

PROFESSIONAL DIGITAL TWO-WAY RADIO

## **MOTOTRBO**<sup>TM</sup>

DP2400/DP2400e NON-KEYPAD PORTABLE RADIO

**USER GUIDE** 

en-US



#### **MARCH 2022**

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## **Supplier's Declaration of Conformity**

#### **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: **DEP 550/DEP 550e** 

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.

## **Software Version**

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.

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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 wheelie bin label on the product (or the package in some cases).

#### **English**

As defined by the WEEE directive, this crossed-out wheelie 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<sup>™</sup> voice coding Technology embodied in this product is protected by intellectual property rights including

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

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

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

## **Radio Care**

This section describes the basic handling precaution of the radio.

**Table 1: IP Specification** 

IP Specifica- tion	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-lon (Li-lon) 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<sup>™</sup> 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

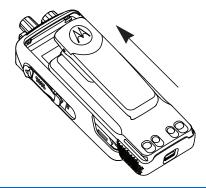
warranty extension over the standard Motorola Solutions Premium battery warranty duration.

2.2

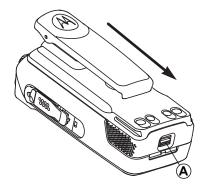
## **Attaching the Battery**

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**

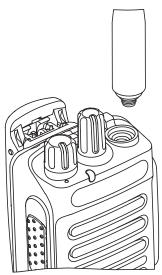
Turn off your radio.

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.



2.5

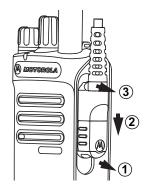
**3** Secure the dust cover to the radio by pushing the latch upwards.

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.

- Insert the slanted end into the slots above the universal connector.
- 2 Push connector upward.
- 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.

#### **English**

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
- LED Indicator
- 4 Push-to-Talk (PTT) Button
- 5 Side Button 1<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 55 for more information on the programmed duration of the **Emergency** button.

<sup>6</sup> Side Button 2<sup>1</sup>

<sup>&</sup>lt;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 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<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>&</sup>lt;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>&</sup>lt;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 31).

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 49 for more information.

## **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>&</sup>lt;sup>4</sup> Only applicable to models with the latest software and hardware.

#### **English**

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 32 channels and 2 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.

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.

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.

## **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.

- 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.
  - Mait 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.

- 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.
  - Mait 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.

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.
  - 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

#### 

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

If Phone Call capability is not enabled in your radio:

- Your radio mutes the call.
- Your radio returns to the previous screen when the call ends.

During the Phone Call, your radio attempts to end the call when:

- You press the One Touch Access button with the deaccess code preconfigured.
- You enter the deaccess code as the input for extra digits.

During channel access, access or deaccess code, or extra digits transmission, your radio responds to the **On/Off**,

**Volume Control**, and **Channel Selector** buttons or knobs only. A tone sounds for every invalid input.



### NOTE:

Check with your dealer or system administrator for more information

6.5.1

## Making Phone Calls

Follow the procedure to make Phone Calls on your radio.

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 (Dual Tone Multi Frequency) 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 respond to the call. Release the PTT button to listen.
- 3 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.
- Repeat this step, or wait for the telephone user to end the call.

6.5.2

## Making Phone Calls with the Programmable Phone Button

Follow the procedure to make a phone call with the programmable phone button.

1 Press the programmed **Phone** button

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

6.5.3

## 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.

Press the **PTT** button to respond to the call. Release the **PTT** button to listen.

6.5.4

## 

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.

Press the **PTT** button to respond to the call. Release the **PTT** button to listen.

6.5.5

## 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.

When you receive a Phone Call as an All 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.

6.6

## **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.

6.7

### **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.

6.7.1

## **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.

6.7.2

## **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.

6.8

### **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.

6.8.1

## **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.

6.8.2

## **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.

6.9

## **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.

6.9.1

## **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.

6.9.2

## **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. There are two types of Remote Monitor:

- Remote Monitor without Authentication
- Remote Monitor with Authentication.

Authenticated Remote Monitor is a purchasable feature. In Authenticated Remote Monitor, verification is required when your radio turns on the microphone of a target radio.

When your radio initiates this feature on a target radio with User Authentication, a passphrase is required. The passphrase is preprogrammed into the target radio through CPS.

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 DEP 550e DEP 550e 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 Bluetoothenabled 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.

### 7.6

### **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.

### 7.7

### Scan

Your radio cycles through the programmed scan list for the current channel looking for voice activity when you start a scan.

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 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.

### 7.7.1

## **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 a scan list.

### 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.

### 7.7.2

## **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.

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 Release the PTT button to listen.

The radio returns to scanning other channels or groups if you do not respond within the hang time.

### 7.7.3

## **Deleting Nuisance Channels**

If a channel continually generates unwanted calls or noise, (termed a "nuisance" channel), you can temporarily remove the unwanted channel from the scan list. This capability does not apply to the channel designated as the Selected Channel. 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 programmed Nuisance Channel Delete button.

The nuisance channel is deleted.

### 7.7.4

## **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**.

7.8

## **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 receives transmissions from that base station.

During a vote scan, the yellow LED blinks.

To respond to a transmission during a vote scan, see Responding to Transmissions During Scanning on page 50.

7.9

## **Call Indicator Settings**

This feature allows you to configure call or text message ringing tones.

### 7.9.1

## **Selecting a Ring Alert Type**



### NOTE:

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 positive indicator 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 Textto-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.

7.9.2

## **Configuring Vibrate Style**



### NOTE:

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 Textto-Speech sounds Vibrate Style.

7.9.3

### **Alarm Tone Volume Escalation**

Your radio can be programmed by your dealer 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.

7.10

## **Call Alert Operation**

Call Alert paging enables you to alert a specific radio user to call you back.

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

7.10.1

## **Responding to Call Alerts**

When you receive a Call Alert:

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

Press the **PTT** button within 4 seconds of receiving a Call Alert page to respond with a Private Call.

7.10.2

## **Making Call Alerts**

Follow the procedure to make Call Alerts on your radio.

- 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.

7.11

## **Mute Mode**

Mute Mode provides an option to silence all audio indicators on your radio.

When Mute Mode is initiated, all audio indicators are muted except higher priority features such as emergency operations. When Mute Mode is exited, your radio resumes playing ongoing tones and audio transmissions.



### **IMPORTANT:**

You can only enable either Face Down or Man Down one at a time. Both features cannot be enabled together.

7.11.1

## **Turning On Mute Mode**

Follow the procedure to turn on Mute Mode.

Access this feature by using the programmed **Mute Mode** button.

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.

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.



### NOTE:

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

7.11.2

### 7.12

## **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.



### NOTE:

If a short press to the **Emergency** button initiates Emergency mode, then a long press to the same enables the radio to exit Emergency mode.

If a long press to the **Emergency** button initiates Emergency mode, then a short press to the same enables the radio to exit Emergency mode.

Your radio supports three Emergency Alarms:

- · Emergency Alarm
- Emergency Alarm with Call
- Emergency Alarm with Voice to Follow <a>®</a>



#### NOTE:

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

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.

### 7.12.1

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

Follow the procedure to send Emergency Alarms on your radio.

Press the programmed Emergency On button.
 The green LED lights up.



### NOTE:

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 through CPS.

2 Wait for acknowledgment.

If successful:

The Emergency tone sounds.

· The red LED blinks.

If unsuccessful after all retries have been exhausted:

· A low-pitched tone sounds.

The radio exits the Emergency Alarm mode.

### 7.12.2

## **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.

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

Press the programmed Emergency On button.
 The green LED lights up.



### NOTE:

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 red 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.
- Mait 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 To exit the Emergency mode once the call ends, press the Emergency Off button.

If you do not press the **Emergency Off** button to exit the Emergency mode, the red LED blinks and the radio stays in Emergency mode.

7.12.3

## **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.



### NOTE:

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

7.12.4

## Sending Emergency Alarms with Voice to Follow ®

- 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.

The red LED blinks. The radio remains in Emergency mode.

7.12.5

## **Receiving Emergency Alarms**

When you receive an Emergency Alarm:

- A tone sounds.
- · The red LED blinks.



### NOTE:

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

To return to home screen, perform the following actions:

- a Press
- **b** Press ▲ or ▼ to Yes.
- c Press ok to select.

The radio returns to the home screen and the display shows the Emergency icon.

### 7.12.6

## **Reinitiating Emergency Mode**

Perform one of the following actions:

 Change the channel while the radio is in Emergency mode.



### NOTF:

You can reinitiate emergency mode only if you enable emergency alarm on the new channel.

 Press the programmed Emergency On button during an emergency initiation or transmission state.

The radio exits the Emergency mode, and reinitiates Emergency.

### 7.12.7

## Exiting Emergency Mode After Sending the Emergency Alarm

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.



### NOTE:

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

Follow the procedure to exit Emergency mode on your radio.

Press the programmed **Emergency Off** button.

7.13

## **Making 5-Tone Calls**

Follow the procedure to make a 5-Tone Call:

- 1 Select the 5-Tone channel.
- 2 Press the PTT button to call the default contact.
- 3 Wait for acknowledgment.

If successful:

A positive indicator tone sounds.

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

If unsuccessful:

A negative indicator tone sounds.

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

7.13.1

## **Receiving 5-Tone Calls**

When you receive a 5-Tone Call:

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

7.13.2

## **Sending 5-Tone Emergency Alarm**

Follow the procedure to send an Emergency Alarm:

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

- The green LED lights up.
- · The Emergency tone sounds.
- **2** The radio exits the Emergency Alarm mode.

7.13.3

## Sending 5-Tone Emergency Alarm with Voice to Follow

Follow the procedure to send an Emergency Alarm on your radio.

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

You see the following:

- The green LED lights up.
- The Emergency tone sounds.
- **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 red LED blinks. The radio remains in Emergency mode.

3 Release the PTT button to listen.

7.13.4

## **Receiving 5-Tone Emergency Alarm**

When you receive an Emergency Alarm:

- A tone sounds.
- The red LED blinks.



### NOTE:

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

7.14

## 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.

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

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 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.

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



### NOTE:

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

7.14.1

## **Turning Privacy On or Off**

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

Press the programmed **Privacy** button.

Press the programmed **Response Inhibit** button.

7.15

## **Response Inhibit**

This feature helps prevent your radio from responding to any incoming transmissions.



### NOTE:

Contact your dealer to determine how your radio has been programmed.

If enabled, your radio does not generate any outgoing transmissions in respond to incoming transmissions, such as Radio Check, Call Alert, Radio Disable, Remote Monitor, Automatic Registration Service (ARS), and responding to Private Messages.

Your radio cannot receive Confirmed Private Calls when this feature is enabled. However, your radio is able to manually send transmission.

7.15.1

## **Turning Response Inhibit On or Off**

Follow the procedure to enable or disable Response Inhibit on your radio.

### If successful:

A positive indicator tone sounds.

### If unsuccessful:

A negative indicator tone sounds.

7.16

### **Lone Worker**

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

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

If there is still no acknowledgment by you 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 55 for more information on ways to exit Emergency.



### NOTE:

Check with your dealer or system administrator for more information.

7.17

### **Password Lock**

You can set a password to restrict access to your radio. Each time you turn on your radio, you are asked to enter the password.

Your radio supports a 4-digit password input.

Your radio is unable to receive calls in locked state.

### 7.17.1

## Accessing the Radio by Using Password

Turn on your radio.

- Enter the four-digit password.
  - a To enter the first digit of the password, use the Channel Selector Knob.
  - **b** To enter each digit of the remaining three digits of the password, press Side Button 1 or 2.
- Your radio automatically checks the validity of the password when you enter the last digit of the password.

If you enter the password correctly, the radio powers up.

If you enter the wrong password after the first and second attempt, your radio shows the following indications:

A continuous tone sounds.

### Repeat step 1.

If you enter the wrong password after the third attempt, your radio shows the following indications:

- A tone sounds.
- The yellow LED double blinks.
- Your radio enters into locked state for 15 minutes.

Wait for the 15-minute locked state timer to end and then repeat step 1.



### NOTE:

If you turn off and turn your radio on again, the 15-minute timer restarts.

7.17.2

## **Unlocking Radios in Locked State**

Your radio is unable to receive calls in locked state. Follow the procedure to unlock your radio in locked state.

Do one of the following:

- If the radio is powered on, wait for 15 minutes and then repeat the steps in Accessing the Radio by Using Password on page 64 to access the radio.
- If the radio is powered off, power up the radio. Your radio restarts the 15-minute timer for locked state.
   A tone sounds. The yellow LED double blinks.

Wait for 15 minutes and then repeat the steps in Accessing the Radio by Using Password on page 64 to access the radio.

7.18

## **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.



#### NOTE:

Check with your dealer or system administrator for more information.

7.19

## Over-the-Air Programming

Your dealer can remotely update your radio through Over-the-Air Programming (OTAP) without any physical

connection. Additionally, some settings can also be configured by using 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.

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

If the programming update is unsuccessful, a tone sounds and the red LED blinks once.



### NOTE:

If the programming update is unsuccessful, the software update failure indications appear every time you turn on your radio. Contact your dealer to reprogram your radio with the latest software to eliminate the software update failure indications.

7.20

## **Wi-Fi Operation**

This feature allows you to set up and connect to a Wi-Fi network. Wi-Fi supports updates for radio firmware,

codeplug, and resources such as language packs and voice announcement.



### NOTE:

This feature is applicable to DEP 550e only.

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

Your radio supports WEP/WPA/WPA2-Personal and WPA/WPA2-Enterprise Wi-Fi networks.

### WEP/WPA/WPA2-Personal Wi-Fi network

Uses pre-shared key (password) based authentication.

Pre-shared key can be entered by using the menu or CPS/RM.

### WPA/WPA2-Enterprise Wi-Fi network

Uses certificate-based authentication.

Your radio must be pre-configured with a certificate.



#### NOTE:

Check with your dealer or system administrator to connect to WPA/WPA2-Enterprise Wi-Fi network.

The programmed **Wi-Fi On or Off** button is assigned by your dealer or system administrator. 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 through CPS according to user requirements. Check with your dealer or system administrator for more information.

7.20.1

## **Turning Wi-Fi On or Off**

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

7.20.2

## **Connecting to a Network Access Point**

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



### NOTE:

The programmed **Wi-Fi Status Query** button is assigned by your dealer or system administrator. Voice Announcements for the programmed **Wi-Fi Status Query** button can be customized according to user requirements by using CPS. Check with your dealer or system administrator to determine how your radio has been programmed.

The WPA-Enterprise Wi-Fi network access points are pre-configured. 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 using Voice Announcement.

Voice Announcement sounds when Wi-Fi is Off, Wi-Fi is On but No Connection, or Wi-Fi is On with Connection.

## **Utilities**

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

8.1

## **Squelch Levels**

You can adjust the squelch level to filter out unwanted calls with low signal strength or channels with noise higher than normal background.

### Normal

This is the default setting.

### **Tight**

This setting filters out unwanted calls and/or background noise. Calls from remote locations may also be filtered out.

8.1.1

## **Setting Squelch Levels**

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

Press the programmed **Squelch** button.

One of the following tone sounds:

### **Positive Indicator Tone**

Radio is operating in tight squelch.

### **Negative Indicator Tone**

Radio is operating in normal squelch.

8.2

### **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.

8.2.1

## **Setting Power Levels**

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

Press the programmed **Power Level** button.

### If successful:

- The Positive Indicator Tone sounds.
- · Radio transmits at low power.

### If unsuccessful:

- · The Negative Indicator Tone sounds.
- Radio transmits at high power.

### 8.3

## **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.



### NOTE:

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:

- Turn the radio off and then power it on again to enable VOX.
- Change the channel by using the Channel Selector knob to enable VOX.
- Turn VOX on or off by using the programmed VOX button.
- Press the PTT button during radio operation to disable VOX.



#### NOTE:

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

### 8.3.1

## **Turning Voice Operating Transmission On or Off**

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

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



### NOTE:

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.

8.4

## 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.

If successful:

- The Positive Indicator Tone sounds.
- All tones and alerts are turned on.

If unsuccessful:

- The Negative Indicator Tone sounds.
- All tones and alerts are turned off.

8.5

## **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.

8.6

## 

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.

One of the following tone sounds:

### **Positive Indicator Tone**

Acoustic Feedback Suppressor is activated.

### **Negative Indicator Tone**

Acoustic Feedback Suppressor is not activated.

## **Authorized Accessories List**

Motorola Solutions provides a list of accessories to improve the productivity of your radio.

Table 2: Antenna

Part Number	Description
PMAD4116_	VHF, 144–165 MHz, Helical Antenna
PMAD4117_	VHF, 136–155 MHz, Helical Antenna
PMAD4118_	VHF, 152–174 MHz, Helical Antenna
PMAD4119_	VHF, 136–148 MHz, Stubby Antenna
PMAD4120_	VHF, 146–160 MHz, Stubby Antenna
PMAD4121_	VHF, 160–174 MHz, Stubby Antenna
PMAD4133_	VHF, 360–400 MHz, Stubby Antenna

Part Number	Description
PMAD4136_	VHF, 360–380 MHz, Subby Antenna
PMAD4139_	VHF, 350–400 MHz, Whip Antenna
PMAE4069_	UHF, 400–450 MHz, Stubby Antenna
PMAE4070_	UHF, 440–490 MHz, Stubby Antenna
PMAE4071_	UHF, 470–527 MHz, Stubby Antenna
PMAE4079_	UHF, 400–527 MHz, Slim Whip Antenna

Table 3: Batteries

Part Number	Description
PMNN4415_	Core NiMH, 1400 mAh IP56 Battery
PMNN4416_	Core Slim Li-Ion, 1600 mAh IP56 Battery
PMNN4417_	IMPRES Li-Ion Slim, 1600 mAh IP56 Battery

Part Number	Description
PMNN4418_	IMPRES Li-Ion Non-FM, 2250 mAh IP56 Battery
PMNN4435_R	Li-Mn 1400 mAh low temp -30 °C IP67 Submersible Battery
PMNN4463_	Battery Li-Ion, IP57 2050 mAh
PMNN4488_	IMPRES Li-Ion, 3000 mAh, IP68 Battery for Vibrating Belt Clip
PMNN4490_ <sup>5</sup>	IMPRES Li-Ion, 2900 mAh TIA4950 HAZLOC IP68 Battery
PMNN4491_	IMPRES Slim Li-lon, 2100 mAh IP68 Battery
PMNN4493_	IMPRES Li-Ion, 3000 mAh IP68 Battery, low voltage
PMNN4543_	Core Li-Ion, 2450 mAh IP68 Battery
PMNN4544_	IMPRES Li-Ion, 2450 mAh IP68 Battery

**Table 4: Carry Devices** 

Part Number	Description
PMLN4651_	Belt Clip for 2 in. Belt Width
PMLN5610_	2.5 in. Replacement Leather Swivel Belt Loop
PMLN5611_	3 in. Replacement Leather Swivel Belt Loop
PMLN5863_	Hard Leather Carry Case with 3 in. Fixed Belt Loop for Limited Keypad Radio
PMLN5865_	Hard Leather Carry Case with 3 in. Swivel Belt for Limited Keypad Ra- dio
PMLN5867_	Hard Leather Carry Case with 2.5 in. Swivel Belt Loop for Limited Keypad Radio
PMLN5869_	Nylon Carry Case with 3 in. Fixed Belt Loop for Limited Keypad Radio
PMLN7008_	Belt Clip for 2.5 in. Belt Width

<sup>&</sup>lt;sup>5</sup> Applicable to DEP 570e and DEP 550e only.

### English

Part Number	Description
PMLN7296_	Vibrating Belt Clip for 2.5 in. Belt Width
RLN6486_	Leather Radio Strap
RLN6487_	Leather Radio Strap, Size XL
RLN6488_	Anti-Sway Leather Radio Strap

### Table 5: Chargers

Part Number	Description
HKVN4036_	IMPRES Battery Fleet Management License Key
NNTN7392_	IMPRES Battery Reader
NNTN7616_	IMPRES Vehicular Charger
NNTN7677_	IMPRES Battery Fleet Management Multi-Unit Charger Interface Unit
NLN7967_	Wall Mount Bracket for IMPRES Multi-Unit Charger
NNTN8045_	IMPRES Battery Fleet Management Single-Unit Charger Interface Unit

Part Number	Description
NNTN8224_	Standard Single-Unit Charger with Power Supply, Linear PRC
NNTN8225_	Single Unit Charger, Argentina Plug
NNTN8226_	Standard Single-Unit Charger with Power Supply, Linear, 110 V ac US Plug
NNTN8273_	Single Unit Charger, Euro Plug
NNTN8275_	Standard Single-Unit Charger with Power Supply, Switch-Mode – 21 W, NA/LA
NNTN8280_	Core Single-Unit Charger, with Power Supply, Brazil Plug
NNTN8525_	Travel Charger, Rapid Rate with Voltage Regulated Vehicular Charg- er Adapter, Custom Charger Base, Mounting Bracket, and Coil Cord
WPLN4211_	IMPRES Multi-Unit Charger, Base Only
WPLN4213_	IMPRES Multi-Unit Charger, Euro Plug

Description
IMPRES Multi-Unit Charger, UK Plug
IMPRES Multi-Unit Charger, Argentina Plug
IMPRES Multi-Unit Charger with Display, Base Only
IMPRES Multi-Unit Charger with Display, Euro Plug
IMPRES Multi-Unit Charger with Display, UK Plug
IMPRES Multi-Unit Charger with Display, Argentina Plug
IMPRES Single-Unit Charger, Base Only
IMPRES Single-Unit Charger with Switch Mode Power Supply
IMPRES Single-Unit Charger, Euro Plug
IMPRES Single-Unit Charger, Argentina Plug

Part Number	Description
WPLN4253_	LTD Single-Unit Charger IMPRES (SMPS NA/LA)
WPLN4255_	IMPRES Single-Unit Charger
WPLN4256_	IMPRES Single-Unit Charger
WPLN4281_	IMPRES Single-Unit Charger, Brazil Plug

### Table 6: Earbuds and Earpieces

Part Number	Description
AARLN4885_	Receive-Only Covered Earbud with Coiled Cord, for Remote Speaker Microphone
PMLN4620_	D-Shell Receive-Only Earpiece (One Size) for Remote Speaker Mi- crophone
PMLN5727_	Earpiece In-Line Mic/PTT Swivel, MagOne
PMLN5732_	Earset with Boom Micrphone, Ma- gOne

### English

Part Number	Description
PMLN5733_	Earbud with In-Line Mic/PTT, Magone
PMLN6757_	Adjustable D-Style with In-Line Mic and PTT
PMLN7396_	Adjustable Receive-Only Earpiece with Remote Speaker Microphone
PMLN7560_	Receive-Only Earpiece with Trans- lucent Tube
RLN4941_	Receive-Only Earpiece with Trans- lucent Tube and Rubber Eartip for Remote Speaker Microphone
RLN6511_	Clear EP7-Small Hearing Protectors [Sonic Defenders] Ultra Earplugs, 28 dB Noise reduction
RLN6512_	Clear EP7-Medium Hearing Protectors [Sonic Defenders] Ultra Earplugs, 28 dB Noise reduction
RLN6513_	Clear EP7-Large Hearing Protectors [Sonic Defenders] Ultra Earplugs, 28 dB Noise reduction

Part Number	Description
WADN4190_	Receive-Only Flexible Earpiece for Remote Speaker Microphone

#### **Table 7: Headsets and Headset Accessories**

Part Number	Description
PMLN5731_	Heavy Duty Headset, Noise Cancel- ling with In-Line PTT
PMLN6635_	Lightweight Over-the-Head Headset Single Muff with In-line Push-to-Talk and Boom Microphone
PMLN6759_	Temple Transducer
PMLN6760_	Next Generation Behind-the-Head Heavy Duty Headset Slim
PMLN6761_	Breeze Headset, MagOne
PMLN6763_	Next Generation Behind-the-Head Heavy Duty Headset, Slim TIA 4950
PMLN7464_	Over-the-Head Heavy Duty Head- set, Slim

Part Number	Description
PMLN7465_	Over-the-Head Heavy Duty Head- set/TIA, Slim
RLN6490_	XBT Behind-the-Neck, Non-secure Wireless Heavy Duty Headset
RLN6491_	XBT Overhead, Non-secure Wire- less Heavy Duty Headset

**Table 8: Remote Speaker Microphones** 

Part Number	Description
PMMN4071_	IMPRES Remote Speaker Micro- phone Large, Noise Cancelling with 3.5 mm Jack
PMMN4073_	IMPRES Remote Speaker Micro- phone Small with 3.5 mm Jack
PMMN4075_	Remote Speaker Microphone Small, No Emergency, IP57
PMMN4076_	Remote Speaker Microphone Small with 3.5 mm Jack
PMMN4108_	IMPRES Remote Speaker Microphone Windporting, IP67

**Table 9: Surveillance Accessories** 

Part Number	Description
PMLN6754_	3-Wire Surveillance Kit with Quick Disconnect Adapter and Clear Acoustic Tube, Black
PMLN6755_	3-Wire Surveillance Kit with Quick Disconnect Adapter and Clear Acoustic Tube, Beige
PMLN7269_	2-Wire Surveillance Kit with Quick Disconnect Adapter and Clear Acoustic Tube, Black
PMLN7270_	2-Wire Surveillance Kit with Quick Disconnect Adapter and Clear Acoustic Tube, Beige

**Table 10: Wireless** 

Part Number	Description
NNTN8125_	Non-secure Wireless Accessory Kit, Operational Critical Wireless Ear- piece, standard pair, 12 in. Cable

### English

Part Number	Description
NNTN8189_	Non-secure Wireless Bluetooth Accessory Kit, Operational Critical Wireless Earpiece, 12 in. Cable, No Charger
NTN2572_	Earpiece 12 in. Cable, for use with Bluetooth POD
PMLN7052_	Operations Critical Wireless 1-Wire Surveillance Kit with Translucent Tube
NNTN8295_	Non-secure Operational Critical Wireless Earbud with 45.7 in. Cable
NNTN8294_	Non-secure Operation Critical Wireless Earbud with 11.4 in. Cable
PMLN6462_	Non-secure Wireless Accessory Kit
PMLN7696_	Completely Discreet Earpiece Kit
NNTN8385_	Wireless Neckloop Y-adapter and retention hook for Completely Discreet Kit
NNTN8296_	Wireless Covert Kit, includes two sets of 2-Wire Earbuds (1 Black and 1 White), 1-Wire Earbud (Black),

Part Number	Description
	and a 3.5 mm Adapter to plug into any off-the-shelf headphones
RLN6502_	Bluetooth Accessory Kit Argentina
RLN6503_	Bluetooth Accessory Kit with Euro Plug
RLN6504_	Bluetooth Accessory Kit Brazil
RLN6550_	Swivel Earpiece with In-line Micro- phone, Bluetooth Accessory Kit Pod, pack of 3
RLN6556_	Flexible Earpiece with Boom Micro- phone, Bluetooth Pod, Charging Cradle
PMLN7181_	MOTOTRBO Bluetooth Accessory Kit, Flexfit Earpiece with NA Power Supply
PMLN7203_	Flexible Fit Swivel Earpiece with Boom Microphone, Bluetooth Ac- cessory Kit Pod, Multipack, pack of 3

**Table 11: Miscellaneous Accessories** 

Part Number	Description
HLN6602_	Universal Chest Pack
HLN9985_	Waterproof Bag, Includes Large Carry Strap
NTN5243_	Adjustable Black Nylon Carrying Strap (Attaches to D-Ring on Carry Case)
RLN4295_	Small Clip, Epaulet Strap
RLN4570_	Break-A-Way Chest Pack
RLN4815_	Universal Radio Pack and Utility Case, Fanny Pack
1505596Z02	Replacement Strap for RLN4570_ and HLN6602_
4280384F89	Universal Radio Pack, Extension Belt
4200865599	Wide Leather Belt, 1.75 in.
0104058J40	Dust Cover

# 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 (Sin- gle-Unit and Multi-Unit, Non-Display)	24 Months
IMPRES Chargers (Multi- Unit with Display)	12 Months

	ion) batteries	
	IMPRES Batteries, When Used Exclusively with IM-PRES Chargers	18 Months
7		

12 Months

Nickel Metal-Hydride

Ion) Ratteries

(NiMH) or Lithium-Ion (Li-

### **The Capacity Warranty**

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

## **Limited Warranty**

## MOTOROLA SOLUTIONS COMMUNICATION PRODUCTS

## I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

Motorola Solutions, Inc. ("Motorola Solutions") warrants the Motorola Solutions 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:

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

Motorola Solutions, 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 Solutions.

This express limited warranty is extended by Motorola Solutions 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 Solutions. Motorola Solutions assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of Motorola Solutions.

Unless made in a separate agreement between Motorola Solutions and the original end user purchaser, Motorola Solutions does not warrant the installation, maintenance or service of the Product.

Motorola Solutions cannot be responsible in any way for any ancillary equipment not furnished by Motorola Solutions 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 Solutions

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 Solutions responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola Solutions 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 SOLUTIONS 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 Solutions through one of its authorized warranty service locations. If you first contact the company which sold you the Product (for example, dealer or communication service provider), it can facilitate your obtaining warranty service. You can also call Motorola Solutions at 1-800-927-2744.

## 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 Solutions supplied equipment) which adversely affect performance of the Product or interfere with Motorola Solutions 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 Solutions published specifications or the FCC certification labeling in effect for the Product at the time the Product was initially distributed from Motorola Solutions.
- 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 Solutions 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 Solutions 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 Solutions will be notified promptly in writing by such purchaser of any notice of such claim,
- 2 Motorola Solutions 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 Solutions opinion be likely to become, the subject of a claim of infringement of a United States patent, that such purchaser will permit Motorola Solutions, 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 Solutions.

Motorola Solutions will have no liability with respect to any claim of patent infringement which is based upon the combination of the Product or parts furnished hereunder with software, apparatus or devices not furnished by Motorola Solutions, nor will Motorola Solutions have any liability for the use of ancillary equipment or software not furnished by Motorola Solutions which is attached to or used in connection with the Product. The foregoing states the entire liability of Motorola Solutions with respect to infringement of patents by the Product or any parts thereof.

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#### VII. GOVERNING LAW

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

### www.motorolasolutions.com/mototrbo

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