

MOTOROLA SOLUTIONS R7 Portable Two-Way Radios



MOTOROLA SOLUTIONS R7 Portable Two Way Radios User Guide

[Home](#) » [Motorola Solutions](#) » **MOTOROLA SOLUTIONS R7 Portable Two Way Radios User Guide** 

Contents

- [1 MOTOROLA SOLUTIONS R7 Portable Two-Way Radios](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Frequently Asked Questions](#)
- [5 Important Safety Information](#)
- [6 Radio Controls](#)
- [7 Attaching the Battery](#)
- [8 LED Indicators](#)
- [9 Lightbar Color Indicators](#)
- [10 Display Icons](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)



MOTOROLA SOLUTIONS

MOTOROLA SOLUTIONS R7 Portable Two-Way Radios



Product Information

Specifications

- **Product Name:** MOTOTRBO R7 Portable Two-Way Radios
- **Model Number:** MN007843A01-AC
- **Language:** English
- **Release Date:** December 2023

Product Usage Instructions

Attaching the Battery

1. Align the battery with the rails on the back of the radio.
2. Press the battery firmly and slide upwards until the latch snaps into place.
3. Slide the battery latch into the lock position.

Attaching the Antenna

1. Turn off the radio.
2. Set the antenna in the receptacle and turn it clockwise.

Turning the Radio On and Off

- Rotate the On/Off/Volume knob clockwise or counterclockwise until a click sounds.

Adjusting the Volume

- Rotate the On/Off/Volume knob clockwise or counterclockwise to adjust the volume.

LED Indicators

- **Blinking Red:** The Radio has failed the self-test, moved out of range, Mute mode enabled, received an emergency transmission, transmitted in a low battery state, or indicated a battery mismatch.
- **Solid Green:** The radio is powering up, transmitting, sending a Call Alert, or an emergency transmission.

Frequently Asked Questions

Q: How do I provision my radio before use?

A: Your radio needs to be provisioned by your dealer or system administrator. Refer to the R7 Provisioning Guide for detailed instructions.

Q: What should I do if the LED indicator shows a blinking red light?

A: A blinking red LED indicator can indicate various issues. Check if the radio has failed the self-test, moved out of range, has Mute mode enabled, is receiving an emergency transmission, is transmitting in a low battery state, or if there's a battery mismatch.

Your Quick Reference Guide

- This Quick Reference Guide covers the basic operation of the radio. Check with your dealer or system administrator because your radio may have been customized for your specific needs.
- Your radio will need to be provisioned before use. This is typically done by your dealer or system administrator and customized for your specific needs. For more information, refer to the following link:
<https://learning.motorolasolutions.com>.
- **R7 Series User Guide:** MN007848A01
- **R7 Provisioning Guide:** MN007868A01

Important Safety Information

- RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

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.

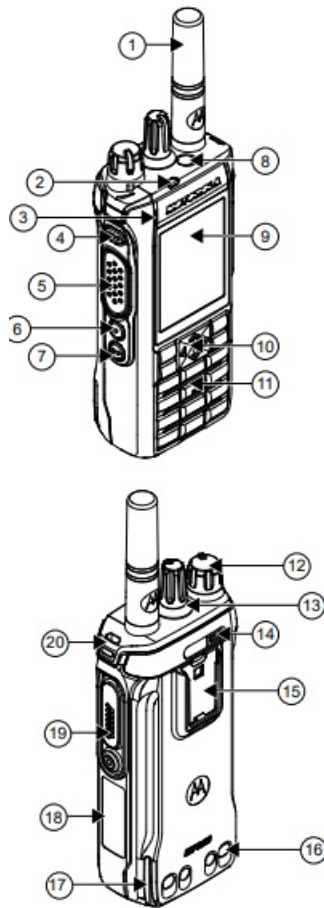
ATTENTION!

- This radio is restricted to Occupational use only. 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.
- 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.
- This radio transmitter has been approved by Industry Canada to operate with a Motorola Solutions-approved antenna with maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

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Radio Controls



1. Antenna
2. LED Indicator
3. Front Microphone
4. 3-Dot Programmable Feature button
5. Push-to-Talk (PTT) button
6. 1-Dot Programmable Feature button
7. 2-Dot Programmable Feature button
8. Emergency button
9. Display
10. Keypad
11. Speaker
12. On/Off/Volume knob
13. Channel Selector knob
14. Rear Microphone
15. Belt Clip Slot
16. Charging Contacts
17. Charging Rail
18. Device Labeling Area
19. Accessory Connector
20. Lanyard Hole

Attaching the Battery

NOTE: For optimal performance, charge a new battery 14 to 16 hours before initial use.

1. Align the battery with the rails on the back of the radio.
2. Press the battery firmly, and slide upwards until the latch snaps into place.
3. Slide the battery latch into the lock position.

Attaching the Antenna

1. Turn off the radio.
2. Set the antenna in the receptacle and turn clockwise.

Turning the Radio On and Off

- Rotate the On/Off/Volume knob clockwise or counterclockwise until a click sounds.

Adjusting the Volume

- Rotate the On/Off/Volume knob clockwise or counterclockwise.

LED Indicators

Blinking Red

- Radio has failed the self-test upon powering up, has moved out of range if Auto-Range Transponder System is configured, has
- Mute mode enabled, is receiving an emergency transmission, is transmitting in a low battery state, or is indicating a battery mismatch.

Solid Green

- Radio is powering up, transmitting, or sending a Call Alert or an emergency transmission.

Blinking Green

- Radio is receiving a call or data, detecting activity over the air, or retrieving Over-the-Air Programming transmissions.

Double Blinking Green

- Radio is receiving a privacy-enabled call or data.

Solid Yellow

- Radio is monitoring a conventional channel or in Bluetooth Discoverable Mode.

Blinking Yellow

- Radio is scanning for activity, has Flexible Receive List enabled, has yet to respond to a Call Alert, or all Capacity Plus-Multi-Site channels are busy.

Double Blinking Yellow







- Radio has Auto Roaming enabled, has yet to respond to a Group Call Alert, is actively searching for a new site, is not connected to the repeater while in Capacity Plus, is locked, or all Capacity Plus channels are busy.










Lightbar Color Indicators

- The following color indicators appear on the home screen on the left side of the radio display.
- **Light Blue** Radio is available for call.
- **Yellow** The radio is receiving calls.
- **Red** Radio transmits calls.
- **Grey** The radio is unprogrammed or not connected.

Display Icons

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


	Emergency
	Scan
	Notification
	Tone Disabled
	Battery
	Secure

	Unsecure
	Bluetooth Connected
	Auto Roaming
	RSSI
	Talkaround
	Wi-Fi
	Power Level
	Tx Inhibit
	Mute

NOTES

- www.motorolasolutions.com/mototrbo
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Documents / Resources

	MOTOROLA SOLUTIONS R7 Portable Two Way Radios [pdf] User Guide R7 Portable Two Way Radios, Portable Two Way Radios, Two Way Radios, Radios
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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