

WAVE™ TWO-WAY RADIO

TLK 150 User Guide



Contents

Chapter 1: Read Me First	5
Chapter 2: Feature and Service Availability	6
Chapter 3: Software Version	7
Chapter 4: Radio Care	8
Chapter 5: Radio Overview	9
Programmable Buttons	10
Assignable Radio Functions	10
Chapter 6: Getting Started	11
Turning the Radio On or Off	11
Turning the Radio On	11
Turning the Radio Off	11
Resetting the Radio	11
Adjusting the Volume	11
Chapter 7: Status Indicators	12
Display Icons	12
LED Indications	13
Chapter 8: Fast Scroll Talkgroup List	14
Chapter 9: Selecting Talkgroup	15
Chapter 10: Radio Calls	16
Making Calls on the Radio	16
Receiving and Responding to Calls on the Radio	16
Chapter 11: Supervisory Override	17
Chapter 12: Checking Radio Information	18
Chapter 13: Bluetooth	19
Turning the Bluetooth On or Off	19
Turning the Bluetooth On	19
Turning the Bluetooth Off	19
Viewing Bluetooth Connectivity Status	19
Clearing Bluetooth Pairing	20
Chapter 14: Contact List	21
Accessing Contact List	21
Chapter 15: Menu	22
Turning the All Alert Tones On or Off	22
Turning the All Alert Tones On	22

	Turning the All Alert Tones Off	22
	Adjusting Display Brightness	23
	Turning the Voice Announcement On or Off	23
	Turning the Voice Announcement On	23
	Turning the Voice Announcement Off	23
	Turning the DND On or Off	23
	Turning the DND On	23
	Turning the DND Off	23
	Turning the Scan On or Off	24
	Turning the Scan On	24
	Turning the Scan Off	24
	Turning the Location On or Off	24
	Turning the Location On	24
	Turning the Location Off	24
	Turning the Wi-Fi On or Off	24
	Turning the Wi-Fi On	24
	Turning the Wi-Fi Off	25
	Turning the Cellular On or Off	25
	Turning the Cellular On	25
	Turning the Cellular Off	25
	Switching between Speaker Mode	25
Cha	pter 16: Instant Personal Alert	26
	Sending IPA	26
	Receiving IPAs	26
	Viewing IPA List	26
	Clearing IPA Status List	26
Cha	pter 17: Emergency Operations	28
	Declaring Emergency	28
	Cancelling Emergency	28
	Receiving Emergency Alerts	28
	Responding to Emergency Alert	29
	Receiving Emergency Calls	29
	Clearing Emergency Alert List	29
Cha	pter 18: Area Talkgroup	30
Cha	pter 19: Radio Stun	31
	pter 20: User Disabled or Suspended	
_	pter 21: Radio Kill	
	pter 22: Ambient Listening	
Jua	Pto: ==: /\!!!bloiit Eisteliiig	54

Chapter 23: Authorized Accessories List	35
Limited Warranty	37
MOTOROLA SOLUTIONS COMMUNICATION PRODUCTS	37
I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:	37
II. GENERAL PROVISIONS	37
III. STATE LAW RIGHTS:	37
IV. HOW TO GET WARRANTY SERVICE	38
V. WHAT THIS WARRANTY DOES NOT COVER	38
VI. PATENT AND SOFTWARE PROVISIONS	38
VII. GOVERNING LAW	39
Legal and Compliance Statements	40
Supplier's Declaration of Conformity	40
Notice to Users	41
Disclaimer	41
Computer Software Copyrights	41
Copyrights and Trademarks	41
Important Safety Information	42

Read Me First

This user guide covers the basic operations of your radios.

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.

Special Notations

The following special notations are used throughout the text to highlight certain information or items:

Table 1: Special Notations

Example	Description
Menu key or PTT button	Bold words indicate a name of a key, button, or soft menu item.
Your radio shows Bluetooth On.	Typewriter words indicate the MMI strings or messages displayed on your radio.
<required id=""></required>	The courier, bold, italic, and angle brackets indicate user input.
Setup → Tone → All Tones	Bold words with the arrow in between indicate the navigation structure in the menu items.

Feature and Service Availability

Your dealer may have customized your radio for your specific needs.



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?

Software Version

All the features described in the following sections are supported by the software version **R03.01.01** or later.

Contact your dealer for more information.

Radio Care

This section describes the basic handling precaution of the radio.

Table 2: 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 has been submersed in a corrosive substance (for example, saltwater), rinse radio in fresh water then dry radio.
- 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).
- When cleaning your radio, do not use a high pressure jet spray on radio as this may cause water to leak into your radio.

Radio Overview

This chapter explains the overview of your radio.

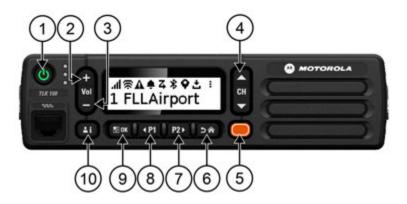


Table 3: Radio Overview

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 up or down to the next channel or talkgroup in the list.
5	Emergency button	Trigger emergency.
6	Back/Home button	Press: Go back to previous page.
		Press and hold: Return to home screen.
7	P2 button	Trigger Programmed feature.
		In the menu, it is the right navigation button.
8	P1 button	Trigger Programmed 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	Press: Access the Contact List.
		Press and hold: Access the Info menu.

Programmable Buttons

You can program the programmable buttons as shortcuts to specific radio functions through Wave OnCloud (WoC) portal.

Depending on the duration of a button press, the programmable buttons function differently.

Assignable Radio Functions

The following radio functions can be assigned to the programmable buttons by your dealer. Press the **Menu/OK** button to launch the following features.

Alert Tones

Allows you to toggle the Alert Tones on and off.

Bluetooth

Allows you to toggle the Bluetooth on and off.

Contact List

Allows you to directly access the Contact List.

Do Not Disturb (DND)

Allows you to toggle between on and off.

Emergency

Allows you to initiate or cancel an emergency.

Location

Allows you to toggle the Location on and off.

Menu

Allows you to access the menu features.

Scan

Allows you to toggle the Scan on and off.

Voice Announcement

Allows you to toggle Voice Announcement on and off.

Getting Started

This chapter provides instructions to prepare your radio for use.

Turning the Radio On or Off



NOTICE: Contact your dealer for more information on ignition switch.

Turning the Radio On

Procedure:

To turn on your radio, press and hold the **Power** button or ignition switch.

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, press and hold the **Power** button or ignition switch.

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

- A tone sounds.
- · The display is off.

Resetting the Radio

If your radio happens to locked up and buttons are unresponsive, force reset your radio with the following step.

Procedure:

Press and hold the **Power** button for at least 7 seconds.

Adjusting the Volume

Procedure:

Perform one of the following actions:

- To increase the volume of the radio, press the Volume Up button.
- To decrease the volume of the radio, press the Volume Down button.
- To mute the radio, press and hold the Volume Down bottom until the display shows x.

Status Indicators

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

Display Icons

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 4: Display Icons

Table 4. Display Icons	
Icon	Description
al	Cellular Signal Level
豪	Wi-Fi Signal Level
*	Bluetooth
**	Bluetooth Connected
Ŷ	Global Navigation Satellite System (GNSS)
Z,	Scan
~	Software Available
±	Downloading Software
ß	Logs Available
±.	Uploading Logs
A	Emergency
•	Instant Personal Alert
+	Do Not Disturb
	Area Talk Group
>>	Ambient Alert
	More

LED Indications

The LED Indicator shows the operational status of your radio.

Table 5: LED Indications

Indication	Operational Mode
Solid green	Radio is powering onRadio is transmittingAmbient Alert
Blinking green	 Incoming call During call hang-time Instant Personal Alert transmit
Blinking green slowly	Radio enters Area Talkgroup
Solid amber	Emergency is declared
Fast blinking amber	Emergency Alert is received
Blinking amber	Instant Personal Alert is received
Blinking amber slowly	Priority Scan is activated
Blinking red	Radio out of range
Blinking green and amber	In Do Not Disturb (DND) mode
No indication	Radio powered off
	Radio kill ¹
	Radio is idle

¹ Check with your dealer or system administrator for more information.

Fast Scroll Talkgroup List

A talkgroup list has a maximum of 96 channels.

The order of the channels are in numerical order. You can press and hold on the **Channel** button to perform the fast scroll. After the second channel, you can fast scroll the channels with an increment of 10

Example: For example, if your radio has 93 channels, the increment channel change is **CH 80** \rightarrow **CH 90** \rightarrow **CH 93** \rightarrow **CH 1** \rightarrow **CH 10** \rightarrow **Ch 20**.

Selecting Talkgroup

Procedure:

Press the Channel button.

If the talkgroup is changed successfully, your radio shows a new talkgroup channel.

If selecting talkgroup is unsuccessful, your radio plays a negative indicator tone sound and remains on the talkgroup channel.

Radio Calls

This chapter explains the operations to receive, respond to, make, and stop calls. Calls supported are Group, Private, and Broadcast calls.

Making Calls on the Radio

Procedure:

- 1 Perform one of the following actions:
 - To make a group call or broadcast call, select Channel → <required channel>.
 - To make a private call, select Contacts/Info → <required Contact>.
- 2 To call, press and hold the PTT button.

For broadcast call, the display shows a countdown from 3, 2, and 1.

If the PTT button is release before the countdown completes, the call is canceled.

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



NOTICE: This step is not applicable for broadcast call.

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

Receiving and Responding to Calls on the Radio

When you receive calls, your radio shows the following indications:

- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.
- The display shows the talkgroup name and initiators name.



NOTICE: For Broadcast Call, the user is not allowed to Talkback. If user attempts to talkback, the Talkback Prohibit tone sounds when the **PTT** button is pressed.

Procedure:

- 1 To respond, press and hold the PTT button.
- 2 Wait for the Talk Permit Tone to end, and speak into the microphone.
- 3 To listen, release the PTT button.

Supervisory Override

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

If the user is receiving or transmitting a 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.

Checking Radio Information

Prerequisites: Turn on your radio.

Procedure:

- 1 To check the radio information, press and hold the **Contacts/Info** button.
- **2** Perform one of the following actions:
 - To enable radio alias during Emergency Alerts received, select **Alerts**.
 - To view the IPA received, select IPA.
 - To view the Cellular Status, select Cellular Status.
 - To view the Wi-Fi status, select WiFi Status.
 - To view the Bluetooth status, select **Bluetooth**.
 - To clear Bluetooth pairing, select Bluetooth → Clear?.
 - To view the log status, select Logs.
 - To view the Firmware Over The Air and Language pack download status, select Software.
 - To view the name of the radio, select Radio ID.
 - To view the radio serial number, select **Serial Number**.

Bluetooth

This feature allows your radio to connect to Bluetooth (BT)-enabled Headsets and Remote Speaker Microphones through BT connection.

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.

Turning the Bluetooth On or Off

Turning the Bluetooth On

Procedure:

From the menu, select **Bluetooth** $\rightarrow \checkmark$.

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

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

Turning the Bluetooth Off

Procedure:

From the menu, select **Bluetooth** \rightarrow **x**.

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

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

Viewing Bluetooth Connectivity Status

Procedure:

Press and hold the **Contacts/Info** button and select **Bluetooth**.

If your radio is searching for the last connected Bluetooth (BT) device, your radio shows Searching... and sounds the voice announcement.

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

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

Clearing Bluetooth Pairing

Procedure:

- 1 Press and hold the Contacts/Info button.
- $\textbf{2} \quad \text{Select Bluetooth Pairing} \rightarrow \textit{<device friendly name>} \rightarrow \textit{Menu/OK}.$

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

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

Contact List

By default, the contact list is accessible through press and hold on the programmable button. Contact your dealer for more information on the configuration.

The contact list only supports user that are available and set to Do Not Disturb (DND). If the contact is offline, it will be hidden from the list.

A contact name is no more than 30 alphanumberic characters and the contact list is displayed in an alphabertical order.

This feature supports fast scrolling by pressing and holding the P1 or P2 buttons when in contact list.

Accessing Contact List

Procedure:

- 1 To enter Contact List, press the **Contacts/Info** button.
- 2 To scroll through the Contact List, press the P1 or P2 button.
- **3** To exit Contact List, press the **Back/Home** button. or wait for the time out timer to expire. When the time out timer expires, you exit the Contact List automatically.

Menu

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

The following are the available features in the Menu.

Table 6: 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".
	NOTICE: 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.
Bluetooth	Allows you to enable and disable the Bluetooth.
Speaker	Allows you to select between internal speaker or external speaker.

Turning the All Alert Tones On or Off

Turning the All Alert Tones On

Procedure:

From the menu, select **All Alert Tones** $\rightarrow \checkmark$.

All Alert Tones are on and the Voice Announcement sounds.

Turning the All Alert Tones Off

Procedure:

From the menu, select **All Alert Tones** \rightarrow **x**.

All Alert Tones are off and the Voice Announcement sounds.

Adjusting Display Brightness

Procedure:

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

Turning the Voice Announcement On or Off

Turning the Voice Announcement On

Procedure:

From the menu, select **Voice Announcement** $\rightarrow \checkmark$.

The Voice Announcement is on.

Turning the Voice Announcement Off

Procedure:

From the menu, select **Voice Announcement** \rightarrow **x**.

The Voice Announcement is off.

Turning the DND On or Off

Turning the DND On

Procedure:

From the menu, select **DND** $\rightarrow \checkmark$.

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

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

Turning the DND Off

Procedure:

From the menu, select $DND \rightarrow x$.

If DND is off, the Voice Announcement sounds.

Turning the Scan On or Off

Turning the Scan On

Procedure:

From the menu, select **Scan** $\rightarrow \checkmark$.

Scan is on and the Voice Announcement sounds.

Turning the Scan Off

Procedure:

From the menu, select **Scan** \rightarrow **x**.

Scan is off and the Voice Announcement sounds.

Turning the Location On or Off

Turning the Location On

Procedure:

From the menu, select **Location** $\rightarrow \checkmark$.

Location is on and the Voice Announcement sounds.

Turning the Location Off

Procedure:

From the menu, select **Location** \rightarrow **x**.

Location is off and the Voice Announcement sounds.

Turning the Wi-Fi On or Off

Turning the Wi-Fi On

Procedure:

From the menu, select **Wi-Fi** \rightarrow \checkmark .

Wi-Fi is on and the Voice Announcement sounds.

Turning the Wi-Fi Off

Procedure:

From the menu, select **Wi-Fi** \rightarrow **x**.

Wi-Fi is off and the Voice Announcement sounds.

Turning the Cellular On or Off

Turning the Cellular On

Procedure:

From the menu, select **Cellular** $\rightarrow \checkmark$.

Cellular is on and the Voice Announcement sounds.

Turning the Cellular Off

Procedure:

From the menu, select **Cellular** \rightarrow **x**.

Cellular is off and the Voice Announcement sounds.

Switching between 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.

The Voice announcement sounds.

Instant Personal Alert

Instant Personal Alert (IPA) is a notification that you can send to a contact that is busy or unable to reply to a group or private call.

When you received an IPA, your radio sounds a tone and displays an icon and the sender alias.

The IPA received is stored in the IPA Status List and allows you to view and reply at any 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.

Sending IPA

Procedure:

Select Contacts/Info \rightarrow <required contact> \rightarrow Menu/OK button.

Your radio shows the following indications:

- · A tone sounds.
- The display shows Alert Sent.

Receiving IPAs

When and where to use: When you receive an 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 an IPA during a call, the IPA will not show on the radio display but is added to the IPA Status List. After the call is ended, your radio shows the following indications:

- · The amber LED blinks.
- The display shows the IPA icon.

Viewing IPA List

Procedure:

Press and hold the Contacts/Info button and select IPA.

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

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.

MN006371A01-AA

Chapter 16: Instant Personal Alert

- 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.

Emergency Operations

There are two ways in declaring or canceling an Emergency.

You can declare or cancel an Emergency locally by pressing the programmable button (Emergency button) or the Emergency button on your Bluetooth accessory.

You can also declare or cancel an Emergency remotely by an authorized user through WAVE APP or a dispatcher.

When Emergency is declared and radio enters into Emergency mode successfully, the display flashes with the Emergency icon. When the display flashes the Emergency icon, you are only allowed to view the battery status, volume control, make an emergency call and exit the emergency mode.

During the Emergency mode, any call launched is declared as Emergency Call.

Declaring Emergency

Procedure:

Press and hold the **Emergency** button.

The display shows a countdown from 3, 2, and 1 with increasing tone.

If Emergency is declared by mistake, during the countdown, release the **Emergency** button to cancel declaring Emergency.

If Emergency is declared successfully, your radio shows the following indications:

- The Emergency tone sounds.
- · The amber LED illuminates.
- · The display shows Emergency icon.

If Emergency is failed to declare, your radio returns to the previously selected channel.

Cancelling Emergency

Procedure:

Press and hold the **Emergency** button.

The display shows a countdown from 3, 2, and 1 with increasing tone.

If Emergency is declared by mistake, during the countdown, release the **Emergency** button to cancel declaring Emergency.

If Emergency is cancelled successfully, the display returns to previously selected channel.

Receiving Emergency Alerts

When you receive a Declared-Emergency Alert, your radio shows the following indications:

- · The Emergency tone sounds.
- · The amber LED blinks for 2 seconds.

- The display shows the Declared-Emergency Alert icon and the initiator's alias.
- The alert has a higher priority compare to making or receiving call.

When you receive a Cancelled-Emergency Alert, your radio shows the following indications:

- The Emergency tone sounds.
- The amber LED blinks until all Emergency Alerts are cleared from the Emergency Alert List.
- The display shows the Cancelled-Emergency Alert icon and the initiator's alias.
- · The alert has a higher priority compare to making or receiving call.

Responding to Emergency Alert

Procedure:

- 1 Press and hold the Contacts/Info button.
- 2 Select Emergency Alert → <required Emergency Alert List>.
 If the Emergency Alert List is empty, the Emergency Alert is not displayed.
- 3 To call, press and hold the PTT button.

Receiving Emergency Calls

When you receive a Emergency Call, your radio shows the following indications:

- The Emergency tone sounds.
- · The green LED lights up.
- For Group Call, the display shows the Emergency Call icon, Talkgroup Channel alias for 2 seconds, and then scroll to Caller Alias.
- For Private Call, the display shows the Emergency Call icon and the initiator's alias.

Clearing Emergency Alert List

Prerequisites: An Emergency Alert in the Emergency Alert List is cleared when a corresponding Cancelled-Emergency Alert is received. Else, manually clear the list with the following actions.

Procedure:

Perform one of the following actions:

- In the Emergency Alert List, press and hold the **Emergency** button on the Emergency Alert Alias that you want to clear.
- Power cycle your radio to clear all the Emergency Alerts.

When all Emergency Alerts are cleared, the **Emergency Alert** is not displayed from the **Contacts/Info** button option and the amber LED dissolves.

Area Talkgroup

When you enter a georgraphic 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 alpabertical order. Once you are added to the Area Talkgroup list, your radio receives calls from both the Area Talkgroup and the talkgroup the radio was on prior to entering the Area Talkgroup. To initiate an Area Talkgroup call, select the Area Talkgroup using the **Channel** button.

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, the call continues without dropping. When the call finally terminates, your radio then exit the Area Talkgroup.

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

Radio Stun

Radio Stun indicates that the radio is disabled.

When your radio is in Radio Stun mode, all the buttons except for the **Power**, **Contacts/Info**, **P1**, **P2**, **Back/Home**, and **Volume Up and Down** buttons are disabled. All voice activity and LED indications are disabled as well.

In powered on state, pressing the **Contacts/Info** button displays the Radio Stun screen.

User Disabled or Suspended

User Disabled or Suspended indicates that your account is disabled or suspended. When your account is disabled or suspended, you are not able to login to the PTT server.

Your radio sounds a tone, red LED blinks, and flashes the User Disable/suspended icon.

The Contacts/Info, Menu/OK, and Volume Up and Down buttons still works normally.

When you presses the **PTT** button, your radio tries to login to the PTT server. If your radio able to connect to the PTT server, it will bring you to the normal login screen, else the User Disable/ suspended icon flashes.

Radio Kill

Radio Kill indicates that your radio is permanently disabled.

In a normal Operation mode, when your radio receive a kill command, your radio will turn off.

While in Kill mode, there are no User Interface (UI) on your radio and you are not able to turn on your radio. Your radio can only be re-activated by Motorola Solutions.

Contact your dealer for more information.

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.

Authorized Accessories List

Table 7: Audio

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

Table 8: Antenna

Part Number	Description
AN000358A01	LTE Antenna
AN000359A01	GNSS Dash Mount 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			

Part Number	Description		
PMLN5620_	Connector Extender (20 pieces)		
RLN4836_R	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	1 Year
Product Accessories	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.

Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted Motorola Solutions software such as the exclusive rights to reproduce in copies and distribute copies of such Motorola Solutions software. Motorola Solutions software may be used in only the Product in which the software was originally embodied and such software in such Product may not be replaced, copied, distributed, modified in any way, or used to produce any derivative thereof. No other use including, without limitation, alteration, modification, reproduction, distribution, or reverse engineering of such Motorola Solutions software or exercise of rights in such Motorola Solutions software is permitted. No license is granted by implication, estoppel or otherwise under Motorola Solutions patent rights or copyrights.

VII. GOVERNING LAW

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

Legal and Compliance Statements

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

Phone Number: 1-800-927-2744 Hereby declares that the product:

Model Name: TLK 150

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.



NOTICE:

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

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

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

For country code selection usage (WLAN devices)



NOTICE: 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.

Wireless Device Country Approvals Regulatory markings, subject to certification, are applied to the device signifying that the radio(s) is/are approved for use in the US. Operation of the device without regulatory approval is illegal.

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.

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 subscriber unit or configuration of certain parameters. Please refer to your Motorola Solutions contact for further information.

Computer Software Copyrights

The Motorola Solutions products described in this manual may include copyrighted Motorola Solutions computer programs stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted computer programs including, but not limited to, the exclusive right to copy or reproduce in any form the copyrighted computer program. Accordingly, any copyrighted Motorola Solutions computer programs contained in the Motorola Solutions products described in this manual may not be copied, reproduced, modified, reverse-engineered, or distributed in any manner without the express written permission of Motorola Solutions. Furthermore, the purchase of Motorola Solutions products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents or patent applications of Motorola Solutions, except for the normal non-exclusive license to use that arises by operation of law in the sale of a product.

The AMBE+2[™] voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc.

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

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

Copyrights and Trademarks

© 2020 Motorola Solutions, Inc. All Rights Reserved

The Motorola Solutions products described in this document may include copyrighted Motorola Solutions computer programs. Laws in the United States and other countries preserve for Motorola

Solutions certain exclusive rights for copyrighted computer programs. Accordingly, any copyrighted Motorola Solutions computer programs contained in the Motorola Solutions products described in this document may not be copied or reproduced in any manner without the express written permission of Motorola Solutions.

No part of this document may be reproduced, transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, without the prior written permission of Motorola Solutions, Inc.

Furthermore, the purchase of Motorola Solutions products shall not be deemed to grant either directly or by implication, estoppel or otherwise, any license under the copyrights, patents or patent applications of Motorola Solutions, except for the normal non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

Trademarks

MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners.

Open Source Software

This Motorola Solutions product described in this document may contain Open Source Software. For information regarding the Open Source Software copyrights, attributions, licensing, and usage terms refer to:

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.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	ΙE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

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