



WAVE™ TWO-WAY RADIO
TLK 100i

USER GUIDE

en-US	es-ES	pl-PL
es-LA	el-GR	pt-PT
pt-BR	fr-FR	ro-RO
cs-CZ	it-IT	fi-FI
da-DK	hu-HU	sv-SE
de-DE	nl-NL	he-IL

OCTOBER 2020
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MN005652A01-AF

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: **TLK 100i**

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.

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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 Portable Two-Way Radios which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations.

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

Notice to Users (FCC)

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

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications made to this device, not expressly approved by Motorola Solutions, could void the authority of the user to operate this equipment.

Radio Care

This section describes the basic handling precaution of the radio.

- Keep your radio clean and exposure to water should be avoided to help ensure proper functionality and performance.
- To clean the exterior surfaces of the radio, use a diluted solution of mild dishwashing detergent and fresh water (for example, one teaspoon of detergent to one gallon of water).
- These surfaces should be cleaned whenever a periodic visual inspection reveals the presence of smudges, grease, and/or grime.



CAUTION:

The effects of certain chemicals and their vapors can have harmful results on certain plastics. Avoid using aerosol sprays, tuner cleaners, and other chemicals.

Software Version

All the features described in the following sections are supported by the software version **R03.00.00** or later.

Contact your dealer or administrator for more information.

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<http://docs.motorolasolutions.com/legal/TLK100.html>

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.

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 Blue-tooth On.	Typewriter words indicate the MMI strings or messages displayed on your radio.
<required ID>	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 or administrator may have customized your radio for your specific needs.

**NOTICE:**

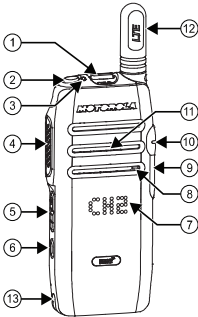
Not all features in the manual are available in your radio. Contact your dealer or administrator for more information.

You can consult your dealer or system administrator 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?

Radio Overview

This chapter explains the buttons and default functions of your radio.



No.	Buttons	Descriptions
1	Talkgroup/ Contact List Scroll Rocker	Press: Scroll to next channel/ talkgroup in the list. Press and hold: If there are more than 16 talkgroups, fast scroll is enabled.
2	Power/Info button	Press: Access Information mode. Press and hold: Turn the radio on and off.
3	LED Status Indicator	Red, green, and amber light- emitting diodes indicate operat- ing status.
4	Push-to-Talk (PTT) button	Press or press and hold to exe- cute voice operations.
5	Volume Up and Volume Down buttons	Increase and decrease the vol- ume level.
6	Menu/ Programma- ble button	Press: Access Menu mode.

No.	Buttons	Descriptions
		Press and hold: Access Programmable Function. The default programmable function is Contact List.
7	LED Display	Provides visual information.
8	Microphone	Allow voice to be sent during voice operations.
9	USB Port	For charging purposes.
10	Audio Accessory Port	A port to attached accessory devices.
11	High-Output Speaker	Outputs all tone and audio generated by the radio.
12	LTE Antenna	Provide the needed Radio Frequency (RF) amplification when transmitting and receiving.
13	Charging Contacts	For charging purposes.

Programmable Buttons

You can program the programmable buttons as shortcuts to specific radio functions through WAVE 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 or press and hold the **Menu/Programmable** button to launch the following features.



NOTICE:

Not all programmable buttons are listed in the following list, refer to the portal for more information.

Alert Tones

Allows you to toggle the Alert Tones on and off.

Bluetooth

Allows you to toggle the Bluetooth on and off.

Cellular

Allows you to toggle the Cellular on and off.

Contact List

Allows you to directly access the Contact List.

English

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 Announcements

Allows you to toggle Voice Announcements on and off.

Wi-Fi

Allows you to toggle the Wi-Fi on and off.

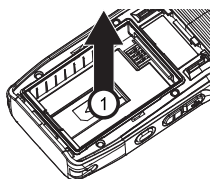
Getting Started

Getting Started provides instructions to prepare your radio for use.

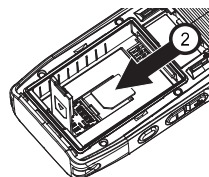
Inserting a SIM Card

Turn off your radio.

- 1 Lift the SIM card slot cover.



- 2 With the contacts facing down, align the card notched end first and slide the SIM card into the slot.

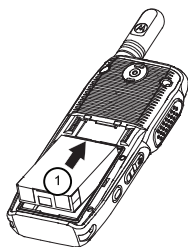


NOTICE:

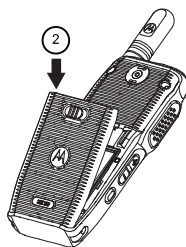
Depending on your radio model, if your radio has the SIM card slot, you can insert the SIM card as instructed. At any time, peeling off the radio label voids the warranty.

Attaching the Battery

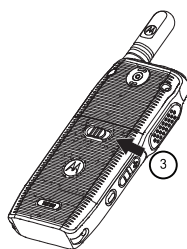
- 1 Align the battery contacts with the contacts inside the battery compartment.
 - a Insert the contact side of the battery first.
 - b Gently push the battery into place.



-
- 2** Attach the battery cover by aligning it in place and slide the battery latch until it snaps into place.



-
- 3** Slide the battery latch into lock position.

**NOTICE:**

All Motorola Solutions chargers can charge only Motorola Solutions authorized batteries. Other batteries may not charge. Motorola Solutions recommends that your radio remains powered off while charging.

- For best performance, charge a new battery 4 to 5 hours before initial use.

Batteries charge best at room temperature.

The display shows the battery charging icon momentarily. When charging is in progress, the red LED lights up. When charging is complete, the green LED illuminates until you detach the charger.

Charging the Battery

Your radio is powered by a Lithium-Ion (Li-Ion) battery.

- To comply with warranty terms and avoid damages, charge the battery using a Motorola Solutions charger exactly as described in the charger user guide.

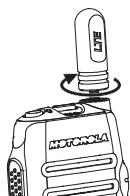
Attaching and Removing the Antenna

**CAUTION:**

If you must replace the antenna, ensure that you use TLK 100i antennas only. Neglecting this action damages your radio. See [Authorized Accessories List on page 55](#) for recommended antennas.

Turn off your radio.

- To attach the antenna, set the antenna in the receptacle and turn clockwise.



- To remove the antenna, turn the antenna counterclockwise.

Turning the Radio On or Off

- To turn on your radio, press and hold the **Power/Info** button.



NOTICE:

To turn on your radio when your radio is charging, press and hold the **Power/Info** button.

The green LED illuminates and the display shows a power-on animation.

- To turn off your radio, press and hold the **Power/Info** button.

Adjusting the Volume

- To increase the volume level, press the **Volume Up** button.
- To decrease the volume level, press the **Volume Down** button.

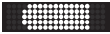
Status Indicators

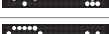
This chapter explains the Icons, battery capacity information, LED indicators, and tones used in the radio.

Icons

The following table shows icons which appear on your radio display, and their description.

Table 2: Display Icons

Icon	Description
	Battery Level
	Battery Charging
	Battery Charging Error
	Volume Level
	Mute Mode

Icon	Description
	Brightness Level
	Do Not Disturb On
	Do Not Disturb Off
	Voice Announcement On
	Voice Announcement Off
	Alert Tones On
	Alert Tones Off
	Cellular Signal Level
	Cellular Connection Failed/No SIM/Invalid SIM
	Wi-Fi Signal Level
	Wi-Fi Connection Failed

Icon	Description
	Location On
	Location Off
	Downloading Software/Software Available ¹
	Log Created/Uploading Log ²
	Bluetooth On
	Bluetooth Off
	Bluetooth Status for Searching
	Bluetooth Status for Connected
	Bluetooth Paired

Icon	Description
	Scan On
	Scan Off
	Instant Personal Alert (IPA)
	Emergency Mode
	Emergency Countdown
	Emergency Declared
	Emergency Cancelled
	Emergency Call
	Area Talkgroup

¹ When software is available, the display shows a static down arrow. When software is downloading, the display shows an animated down arrow.

² When log is created, the display shows a static down arrow. When log is uploading, the display shows an animated up arrow.

Icon	Description
	Radio Stun
	Ambient Listening
	Contact List Landing Page
	User Disabled/Suspended

Battery Capacity

The following table provides the battery capacity information of your radio. Icons and LED Indication appear when you press Power/Info button.

Table 3: Battery Capacity

Icon	LED In- dication	Voice An- nouncement	Descrip- tion
	● Solid green	Battery high	80%–100% capacity

Icon	LED In- dication	Voice An- nouncement	Descrip- tion
	● Solid amber	Battery medium	60%–80% capacity
	● Solid amber	Battery medium	25%–60% capacity
	● Blinking red	Battery low	5%–25% capacity
	● Blinking red	Battery very low	Less than 5% capacity

LED Indicators

LED indicators show the operational status and battery charging status of your radio.

Table 4: Operational Status and Charging Status

LED Indica- tion	Operational Mode	Charge Only Mode
Solid green	• Radio is power- ing on	Fully charged

LED Indication	Operational Mode	Charge Only Mode
	• Radio is transmitting • Ambient listening	
Blinking green	• Incoming call • During call hang-time • Enter Area Based Talkgroup	Not applicable
Solid red	Not applicable	Rapid charge
Blinking red	• Out-of-service • Charging failure • Faulty battery	• Charging failure • Faulty battery
Blinking red slowly	• Radio out of range	Not applicable

LED Indication	Operational Mode	Charge Only Mode
	• User Disabled or Suspended	
Blinking green and amber	In Do Not Disturb (DND) mode	Not applicable
Solid amber	Enter into Emergency mode	Not applicable
Blinking amber	• In Scan mode • Receive Emergency Alert • Receive Instant Personal Alert	Not applicable
No indication	• Radio powered off • Radio kill³ • Radio is idle	Not applicable

³ 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 **Talkgroup/Contact List Scroll Rocker** to perform the fast scroll. After the second channel, you can fast scroll the channels with an increment of 10.

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

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 alphanumeric characters and the contact list is displayed in an alphabetical order.

This feature supports fast scrolling by pressing and holding the **Talkgroup/Contact List Scroll Rocker** or **Volume Up and Volume Down** buttons when in contact list.

Accessing Contact List



NOTICE:
Depending on the configuration of your radio, press or press and hold the **Menu/Programmable** button to directly access the feature. Else, manually enter the feature with the following procedure.

- 1 Press the **Menu/Programmable** button.

- 2 Locate the Contact List icon.
- 3 To view the contact list, press the **Volume Up and Volume Down** button.

Radio Calls

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

Group Call

A call to a group of user. Your radio must be configured as a member of the group for you to communicate with each other.

Private Call

A call from an individual radio to another individual radio.

Broadcast Call

A call from an individual radio to every radio or user of the broadcast talkgroup.

Used to make important announcements, that require your full attention.

You cannot respond to Broadcast Calls.

Group Calls

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

Making Group Calls

- 1

Select a channel with the active talkgroup.
- 2

Press and hold the **PTT** button to make the call.
The green LED lights up. The display shows the talkgroup alias.
- 3

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

Release the **PTT** button to listen.
The green LED blinks when the target radio responds. The display shows the talkgroup alias.
- 

NOTICE:
The call ends when there is no voice activity for a predetermined period. The radio returns to the screen you were on before initiating the call.

Responding to Group Calls

When you receive a Group Call:

- The green LED blinks.
 - Your radio generates a momentary incoming call alert tone before unmuting to the caller's audio.
- 1 To respond to the call, press **PTT** button.
The green LED lights up.

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

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



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

Private Calls

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

Making Private Calls



NOTICE:
Depending on the configuration of your radio, press or press and hold the **Menu/Programmable** button to directly access the feature. Else, manually enter the feature with the following procedure.

- 1 Press the **Menu/Programmable** button.

- 2 To select contact, scroll contact list using **Talkgroup/Contact List Scroll Rocker** or **Volume Up and Volume Down** buttons until the right contact is displayed.



NOTICE:
If "X" precedes the contact, the contact is in Do Not Disturb (DND) mode and a reject tone sounds when **PTT** button is pressed.

- 3 Press and hold the **PTT** button to make the call.
The green LED lights up. The display shows the caller alias.

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

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

Responding to Private Calls

When you receive a Private Call:

- The green LED blinks.
 - Your radio generates an inbound call alert tone before the inbound audio call.
 - You hear a short alert tone the moment the transmitting radio releases the **PTT** button, indicating the channel is free for you to respond.
- 1 To respond to the call, press **PTT** button.
- The green LED lights up.

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

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



NOTICE:

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

Broadcast Calls

A Broadcast Call is a call from an individual radio to every radio on the channel.

Broadcast Calls are used to make important announcements, that require your full attention. You cannot respond to Broadcast Calls.

If you switch to a different channel while receiving the call, your radio stops receiving the Broadcast Call. You cannot use any side button functions until the call ends.

To receive calls from or make calls to the group of users using broadcast call, your radio must be configured to the broadcast call talkgroup by your dealer.

Making Broadcast Calls

- 1 Press the programmed **Talkgroup/Contact List Scroll Rocker**.

- 2 Press and hold the **PTT** button to make the call.
- The display shows a countdown from 3, 2, and 1.

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

The green LED lights up. The display shows the call alias.



NOTICE:

The call ends when there is no voice activity for a predetermined period. The radio returns to the screen you were on before initiating the call.



NOTICE:

The Broadcast call has a higher priority compare to Group Call and Private Call, but a lower priority compare to Emergency Call.

Your radio is able to receive Broadcast Calls even when "Do not Disturb" (DND) mode is enabled.

Receiving Broadcast Calls

When you receive a Broadcast Call:

- The green LED blinks.
- Your radio generates a receive broadcast alert tone before the broadcast audio.

Supervisory Override

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

If the user is receiving or transmitting a call and the current ongoing call is interrupted by a supervisory call, your radio unmutes to the supervisory call and display the alias of the supervisor.



NOTICE:

Contact your dealer or administrator for more information on the configuration.

Checking Radio Information

Press the **Power/Info** button repeatedly.

The radio displays one of the following depending on the mode/state.

- 1 Emergency Alert List⁴
 - 2 Instant Personal Alert (IPA) List⁴
 - 3 Radio Stun/Maintenance Mode⁴
 - 4 Battery/Charging Status
 - 5 Cell Status
 - 6 Wi-Fi Status
 - 7 Location Status
 - 8 Bluetooth Status
 - 9 Diagnostic Upload Status
 - 10 Software Status
 - 11 Radio Name
-

⁴ If this feature is disabled, you will not see it on your radio.

Checking Battery Strength

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

Press the **Power/Info** button.

One of the following occurs:

- The LED lights up solid green indicating high battery capacity.
- The LED lights up solid yellow indicating medium battery capacity.
- The LED blinks red indicating low battery capacity.

Cellular and Wi-Fi Values

You are allowed to check your cellular and Wi-Fi signal strength in your radio.

Your radio provides the following types of signal strength indication beside the icon:

- 0 = No signal
- 1 = Poor signal
- 2 = Fair signal
- 3–4 = Good signal
- 5 = Excellent signal
- X = Connection fails

Checking Cellular or Wi-Fi Signal Strength

- Press the **Power/Info** button until you see the Cellular Strength or Wi-Fi Strength icon.

The radio displays the Cellular Strength icon and Wi-Fi Strength icon and shows the current values.

Menu

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

The following are the available features in the Menu.

Table 5: List of Features

Feature	Description
All Alert Tones	Allows you to enable and disable All Alert Tones.
Display Brightness	Allows you to adjust the display brightness on your radio.
Voice Announcements	Allows you to enable and disable the Voice Announcements.
Do Not Disturb (DND)	Allows you to change the mode of your radio from available to "do not disturb".

Feature	Description
	 NOTICE: When DND is enabled, you will not be able to receive any group call, quick group call, or 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.

Do Not Disturb

Do Not Disturb (DND) allows you to change the status of the radio from available to unavailable.

When DND is enabled, an LED blinks and you will not be able to receive any private call. A negative tone sounds when a call is initiated to indicate that the call cannot be connected.

Turning DND On or Off



NOTICE:
Depending on the configuration of your radio, press or press and hold the **Menu/Programmable** button to directly access the feature. Else, manually enter the feature with the following procedure.

- 1 Press the **Menu/Programmable** button.
- 2 Locate the Do Not Disturb (DND) icon.
- 3 To turn on DND, press the **Volume Up** button. To turn off, press the **Volume Down** button.

If DND is on, the following occurs:

- Voice Announcement sounds Do Not Disturb On.
- The display shows a check mark beside the DND icon.
- The LED displays a blinking green light and amber light periodically.

If DND is off, the following occurs:

- Voice Announcement sounds Do Not Disturb Off.
- The display shows an "X" mark beside the DND icon.

Turning Voice Announcement On or Off



NOTICE:
Depending on the configuration of your radio, press or press and hold the **Menu/Programmable** button to directly access the feature. Else, manually enter the feature with the following procedure.

- 1 Press the **Menu/Programmable** button.
- 2 Locate the Voice Announcement icon.
- 3 To turn on Voice Announcement, press the **Volume Up** button. To turn off, press the **Volume Down** button.

If Voice Announcement is on, the following occurs:

- Voice Announcement sounds Voice Announcement On.