



PROFESSIONAL DIGITAL TWO-WAY RADIO

MOTOTRBO™ SL7550 PORTABLE USER GUIDE

Declaration of Conformity

This declaration is applicable to your radio **only** if your radio is labeled with the FCC logo shown below.

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, U.S.A.

Phone Number: 1-800-927-2744

Hereby declares that the product:

Model Name: **SL 7550**

conforms to the following regulations:

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

Class B Digital Device

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

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

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

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

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

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Important Safety Information

Product Safety and RF Exposure Compliance



Caution

Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet enclosed with your radio.

ATTENTION!

This radio is restricted to occupational use only to satisfy FCC/ICNIRP RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet enclosed with your radio (Motorola Publication part number 6881095C98) to ensure compliance with RF energy exposure limits.

For a list of Motorola-approved antennas, batteries, and other accessories, visit the following website:

<http://www.motorolasolutions.com/governmentandenterprise>

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

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication

Firmware Version

All the features described in the following sections are supported by the radio's firmware version **R02.02.00** or later.

See ***Checking the Firmware Version and Codeplug Version*** on page 93 to determine your radio's firmware version.

Check with your dealer or system administrator for more details of all the features supported.

Computer Software Copyrights

The Motorola products described in this manual may include copyrighted Motorola computer programs stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola 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 computer programs contained in the Motorola 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. Furthermore, the purchase of Motorola 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, 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.

Open Source Software Legal Notices

This Motorola Product contains Open Source Software. For information regarding licenses, acknowledgements, required copyright notices, and other usage terms, refer to the Documentation for this Motorola Product at:

<http://www.motorola.com/businessonline>

Handling Precautions

The MOTOTRBO Series Digital Portable radio meets IP54 specifications. Your radio limits protection against dust and water exposure.

- 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 (i.e. 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 on certain chemicals and their vapors can have harmful results on certain plastics. Avoid using aerosol sprays, tuner cleaners and other chemicals.

RF Energy Exposure and Product Safety Guidelines and Instructions

See more detailed proper usage instructions, warnings and cautions in the Regulatory Compliance and Product Safety Guide.



1To ensure a comfortable audio level and compliance with RF energy exposure limits, do not hold against the ear or alongside the head.



2Use only in front of the face or with Motorola Solutions approved audio accessories and carry cases to ensure compliance with RF energy exposure limits.

Operating Precautions

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50% of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).
- To protect your hearing, use the lowest volume necessary to do your job, turn down the volume before adding a headset or earpiece, and limit the amount of time you use headsets or earpieces at high volume.
- User awareness instructions should accompany device when transferred to other users.

NOTE: For more details please read the information about RF Energy Exposure Awareness and Control Information and Operational Instructions for Occupational Use in the Quick Reference Guide/Safety Booklet (Motorola Publications number 68009553001) provided with your radio.

Notes

Notes

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English

Getting Started

Take a moment to review the following:

How to Use This Guide	page 1
What Your Dealer/System Administrator Can Tell You	page 1

■ How to Use This Guide

This User Guide covers the basic operation of the MOTOTRBO SL7550 Digital Portable Radios.

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

Selected features are also available on this single-site trunking mode, Capacity Plus. See **Capacity Plus** on **page 13**.

■ What Your Dealer/System Administrator Can Tell You

You can consult your dealer or system administrator about the following:

- Is your radio programmed with any preset conventional channels?
- Which buttons have been programmed to access other features?
- What optional accessories may suit your needs?
- What are the best radio usage practices for effective communication?
- What maintenance procedures will help promote longer radio life?

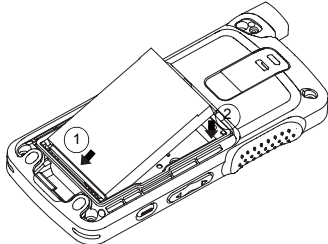
Preparing Your Radio for Use

Assemble your radio by following these steps:

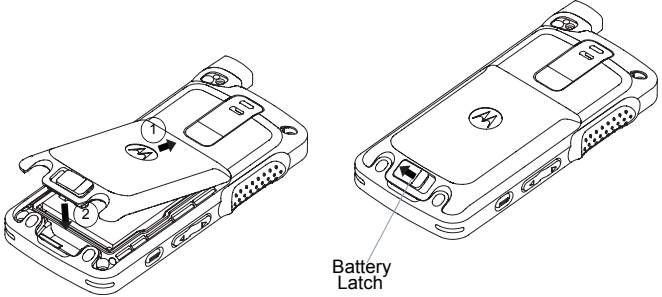
- Attaching the Battery page 2
- Charging the Battery page 3
- Attaching the Earpiece/Audio Accessory page 4
- Powering Up the Radio page 4
- Adjusting the Volume page 5

Attaching the Battery

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



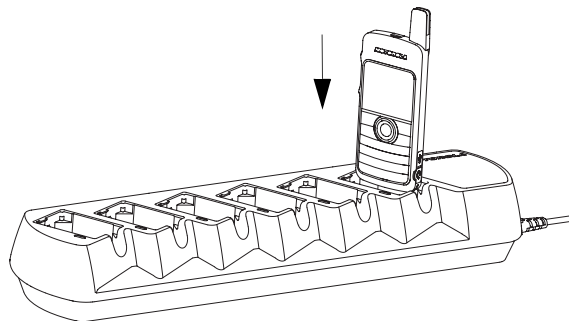
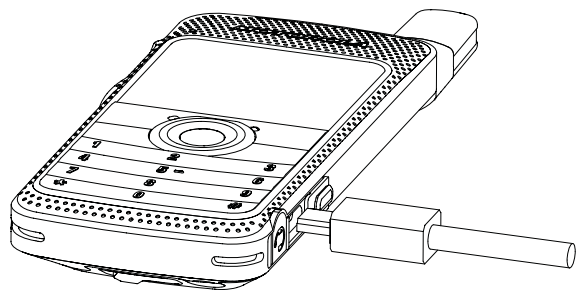
To attach battery cover, align it in place and slide the battery latch until it snaps into place. Slide battery latch into lock position.



■ Charging the Battery

Your radio is powered by a Lithium-Ion (Li-Ion) battery. To avoid damage and comply with warranty terms, charge the battery using a Motorola charger *exactly* as described in the charger user guide. All chargers can charge only the Motorola authorized batteries. Other batteries may not charge.

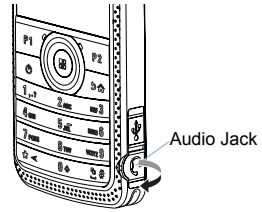
Charge a new battery 14 to 16 hours before initial use for best performance. Prior to charging a battery with the radio, it is recommended to turn the radio off. Batteries charge best at room temperature.



NOTE: The battery charging icon will be displayed until the user unplugs the USB cable or takes the radio out of the charger.

■ Attaching the Earpiece/Audio Accessory

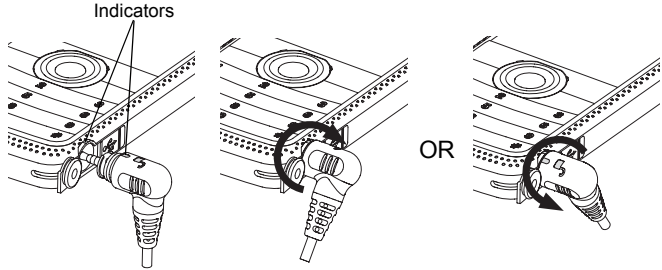
The audio jack is located on the antenna side of the radio. It is used to connect MOTOTRBO SL7550 accessories to the radio.



Lift up the flap of the Audio Jack cover. Align the indicators on both the connector and housing, then push until it fits in properly.

Rotate connector clockwise or counterclockwise to lock.

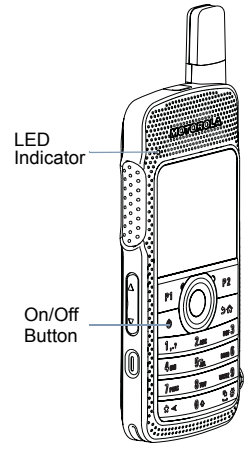
To unlock, rotate until the indicators on both the connector and housing are aligned. Pull out the connector gently to disconnect from radio.



■ Powering Up the Radio

Press the **On/Off** button on the front keypad. You see MOTOTRBO (TM) on the radio's display momentarily, followed by a welcome message or welcome image.

The LED lights up solid green and the Home screen lights up. The backlight depends on the last brightness setting.



NOTE: Brightness is set via the manual brightness mode or auto brightness is controlled by the radio's photo sensor. The Home screen does not light up during a power up if the LED indicator is disabled (see **Turning the LED Indicator On or Off** on page 88).

A brief tone sounds, indicating that the power up test is successful.

NOTE: There is no power up tone if the radio tones/alerts function is disabled (see **Turning the Radio Tones/ Alerts On or Off** on page 83).

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

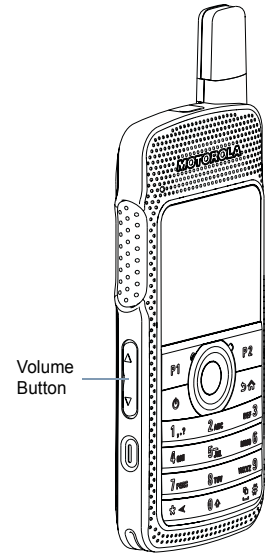
*To turn off the radio, press the **On/Off** button again and hold for 2 seconds. You see a brief Powering Down on the radio's display.*

■ Adjusting the Volume

To increase the volume, push the **Volume Button** up.

To decrease the volume, push the Volume Button down.

NOTE: Your radio can be programmed to have a minimum volume offset where the volume level cannot be lowered past the programmed minimum volume. Check with your dealer or system administrator for more information.

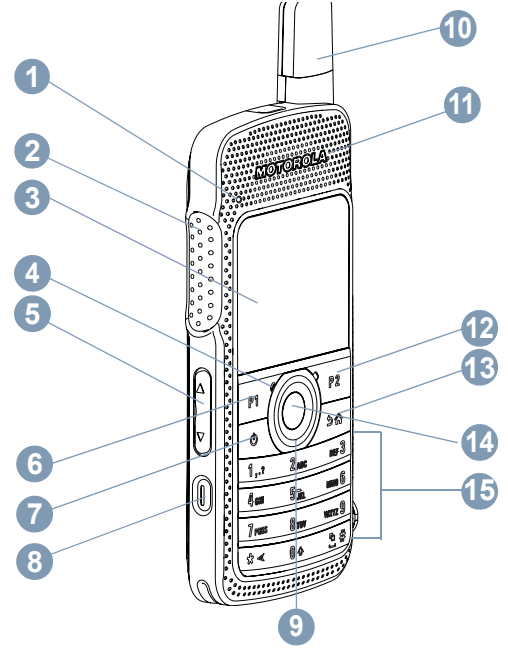


Identifying Radio Controls

Take a moment to review the following:

Radio Controls page 6
 Programmable Buttons page 7
 Using the 4-Way Navigation Disc page 9
 Accessing the Programmed Functions page 10
 Using the Keypad page 11
 Push-To-Talk (PTT) Button page 12
 Capacity Plus page 13

Radio Controls



- 1 LED Indicator
- 2 Push-to-Talk (PTT) Button
- 3 Display

- 4 Microphone
- 5 Volume Button
- 6 Front Button P1*
SP: _____ LP: _____
- 7 On/Off Button
- 8 Emergency Button*
- 9 4-way Navigation Disc
- 10 Antenna
- 11 Speaker
- 12 Front Button P2 *
SP: _____ LP: _____
- 13 Back/Home Button
- 14 Menu/OK Button
- 15 Keypad

* These buttons are programmable.

■ Programmable Buttons

Your dealer can program the programmable buttons as shortcuts to **radio functions** or **preset channels/groups** depending on the duration of a button press:

- Short press – Pressing and releasing rapidly (0.05 seconds).
- Long press – Pressing and holding for the programmed duration (between 1.00 second and 3.75 seconds).
- Hold down – Keeping the button pressed.

NOTE: The programmed duration of a button press is applicable for all assignable radio/utility functions or settings. See **Emergency Operation** on page 53 for more information on the programmed duration of the **Emergency** button.

For your convenience, a programmable button can also be customized to support up to 9 of your favorite features. Please consult your dealer for programming options.

Assignable Radio Functions

Actions – A programmable button to access a CPS programmable action list.

Audio Routing – Toggles audio routing between internal radio speaker and external accessory speakers.

Power Battery Indicator – Displays the current status of the battery level.

Bluetooth® Audio Switch – Toggles audio routing between internal radio speaker and external Bluetooth-enabled accessory.

Contacts – Provides direct access to the contacts list.

Call Alert – Direct access to the radio contacts list to select a radio contact to send a call alert to.

Call Log – Selects the call log list.

Channel Announcement – Plays zone and channel announcement voice messages for the current channel.

Display Radio Alias - Shows radio display name.

Emergency – Depending on the programming, initiates or cancels an emergency alarm or call.

Intelligent Audio On/Off – Toggles intelligent audio on or off.

Job Tickets – Allows the user to view and act upon job tickets.

Manual Dial for Private Call – Allows the user to dial a private call manually.

Manual Site Roam* – Starts the manual site search.

Mic AGC On/Off – Toggles the internal microphone automatic gain control (AGC) on or off.

Monitor – Monitors a selected channel for activity.

Notifications – Provides direct access to the Notifications list.

Nuisance Channel Delete* – Temporarily removes an unwanted channel, except for the Selected Channel, from the scan list. The Selected Channel refers to the user's selected zone/channel combination from which scan is initiated.

One Touch Access – Directly initiates a predefined Private or Group Call, a Call Alert or a Quick Text message.

Option Board Feature – Toggles option board feature(s) on or off for option board-enabled channels.

Permanent Monitor* – Monitors a selected channel for all radio traffic until function is disabled.

Privacy – Toggles privacy on or off.

Radio Alias and ID – Provides radio alias and ID.

Radio Check – Determines if a radio is active in a system.

Radio Enable – Allows a target radio to be remotely enabled.

Radio Disable – Allows a target radio to be remotely disabled.

Remote Monitor – Turns on the microphone of a target radio without it giving any indicators.

Repeater/Talkaround* – Toggles between using a repeater and communicating directly with another radio.

** Not applicable in Capacity Plus*

Ring Alert Type – Provides direct access to the Ring Alert Type Setting.

Scan – Toggles scan on or off.

Site Lock On/Off* – Toggles the automatic site roam on or off.

Text Message – Selects the text message menu.

Transmit Interrupt Remote Dekey – Stops the transmission of a remote monitored radio without giving any indicators, or an ongoing interruptible call to free the channel.

Unassigned – Unassigned programmable button.

Voice Announcement On/Off – Toggles voice announcement on or off.

Voice Operating Transmission (VOX) – Toggles VOX on or off.

Zone – Allows selection from a list of zones.

Assignable Settings or Utility Functions

All Tones/Alerts – Toggles all tones and alerts on or off.

Brightness – Allows brightness to be set via the manual brightness mode or auto brightness control via the radio's photo sensor.


Display Mode – Toggles the day/night display mode on or off.

Keypad Lock – Toggles keypad between locked and unlocked.


Wallpaper – Displayed on home screen.


* Not applicable in Capacity Plus

■ Using the 4-Way Navigation Disc

You can use the 4-way navigation disc, , to scroll through options, increase/decrease values, and navigate vertically.

Category	Direction	
	▲ or ▼	◀ or ▶
Menu	Vertical Navigation	–
Lists	Vertical Navigation	–
View Details	Vertical Navigation	Previous/Next Item
Numeric Values	Increase/Decrease	–

You can use the 4-way navigation disc, , as a number, alias, or free form text editor.

The  button can be used to change the channels in the home screen.

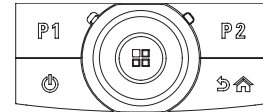
Press the Menu/OK button to select your desired channel.

Editor Category	Direction	
	▲ or ▼	◀ or ▶
Number	–	Left: Delete last digit Right: –
Alias	–	Move cursor one character left/right.
Free Form Text	Move cursor up/down.	Move cursor one character left/right.





■ Accessing the Programmed Functions

You can access various radio functions through one of the following ways:

- A short or long press of the relevant programmable buttons.















OR

- Use the 4-way navigation disc as follows:
 - 1 To access the menu, press the  button. Press ▲ or ▼ to access the required menu function.
 - 2 Press  to select a function or enter a sub-menu.
 - 3 To go back one menu level, or to return to the previous screen, press the  button. Long press the  button to return to the Home screen.

NOTE: Your radio automatically exits the menu after a period of inactivity and returns to your Home screen.

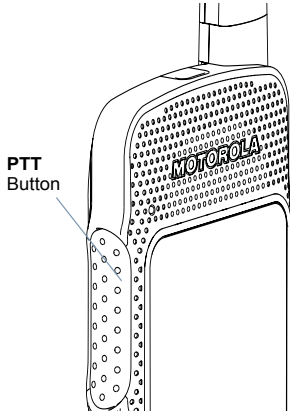
■ Using the Keypad

You can use the alphanumeric keypad to access your radio's features. You can use the keypad to enter subscriber aliases or IDs, and text messages. Many characters require that you press a key multiple times. The table below shows the number of times a key needs to be pressed to generate the required character.

Key	Number of Times Key is Pressed												
	1	2	3	4	5	6	7	8	9	10	11	12	13
	1	.	,	?	!	@	&	'	%	-	:	*	#
	A	B	C	2									
	D	E	F	3									
	G	H	I	4									
	J	K	L	5									
	M	N	O	6									
	P	Q	R	S	7								
	T	U	V	8									
	W	X	Y	Z	9								
	0	NOTE: Press to enter "0" and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.											
	* or del	NOTE: Press during text entry to delete the character. Press during numeric entry to enter a "***".											
	# or space	NOTE: Press during text entry to insert a space. Press during numeric entry to enter a "#".											

■ Push-To-Talk (PTT) Button

The **PTT** button on the side of the radio serves two basic purposes:



- While a call is in progress, the **PTT** button allows the radio to transmit to other radios in the call.

Press and hold down **PTT** button to talk. Release the **PTT** button to listen.

The microphone is activated when the **PTT** button is pressed.

- While a call is not in progress, the **PTT** button is used to make a new call (see **Making a Radio Call** on page 25).

If the Talk Permit Tone (see **Turning the Talk Permit Tone On or Off** on page 84) is enabled, wait until the short alert tone ends before talking .

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

*You will also hear a continuous talk prohibit tone, if your call is interrupted, indicating that you should release the **PTT** button, for example when the radio receives an Emergency Call.*

■ Capacity Plus

Capacity Plus is a single-site trunking configuration of the MOTOTRBO radio system, which uses a pool of channels to support hundreds of users and up to 254 Groups. This feature allows your radio to efficiently utilize the available number of programmed channels while in Repeater Mode.

When Capacity Plus is enabled, features not applicable to Capacity Plus are not available in the menu. Also, you hear a negative indicator tone if you try to access a feature not applicable to Capacity Plus via a programmable button press.

Your radio also has features that are available in both conventional digital mode and Capacity Plus. However, the minor differences in the way each feature works does NOT affect the performance of your radio.

Check with your dealer or system administrator for more information on this system configuration.

Identifying Status Indicators

Your radio indicates its operational status through the following:

Display Icons	page 14
Call Icons	page 16
Utilities Icons	page 16
Mini Notice Icons	page 17
Sent Item Icons	page 17
Job Tickets Icons	page 18
LED Indicator	page 18
Audio Tones	page 19
Indicator Tones	page 20

Display Icons

Your radio has a 2 inch landscape display with QVGA (Quarter Video Graphics Array) 16-bit color resolution.

The following are icons that appear on the radio's display. Icons are displayed arranged left-most in order of appearance/usage.



Received Signal Strength Indicator (RSSI)

The number of bars displayed represents the radio signal strength. Four bars indicate the strongest signal. This icon is only displayed while receiving.



Battery

The number of bars shown indicates the charge remaining in the battery. Blinks when the battery is low.



Battery Discharging Status

Shows battery discharging status.



Bluetooth Not Connected

The Bluetooth feature is enabled but there is no remote Bluetooth device connected.



Bluetooth Connected

The Bluetooth feature is enabled. The icon stays lit when a remote Bluetooth device is connected.