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# TLK 150 User Guide

**JANUARY 2020**

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MN006371A01-AA

# Contents

<b>Chapter 1: Read Me First.....</b>	<b>5</b>
1.1 Notice to Users.....	5
1.2 Notations Used in This Manual.....	5
1.3 Software Version.....	5
<b>Chapter 2: Radio Care.....</b>	<b>6</b>
<b>Chapter 3: Radio Overview.....</b>	<b>7</b>
<b>Chapter 4: Getting Started.....</b>	<b>8</b>
4.1 Installing the SIM Card.....	8
4.2 Turning the Radio On or Off.....	8
Turning the Radio On.....	8
Turning the Radio Off.....	8
4.3 Resetting the Radio.....	8
4.4 Adjusting the Volume .....	9
<b>Chapter 5: Status Indicators.....</b>	<b>10</b>
5.1 Display Icons.....	10
5.2 LED Indications .....	11
<b>Chapter 6: Selecting Talkgroup .....</b>	<b>12</b>
<b>Chapter 7: Calls.....</b>	<b>13</b>
7.1 Making Calls on the Radio.....	13
7.2 Receiving and Responding Calls on the Radio.....	13
<b>Chapter 8: Supervisory Override.....</b>	<b>15</b>
<b>Chapter 9: Checking Radio Information.....</b>	<b>16</b>
<b>Chapter 10: Bluetooth.....</b>	<b>17</b>
10.1 Turning the Bluetooth On or Off.....	17
Turning the Bluetooth On.....	17
Turning the Bluetooth Off.....	17
10.2 Viewing Bluetooth Connectivity Status.....	17
10.3 Clearing Bluetooth Pairing.....	18
<b>Chapter 11: Contact List.....</b>	<b>19</b>
11.1 Accessing Contact List.....	19
<b>Chapter 12: Menu.....</b>	<b>20</b>
12.1 Turning the All Alert Tones On or Off.....	20
Turning the All Alert Tones On.....	20
Turning the All Alert Tones Off.....	21

12.2 Adjusting Display Brightness.....	21
12.3 Turning the Voice Announcement On or Off.....	21
Turning the Voice Announcement On.....	21
Turning the Voice Announcement Off.....	21
12.4 Turning the DND On or Off.....	21
Turning the DND On.....	21
Turning the DND Off.....	22
12.5 Turning the Scan On or Off.....	22
Turning the Scan On.....	22
Turning the Scan Off.....	22
12.6 Turning the Location On or Off.....	22
Turning the Location On.....	22
Turning the Location Off.....	22
12.7 Turning the Wi-Fi On or Off.....	23
Turning the Wi-Fi On.....	23
Turning the Wi-Fi Off.....	23
12.8 Turning the Cellular On or Off.....	23
Turning the Cellular On.....	23
Turning the Cellular Off.....	23
12.9 Switching Speaker Mode.....	23
<b>Chapter 13: Instant Personal Alert.....</b>	<b>24</b>
13.1 Sending IPA.....	24
13.2 Receiving IPAs.....	24
13.3 Viewing IPA List.....	24
13.4 Clearing IPA Status List.....	25
<b>Chapter 14: Emergency Operation.....</b>	<b>26</b>
14.1 Sending Emergency.....	27
Sending Emergency Alarms.....	27
Sending Emergency Alarms with Call.....	27
14.2 Receiving Emergency.....	27
14.3 Exiting Emergency Mode.....	27
<b>Chapter 15: Area Talkgroup.....</b>	<b>29</b>
<b>Chapter 16: Ambient Listening.....</b>	<b>30</b>
<b>Chapter 17: Authorized Accessories List.....</b>	<b>31</b>
<b>Limited Warranty.....</b>	<b>33</b>
MOTOROLA SOLUTIONS COMMUNICATION PRODUCTS.....	33
I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:.....	33
II. GENERAL PROVISIONS.....	33

III. STATE LAW RIGHTS:.....	33
IV. HOW TO GET WARRANTY SERVICE.....	34
V. WHAT THIS WARRANTY DOES NOT COVER.....	34
VI. PATENT AND SOFTWARE PROVISIONS.....	34
VII. GOVERNING LAW.....	35
<b>Legal and Compliance Statements.....</b>	<b>36</b>
Disclaimer.....	36
Computer Software Copyrights.....	36
Copyrights and Trademarks.....	36
Important Safety Information.....	37

## Chapter 1

# Read Me First

The user guide covers the basic operation of the two-way radio.



**NOTICE:** Not all features in the manual are available in your radio. Contact your dealer for more information.

You can consult your dealer about the following:

- What are the functions of each button?
- Which optional accessories may suit your needs?
- What are the best radio usage practices for effective communication?
- What maintenance procedures promote longer radio life?

### 1.1

## Notice to Users

This device complies with Part 15 of the FCC rules per the following conditions:

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



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

### 1.2

## Notations Used in This Manual

Throughout the text in this publication, you notice the use of **Warning**, **Caution**, and **Notice**. These notations are used to emphasize that safety hazards exist, and the care that must be taken or observed.



**WARNING:** An operational procedure, practice, or condition, and so on, which may result in injury or death if not carefully observed.



**CAUTION:** An operational procedure, practice, or condition, and so on, which may result in damage to the equipment if not carefully observed.



**NOTICE:** An operational procedure, practice, or condition, and so on, which is essential to emphasize.

### 1.3

## Software Version

All the features described in the following sections are supported by the software version **R03.01.00** or later.

Contact your dealer for more information.

## Chapter 2

# Radio Care

This section describes the basic handling precaution of the radio.

Table 1: IP Specification

IP Specification	Description
IP54	Allows your radio to withstand adverse field conditions such as being exposed to water or dust.



**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.

## Chapter 3

# Radio Overview

This chapter explains the overview of your radio.



No.	Buttons	Descriptions
1	Power button	Turn the radio on and off.
2	Volume Up button	Increase the volume level.
3	Volume Down button	Decrease the volume level.
4	Channel button	Scroll to next channel/talkgroup in the list.
5	Emergency button	Trigger emergency.
6	Back/Home button	Short Press: Go back to previous page. Long Press: Return to home screen.
7	P2 button	Trigger Programmed short press feature. In the menu, it is the right navigation button.
8	P1 button	Trigger Programmed short press feature. In the menu, it is the left navigation button.
9	Menu/OK button	To access the Menu mode. In the menu, it is the select button.
10	Contacts/Info button	Short Press: Access the Contact List. Long Press: Access the Info menu.

## Chapter 4

# Getting Started

This chapter provides instructions to prepare your radio for use.

### 4.1

## Installing the SIM Card

### Procedure:

- 1 Locate the SIM card tray on the rear of the radio.
- 2 Unscrew the SIM card tray and pull out the tray.
- 3 Place the SIM card on the slot of the tray and push the tray back to the radio.
- 4 Tighten the screw of the SIM card tray.

### 4.2

## Turning the Radio On or Off

### Turning the Radio On

### Procedure:

- To turn on your radio, long press the **Power** button.

If your radio is turned on successfully, your radio shows the following indications:

- The green LED illuminates.
- The display shows power-on animation.

### Turning the Radio Off

### Procedure:

- To turn off your radio, long press the **Power** button.

If your radio is turned off successfully, your radio shows the following indications:

- A tone sounds.
- The display is off.

### 4.3

## Resetting the Radio

**Prerequisites:** If your radio is locked and buttons are unresponsive, force your radio to reset with the following step.

### Procedure:

- Long press the **Power** button for at least 7 seconds.



#### 4.4

## Adjusting the Volume

### Procedure:

- Perform one of the following actions:
  - To increase or decrease the volume of the radio, press the **Volume** button.
  - To mute the radio, long press the **Volume Down** button until the display shows  $\times$ .

## Chapter 5

# Status Indicators

This chapter explains the Icons and LED indicators used in the radio.













### 5.1

## Display Icons

Your radio shows the radio status, text entries, and menu entries.

The following icons appear on the status bar at the top of the radio display. The icons are arranged left most in order of appearance or usage, and are channel-specific.

Table 2: Display Icons

	Cellular Signal Level
	Wi-Fi Signal Level
	Bluetooth
	GPS
	Scan
	Downloading Software/Software Available
	Log Created/Uploading Log
	Emergency
	Instant Personal Alert
	Do Not Disturb
	Area Talk Group
	Ambient Alert

5.2

## LED Indications

The LED Indicator shows the operational status of your radio.

Table 3: LED Indications

Indication	Operational Mode
Solid green	<ul style="list-style-type: none"> <li>• Radio is powering on</li> <li>• Radio is transmitting</li> <li>• Instant Personal Alert Tx</li> <li>• Ambient Alert</li> </ul>
Solid amber	Emergency Tx
Blinking green	<ul style="list-style-type: none"> <li>• Incoming call</li> <li>• During call hang-time</li> </ul>
Blinking amber	<ul style="list-style-type: none"> <li>• In Scan mode</li> <li>• Emergency Rx</li> </ul>
Blinking red	Radio out of range
Blinking amber slowly	Instant Personal Alert Rx
Blinking green and amber	In Do Not Disturb (DND) mode
No indication	<ul style="list-style-type: none"> <li>• Radio powered off</li> <li>• Radio kill<sup>1</sup></li> <li>• Radio is idle</li> </ul>

<sup>1</sup> Check with your dealer or system administrator for more information.

## Chapter 6

# Selecting Talkgroup

### Procedure:

- Press the **Channel** button.

If selecting talkgroup is successfully, your radio switches to your preferred talkgroup.

If selecting talkgroup is unsuccessful, your radio plays a negative indicator tone sound.

## Chapter 7

# Calls

There are several ways that you can make a call with your radio depending on the types of calls and system available on your radio.

When a call is interrupted, you hear a continuous Talk Prohibit Tone. Releasing the **PTT** button allows you to receive the call.

Channel Free Indication feature can be programmed on your radio by your dealer. If the Channel Free Indication feature is enabled, you hear a short alert tone when the recipient releases the **PTT** button, indicating the channel is free for you to respond.

### 7.1

## Making Calls on the Radio

### Procedure:

- Perform one of the following actions based on the type of calls:

If...	Then...
<b>Group Call</b>	<ul style="list-style-type: none"> <li><b>a</b> To select a channel with an active subscriber ID, press the <b>Channel</b> button.</li> <li><b>b</b> To call, press the <b>PTT</b> button.</li> <li><b>c</b> Wait for the Talk Permit Tone to end, and speak into the microphone.</li> <li><b>d</b> To listen, release the <b>PTT</b> button.</li> </ul>
<b>Private Call</b>	<ul style="list-style-type: none"> <li><b>a</b> To select an active subscriber ID, press the <b>Contact</b> button.</li> <li><b>b</b> To call, press the <b>PTT</b> button.</li> <li><b>c</b> Wait for the Talk Permit Tone to end, and speak into the microphone.</li> <li><b>d</b> To listen, release the <b>PTT</b> button.</li> </ul>
<b>Broadcast Call</b>	<ul style="list-style-type: none"> <li><b>a</b> To select a channel with an active subscriber ID, press the <b>Channel</b> button.</li> <li><b>b</b> To call, press the <b>PTT</b> button.</li> <li><b>c</b> Wait for the Talk Permit Tone or PTT Sidetone to end, and speak into the microphone.</li> </ul>

If your radio does not detect voice activity for a predetermined period, the call ends.

### 7.2

## Receiving and Responding Calls on the Radio

**When and where to use:** When you receive calls, your radio shows the following indications:

- The green LED illuminates.

- Your radio unmutes and the incoming call sounds through the speaker.
- The display shows the subscriber ID and call status.



**NOTICE:** For Broadcast Call, user is not allowed to Talkback. The display shows *Talkback Prohibit* and Talkback Prohibit tone sounds when **PTT** button is pressed.

**Procedure:**

- Perform the following actions to respond to call:
  - a. To respond, press the **PTT** button.
  - b. Wait for the Talk Permit Tone to end, and speak into the microphone.
  - c. To listen, release the **PTT** button.

## Chapter 8

# Supervisory Override

Supervisory Override allows a supervisor to interrupt during an ongoing Group or Private Call and immediately start a supervisory call.

If the user is receiving or transmitting a Group Call or Private Call and the server is interrupted by a supervisory call, your radio unmutes to the supervisory call and display the alias of the supervisor.



**NOTICE:** Contact your dealer for more information on the configuration.

## Chapter 9

# Checking Radio Information

**Prerequisites:** Turn on your radio.

**Procedure:**

- 1 To check the radio information, long press the **Contact/Info** button.
- 2 To scroll through the list, press **P1** and **P2** button.

Your radio displays the following radio information depending the configuration set by the dealer. Contact your dealer for more information.

Table 4: Radio Information

Radio Information	Description
Stun, Maintenance mode	Allows you to toggle between Stun and Maintenance mode.
Emergency Alert	Allows you to enable radio alias during Emergency Alerts received.
Instant Personal Alert (IPA)	Allows you to view the IPA received.
Cell Status	Allows you to view the "Cellular Status" level indication.
Wi-Fi Status	Allows you to view the "Wi-Fi Status" level indication.
Bluetooth	Allows you to view the Bluetooth Status. For example: Bluetooth Searching or Bluetooth Connected.
Bluetooth Pairing	Allows you to view a list of devices that are paired to the radio and delete the required paired device from the list.
Diagnostic Trigger	Allows you to view the "Log Created" or "Uploading Log" indication.
FOTA Status	Allows you to view the "Software Downloading" or "Software Downloaded" indications.
Radio Name	Allows you to view the name of the radio.



## Chapter 10

# Bluetooth

This feature allows your radio to connect to any Bluetooth (BT)-enabled device through BT connection. Your radio supports both Motorola Solutions and Commercially available Off-The-Shelf (COTS) BT-enabled devices. For example, headset, scanner, and PTT-Only Device (POD). Multiple connections with BT-enabled devices of the same type are not supported.

BT operates within a range of 10 m (32 ft) line of sight. The BT function of your radio has a maximum power of 2.5 mW (4 dBm) at the 10 m range. This is an unobstructed path between your radio and your BT-enabled device. For high degree of reliability, Motorola Solutions recommends to not separate the radio and the BT-enabled device.

If the voice and tone quality gets distorted or unclear, position your radio and the BT-enabled device close to each other to re-establish clear audio reception.

### 10.1

## Turning the Bluetooth On or Off

### Turning the Bluetooth On

#### Procedure:

- From the menu, to enable Bluetooth (BT), select **Bluetooth** → ✓.

If BT is on, your radio shows the following indications:

- Voice Announcement sounds.
- The display shows BT icon on the home screen.

### Turning the Bluetooth Off

#### Procedure:

- From the menu, to enable BT, select **Bluetooth** → x.

If BT is off, your radio shows the following indications:

- Voice Announcement sounds.
- No BT icon on the home screen.

### 10.2

## Viewing Bluetooth Connectivity Status

#### Procedure:

- 1 Long press the **Contact/Info** button.
- 2 Select **Bluetooth**.

If your radio is still searching for the last connected Bluetooth (BT) device, your radio shows *Searching...* and sounds Voice Announcement.

If your radio is connected to the BT device, your radio shows `Connected` and sounds voice announcement.

If your BT device is disconnected from your radio, your radio sounds a tone and attempt to reconnect to the same BT device within a reconnect Time Out.

### 10.3

## Clearing Bluetooth Pairing

#### Procedure:

- 1 Long press the **Contact/Info** button.
- 2 Select **Bluetooth Pairing** → *<device friendly name>* → **Menu/OK**.

If clearing a paired Bluetooth device successfully, a positive tone sounds.

If clearing an unpaired Bluetooth device, a negative tone sounds.

## Chapter 11

# Contact List

Contact List provides an address book capabilities on your radio. Each entry corresponds to an alias or ID that you use to initiate a call. The entries are alphabetically sorted.

A contact name shall be no more than 30 alphanumeric characters.

If the contact has set their status to Do Not Disturb (DND), the contact will then be hidden from the contact list.

When there is no interaction detected for 5 sec, your radio will exit the Contact List and go back to home screen.

### 11.1

## Accessing Contact List

### Procedure:

- Perform one of the following actions:
  - To enter Contact List, press the **Contact/Info** button.
  - To scroll through the Contact List, press **P1** or **P2** button.
  - To exit Contact List, press **Back/Home** button or wait for the time out timer to expire.


## Chapter 12

# Menu

You are able to access the menu through the **Menu/OK** button.

The following are the available features in the Menu.

Table 5: List of Features

Feature	Description
All Alert Tone	Allows you to enable and disable All Alert Tone.
Display Brightness	Allows you to adjust the display brightness on your radio.
Voice Announcement	Allows you to enable and disable the Voice Announcement.
Do Not Disturb (DND)	Allows you to change the mode of your radio from available to "do not disturb".  <b>NOTICE:</b> When DND is enabled, you will not be able to receive any private call.
Scan	Allows you to enable and disable the Scan feature.
Location	Allows you to enable and disable the Global Positioning System (GPS) feature.
Wi-Fi	Allows you to enable and disable the Wi-Fi modems.
Cellular	Allows you to enable and disable the Cellular modems.
Speaker	Allows you to select between internal speaker or external speaker.

### 12.1

## Turning the All Alert Tones On or Off

### Turning the All Alert Tones On

**Procedure:**

- From the menu, to enable alert tones, select **All Alert Tones** → ✓.

All Alert Tones is on and the Voice Announcement sounds.

## Turning the All Alert Tones Off

### Procedure:

- From the menu, to disable alert tones, select **All Alert Tones** → **x**.

All Alert Tones is off and the Voice Announcement sounds.

### 12.2

## Adjusting Display Brightness

### Procedure:

- 1 From the menu, select **Brightness**.
- 2 Select your preferred brightness level ranging from 0 to 8.

### 12.3

## Turning the Voice Announcement On or Off

### Turning the Voice Announcement On

#### Procedure:

- From the menu, to enable Voice Announcement, select **Voice Announcement** → ✓.

Voice Announcement is on.

### Turning the Voice Announcement Off

#### Procedure:

- From the menu, to disable Voice Announcement, select **Voice Announcement** → **x**.

Voice Announcement is off.

### 12.4

## Turning the DND On or Off

### Turning the DND On

#### Procedure:

- From the menu, to enable Do Not Disturb (DND), select **DND** → ✓.

If DND is on, your radio shows the following indications:

- Voice Announcement sounds.
- The LED displays a blinking green light and amber light periodically.

## Turning the DND Off

**Procedure:**

- From the menu, to disable DND, select **DND** → **x**.

If DND is off, Voice Announcement sounds.

### 12.5

## Turning the Scan On or Off

### Turning the Scan On

**Procedure:**

- From the menu, to enable scan, select **Scan** → ✓.

Scan is on and the Voice Announcement sounds.

### Turning the Scan Off

**Procedure:**

- From the menu, to disable scan, select **Scan** → **x**.

Scan is off and the Voice Announcement sounds.

### 12.6

## Turning the Location On or Off

### Turning the Location On

**Procedure:**

- From the menu, to enable location, select **Location** → ✓.

Location is on and the Voice Announcement sounds.

### Turning the Location Off

**Procedure:**

- From the menu, to disable location, select **Location** → **x**.

Location is off and the Voice Announcement sounds.

## 12.7

# Turning the Wi-Fi On or Off

## Turning the Wi-Fi On

### Procedure:

- From the menu, to enable Wi-Fi, select **Wi-Fi** → ✓.

Wi-Fi is on and the Voice Announcement sounds.

## Turning the Wi-Fi Off

### Procedure:

- From the menu, to disable Wi-Fi, select **Wi-Fi** → x.

Wi-Fi is off and the Voice Announcement sounds.

## 12.8

# Turning the Cellular On or Off

## Turning the Cellular On

### Procedure:

- From the menu, to enable cellular, select **Cellular** → ✓.

Cellular is on and the Voice Announcement sounds.

## Turning the Cellular Off

### Procedure:

- From the menu, to disable cellular, select **Cellular** → x.

Cellular is off and the Voice Announcement sounds.

## 12.9

# Switching Speaker Mode

### Procedure:

- 1 From the menu, select **Speaker**.
- 2 Perform one of the following actions:
  - To enable internal speaker, select **Internal**.
  - To enable external speaker, select **External**.

Voice announcement sounds.

## Chapter 13

# Instant Personal Alert

Instant Personal Alert (IPA) is a callback request notification that you can only be sent or receive in your contact list.

The IPA are stored in the IPA Status List to allow you to view and to reply in a later time. When multiple IPAs are received, the latest IPA will appear at the top of the list. The IPA Status List can store up to nine alerts.

### 13.1

## Sending IPA

### Procedure:

- To send an IPA, select **Contacts/Info** → *<required contact>* → **Menu/OK** button.

Your radio shows the following indications:

- A tone sounds.
- The display show `Alert Sent`.

### 13.2

## Receiving IPAs

**When and where to use:** When you receive IPA during idle mode, your radio shows the following indications:

- The IPA is added to the IPA Status List.
- A tone sounds.
- The amber LED blinks until IPA is cleared.
- The display shows the IPA icon and alias.

When you receive IPA while in a call, your radio shows the following indications:

- The IPA is added to the IPA Status List.
- The display does not show the IPA alias.
- The amber LED blinks after the call is ended.
- The display shows the IPA icon after the call is ended.

### 13.3

## Viewing IPA List

### Procedure:

- 1 Long press the **Contacts/Info** button.
- 2 To view the IPA list, select **IPA**.

The display shows the latest IPA received following with the remaining eight alerts.



## 13.4

# Clearing IPA Status List

### Procedure:

- Perform one of the following actions:
  - From the contact list or IPA list, press and hold the **PTT** button on the contact that you want to clear.
  - In the IPA Status List, press and hold the **Menu/OK** button on the contact that you want to clear.
  - Power cycle your radio to clear all the IPAs.

## Chapter 14

# 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.



**NOTICE:** One channel supports only one Emergency mode.

Your radio supports the following Emergency modes:

Table 6: Emergency Modes

Emergency Mode	Description
Emergency Alarm	A non-voice signal which triggers an alert indication on a group of radios.
Emergency Alarm with Call	Once the Emergency Alarm is acknowledged, the group of radios can communicate over the programmed Emergency channel.
Emergency Alarm with Voice to Follow	<p>Once the Emergency Alarm is acknowledged, your radio microphone is automatically activated which is known as hot mic. Hot mic allows you to communicate with the group of radios without pressing the <b>PTT</b> button.</p> <p> <b>NOTICE:</b></p> <ul style="list-style-type: none"> <li>• If Emergency Cycle Mode is enabled, repetitions of hot mic and receiving period are made for a programmed duration.</li> <li>• If the <b>PTT</b> button is pressed during the programmed receiving period, you hear a prohibit tone, indicating that you should release the <b>PTT</b> button. The radio ignores the <b>PTT</b> button press and remains in Emergency mode.</li> <li>• If the Emergency Alarm request fails, the radio does not retry to send the request, and enters the hot mic directly.</li> </ul>
Silent Emergency Alarm	Radio transmits an alarm signal without any audio or visual indicators.
Silent Emergency Alarm with Call	Radio transmits an alarm signal without any audio or visual indicators. Once the Emergency Alarm is acknowledged, your radio microphone remains muted until the programmed transmission period expires.
Silent Emergency Alarm with Voice to Follow	<p>Radio transmits an alarm signal without any audio or visual indicators. Once the Emergency Alarm is acknowledged, the hot mic is activated, allowing you to communicate with the group of radios without pressing the <b>PTT</b> button.</p> <p> <b>NOTICE:</b> The indicators only appear when you press the <b>PTT</b> button.</p>

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.

## 14.1

# Sending Emergency

Depending on how your radio is programmed, you can send the following Emergency.

## Sending Emergency Alarms

### Procedure:

Press the programmed **Emergency On** button.

If the alarm is sent successfully, your radio shows the following indications:

- The Emergency tone sounds.
- The amber LED illuminates.

If alarm sending is still unsuccessful after all retries have been exhausted, your radio shows the following indications:

- A low pitched tone sounds.

## Sending Emergency Alarms with Call

### Procedure:

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

The red LED illuminates. If the alarm is sent successfully, your radio shows the following indications:

- The Emergency tone sounds.
- The amber LED illuminates.

- 2 To call, press the **PTT** button.
- 3 Wait for the Talk Permit Tone to end, and speak into the microphone.
- 4 To listen, release the **PTT** button.

If your radio does not detect voice activity for a predetermined period, the call ends.

## 14.2

# Receiving Emergency

**When and where to use:** When the caller initiates emergency, your radio shows the following indications:

- The emergency tone sounds.
- The amber LED blinks.
- The display shows emergency icon and contact alias.

## 14.3

# Exiting Emergency Mode

**When and where to use:** Your radio automatically exits emergency mode when:

- An acknowledgment is received (for emergency alarm only).

- All retries to send the alarm have been exhausted.

**Procedure:**

- 1 To manually exit emergency mode, perform one of the following actions:
  - Long press the programmable **Emergency Off** button.
  - Turn off your radio.



**NOTICE:** When 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.

## Chapter 15

# Area Talkgroup

When you enter a geographic area, you are able to view and hear the notifications for the talkgroup area in that geofence.

The Area Talkgroup is added to the Area Talkgroup List in alphabetical order. Once you are added to the Area Talkgroup list, you can receive group call even if your talkgroup scanning is off.

When you are in the Area Talkgroup, your radio sounds the Voice Announcement, the green LED blinks, and the display shows the talkgroup alias.

When you exit the Area Talkgroup, your radio sounds the Voice Announcement and the display shows the talkgroup alias as well. If you are in a call when you exit the Area Talkgroup, your call will not drop automatically.

If the Area Talkgroup is removed, you will go back to your previous channel.

## Chapter 16

# Ambient Listening

This feature allows the authorized user to listen to the ambient audio of a specific radio during idle mode.

When an authorized user starts ambient listening on a specific radio, the radio plays a tone, displays the ambient listening icon and the alias of the authorized user. Ambient listening stops when a different type of call is initiated or received.

## Chapter 17

# Authorized Accessories List

Table 7: Audio

Part Number	Description
AC000240A01	Wideband External Speaker
GMMN4065	Visor Microphone (Omni-Direction)
PMMN4127_	Wideband Compact Microphone
PMMN4129_	Bluetooth RSM

Table 8: Antenna

Part Number	Description
AN000359A01	GNSS Dash Mount Antenna
AN000358A01	LTE Antenna

Table 9: Cables

Part Number	Description
CB000935A01	Giboshi Terminal Adapter (Japan model only)
HKN4137_	Mobile Power Cable 10 ft, 14 AWG, 15 A
HKN9327BR	Ignition Switch Cable
PMLN8153_	Power Supply Adaptor and Cable
PMKN4148	20 Pin MAP USB Programming Cable
PMKN4149	20 Pin MAP Test and USB Programming
PMKN4147	Front Telco MMP USB Programming

Table 10: Mounting Accessory

Part Number	Description
FTN6083_	DIN Mounting Accessory
RLN6466_	Low Profile Trunnion Kit
RLN6467_	High Profile Trunnion Kit
RLN6468_	Key Lock Trunnion

Table 11: Other Accessories

Part Number	Description
GMBN1021_	Rear Accessory Connector Seal with Pins
HLN9457_	16 Pin MAP Connector Kit

<b>Part Number</b>	<b>Description</b>
PMLN5620_	Connector Extender (20 pieces)
RLN4836AR	External PTT with Emergency Footswitch
RLN4856_	Remote Mount Footswitch PTT
RLN4857_	Push Button with Remote PTT



# 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:

Mobile Radio	12 Months
Product Accessories	12 Months

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.

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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.

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- 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.

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# Legal and Compliance Statements

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

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## Important Safety Information

### ATTENTION!

**This radio is designed to meet General Population usage.** Before using the radio, read the RF Energy Exposure and Product Safety Guide for Mobile Two-Way Radios which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations.

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range, except for transmission with 5.2 GHz High Power Data Communication System base Station or Relay Station.

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	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
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For a list of Motorola Solutions-approved antennas and other accessories, visit the following website:

<http://www.motorolasolutions.com>

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