable accessory detects voice.

> **NOTICE:**
> This feature is not applicable in Citizens Band channels that are in the same frequency.

You can enable or disable VOX by doing one of the following:

- Press the **PTT** button during radio operation to disable VOX.
- Turn the radio off and then power it on again to enable VOX.
- Change the channel via the **Channel Selector** knob to enable VOX.
- Turn VOX on or off via the programmed **VOX** button.

If the Talk Permit Tone is enabled, use a trigger word to initiate the call. Wait for the Talk Permit Tone to finish before speaking clearly into the microphone. See Turning Talk Permit Tone On or Off for more information.

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

Turning Voice Operating Transmission On or Off

Follow the procedure to turn Voice Operating Transmission (VOX) on or off on your radio.

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

Turning Option Board On or Off

Option board capabilities within each channel can be assigned to programmable buttons. Follow the procedure to turn option board on or off on your radio.

Press the programmed **Option Board** button.

Turning Voice Announcement On or Off

This feature enables the radio to audibly indicate the current zone or channel the user has just assigned, or the programmable button the user has just pressed. This audio indicator can be customized according to customer

requirements. Follow the procedure to turn Voice Announcement on or off on your radio.

> Press the programmed **Voice Announcement** button.
>
> One of the following tone sounds:
> **Positive Indicator Tone**
> All tones and alerts are turned on.
>
> **Negative Indicator Tone**
> All tones and alerts are turned off.

Switching Audio Route between Internal Radio Speaker and Wired Accessory

Follow the procedure to toggle audio routing between internal radio speaker and wired accessory.

You can toggle audio routing between the internal radio speaker and the speaker of a wired accessory with the condition that:

- The wired accessory with speaker is attached.

- The audio is not routed to an external Bluetooth accessory.

> Press the programmed **Audio Toggle** button.

A tone sounds when the audio route has switched.

Powering down the radio or detaching the accessory resets the audio routing to the internal radio speaker.

Turning Intelligent Audio On or Off

Your radio automatically adjusts the audio volume to overcome current background noise in the environment, inclusive of both stationary and non-stationary noise sources. This is a receive-only feature and does not affect transmission audio. Follow the procedure to turn Intelligent Audio on or off on your radio.

Press the programmed **Intelligent Audio** button.

  NOTICE:
  This feature is not applicable during a Bluetooth session.

Turning Trill Enhancement On or Off

You can enable this feature when you are speaking in a language that contains many words with alveolar trill (rolling "R") pronunciations. Follow the procedure to turn Trill Enhancement on or off on your radio.

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

Authorized Accessories List

Antennas

- UHF, 403 – 527MHz, Slim Whip Antenna (PMAE4079_)[4]
- UHF, 403 – 450MHz, Stubby Antenna (PMAE4069_)[4]
- UHF, 440 – 490MHz, Stubby Antenna (PMAE4070_)[4]
- UHF, 470 – 527MHz, Stubby Antenna (PMAE4071_)[4]
- VHF, 144 – 165MHz, Helical Antenna (PMAD4116_)[4]
- VHF, 136 – 155MHz, Helical Antenna (PMAD4117_)[4]
- VHF, 152 – 174MHz, Helical Antenna (PMAD4118_)[4]
- VHF, 136 – 148MHz, Stubby Antenna (PMAD4119_)[4]
- VHF, 146 – 160MHz, Stubby Antenna (PMAD4120_)[4]
- VHF, 160 – 174MHz, Stubby Antenna (PMAD4121)[4]
- VHF, 136 – 174MHz, Whip Antenna 20 cm (PMAD4147_)

- 800/900, 806 – 870MHz, Short Whip Antenna (PMAF4009_)
- 800/900, 896 – 941MHz, Short Whip Antenna (PMAF4010_)
- 800/900, 806 – 870MHz, Whip Antenna (PMAF4011_)[5]
- 800/900, 896 – 941MHz, Whip Antenna (PMAF4012_)[5]

Batteries

- Core NiMH, 1400 mAh Battery (PMNN4412_)
- Core Slim Li-Ion, 1600 mAh Battery (PMNN4406_R)
- IMPRES Li-Ion, 1600 mAh Slim Battery (PMNN4407_R)
- IMPRES Hi-Capacity Li-Ion, 2250 mAh Battery (PMNN4409_R)
- IMPRES Hi-Capacity Li-Ion, 2300 mAh Battery (FM) (NNTN8129_) [6]
- IMPRES Li-Ion, 2700 mAh Battery (PMNN4448_R)
- Battery Li-Ion, IP57 2050 mAh (PMNN4463_) [7]

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[4] Applicable to XPR 7350 only.
[5] Applicable to XPR 7380 only.
[6] Not applicable to XPR 7350e/XPR 7380e

- IMPRES Li-Ion, 2900 mAh TIA4950 HAZLOC IP68 Battery(PMNN4489_) [8]

- IMPRES Slim Li-Ion, 2100 mAh IP68 Battery (PMNN4491_)

- IMPRES Li-Ion, 3000 mAh IP68 Battery, low voltage (PMNN4493_)

- IMPRES Li-Ion, 3000 mAh IP68 Battery for Vibrating Belt Clip (PMNN4488_)

Carry Devices

- 2.5-Inch Replacement Leather Swivel Belt Loop (PMLN5610_)

- 3-Inch Replacement Leather Swivel Belt Loop (PMLN5611_)

- Leather Radio Strap (RLN6486_) [9]

- Leather Radio Strap, Size XL (RLN6487_) [9]

- Anti-Sway Leather Radio Strap (RLN6488_) [9]

- Hard Leather Carry Case with 3-Inch Fixed Belt Loop for Non-Display Radio (PMLN5839_)

- Hard Leather Carry Case with 3-Inch Swivel Belt Loop for Non-Display Radio (PMLN5846_)

- Hard Leather Carry Case with 2.5-Inch Swivel Belt Loop for Non-Display Radio (PMLN5843_)

- Nylon Carry Case with 3-Inch Fixed Belt Loop for Non-Display Radio (PMLN5845_)

- Belt Clip for 2-Inch Belt Width (PMLN4651_)

- Belt Clip for 2.5-Inch Belt Width (PMLN7008_)

- Vibrating Belt Clip for 2.5-Inch Belt Width (PMLN7296_)

Chargers

- Travel Charger Micro USB Fast Rate Fixed-Sprint (EPNN9288_)

- 110 VAC 50/60 HZ US IMPRES Single-Unit Charger (WPLN4243_)

- IMPRES Multi Unit Charger Base Only (WPLN4211_)

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[7] Your radio is compatible with the accessories listed here. Contact your dealer for details.

[8] Applicable to XPR 7350e/XPR 7380e only.

[9] Your radio is compatible with the accessories listed here. Contact your dealer for details.

Send Feedback

- IMPRES Multi Unit Charger US 1-Up Display (WPLN4239_)
- Standard Single-Unit Charger with Power Supply, Linear, 110Vac US Plug (NNTN8226_)
- Standard Single-Unit Charger with Power Supply, Switch-Mode – 21W, NA/LA (NNTN8275_)
- Standard Single-Unit Charger with Power Supply, Linear PRC (NNTN8224_)
- IMPRES Multi-Unit Charger (WPLN4212_)
- IMPRES Multi-Unit Charger with Display Base Only (WPLN4218_)
- IMPRES Multi-Unit Charger with Display (WPLN4219_)
- Core Single-Unit Charger, Base Only (WPLN4225_)
- 110 VAC 50/60 Hz US Core Single-Unit Charger (WPLN4227_)
- LTD Single-Unit Charger IMPRES (SMPS NA/LA) (WPLN4253_)
- Wall Mount Bracket for IMPRES Multi-Unit Charger (NLN7967_) [10]
- IMPRES Single-Unit Charger (WPLN4232_)

- Core Single-Unit Charger, Base Only (NNTN8117_)
- IMPRES Vehicular Charger (NNTN7616_)
- Travel Charger, Rapid Rate with Voltage Regulated Vehicular Charger Adapter, Custom Charger Base, Mounting Bracket, and Coil Cord (NNTN8525_) [10]
- IMPRES Battery Fleet Management Single-Unit Charger Interface Unit (NNTN8045_) [10]
- IMPRES Battery Fleet Management Multi-Unit Charger Interface Unit (NNTN7677_) [10]
- IMPRES Battery Reader (NNTN7392_)
- IMPRES Battery Fleet Management License Key (HKVN4036_)

Earbuds and Earpieces

- Receive-Only Earbud (AARLN4885_)
- 1–Wire Receive-Only Earpiece, Beige (BDN6664_)
- Extra Loud Receive-Only Earpiece, Beige (BDN6665_)
- Earpiece with Volume Control (BDN6666_)
- Earpiece with 3.5 mm threaded plug (BDN6719_)

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[10] Your radio is compatible with the accessories listed here. Contact your dealer for details.

- 1–Wire Receive-Only Earpiece, Black (BDN6726_)
- Extra Loud Receive-Only Earpiece, Black (BDN6727_)
- Receive-Only Earpiece with Volume Control, Black (BDN6728_)
- Earbud, Single Speaker (BDN6781_)
- Receive-Only Earbud (MDRLN4885)
- D-Shell Receive-Only Earpiece (PMLN4620_)
- D-Shell Earset (PMLN5096_)
- IMPRES Temple Transducer with In-line Push-to-Talk (PMLN5101_)
- Ear Receiver with In-line Mic/PTT, MagOne (PMLN5973_)
- Swivel Earpiece with MIC/PTT, MagOne (PMLN5975_)
- Earset with Boom MIC In-line PTT, MagOne (PMLN5976_)
- Earbud with In-line Mic/PTT, MagOne (PMLN6069_)
- Flexible Fit Swivel Earpiece with Boom Mic (PMLN7181_) [11]

- Flexible Fit Swivel Earpiece with Boom Mic, Multipack (PMLN7203_) [11]
- Completely Discreet Earpiece Kit (RLN4922_) [11]
- Receive-Only Earpiece (RLN4941_)
- Replacement Ear Tubes for CommPort Earpiece, Pack of 10 (RLN5037_)
- Receive-Only Noise Surveillance Kit, Black (RLN5313_)
- Receive-Only Noise Surveillance Kit, Beige (RLN5314_)
- 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_)

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[11] Your radio is compatible with the accessories listed here. Contact your dealer for details.

Send Feedback

- Clear EP7-Small Hearing Protectors [Sonic Defenders] Ultra Earplugs, Noise reduction = 28 dB (RLN6511_) [11]

- Clear EP7-Medium Hearing Protectors [Sonic Defenders] Ultra Earplugs, Noise reduction = 28 dB (RLN6512_) [11]

- Clear EP7-Large Hearing Protectors [Sonic Defenders] Ultra Earplugs, Noise reduction = 28 dB (RLN6513_) [11]

- Swivel Earpiece with In-Line Microphone for Bluetooth Accessory Kit Pod, Pack of 3 (RLN6550_) [11]

- 1-Wire Earbud, 29 cm Cord, Black (NNTN8294_)

- 1-Wire Earbud,116 cm Cord, Black (NNTN8295_)

- Wireless Covert Kit, includes two sets of 2-Wire Earbuds (1 Black and 1 White), 1-Wire Earbud (Black), and a 3.5 mm Adapter to plug into any off-the-shelf headphones (NNTN8296_)

- Replacement Ear Tips Kit for Wireless Ear Buds (NNTN8316_)

- Over-the-Ear Receiver for Remote Speaker Microphone (WADN4190_)

- Replacement Ear Seal Cloth Cover (1580376E32)

- Replacement Boom Mic Windscreen (5080548E02)

- Replacement Windscreen O-Ring (3280376E35)

- Wireless Earpiece Maintenance Kit (NTN8821_)

- Ear Straps for CommPort Earpiece (for Secure Attachment to Ear), Pack of 10 (NTN8988_)

- Wireless Neckloop Y-adapter and retention hook for Completely Discreet Kit (NNTN8385_) [11]

Headsets and Headset Accessories

- Ultra-Lite Headset (PMLN5102_)

- Heavy Duty Noise-Canceling Headset (PMLN5275_)

- Lightweight Headset with Boom Mic and PTT, MagOne (PMLN5974_)

- Breeze Headset with Boom MIC and PTT, MagOne (PMLN5979_)

- MT Series Over-the-Head Headset with Nexus connector (PMLN6088_)

- PTT Nexus Adapter for MT Series Headsets (PMLN6095_)

- Business Wireless Accessory Kit (PMLN6463_)

- Next Generation Behind-the-Head Heavy Duty Headset GCAI (PMLN6852_)

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- Next Generation Behind-the-Head Heavy Duty Headset, GCAI TIA 4950 (PMLN6853_)
- Lightweight Headset (RMN5058_)
- Non-Secure Wireless Headset & Push-to-Talk Device with Push-to-Talk Audio, 12-Inch Cable (NNTN8125_)
- Non-Secure Wireless Headset & Push-to-Talk Device with Push-to-Talk Audio, 9.5 in. Cable (NNTN8126_)
- Non-Secure Wireless Push-to-Talk Device (NNTN8127_)
- Push-to-Talk Module, without Charger (NNTN8191_)
- Non-Secure Wireless Headset & Push-to-Talk Device with Push-to-Talk Audio, 12 in. Cable (NNTN8189_)
- Earpiece with 9 in. Cable (for use with Bluetooth POD) (NTN2575_)
- Replacement Earpiece 12 in. Cable (for NNTN8125_) (NTN2572_)
- Earmuff Hygiene Kit, Black Earseals (RLN4923_)
- MT Series Neckband Headset with Nexus connector (RLN6477_)
- MOTOTRBO Bluetooth Accessory Kit with NA Power Supply (RLN6500_)
- Earmuff Hygiene Kit, Gel Sealing (RLN6541_)

- Hygiene Tape for Microphone (RLN6542_)
- Boom Microphone Wind Screen (RLN6543_)
- MT Series Hard Hat Attached Headset with Nexus connector (RMN4051_)
- TacticalPro Series Over-The-Head Headset with Nexus Connector (RMN4052_)
- TacticalPro Series Hard Hat Headset with Nexus Connector (RMN4053_)
- HT Series Listen Only Over-the-Head Headset with 3.5 mm non-threaded connector (RMN4055_)
- HT Series Listen Only Over-the-Head Headset with 3.5 mm threaded connector (RMN4056_)
- HT Series Listen Only Hard Hat Headset with 3.5 mm threaded connector (RMN4057_)
- Metal Boom with Microphone (RMN5131_)
- HT Series Listen Only Neckband Headset with 3.5 mm non-threaded connector (RMN5132_)
- HT Series Listen Only Hard Hat Headset with 3.5 mm non-threaded connector (RMN5133_)
- TacticalPro Series Neckband Headset with Nexus Connector (RMN5135_)

- MT Series Over-the-Head Headset, direct radio connect (RMN5137_)

- MT Series Neckband Headset, direct radio connect (RMN5138_)

- MT Series Hard Hat Attached Headset, direct radio connect (RMN5139_)

Remote Speaker Microphones

- Remote Speaker Microphone (PMMN4024_)

- IMPRES Remote Speaker Microphone (PMMN4025_)

- Remote Speaker Microphone, Submersible (IP57) (PMMN4040_)

- IMPRES Remote Speaker Microphone, with Volume, IP57 (PMMN4046_)

- IMPRES Remote Speaker Microphone, with Earjack, Noise Canceling (PMMN4050_)

- 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_, PMMN4046_, PMMN4050_) (RLN6075_)

- IMPRES Remote Speaker Microphone, IP57 (NNTN8382_)

- IMPRES Remote Speaker Microphone, with Earjack (NNTN8383_)

- IMPRES Remote Speaker Microphone Large, APX IP68 Delta T (GCAI) (PMMN4083_) [12]

- Operational Critical Wireless Remote Speaker Microphone (PMMN4096_)

- IMPRES Noise Cancelling Remote Speaker Microphone, 3.5 mm Jack, Long Coil Cable, with Nexus Connector (PMMN4102_)

- IMPRES Noise Cancelling Remote Speaker Microphone, 3.5 mm Jack, Long Coil Cable, with Nexus Connector (Green Housing) (PMMN4102B_GRN)

- IMPRES OMNI Remote Speaker Microphone, 3.5 mm Jack, Long Coil Cable, with Nexus Connector (PMMN4113_)

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[12] Your radio is compatible with the accessories listed here. Contact your dealer for details.

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Surveillance Accessories

- Receive Only Surveillance Kit, Black (Single Wire) (PMLN6125_)
- Receive Only Surveillance Kit, Beige (Single Wire) (PMLN6126_)
- Surveillance Low Noise Kit (RLN5886_)
- Surveillance High Noise Kit (RLN5887_)
- IMPRES 2-Wire Surveillance Kit, Black (PMLN6127_)
- IMPRES 2-Wire Surveillance Kit, Beige (PMLN6128_)
- IMPRES 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Black (RLN5882_)
- IMPRES 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Black (PMLN6129_)
- IMPRES 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Beige (PMLN6130_)
- IMPRES 3-Wire Surveillance, Black (PMLN5097_)
- IMPRES 3-Wire Surveillance, Beige (PMLN5106_)
- IMPRES 3–Wire Surveillance with Clear, Comfortable Acoustic Tube, Black (PMLN6123_)
- IMPRES 3–Wire Surveillance with Clear, Comfortable Acoustic Tube, Beige (PMLN6124_)
- Replacement Foam Plugs, Pack of 50 (For Use with RLN5886_) (RLN6281_)
- Replacement Ear Tips, Clear, Pack of 50 (For Use with RLN5887_) (RLN6282_)
- 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_)
- IMPRES 3-Wire Surveillance with Acoustic Tube, Black (PMLN5111_)
- IMPRES 3-Wire Surveillance with Acoustic Tube, Beige (PMLN5112_)

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- 1-Wire Surveillance Kit with Translucent Tube, Black (NNTN8459_)
- Operations Critical Wireless 1-Wire Surveillance Kit with translucent tube (PMLN7052_) [13]

Miscellaneous Accessories

- Universal Chest Pack (HLN6602_)
- Waterproof Bag, Includes Large Carry Strap (HLN9985_)
- Shoulder Strap (Attaches to D-Ring on Carry Case) (NTN5243_)
- Small Clip, Epaulet Strap (RLN4295_)
- Break-A-Way Chest Pack (RLN4570_)
- Universal Radio Pack and Utility Case (Fanny Pack) (RLN4815_)
- Replacement Strap for RLN4570_ and HLN6602_ Chest Packs (1505596Z02)
- Universal RadioPAK Extension Belt (4280384F89)
- Belt (4200865599)

- Tactical Remote Body Push-to-Talk (PMLN6767_)
- Push-to-Talk Interface Module (PMLN6827_)
- Tactical Remote Ring Push-to-Talk (PMLN6830_)
- Tactical Heavy Duty Temple Transducer with Noise Cancelling Boom Microphone (PMLN6833_)
- DMR Portable Programming Cable (PMKN4012_)
- Test and Alignment Cable for programming (PMKN4013_)
- DMR Portable Telemetry Cable (PMKN4040_)
- IMPRES Portable Non PC Adapter (PMKN4071_)
- TTR and Programming Cable for test alignment (PMKN4126_)
- Screen Protector, Clear (single pack contains one unit) (AY000267A01_) [14]

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[13] Your radio is compatible with the accessories listed here. Contact your dealer for details.
[14] Your radio is compatible with the accessories listed here. Contact your dealer for details.

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Maritime Radio Use in the VHF Frequency Range

Special Channel Assignments

Emergency Channel

If you are in imminent and grave danger at sea and require emergency assistance, use VHF Channel 16 to send a distress call to nearby vessels and the United States Coast Guard. Transmit the following information, in this order:

1 "MAYDAY, MAYDAY, MAYDAY."

2 "THIS IS _____, CALL SIGN _____." State the name of the vessel in distress 3 times, followed by the call sign or other identification of the vessel, stated 3 times.

3 Repeat "MAYDAY" and the name of the vessel.

4 "WE ARE LOCATED AT _____." State the position of the vessel in distress, using any information that will help responders to locate you, e.g.:

- latitude and longitude

- bearing (state whether you are using true or magnetic north)

- distance to a well-known landmark

- vessel course, speed or destination

5 State the nature of the distress.

6 Specify what kind of assistance you need.

7 State the number of persons on board and the number needing medical attention, if any.

8 Mention any other information that would be helpful to responders, such as type of vessel, vessel length and/or tonnage, hull color, etc.

9 "OVER."

10 Wait for a response.

11 If you do not receive an immediate response, remain by the radio and repeat the transmission at intervals until you receive a response. Be prepared to follow any instructions given to you.

Non-Commercial Call Channel

For non-commercial transmissions, such as fishing reports, rendezvous arrangements, repair scheduling, or berthing information, use **VHF Channel 9**.

Operating Frequency Requirements

A radio designated for shipboard use must comply with Federal Communications Commission Rule Part 80 as follows:

- on ships subject to Part II of Title III of the Communications Act, the radio must be capable of operating on the 156.800 MHz frequency.
- on ships subject to the Safety Convention, the radio must be capable of operating:
  - in the simplex mode on the ship station transmitting frequencies specified in the 156.025 – 157.425 MHz frequency band, and
  - in the semiduplex mode on the two frequency channels specified in the table below.

✎ **NOTICE:**
Simplex channels 3, 21, 23, 61, 64, 81, 82, and 83 cannot be lawfully used by the general public in US waters.

Additional information about operating requirements in the Maritime Services can be obtained from the full text of FCC Rule Part 80 and from the US Coast Guard.

Table 1: VHF Marine Channel List

Channel Number	Frequency (MHz)	
	Transmit	Receive
1	156.050	160.650
2	156.100	160.700
*	156.150	160.750
4	156.200	160.800
5	156.250	160.850
6	156.300	–
7	156.350	160.950
8	156.400	–
9	156.450	156.450
10	156.500	156.500
11	156.550	156.550
12	156.600	156.600
13**	156.650	156.650
14	156.700	156.700

Table continued…

Send Feedback

15**	156.750	156.750		63	156.175	160.775
16	156.800	156.800		*	156.225	160.825
17**	156.850	156.850		65	156.275	160.875
18	156.900	161.500		66	156.325	160.925
19	156.950	161.550		67**	156.375	156.375
20	157.000	161.600		68	156.425	156.425
*	157.050	161.650		69	156.475	156.475
22	157.100	161.700		71	156.575	156.575
*	157.150	161.750		72	156.625	–
24	157.200	161.800		73	156.675	156.675
25	157.250	161.850		74	156.725	156.725
26	157.300	161.900		75	***	***
27	157.350	161.950		76	***	***
28	157.400	162.000		77**	156.875	–
60	156.025	160.625		78	156.925	161.525
*	156.075	160.675		79	156.975	161.575
62	156.125	160.725		80	157.025	161.625

Table continued…   *Table continued…*

*	157.075	161.675
*	157.125	161.725
*	157.175	161.775
84	157.225	161.825
85	157.275	161.875
86	157.325	161.925
87	157.375	161.975
88	157.425	162.025

> **NOTICE:**
> * *Simplex channels 3, 21, 23, 61, 64, 81, 82, and 83 cannot be **lawfully used** by the general public in US waters.*
>
> ** *Low power (1 W) only.*
>
> *** *Guard band.*

> **NOTICE:**
> A – in the Receive column indicates that the channel is transmit only.

Declaration of Compliance for the Use of Distress and Safety Frequencies

The radio equipment does not employ a modulation other than the internationally adopted modulation for maritime use when it operates on the distress and safety frequencies specified in RSS-182 Section 7.3.

Technical Parameters for Interfacing External Data Sources

	RS232	USB	SB9600
Input Voltage (Volts Peak-to-peak)	18V	3.6V	5V
Max Data Rate	28 kb/s	12 Mb/s	9.6 kb/s
Impedance	5000 ohm	90 ohm	120 ohm

Send Feedback

Batteries and Chargers Warranty

The Workmanship Warranty

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

All MOTOTRBO Batteries	24 Months
IMPRES Chargers (Single-Unit and Multi-Unit, Non-Display)	24 Months
IMPRES Chargers (Multi-Unit with Display)	12 Months

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

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Limited Warranty

MOTOROLA COMMUNICATION PRODUCTS

I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

MOTOROLA SOLUTIONS, INC. ("MOTOROLA") warrants the MOTOROLA manufactured Communication Products listed below ("Product") against defects in material and workmanship under normal use and service for a period of time from the date of purchase as scheduled below:

XPR Series Digital Portable Radios	24 Months
Product Accessories (Excluding Batteries and Chargers)	12 Months

MOTOROLA, at its option, will at no charge either repair the Product (with new or reconditioned parts), replace it (with a new or reconditioned Product), or refund the

purchase price of the Product during the warranty period provided it is returned in accordance with the terms of this warranty. Replaced parts or boards are warranted for the balance of the original applicable warranty period. All replaced parts of Product shall become the property of MOTOROLA.

This express limited warranty is extended by MOTOROLA to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by MOTOROLA. MOTOROLA assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of MOTOROLA.

Unless made in a separate agreement between MOTOROLA and the original end user purchaser, MOTOROLA does not warrant the installation, maintenance or service of the Product.

MOTOROLA cannot be responsible in any way for any ancillary equipment not furnished by MOTOROLA which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. Because each system which may use the Product is unique, MOTOROLA disclaims liability for range,

coverage, or operation of the system as a whole under this warranty.

II. GENERAL PROVISIONS

This warranty sets forth the full extent of MOTOROLA'S responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at MOTOROLA's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

III. STATE LAW RIGHTS:

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION OR EXCLUSIONS MAY NOT APPLY.

This warranty gives specific legal rights, and there may be other rights which may vary from state to state.

IV. HOW TO GET WARRANTY SERVICE

You must provide proof of purchase (bearing the date of purchase and Product item serial number) in order to receive warranty service and, also, deliver or send the Product item, transportation and insurance prepaid, to an authorized warranty service location. Warranty service will be provided by MOTOROLA through one of its authorized warranty service locations. If you first contact the company which sold you the Product (e.g., dealer or communication service provider), it can facilitate your obtaining warranty service. You can also call MOTOROLA at 1-800-927-2744 US/Canada.

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V. WHAT THIS WARRANTY DOES NOT COVER

1 Defects or damage resulting from use of the Product in other than its normal and customary manner.

2 Defects or damage from misuse, accident, water, or neglect.

3 Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.

4 Breakage or damage to antennas unless caused directly by defects in material workmanship.

5 A Product subjected to unauthorized Product modifications, disassembles or repairs (including, without limitation, the addition to the Product of non-MOTOROLA supplied equipment) which adversely affect performance of the Product or interfere with MOTOROLA's normal warranty inspection and testing of the Product to verify any warranty claim.

6 Product which has had the serial number removed or made illegible.

7 Rechargeable batteries if:

- any of the seals on the battery enclosure of cells are broken or show evidence of tampering.

- the damage or defect is caused by charging or using the battery in equipment or service other than the Product for which it is specified.

8 Freight costs to the repair depot.

9 A Product which, due to illegal or unauthorized alteration of the software/firmware in the Product, does not function in accordance with MOTOROLA's published specifications or the FCC certification labeling in effect for the Product at the time the Product was initially distributed from MOTOROLA.

10 Scratches or other cosmetic damage to Product surfaces that does not affect the operation of the Product.

11 Normal and customary wear and tear.

VI. PATENT AND SOFTWARE PROVISIONS

MOTOROLA will defend, at its own expense, any suit brought against the end user purchaser to the extent that it is based on a claim that the Product or parts infringe a United States patent, and MOTOROLA will pay those costs

and damages finally awarded against the end user purchaser in any such suit which are attributable to any such claim, but such defense and payments are conditioned on the following:

1 MOTOROLA will be notified promptly in writing by such purchaser of any notice of such claim,

2 MOTOROLA will have sole control of the defense of such suit and all negotiations for its settlement or compromise, and

3 Should the Product or parts become, or in MOTOROLA's opinion be likely to become, the subject of a claim of infringement of a United States patent, that such purchaser will permit MOTOROLA, at its option and expense, either to procure for such purchaser the right to continue using the Product or parts or to replace or modify the same so that it becomes non-infringing or to grant such purchaser a credit for the Product or parts as depreciated and accept its return. The depreciation will be an equal amount per year over the lifetime of the Product or parts as established by MOTOROLA.

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VII. GOVERNING LAW

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