



PROFESSIONAL DIGITAL TWO-WAY RADIO

**MOTOTRBO™**

**XPR 3300/XPR 3300e**

**NON-KEYPAD PORTABLE RADIO**

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**USER GUIDE**

en-US

fr-CA

**SEPTEMBER 2021**

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## Supplier's Declaration of Conformity

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### Supplier's Declaration of Conformity

Per FCC CFR 47 Part 2 Section 2.1077(a)



Responsible Party

Name: Motorola Solutions, Inc.

Address: 2000 Progress Pkwy, Schaumburg, IL. 60196

Phone Number: 1-800-927-2744

Hereby declares that the product:

Model Name: **XPR 3300/XPR 3300e**

conforms to the following regulations:

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

### **Class B Digital Device**

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

**NOTE:**

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

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

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

For country code selection usage (WLAN devices)

**NOTE:**

The country code selection is for non-US model only and is not available to all US models. Per FCC regulation, all Wi-Fi products marketed in the US must be fixed to US operation channels only.

## Important Safety Information

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



**CAUTION:**

**This radio is restricted to Occupational use only.** Before using the radio, read the RF Energy Exposure and Product Safety Guide that comes with the radio. This guide contains operating instructions for safe usage, RF energy awareness, and control for compliance with applicable standards and regulations.

*Any modification to this device, not expressly authorized by Motorola Solutions, 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 Solutions-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.*

## Notice to Users (FCC)

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This device complies with Part 15 of the FCC rules 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 Solutions, could void the authority of the user to operate this equipment.

## Notice to Users (Industry Canada)

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The operation of your Motorola Solutions radio is subject to the Radiocommunications Act and must comply with rules and regulations of the Federal Government's department of Industry Canada. Industry Canada requires that all operators using Private Land Mobile frequencies obtain a radio license before operating their equipment.

## Software Version

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All the features described in the following sections are supported by the software version **R02.21.01.0000** or later.

Contact your dealer or administrator for more information.

# Intellectual Property and Regulatory Notices

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## European Union (EU) and United Kingdom (UK) Waste of Electrical and Electronic Equipment (WEEE) Directive



The European Union's WEEE directive and the UK's WEEE regulation require that products sold into EU countries and the UK must have the crossed-out wheeled bin label on the product (or the package in some cases).

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

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

## **Disclaimer**

Please note that certain features, facilities, and capabilities described in this document may not be applicable to or licensed for use on a specific system, or may be dependent upon the characteristics of a specific mobile subscriber unit or configuration of certain parameters. Please refer to your Motorola Solutions contact for further information.

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

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

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

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

# Radio Care

This section describes the basic handling precaution of the radio.

**Table 1: IP Specification**

IP Specification	Description
IP67	Allows your radio to withstand adverse field conditions such as being submersed in water between 15 cm and 1 m for 30 minutes or dust tight for 2–8 hours.



**CAUTION:**

Do not disassemble your 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 your radio has been submersed in water, shake your 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 your radio's battery contact area has been exposed to water, clean and dry battery contacts on both your radio and the battery before attaching the battery to radio. The residual water could short-circuit the radio.
- If your radio has been submersed in a corrosive substance (for example, saltwater), rinse radio and battery in fresh water then dry radio and battery.
- To clean the exterior surfaces of your radio, use a diluted solution of mild dishwashing detergent and fresh water (for example, 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 radio and your 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.
- Your radio with antenna attached properly is designed to be submersible to a maximum depth of 1 m (3.28 ft) and a maximum submersion time of 30 minutes. Exceeding either maximum limit or use without antenna may result in damage to your radio.

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

## Introduction

---

This user guide covers the operation of your 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 that helps promote longer radio life?

### 1.1

## 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.

## Getting Started

---

Getting Started provides instructions to prepare your radio for use.

### 2.1

## Charging the Battery

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

Turn off your radio when charging.

- To comply with warranty terms and avoid damage, charge the battery using a Motorola Solutions authorized charger as described in the charger user guide.
- Charge a new battery 14 to 16 hours before initial use for best performance.

Batteries charge best at room temperature.

- 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

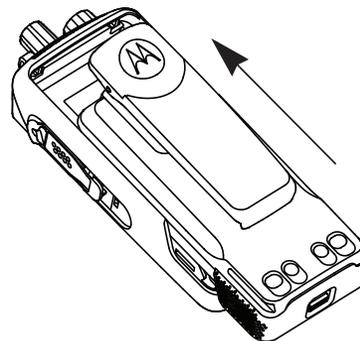
warranty extension over the standard Motorola Solutions Premium battery warranty duration.

### 2.2

## Attaching the Battery

Follow the procedure to attach the battery to your radio.

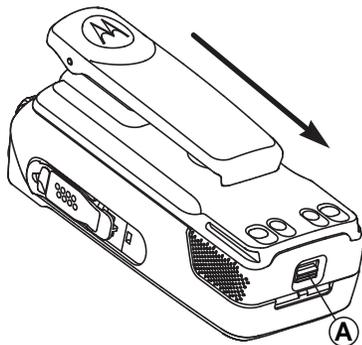
- 1 Align the battery with the rails on the back of the radio.
- 
- 2 Press the battery firmly, and slide upwards until the latch snaps into place.



3 Slide battery latch into lock position.

---

4 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.



**NOTE:**

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 blinks in red, and the Voice Announcement/Text-to-Speech sounds Wrong Battery if the Voice Announcement/Text-to-Speech is loaded by using CPS or RM.

When the radio is attached with a non-supported battery, an alert tone sounds.

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 in CPS to alert you if this battery mismatch occurs. Check with your dealer or system administrator to determine how your radio has been programmed.

If your radio is attached with a non-supported or wrong battery, immediately swap with the correct battery.

## 2.3

### Attaching the Antenna

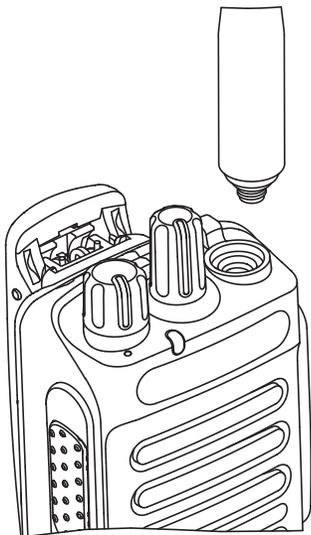
Turn off your radio.

Set the antenna in the receptacle and turn clockwise.



**NOTE:**

To protect best against water and dust, ensure that antenna is tightly fitted.



**NOTE:**

To remove the antenna, turn the antenna counterclockwise.



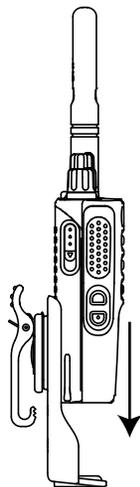
**CAUTION:**

To prevent damages, replace the faulty antenna with only MOTOTRBO antennas.

## 2.4

### Attaching the Carry Holster

- 1 Align the rails on the carry holster with the grooves on the battery.
- 2 Press downwards until you hear a click.



**Figure 1: Attaching the Carry Holster**

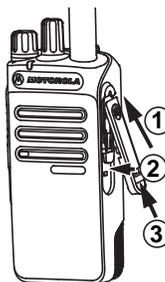
---

## Attaching the Universal Connector Cover

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

Replace the universal connector cover or 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.



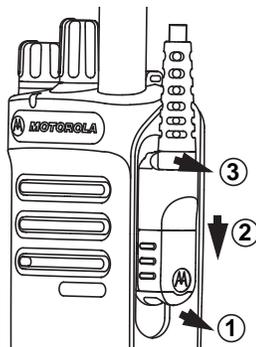
- 3 Secure the dust cover to the radio by pushing the latch upwards.
- 

## 2.6

### Attaching the Accessory Connector

The accessory connector is to be secured to the universal connector on the antenna side of the radio. Follow the procedure to attach the accessory connector to your radio.

- 1 Insert the slanted end into the slots above the universal connector.
  - 2 Push connector upward.
  - 3 Press downwards on the accessory connector until you hear a click.
- 



## 2.7

### Turning the Radio On

Rotate the **On/Off/Volume Control** knob clockwise until it clicks.

---

If successful, your radio shows the following indications:

- A tone sounds.



#### **NOTE:**

If the Tones/Alerts function is disabled, there is no tone upon powering up.

- The green LED lights up.

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

## 2.8

### Turning the Radio Off

Rotate the **On/Off/Volume Control** knob counterclockwise until it clicks.

---

## 2.9

### Adjusting the Volume

To adjust the volume of your radio, perform one of the following actions:

- To increase the volume, turn the **On/Off/Volume Control** knob clockwise.
- To decrease the volume, turn the **On/Off/Volume Control** knob counterclockwise.



#### **NOTE:**

Your radio can be programmed to have a minimum volume offset where the volume level cannot be lowered past the programmed minimum volume.

---

## 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 Push-to-Talk (PTT) Button
- 5 Side Button 1<sup>1</sup>
- 6 Side Button 2<sup>1</sup>
- 7 Microphone
- 8 Speaker
- 9 Universal Connector for Accessories
- 10 Antenna

- 6 Side Button 2<sup>1</sup>
- 7 Microphone
- 8 Speaker
- 9 Universal Connector for Accessories
- 10 Antenna

### 3.1

## Programmable Buttons

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

### Short press

Pressing and releasing rapidly.

### Long press

Pressing and holding for the programmed duration.



### NOTE:

See [Emergency Operation on page 56](#) for more information on the programmed duration of the **Emergency** button.

<sup>1</sup> These buttons are programmable.

## 3.1.1

## 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 a wired accessory.

### Battery Strength

Indicates battery strength by using the LED Indicator.

### 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 <sup>2</sup>

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<sup>2</sup>

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, a Quick Text message, or Home Revert.

### Permanent Monitor<sup>2</sup>

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

### Phone Exit

Ends a Phone Call.

---

<sup>2</sup> Not applicable in Capacity Plus.

### **Privacy**

Toggles privacy on or off.

### **Repeater/Talkaround<sup>2</sup>**

Toggles between using a repeater and communicating directly with another radio.

### **Reset Home Channel**

Sets a new home channel.

### **Silence Home Channel Reminder**

Mutes the Home Channel Reminder.

### **Scan** <sup>3</sup>

Toggles scan on or off.

### **Site Lock<sup>2</sup>**

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

### **Transmit Interrupt Remote Dekey**

Stops an ongoing interruptible call to free the channel.

### **Trill Enhancement**

Toggles trill enhancement on or off.

### **Voice Announcement On/Off**

Toggles voice announcement on or off.

### **Voice Operating Transmission (VOX)**

Toggles VOX on or off.

#### 3.1.2

## **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.

#### 3.2

## **Push-To-Talk Button**

The Push-to-Talk (**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.

---

<sup>3</sup> Not applicable in Capacity Plus–Single-Site.

- While a call is not in progress, the **PTT** button is used to make a new call (see [Calls on page 34](#)).

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

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

 If the Channel Free Indication feature is enabled on your radio (programmed by your dealer), you hear a short alert tone the moment the target radio (the radio that is receiving your call) releases the **PTT** button, indicating the channel is free for you to respond.

 You hear a continuous Talk Prohibit Tone if your call is interrupted. You should release the **PTT** button if you hear a continuous Talk Prohibit Tone.

### 3.3

## Conventional Analog and Digital Modes

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

### 1 : Channel Selector Knob

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.



#### NOTE:

Your radio also switches between digital and analog modes during a dual mode scan. See [Scan on page 50](#) for more information.

### 3.4

## 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.



**NOTE:**

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

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



**NOTE:**

You cannot manually add or delete an entry in the roam list. Contact your dealer for more information.

### 3.5

## 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 by using 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.

### 3.6

## 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 with an 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 repeater of the new site 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 RSSI value.

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

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

**NOTE:**

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

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

# Status Indicators

---

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

## 4.1

### LED Indicators

LED indicators show the operational status of your radio.

#### **Blinking Red**

Radio is indicating a battery mismatch.<sup>4</sup>

Radio has failed the self-test upon powering up.

Radio is receiving 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.

Radio is sending a Call Alert or an emergency transmission.

#### **Blinking Green**

Radio is receiving a call or data.

Radio is retrieving Over-the-Air Programming transmissions.

Radio is detecting activity over the air.



#### **NOTE:**

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

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.

#### **Blinking Yellow**

Radio is scanning for activity.

Radio has yet to respond to a Call Alert.

---

<sup>4</sup> Only applicable to models with the latest software and hardware.

Radio has Flexible Receive List enabled.  
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.

4.2  
**Tones**

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

- High Pitched Tone
- Low Pitched Tone

4.2.1

**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 once for a short duration set by the radio.

4.2.2

## 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

# 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 16 channels and 1 zones, with a maximum of 16 channels per zone.

Each channel can be programmed with different features and/or support different groups of users.

## 5.1

### 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.



#### **NOTE:**

For all Non-keypad radio, you are recommended to enable Voice Announcement feature for selecting zone. The Voice Announcement feature can only be enabled through CPS.

---

## 5.2

### Selecting Channels

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

Turn the **Channel Selector** Knob to select the channel, subscriber ID, or group ID once the required zone is displayed (if you have multiple zones in your radio).

---

# 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.

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.

### 6.1

## 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.

### 6.1.1

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

---
- 4  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.

---

## 6.1.2

## Responding to Group Calls

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

---

## 6.2

## 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.

## 6.2.1

## Making Private Calls

Your radio must be programmed to initiate a Private Call. If this feature is not enabled, a negative indicator tone sounds when you initiate the call. 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.
- 

- 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.

---

## 6.2.2

## 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.

---

## 6.3

# 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.

### 6.3.1

## 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.



### NOTE:

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

### 6.3.2

## 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.

Users on the channel cannot respond to an All Call.

---

### 6.4

## 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.

### 6.4.1

## 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.

---

#### 6.4.2

### 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.

---

#### 6.5

### Initiating Transmit Interrupt

An ongoing call is interrupted, when you perform the following actions:

- Press the **Voice PTT** button.
  - Press the **Emergency** button.
  - Perform data transmission.
- 

#### 6.6

### Broadcast Voice Calls

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

The Broadcast Voice Call feature allows only the call initiating user to transmit to the talkgroup, while the recipients of the call cannot respond (no Call Hang Time).

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

### 6.6.1

## Making Broadcast Voice Calls

Program your radio to make Broadcast Voice Calls.

**1** Select a channel with the active group alias or ID.

---

**2** Do one of the following:

- Select a channel with the active group alias or ID.
  - Press the programmed **One Touch Access** button.
- 

**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.



### NOTE:

Users on the channel cannot respond to Broadcast Voice Calls.

---

The radio returns to the previous menu after the call ends.

### 6.6.2

## Receiving Broadcast Voice Calls

When you receive a Broadcast Voice Call:

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

A Broadcast Voice Call does not wait for a predetermined period before ending.

You cannot respond to a Broadcast Voice Call.



**NOTE:**

The radio stops receiving the Broadcast Voice Call if you switch to a different channel while receiving the call. You **cannot** continue with any programmed button functions until the end of the Broadcast Voice Call.

## 6.7

### Unaddressed Calls

An Unaddressed Call is a group call to one of the 16 predefined group IDs.

This feature is configured using CPS-RM. A contact for one of the predefined IDs is required to initiate and/or receive an Unaddressed Call. Check with your dealer or system administrator for more information.

#### 6.7.1

### Making Unaddressed Calls

- 1 Select a channel with the active group alias or ID.

---

- 2 Do one of the following:

- Select a channel with the active group alias or ID.
  - Press the programmed **One Touch Access** button.
- 

- 3 Press the **PTT** button to make the call.  
The green LED lights up.
- 

- 4 Release the **PTT** button to listen.  
The green LED lights up when the target radio responds. A momentary tone sounds.
- 

- 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 that 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.

---

#### 6.7.2

### Responding to Unaddressed Calls

When you receive an Unaddressed Call:

- The green LED blinks.
- A momentary tone sounds.
- 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.

---

## 6.8

### Open Voice Channel Mode (OVCM)

An Open Voice Channel Mode (OVCM) allows a radio that is not preconfigured to work in a particular system to both receive and transmit during a group or individual call.

The OVCM group call also supports broadcast calls. Program your radio to use this feature. Check with your dealer or system administrator for more information.

#### 6.8.1

### Making OVCM Calls

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

**1** Select a channel with the active group alias or ID.

---

**2** Do one of the following:

- Select a channel with the active group alias or ID.
- Press the programmed **One Touch Access** button.

---

### 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.

## 6.8.2

### Responding to OVCM Calls

When you receive an OVCM Call:

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



#### **NOTE:**

Recipient users are not allowed to Talkback during a Broadcast Call. If the **PTT** button is pressed during a Broadcast Call, the Talkback Prohibit Tone sounds momentarily.

### 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.

---

# Advanced Features

---

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

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

## 7.1

### Talkaround

This feature allows you to continue communicating when your repeater is non-operational, or when your radio is out of range from the repeater but within the talk range of other radios.

The talkaround setting is retained even after powering down.

#### 7.1.1

### 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.

---

## 7.2

### Monitor Feature

The feature allows you to remotely activate the microphone of a target radio. You can use this feature to monitor any audible activity surrounding the target radio.

#### 7.2.1

### Monitoring Channels

Follow the procedure to monitor channels.

- 1 Long press the programmed **Monitor** button.  
If the channel is in use:
  - You hear radio activity or total silence.

- The yellow LED lights up.

If the monitored channel is free, you hear a "white noise".

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

### 7.2.2

## Permanent Monitor

The Permanent Monitor feature is used to continuously monitor a selected channel for activity.

### 7.2.2.1

## 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.

### 7.3

## 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 through 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.

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

- Return to the home channel.
- Mute the reminder temporarily using the programmable button.
- Set a new home channel using the programmable button.

### 7.3.1

## Muting the Home Channel Reminder

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

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

---

### 7.3.2

## 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.

---

## 7.4

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

### 7.4.1

## 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.
-

## 7.5

### Bluetooth®

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



#### NOTE:

This feature is applicable to XPR 3300e Bluetooth and Wi-Fi models only.

Bluetooth operates within a range of 10 m (32ft) line of sight. This is an unobstructed path between your radio and your Bluetooth-enabled device. For high degree of reliability, Motorola Solutions recommends to not separate the radio and the accessory.

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

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.

#### 7.5.1

### 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.

### 7.5.2

## 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.

---

### 7.5.3

## 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.

### 7.5.4

## 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.