MOTOROLA SOLUTION R7 Portable Two Way Radios User Guide

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MOTOROLA SOLUTION R7 Portable Two Way Radios

Product Information

Specifications:

- **Model:** MOTOTRBOTM R7
- **Type:** Portable Two-Way Radios
- **Language Options:** en-US, es-LA, pt-BR
- **Release Date:** December 2024

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 clockwise to attach it securely.

Turning the Radio On and Off:
Rotate the On/Off/Volume knob clockwise or counterclockwise until a click sound is heard to turn the radio on or off.

Adjusting the Volume:
To adjust the volume, rotate the On/Off/Volume knob clockwise or counterclockwise as needed.

LED Indicators:

- **Blinking Red:** Indicates various conditions such as failed self-test, out of range, Mute mode, emergency transmission, low battery, or battery mismatch.
- **Solid Green:** Indicates powering up, transmitting, Call Alert, or emergency transmission.
- **Blinking Green:** Indicates receiving a call or data, detecting activity, or retrieving OTA transmissions.
- **Double Blinking Green:** Indicates receiving a privacy-enabled call or data.
- **Solid Yellow:** Indicates monitoring a channel or in Bluetooth Discoverable Mode.

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. Refer to booklet 6881095C98, RF Energy Exposure Training and Product Safety Information for Portable Two-Way Radios at **https://learning.motorolasolutions.com/**.

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.

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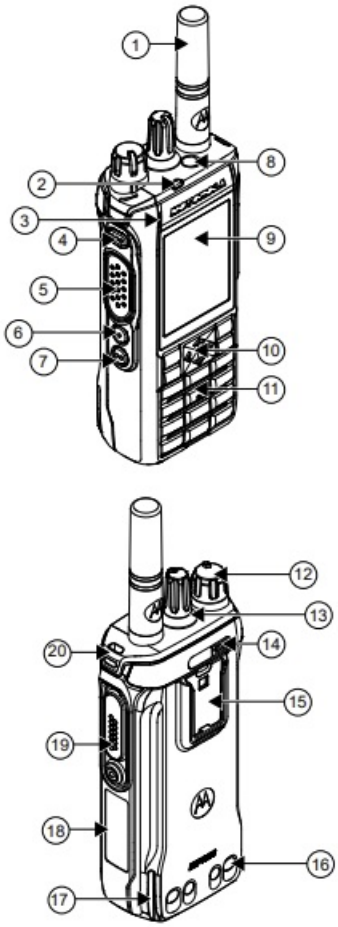
Radio Controls

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. Keypad1
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 battery latch into 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 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 at the left side of the radio display.

- Light Blue Radio is available for call.
- Yellow Radio is receiving call.
- Red Radio is transmitting call.
- Grey 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 left most 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

Faixa	SAR W/Kg (Cabeça)	SAR W/Kg (Corpo)
VHF	2,030	2,130
UHF	3,705	3,230
350 MHz	5,040	6,560
800 MHz	1,750	3,960

www.motorolasolutions.com/mototrbo

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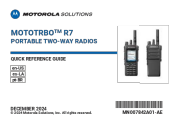
FAQ

Q: How long should I charge a new battery before initial use?
A: For optimal performance, charge a new battery for 14 to 16 hours before initial use.

Q: What does a blinking red LED indicator mean?
A: A blinking red LED can indicate various conditions like a failed self-test, out of range, Mute mode, emergency transmission, low battery, or battery mismatch.

Documents / Resources

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

References

- MOTOTRBO Digital Mobile Radios (DMR) - Motorola Solutions
- User Manual

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