

MOTOTRBO™ TWO-WAY RADIOS

MOTOTRBO R5 Portable Radio User Guide

DECEMBER 2025

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Contents

List of Figures.....	8
List of Tables.....	9
Legal and Support.....	10
Intellectual Property and Regulatory Notices.....	10
Legal and Compliance Statements.....	11
Supplier's Declaration of Conformity.....	11
ISED WLAN Statement.....	12
Notice to Users (FCC).....	12
Notice to Users (ISED).....	12
Citizens Band License.....	12
Citizens Band Repeater Operation.....	13
25 kHz Land Mobile Band to 12.5 kHz Narrow Band Transition.....	13
Important Safety Information.....	13
Maritime Radio Use in the VHF Frequency Range.....	14
Special Channel Assignments.....	14
Operating Frequency Requirements.....	14
Declaration of Compliance for the Use of Distress and Safety Frequencies.....	17
Regulatory Compliance Information.....	17
Warranty and Service Support.....	17
Batteries and Chargers Warranty.....	17
The Workmanship Warranty.....	17
The Capacity Warranty.....	18
Limited Warranty.....	18
MOTOROLA SOLUTIONS COMMUNICATION PRODUCTS.....	18
I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:.....	18
II. GENERAL PROVISIONS.....	18
III. STATE LAW RIGHTS:.....	19
IV. HOW TO GET WARRANTY SERVICE.....	19
V. WHAT THIS WARRANTY DOES NOT COVER.....	19
VI. PATENT AND SOFTWARE PROVISIONS.....	19
VII. GOVERNING LAW.....	20
VIII. For Australia Only.....	20
Chapter 1: Read Me First.....	21
1.1 Software Version.....	22
Chapter 2: Introduction.....	23
Chapter 3: Radio Care.....	24

3.1 Storing Your New Radio.....	24
3.2 Radio Cleaning and Disinfecting.....	25
Chapter 4: Battery Care.....	26
4.1 Battery Storage.....	26
4.2 Battery Life Extension.....	26
4.3 Battery Charging Temperature.....	26
4.4 Additional Battery Warnings or Cautions.....	26
Chapter 5: Radio Overview.....	27
5.1 Keypad Overview.....	30
5.2 Programmable Buttons.....	31
5.3 Icons.....	33
5.3.1 Display Icons.....	33
5.3.2 Advanced Menu Icons.....	35
5.3.3 Call Icons.....	35
5.3.4 Mini Notice Icons.....	36
5.3.5 Sent Items Icons.....	36
5.4 LED Indications.....	37
Chapter 6: System Overview.....	38
6.1 Conventional Analog and Digital Modes.....	38
6.2 IP Site Connect.....	38
6.3 Capacity Plus.....	38
6.4 Direct Mode or Dual Capacity Direct Mode.....	39
Chapter 7: Getting Started.....	40
7.1 Charging the Battery.....	40
7.2 Attaching the Battery.....	40
7.3 Removing the Battery.....	40
7.4 Attaching the Antenna.....	41
7.5 Removing the Antenna.....	41
7.6 Using the Carry Case.....	41
Inserting the Radio into the Carry Case.....	41
Removing the Radio from the Carry Case.....	42
7.7 Attaching the Accessory Connector Cover.....	42
7.8 Removing the Accessory Connector Cover.....	42
7.9 Attaching the Accessory Connector.....	43
7.10 Turning the Radio On.....	43
7.11 Turning the Radio Off.....	43
7.12 Holding Your Radio While Transmitting Audio.....	43
7.13 Adjusting the Volume.....	44
Chapter 8: Zone and Channel Selections.....	45

8.1 Selecting Zones.....	45
8.2 Selecting Channels.....	45
Chapter 9: Types of Radio Calls.....	46
9.1 Making Calls on the Radio.....	47
9.2 Receiving and Responding to Calls on the Radio.....	47
Chapter 10: Call Alert Operation.....	48
10.1 Making Call Alerts.....	48
10.2 Responding to Call Alerts.....	48
Chapter 11: Call Indicator Settings.....	49
11.1 Activating or Deactivating Call Ringers.....	49
Activating Call Ringers.....	49
Deactivating Call Ringers.....	49
11.2 Assigning Ring Styles.....	49
11.3 Ring Alert Type.....	49
11.3.1 Selecting Ring Alert Types.....	50
Chapter 12: Call Log Features.....	51
12.1 Viewing Recent Calls.....	51
12.2 Deleting Calls from the Call List.....	51
12.3 Viewing Details from the Call List.....	51
Chapter 13: Contacts Settings.....	52
13.1 Making Group Calls or Private Calls with Contact List.....	52
13.2 Setting Default Contacts.....	52
Chapter 14: Dynamic Caller Alias.....	53
14.1 Viewing the Caller Aliases List.....	53
14.2 Initiating Private Calls From the Caller Aliases List.....	53
Chapter 15: Bluetooth®.....	54
15.1 Bluetooth Profiles.....	54
15.2 Turning the Bluetooth On.....	54
15.3 Turning the Bluetooth Off.....	55
15.4 Connecting to Bluetooth Devices.....	55
15.5 Disconnecting from Bluetooth Devices.....	56
15.6 Switching Audio Route between Internal Radio Speaker and Bluetooth Device.....	56
15.7 Viewing Device Details.....	56
15.8 Deleting Device Names.....	57
Chapter 16: Emergency Operation.....	58
16.1 Sending Emergency Alarms.....	59
16.2 Sending Emergency Alarms with Call.....	59
16.3 Sending Emergency Alarms with Voice to Follow.....	60
16.4 Receiving Emergency Alarms.....	60

16.5 Reinitiating the Emergency Mode.....	60
16.6 Exiting the Emergency Mode.....	61
Chapter 17: Voice Interrupt.....	62
17.1 Enabling the Voice Interrupt.....	62
17.2 Initiating Transmit Interrupt.....	62
Chapter 18: Auto-Range Transponder System.....	63
Chapter 19: Front Panel Programming.....	64
19.1 Entering the Front Panel Programming.....	64
Chapter 20: Home Channel Reminder.....	65
20.1 Muting the Home Channel Reminder.....	65
20.2 Setting New Home Channels.....	65
Chapter 21: Lone Worker.....	66
Chapter 22: Monitor Feature.....	67
22.1 Monitoring Channels.....	67
22.2 Permanent Monitor.....	67
22.2.1 Setting the Permanent Monitor.....	67
Chapter 23: Priority Monitor.....	68
23.1 Receive Group List.....	68
Chapter 24: Remote Monitor.....	69
24.1 Initiating the Remote Monitor.....	70
Chapter 25: Mute Mode.....	71
25.1 Turning the Mute Mode On.....	71
25.2 Setting the Mute Mode Timer.....	71
25.3 Exiting the Mute Mode.....	71
Chapter 26: Notification List.....	73
26.1 Accessing the Notification List.....	73
Chapter 27: Over-the-Air Programming.....	74
Chapter 28: Scan.....	75
28.1 Turning the Scan On.....	75
28.2 Turning the Scan Off.....	76
28.3 Scan Talkback.....	76
28.4 Nuisance Channels.....	76
28.4.1 Deleting Nuisance Channels.....	76
28.4.2 Restoring Nuisance Channels.....	77
28.5 Vote Scan.....	77
28.6 Scan Lists.....	77
28.6.1 Editing Priority for the Scan List.....	77
28.6.2 Viewing the Scan List.....	78

28.6.3 Adding New Entries to the Scan List.....	78
28.6.4 Deleting Entries from the Scan List.....	78
28.7 Multi-Talkgroup Affiliation.....	79
28.7.1 Adding the Talkgroup Affiliation.....	79
28.7.2 Removing the Talkgroup Affiliation.....	79
Chapter 29: Response Inhibit.....	80
29.1 Setting the Response Inhibit.....	80
Chapter 30: Radio Check.....	81
30.1 Sending Radio Checks.....	81
Chapter 31: Received Signal Strength Indicator.....	82
31.1 Viewing RSSI Values.....	82
Chapter 32: Rental Timer.....	83
32.1 Accessing Rental Timer Information.....	83
32.2 Rental Expiry Reminder.....	83
32.3 Extending the Rental Period.....	84
Chapter 33: Security.....	85
33.1 Disabling Radios.....	85
33.2 Enabling Radios.....	85
Chapter 34: Service and Support.....	87
34.1 Accessing Notifications.....	87
34.2 Accessing Service and Support.....	87
34.3 Viewing Service Contact.....	88
Chapter 35: Text Messaging.....	89
35.1 Viewing Text Messages.....	89
35.2 Sending Text Messages.....	90
35.3 Responding to Text Messages.....	90
35.4 Forwarding Text Messages.....	90
35.5 Deleting Text Messages.....	91
Chapter 36: Wi-Fi Operation.....	92
36.1 Turning Wi-Fi On or Off.....	92
36.2 Network Access Point Connection.....	92
36.3 Checking Wi-Fi Connection Status.....	93
36.4 Viewing Details of Network Access Points.....	93
Chapter 37: Utilities.....	94
37.1 Talkaround.....	94
37.1.1 Toggling Between Repeater and Talkaround Mode.....	94
37.2 Setting Radio Tones and Alerts.....	94
37.3 Setting Power Levels.....	94
37.4 Adjusting Display Settings.....	95

37.5 Setting Squelch Levels.....	95
37.6 Keypad Lock Options.....	95
37.6.1 Locking or Unlocking the Keypad.....	96
37.7 Setting Languages.....	96
37.8 Setting LED Indicator.....	96
37.9 Password Lock.....	96
37.9.1 Accessing Radios with Password.....	96
37.9.2 Unlocking Radios in Locked State.....	97
37.9.3 Setting the Password Lock.....	97
37.9.4 Changing Passwords.....	98
37.10 Voice Announcement.....	98
37.10.1 Setting the Voice Announcement.....	98
37.11 Setting the Automatic Call Forwarding.....	98
37.12 Setting the Microphone Automatic Gain Control.....	99
37.13 Setting the Noise Suppress.....	99
37.14 Setting the Acoustic Feedback Suppressor.....	99
37.15 Setting the Intelligent Audio.....	100
37.16 Privacy.....	100
37.16.1 Setting Privacy.....	100
37.16.2 Privacy-Enabled Calls.....	101
37.17 Voice Operating Transmission.....	101
37.17.1 Setting the Voice Operating Transmission.....	101
37.18 Accessing the Radio Information.....	102
37.19 Viewing Enterprise Wi-Fi Certificate Details.....	102
37.20 Global Navigation Satellite System.....	102
37.20.1 Setting the GNSS.....	102
Chapter 38: Authorized Accessories List.....	103

List of Figures

Figure 1: R5 LKP.....	23
Figure 2: R5 NKP.....	23
Figure 3: Limited Keypad Overview.....	27
Figure 4: Non-Keypad Overview.....	29
Figure 5: Keypad Overview.....	30

List of Tables

Table 1: VHF Marine Channel List.....	15
Table 2: Special Notations.....	21
Table 3: The Feature Access and Indications of Different Radio Model.....	23
Table 4: IP Specification.....	24
Table 5: Limited Keypad Model Overview.....	27
Table 6: Non-Keypad Model Overview.....	29
Table 7: Keypad Overview.....	30
Table 8: Assignable Radio Functions.....	31
Table 9: Display Icons.....	33
Table 10: Advanced Menu Icons.....	35
Table 11: Call Icons.....	36
Table 12: Mini Notice Icons.....	36
Table 13: Sent Items Icons.....	36
Table 14: LED Indicators.....	37
Table 15: Correct and Incorrect Radio Placement in Carry Case.....	41
Table 16: Correct and Incorrect Orientation to Button The Carry Case.....	42
Table 17: Number of Supported Zones and Channels.....	45
Table 18: Types of Radio Calls.....	46
Table 19: Bluetooth Profiles.....	54
Table 20: Default Settings.....	58
Table 21: Emergency Modes.....	58
Table 22: Auto-Range Transponder System Indications.....	63
Table 23: Hot Mic Sources.....	69
Table 24: Scan Methods.....	75
Table 25: Scan Talkback Type.....	76
Table 26: Text Message Types and the Character Limits.....	89
Table 27: Privacy Types and Settings.....	100

Legal and Support

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European Union (EU) and United Kingdom (UK) Waste of Electrical and Electronic Equipment (WEEE) Directive



The European Union's WEEE directive and the UK's WEEE regulation require that products sold into EU countries and the UK must have the crossed-out wheeled bin label on the product (or the package in some cases). As defined by the WEEE directive, this crossed-out wheeled bin label means that customers and end users in EU and UK countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end users in EU and UK countries should contact their local equipment supplier representative or service center for information about the waste collection system in their country.

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

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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: 2000 Progress Pkwy, Schaumburg, IL. 60196

Phone Number: 1-800-927-2744

Hereby declares that the product:

Model Name: **R5**

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 or TV technician for help.

For country code selection usage (WLAN devices)



NOTE: 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.

ISED WLAN Statement



CAUTION:

1. The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250–5350 MHz and 5470–5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
3. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725–5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
4. Where applicable, antenna type(s), antenna model(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

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.

Notice to Users (ISED)

The operation of your Motorola Solutions radio is subject to the Radiocommunications Act and must comply with rules and regulations of the Federal Government's department of Innovation, Science, and Economic Development Canada (ISED). ISED requires that all operators using Private Land Mobile frequencies obtain a radio license before operating their equipment.

Citizens Band License

The use of the Citizens Band radio service is licensed in Australia by the Australian Communications and Media Authority (ACMA) Radiocommunications (Citizens Band Radio Stations) Class Licence and in New Zealand by the Ministry of Economic Development New Zealand (MED) General User Radio Licence (GURL) for Citizens Band Radio, and operation is subject to the conditions contained in those licences.

In Australia, a Citizens Band transmitter shall not be operated on UHF emergency channels 5 and 35 and no voice transmissions are permitted on data (telemetry/telecommand) channels 22 and 23, except in an emergency. The radio that complies to this Standard will inhibit voice operation on channels 22 and 23. In the event that additional telemetry/telecommand channels are approved by the ACMA, these channels shall be added to those currently listed where voice transmission is inhibited.

Always listen on a channel (or observe a channel-busy indicator) to ensure it is not already being used before transmitting.

Citizens Band Repeater Operation

A repeater is a station established at a fixed location that receives radio signals from one Citizens Band station and automatically retransmits the signal to another station using the corresponding output channel. UHF Citizens Band repeaters can be found in all states and enable the range of vehicle to vehicle communications to be significantly increased. Avoid operating on locally used repeater input channels (which are in the range of channels 31 to 38, and channels 71 to 78 when they are authorized) or locally used repeater receiving channels (which will be in the range channels 1 to 8, and channels 41 to 48 when they are authorized), unless long-distance communication via the repeater facility is specifically required.



NOTE: In Australia, channel 11 is the customary calling channel for establishing communication and channel 40 is the customary road vehicle channel.

25 kHz Land Mobile Band to 12.5 kHz Narrow Band Transition

The existing use of 25 kHz analogue land mobile channels is to cease by 1 November 2015. This period is in accordance with the minimum period (five years) specified in the Radio Regulations for giving notice of revocation of a licence of an undefined duration.

Land mobile frequency bands with an offset channel plan (E, EN, and ENX bands) require a different treatment to manage the introduction of digital land mobile radio (due to potential adjacent channel interference risks). The following items apply to these bands:

- Users of E band (25 kHz channels) wanting to transition to digital prior 1 November 2015, can migrate to the EE band (also in the VHF range) or any other band open for digital land mobile radio licensing.
- E band users wanting to continue operating analogue services after the five year transition period can migrate to 12.5 kHz analogue channels in the EN band (also in the VHF range) or any other band open for narrow band analogue land mobile radio.
- Introduction of digital land mobile radio in the EN and ENX bands prior to 1 November 2015 will be considered on a case by case basis. Licensing of digital land mobile radio in these bands will be possible in areas where E band users have vacated the band, or when rigorous engineering analysis guarantees no risk of interference to other band users.

For the list of currently authorized channels, please refer to the following websites:

- <https://www.acma.gov.au/licences/citizen-band-radio-stations-class-licence> (Australia)
- <https://www.rsm.govt.nz/licensing/frequencies-for-anyone/citizen-band-radio-gurl/> (New Zealand)

Important Safety Information

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



CAUTION:

This radio is restricted to Occupational use only. Before using the radio, read the RF Energy Exposure and Product Safety Guide that comes with the radio. This guide contains operating instructions for safe usage, 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 Innovation, Science, and Economic Development Canada (ISED) regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. 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 Innovation, Science, and Economic Development Canada (ISED) to operate with Motorola Solutions-approved antenna with the 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.

Maritime Radio Use in the VHF Frequency Range

This section is only applicable for United States and Canada only.

Special Channel Assignments

Emergency Channel

If you are in imminent and grave danger at sea and require emergency assistance, use VHF Channel 16 to send a distress call to nearby vessels and the United States Coast Guard. Transmit the following information, in this order:

1. "MAYDAY, MAYDAY, MAYDAY."
2. "THIS IS _____, CALL SIGN _____." State the name of the vessel in distress 3 times, followed by the call sign or other identification of the vessel, stated 3 times.
3. Repeat "MAYDAY" and the name of the vessel.
4. "WE ARE LOCATED AT _____." State the position of the vessel in distress, using any information that will help responders to locate you, e.g.:
 - latitude and longitude
 - bearing (state whether you are using true or magnetic north)
 - distance to a well-known landmark
 - vessel course, speed or destination
5. State the nature of the distress.
6. Specify what kind of assistance you need.
7. State the number of persons on board and the number needing medical attention, if any.
8. Mention any other information that would be helpful to responders, such as type of vessel, vessel length and/or tonnage, hull color, etc.
9. "OVER."
10. Wait for a response.
11. If you do not receive an immediate response, remain by the radio and repeat the transmission at intervals until you receive a response. Be prepared to follow any instructions given to you.

Non-Commercial Call Channel

For non-commercial transmissions, such as fishing reports, rendezvous arrangements, repair scheduling, or berthing information, use **VHF Channel 9**.

Operating Frequency Requirements

A radio designated for shipboard use must comply with Federal Communications Commission Rule Part 80 as follows:

- on ships subject to Part II of Title III of the Communications Act, the radio must be capable of operating on the 156.800 MHz frequency.
- on ships subject to the Safety Convention, the radio must be capable of operating:
 - in the simplex mode on the ship station transmitting frequencies specified in the 156.025–157.425 MHz frequency band, and
 - in the semiduplex mode on the two frequency channels specified in the table below.


 **NOTE:** Additional information about operating requirements in the Maritime Services can be obtained from the full text of FCC Rule Part 80 and from the US Coast Guard.

Table 1: VHF Marine Channel List

Channel Number	Frequency (MHz)	
	Transmit	Receive
1	156.050	160.650
2	156.100	160.700
*1	156.150	160.750
4	156.200	160.800
5	156.250	160.850
6	156.300	–
7	156.350	160.950
8	156.400	–
9	156.450	156.450
10	156.500	156.500
11	156.550	156.550
12	156.600	156.600
13**2	156.650	156.650
14	156.700	156.700
15**2	156.750	156.750
16	156.800	156.800
17**2	156.850	156.850
18	156.900	161.500
19	156.950	161.550
20	157.000	161.600
*1	157.050	161.650
22	157.100	161.700
*1	157.150	161.750
24	157.200	161.800

¹ Simplex channels 3, 21, 23, 61, 64, 81, 82, and 83 cannot be **lawfully used** by the general public in US waters.

² Low power (1 W) only.

25	157.250	161.850
26	157.300	161.900
27	157.350	161.950
28	157.400	162.000
60	156.025	160.625
*1	156.075	160.675
62	156.125	160.725
63	156.175	160.775
*1	156.225	160.825
65	156.275	160.875
66	156.325	160.925
67**2	156.375	156.375
68	156.425	156.425
69	156.475	156.475
71	156.575	156.575
72	156.625	-
73	156.675	156.675
74	156.725	156.725
75	***3	***3
76	***3	***3
77**2	156.875	-
78	156.925	161.525
79	156.975	161.575
80	157.025	161.625
*1	157.075	161.675
*1	157.125	161.725
*1	157.175	161.775
84	157.225	161.825
85	157.275	161.875
86	157.325	161.925
87	157.375	161.975
88	157.425	162.025



NOTE: A - in the Receive column indicates that the channel is transmit only.

³ Guard band.

Declaration of Compliance for the Use of Distress and Safety Frequencies

The radio equipment does not employ a modulation other than the internationally adopted modulation for maritime use when it operates on the distress and safety frequencies specified in RSS-182 Section 5.4.

Regulatory Compliance Information



China

The CMIIT ID is shown on the radio equipment identification label.

India

This product(s) conforms to the relevant Essential Requirements of TEC, Department of Telecommunications, Ministry of Communications, Govt. of India, New Delhi-110001

AZH07JDC9VA1AN	AZH07JDC9VA1AN-TIA
AZH07JDH9VA1AN	AZH07JDH9VA1AN-TIA
AZH07JDH9WA1AN	AZH07JDH9WA1AN-TIA
AZH07RDC9VA1AN	AZH07RDC9VA1AN-TIA
AZH07RDH9VA1AN	AZH07RDH9VA1AN-TIA
AZH07RDH9WA1AN	AZH07RDH9WA1AN-TIA

Singapore

This IMDA label is applicable to these products:

AZH07JDC9VA1AN	AZH07JDH9VA1AN	AZH07JDH9WA1AN
AZH07RDC9VA1AN	AZH07RDH9VA1AN	AZH07RDH9WA1AN



Warranty and Service Support

Batteries and Chargers Warranty

The Workmanship Warranty

The workmanship warranty guarantees against defects in workmanship under normal use and service.

All MOTOTRBO Batteries	Please refer to the warranty statement of your region.
------------------------	--

IMPRES Chargers (Single-Unit and Multi-Unit, with Display)	12 Months
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The Capacity Warranty

The capacity warranty guarantees 80% of the rated capacity for the warranty duration.

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:

Portable Radios	Please refer to the warranty statement of your region.
Product Accessories	One (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.
8. Rechargeable batteries if 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.
9. Freight costs to the repair depot.
10. 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.
11. Scratches or other cosmetic damage to Product surfaces that does not affect the operation of the Product.
12. 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.

VIII. For Australia Only

This warranty is given by Motorola Solutions Australia Pty Limited (ABN 16 004 742 312) of Tally Ho Business Park, 10 Wesley Court, Burwood East, Victoria.

Our goods come with guarantees that cannot be excluded under the Australia Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Motorola Solutions Australia's limited warranty above is in addition to any rights and remedies you may have under the Australian Consumer Law. If you have any queries, please call Motorola Solutions Australia at 1800 457 439. You may also visit our website: http://www.motorolasolutions.com/XA-EN/Pages/Contact_Us for the most updated warranty terms.

Chapter 1

Read Me First

This user guide covers the basic operations of the radio models offered in your region.

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.



NOTE: 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 2: 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>	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



NOTE:

Not all features in the manual are available on your radio. Some features vary by geographical region. Your dealer or administrator may also customize your radio for your specific needs. 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?

1.1

Software Version

All the features described in the following sections are supported by the software version **TRBO2025.02_FW_R02.25.02.1000** and onward.

Contact your dealer or administrator for more information.



Chapter 2


Introduction

This user guide is written as per the highest tier model offered to your region.

The following table describes ways to access features for different radio models. You receive different indications depending on your radio model.

Table 3: The Feature Access and Indications of Different Radio Model

	Limited Keypad	Non-Keypad
Radio Model	Figure 1: R5 LKP	Figure 2: R5 NKP
		
Feature Access	<ul style="list-style-type: none"> ● Menu ● Programmable Button 	Programmable Button
Feature Indication	<ul style="list-style-type: none"> ● Tone ● LED indicator ● Display ● Voice Announcement 	<ul style="list-style-type: none"> ● Tone ● LED indicator ● Voice Announcement

 **NOTE:** To understand which feature is available with the **Programmable Button**, see [Programmable Buttons on page 31](#) topic.

Chapter 3

Radio Care

This section describes the basic handling precaution of your radio.

Table 4: IP Specification

IP Specification	Description
IP67	Allows your radio to withstand adverse field conditions such as being submersed in water between 15 cm and 1 m for 30 minutes or dust tight for 2–8 hours.



CAUTION: Do not disassemble your radio. This could damage radio seals and result in leak paths into the radio. Radio maintenance must 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 battery contact area has been exposed to water, clean and dry battery contacts on both your radio and the battery before attaching the battery to radio. The residual water could short-circuit the radio.
- If your radio has been submerged in a corrosive substance (for example, saltwater), rinse your radio and battery in fresh water then dry both radio and battery.
- 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).
- Never poke the vent (hole) located on the radio chassis below the battery contact. This vent allows for pressure equalization in the radio. Doing so can create a leak path into radio and your radio's submersibility can be lost.
- Never obstruct or cover the vent, even with a label.
- Ensure that no oily substances come in contact with the vent.
- Your radio with antenna attached properly is designed to be submersible to a maximum depth of 1 m (3.28 ft) and a maximum submersion time of 30 minutes. Exceeding either maximum limit or use without antenna can result in damage to your radio.
- When cleaning your radio, do not use a high-pressure jet spray on radio as this will exceed the 1 m depth pressure and can cause water to leak into your radio.

3.1

Storing Your New Radio

Procedure:

1. Detach the battery and accessories from your radio.
2. Keep your radio with the detached battery and accessories in the original packaging.
3. Store the packaging in a controlled environment.

The following are the conditions for the controlled environment:

- Dry
- Well ventilated

- Temperature ranges from 68 °F/20 °C to 86 °F/ 30 °C
- 30% to 60% humidity



NOTE: Minor discoloration can occur if you store the radio for an extended period. However, the discoloration typically does not impact the performance of your radio.

3.2

Radio Cleaning and Disinfecting

This topic describes the recommended cleaning agents and the methods to clean the external and internal surfaces of your radio. External surfaces include the front cover, housing assembly, and battery. These surfaces should be cleaned whenever a periodic visual inspection reveals the presence of smudges, grease, or grime.



CAUTION: Use all chemicals as prescribed by the manufacturer. Follow all safety precautions as defined on the label or material safety data sheet. The effects of certain chemicals and their vapors can have harmful results on certain plastics. Avoid using aerosol sprays, tuner cleaners, and other chemicals.



NOTE: Only clean internal surfaces when your radio is disassembled for service or repair.

Motorola Solutions provides recommended cleaning and disinfecting guidelines for your radios, based on current and best understanding of radio hygiene. As per global health authorities, removing germs, dirt, and impurities from surfaces lowers the risk of spreading infection. For more information on recommended cleaning and disinfecting guidelines, refer to the following links:

- <https://youtu.be/cYjxoUNCXZo>
- <https://www.motorolasolutions.com/newsroom/press-releases/recommended-cleaning-and-disinfecting-guidelines-for-our-radios-body-worn-c.html>

Chapter 4

Battery Care

This section describes the basic handling precautions of the battery.

4.1

Battery Storage

The storage temperature range of the battery is from +20 °C to +30 °C.

New Lithium-Ion batteries can be stored in ventilated, cool, and dry areas with some capacity loss in the life cycle.

Charge the battery if the battery is to be stored for a long period of time. Do not store a fully discharged battery.

Remove the battery pack from your radio if your radio is not to be used for a long period of time (a few weeks).

4.2

Battery Life Extension

A battery is an expendable part and requires replacing during the life of your radio.

To ensure maximum service life of your radio, always replace the battery with a genuine Motorola Solutions replacement.

4.3

Battery Charging Temperature

The temperature range of battery operation is from 0 °C to +45 °C in charger mode. During charging, if the temperature is out of range, the battery cannot be fully charged as the charging is temporarily stopped until the temperature becomes suitable.

4.4

Additional Battery Warnings or Cautions

- To prevent injury, do not allow metal objects to touch the battery contacts.
- Do not disassemble.
- Do not throw in fire.
- Do not dispose of battery in household waste.
- Keep battery away from children.
- Defective battery cannot be reused. In accordance with the national regulation, the defective battery must be disposed of in an environmentally friendly manner.

Chapter 5

Radio Overview

Figure 3: Limited Keypad Overview



Table 5: Limited Keypad Model Overview

Label	Name	Description
1	Antenna	To transmit and receive electromagnetic waves.
2	Push-to-Talk (PTT) Button	Allows you to execute voice operations (for example, Group Call and Private Call).
3	Programmable Side Button 1	A programmable button of an assignable radio function.
4	Programmable Side Button 2	A programmable button of an assignable radio function.
5	Side Label	This area, 11.70 mm x 11.70 mm (square), is for applying an adhesive label that clearly indicates the presence of NFC and RFID logo indication purposes.
6	Keypad	Allows you to navigate through the radio menu options.


Label	Name	Description
7	Display	The radio display screen.  NOTE: Using the radio programming software, you can program your radio display as a two-line display or three-line display.
8	Microphone	Allows your voice to be sent when PTT or voice operations are activated.
9	Speaker	Outputs all tones and audio that are generated by the radio (for example, features such as keypad tones and voice audio).
10	LED Indicator	Provides operating status.
11	Emergency button	Allows you to turn on and off the Emergency Operations.
12	Accessory Connector	Allows you to connect accessories to your radio.
13	Charging Rail	Provides a guideline for the placement during charging.
14	Charging Contacts	Charging point for the battery.
15	Battery	Provides power to your radio.
16	Belt Clip Slot	Allows you to attach a belt clip.
17	Channel Selector knob	Allows you to select a channel.
18	On/Off/Volume knob	Allows you to turn the radio on or off and adjust the volume.

Figure 4: Non-Keypad Overview



Table 6: Non-Keypad Model Overview

Label	Name	Description
1	Antenna	To transmit and receive electromagnetic waves.
2	Push-to-Talk (PTT) button	Allows you to execute voice operations (for example, Group Call and Private Call).
3	Programmable Side Button 1	A programmable button of an assignable radio function.
4	Programmable Side Button 2	A programmable button of an assignable radio function.
5	Side Label	This area, 11.70 mm x 11.70 mm (square), is for applying an adhesive label that clearly indicates the presence of NFC and RFID logo indication purposes.
6	Microphone	Allows your voice to be sent when PTT or voice operations are activated.
7	Speaker	Outputs all tones and audio that are generated by the radio (for example, features such as keypad tones and voice audio).
8	LED Indicator	Provides operating status.
9	Emergency button	Allows you to turn on and off the Emergency Operations.
10	Accessory Connector	Allows you to connect accessories to your radio.

Label	Name	Description
11	Charging Rail	Provides a guideline for the placement during charging.
12	Charging Contacts	Charging point for the battery.
13	Battery	Provides power to your radio.
14	Belt Clip Slot	Allows you to attach a belt clip.
15	Channel Selector knob	Allows you to select a channel.
16	On/Off/Volume knob	Allows you to turn the radio on or off and adjust the volume.

5.1 Keypad Overview

Figure 5: Keypad Overview



Table 7: Keypad Overview

Label	Button Name	Description
1	Programmable Button 1 (P1)	This button is field programmable using the radio programming software.
2	Left Button	Press left to navigate through your options.
3	Menu Button	Press to access the Menu feature.
4	OK Button	In the menu, use this key to select an option.
5	Back/Home Button	Press to return to the previous screen. Press and hold to return to the Home screen.
6	Right Button	Press right to navigate through your options.
7	Programmable Button 2 (P2)	This button is field programmable using the radio programming software.

5.2

Programmable Buttons

You can program the programmable buttons as shortcuts to the following radio functions through programming software.






 **NOTE:** Contact your dealer for more information.

Table 8: Assignable Radio Functions

Function	Description
AF Suppressor	Allows you to toggle the Acoustic Feedback Suppressor feature on or off.
All Alert Tones	Allows you to toggle all tones and alerts to on or off.
Analog Scrambling	Allows you to toggle the analog scrambling feature to on or off.
Analog Scrambling Code	Allows you to toggle the analog scrambling Code feature to on or off.
Backlight	Allows you to toggle the display backlight to on or off.
Battery Indicator	Allows you to check the current status of the battery level.  NOTE: Only applicable to the Non-Keypad models.
Bluetooth® Headset Audio Switch	Allows you to toggle the audio routing between an internal radio speaker and an external Bluetooth-enabled accessory.
Bluetooth Connect	Allows you to initiate a Bluetooth find-and-connect operation.
Bluetooth Disconnect	Allows you to terminate all existing Bluetooth connections between your radio and any Bluetooth-enabled devices.
Bluetooth Discoverable	Allows you to enable your radio to enter Bluetooth Discoverable Mode.
Brightness	Allows you to adjust the brightness level.
Call Alert	Allows you to direct access to the contacts list and select the required contact to send a call alert.
Call Forwarding	Allows you to toggle the call forwarding to on or off.
Call Log	Allows you to select the call log list.
Cancel	Allows you to cancel an ongoing call. If the call type is Group Call, then only the call initiator can use this button to cancel an ongoing call. If the call type is Private Call, then both the call initiator and receiver can use this button to cancel an ongoing call.  NOTE: Only applicable to the Non-Keypad models.
Contacts	Allows you to directly access the Contacts list.
Emergency Off	Allows you to terminate an outgoing emergency call.
Emergency On	Allows you to set up an emergency call.
Flexible Rx List	Allows you to enable or disable a dynamic Rx list. Provides the flexibility to add or remove talkgroup members.

Function	Description
Global Positioning System (GPS) On or Off	Allows you to toggle the satellite navigation system on or off.
Home Channel Reminder Silence	Mutes the home channel reminder.
Home Channel Reset	Sets a new home channel.
Intelligent Audio	Allows you to toggle the intelligent audio on or off.
Indoor Location	Allows you to toggle the indoor location to on or off.  NOTE: Only applicable for the LACR region.
Keypad Lock	Allows you to toggle the keypad to lock or unlock.
Manual Site Search	Allows you to start the manual site search.
Mic AGC	Allows you to toggle the internal microphone automatic gain control (AGC) to on or off.
Monitor	Allows you to monitor a channel.
Mute Mode	Allows you to turn mute mode on or off.
Notifications	Allows you to directly access to the notification list.
Nuisance Delete	Allows you to temporarily remove an unwanted channel from the scan list, except the selected channel. The nuisance deleted channel is restored into the scan list, for instance, when radio is turned off and back on again (not applicable in Capacity Plus).
One Touch Access	Allows you to directly access the predefined call features.
Permanent Monitor	Allows you to monitor a selected channel for all radio traffic until function is disabled.
Phone	Allows you to directly access the phone contact list.
Phone Exit	Allows you to terminate a phone call (applicable to Non-Display or Numeric Display model, and Digital mode only).
Power Level	Allows you to toggle the transmit power to high or low.
Privacy	Allows you to toggle the privacy to on or off.
Radio Check	Allows you to check if the radio is active in the system.
Radio Enable or Disable	Allows a target radio to be remotely enabled or disabled.
Remote Monitor	Allows you to turn on the microphone of a target radio without giving any indications.
Repeater or Talkaround	Allows you to toggle between using a repeater and directly communicating with another radio.
Response Inhibit	Allows you to toggle the response inhibit feature between on or off.
Ring Alert Type	Allows you to directly access the ring alert type menu.
Scan	Allows you to toggle the scan to on or off.
Site Info	Displays the current site name and ID of Capacity Plus- Multi-Site. Plays site announcement voice messages for the current site when Voice Announcement is enabled.
Site Lock	Allows you to enable the site lock to search only in current site or disable the site lock to search in other sites as well.

Function	Description
Status	Allows you to select the status list menu.
Switch Speaker	Allows you to toggle the audio routing between the internal radio speaker and the wired accessory speaker.
Text Message	Allows you to select the text message menu.
Tight/Normal Squelch	Allows you to toggle between tight or normal squelch (applicable to Analog mode only).
TX Interrupt Remote Dekey	Allows you to stop an on-going voice call by dekeying the transmitting radio, or terminate the repeater call hang time in order to free up the channel. This button can also be used to end a remote monitor session.
Trill Enhancement	Allows you to toggle the trill enhancement to on or off.
Unassigned	Indicates that the button function has not yet been assigned.
Voice Announcement	Allows you to toggle the Voice Announcement to on or off.
Voice Operating Transmission (VOX)	Allows you to toggle the VOX to on or off.
Wi-Fi	Allows you to toggle the Wi-Fi to on or off.
Wi-Fi Status Announcement	Allows you to toggle the Wi-Fi status announcement on or off. This feature will not be applicable when the Wi-Fi feature is disabled.
Zone Selection	Allows you to select from a list of zones.
Zone Toggle	Allows you to switch between four zones.
	 NOTE: Only applicable to the Non-Keypad models.

5.3

Icons

Icons are only available for radio with display.



Your radio display shows the radio status, text entries, and menu entries.

















5.3.1

Display Icons

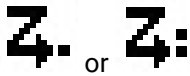
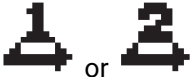







The following icons appear on the status bar at the top of the radio display.

Table 9: Display Icons

Icon	Icon Name
	Battery
	Battery Error

Icon	Icon Name
	Bluetooth Connected
	Bluetooth Not Connected
	Emergency
	Global Navigation Satellite System (GNSS) Available
	GNSS Not Available
	High Volume Data
	Low Power
	Monitor
	Mute Mode
	Notification
	Out of Range
	Over-the-Air Programming Delay Timer
	Received Signal Strength Indicator (RSSI)
	Response Inhibit
	Ring Only
	Scan ⁴

⁴ Not available in Capacity Plus.



Icon	Icon Name
	Scan P1 or P2 ⁴
	Scan Priority 1 or Priority 2 ⁴
	Service & Support
	Signal Transmit
	Silent
	Talkaround ⁴
	Tones Disable
	Unsecure
	Vote Scan

5.3.2

Advanced Menu Icons

The following icons appear beside menu items that offer a choice between two options or as an indication that there is a sub-menu offering two options.

Table 10: Advanced Menu Icons





Icon	Icon Name
	Checkbox (Checked)
	Checkbox (Empty)

5.3.3

Call Icons

The following icons appear on the display during a call. These icons also appear in the Contacts list to indicate alias or ID type.

Table 11: Call Icons




Icons	Icon Name
	Private Call
	Group Call/All Call
	Phone Call as Group or All Call
	Phone Call as Private Call

5.3.4

Mini Notice Icons

The following icons appear momentarily on the display after an action to perform a task is taken.

Table 12: Mini Notice Icons

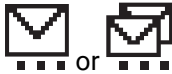
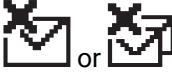
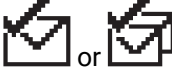
Icon	Icon Name
	Failed Transmission (Negative)
	Successful Transmission (Positive)
	Transmission in Progress (Transitional)

5.3.5

Sent Items Icons

The following icons appear at the top right corner of the display in the Sent Items folder.

Table 13: Sent Items Icons

Icon	Icon Name
	In Progress
	Send Failed
	Sent Successfully

5.4

LED Indications

The LED Indicator shows the operational status of your radio.

Table 14: LED Indicators

Indicators	Status
Blinking Red	Your radio fails the self-test due to one of the following reasons: <ul style="list-style-type: none"> ● Your radio is turning on. ● Your radio moves out of range if the Auto-Range Transponder System is configured. ● Mute mode is enabled. ● Your radio is receiving an emergency transmission. ● Your radio is transmitting in a low battery state. ● Your radio is indicating a battery mismatch.⁵
Solid Green	<ul style="list-style-type: none"> ● Your radio is turning on. ● Your radio is transmitting or sending a Call Alert. ● Your radio is transmitting or sending an emergency transmission.
Blinking Green	<ul style="list-style-type: none"> ● Your radio is receiving a call or data. ● Your radio is detecting activity over the air. ● Your radio is retrieving Over-the-Air Programming (OTAP) transmissions.
Double Blinking Green	Your radio is receiving a privacy-enabled call or data.
Solid Yellow	Your radio is monitoring a conventional channel.
Blinking Yellow	<ul style="list-style-type: none"> ● Your radio is scanning for activity. ● The Flexible Receive List is enabled. ● Your radio is receiving a Call Alert. ● All Capacity Plus-Multi-Site channels are busy.
Double Blinking Yellow	<ul style="list-style-type: none"> ● The Auto Roaming is enabled. ● Your radio is receiving a Group Call Alert. ● Your radio is searching for a new site. ● Your radio is not connected to the repeater while in Capacity Plus. ● Your radio is locked. ● All Capacity Plus channels are busy.

⁵ Only applicable to models with the latest software and hardware.

Chapter 6

System Overview

System overview explains types of systems and modes available in the radio.

6.1

Conventional Analog and Digital Modes

Each channel in your radio can be configured as a conventional analog or conventional digital channel.

Certain features are unavailable when switching from digital to analog mode and analog to digital mode, whereas some are available in both.

There are minor differences in how each feature works, but these differences do not affect the performance of your radio.

6.2

IP Site Connect

This feature allows your radio to extend conventional communication beyond the reach of a single site by connecting to different available sites by using an Internet Protocol (IP) network. This is a conventional multi-site mode.

When the radio moves out of range from one site and into the range of another, the radio connects to the repeater of the new site to send or receive calls or data transmissions. This is done either automatically or manually depending on your settings.

In an automatic site search, the radio scans through all available sites when the signal from the current site is weak or when the radio is unable to detect any signal from the current site. The radio then locks on to the repeater with the strongest Received Signal Strength Indicator (RSSI) value.

In a manual site search, the radio searches for the next site in the roam list, which may not have the strongest signal, but is in range and locks onto the repeater.



NOTE: Each channel can only have Scan or Roam enabled, not both simultaneously.

Channels with this feature enabled can be added to a particular roam list. The radio searches the channels in the roam list during the automatic roam operation to locate the best site. A roam list supports a maximum of 16 channels, including the selected channel.



NOTE: You cannot manually add or delete an entry in the roam list. Contact your dealer for more information.

6.3

Capacity Plus

Capacity Plus is a cost-effective entry-level digital trunked system. The system is available in single-site and multi-site setups. Capacity Plus expands system capacity compared to non-trunked systems.



NOTE: If you try to access a feature not applicable to Capacity Plus Single-Site or Capacity Plus Multi-Site using a programmable button, you hear a negative indicator tone.

Capacity Plus–Single-Site

Capacity Plus Single-Site 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 configuration allows your radio to efficiently use the number of available programmed channels while in Repeater Mode.

Your radio also has features that are available in conventional digital mode, IP Site Connect, and Capacity Plus.

Capacity Plus–Multi-Site

Capacity Plus–Multi-Site is a multi-channel trunking configuration of the MOTOTRBO radio system, combining the best of both Capacity Plus and IP Site Connect configurations. It is also known as Linked Capacity Plus.

It allows your radio to extend trunking communication beyond the reach of a single site, by connecting to different available sites which are connected with an IP network. It also provides an increase in capacity by efficiently using the combined number of available programmed channels supported by each of the available sites.

When your radio moves out of range of one site and into the range of another, it connects to the repeater of the new site to send or receive calls or data transmissions. Depending on your settings, this is done automatically or manually.

Automatically

Your radio scans through all available sites when the signal from the current site is weak or unable to detect any signal and locks on to the repeater with the strongest RSSI value.

Manually

Your radio searches for the next site in the roam list that is currently in range which may not have the strongest signal, and locks on to it.

Any channel with Capacity Plus Multi-Site enabled can be added to a roam list. Your radio searches these channels during the automatic roam operation to locate the best site.



NOTE: You cannot manually add or delete an entry in the roam list.

6.4

Direct Mode or Dual Capacity Direct Mode

A direct mode or dual capacity direct mode system is applicable when the transmitter's output power from a user's portable or mobile radio is sufficient for the user to communicate directly with all other users within the required coverage area of the customer.

Direct Mode or Dual Capacity Direct Mode (DCDM) is direct radio-to-radio communication for systems that do not use a repeater. When radios operate in direct mode or dual capacity direct mode, the radios always transmit and receive on the same frequency. Direct mode and dual capacity direct mode provide similar services to the end users, with the exception that dual capacity direct mode is only available in digital mode, and supports two simultaneous voice or data paths on a 12.5 kHz bandwidth channel while direct mode supports only one. There are some minor differences, for example, dual capacity direct mode channels may not be used as GNSS revert channels.

The radios are not limited to one direct mode/dual capacity direct mode frequency. They can be programmed to have different frequencies, which are selectable with the channel selector knob.

Direct mode or dual capacity direct modes do not need over-the-air hang time for voice calls. The radio has an internal call ("talk back") timer. The channel access method used before the call timer expires is impolite, since the radio is still a member of an active call. This is independent of the Channel Access selection for call initiation (polite or impolite).

Chapter 7

Getting Started

This section helps you to get familiar with the basic operations of the radio.

7.1

Charging the Battery

Prerequisites: Turn off your radio when charging.

Procedure:

- To comply with warranty terms and avoid damage, charge the battery using a Motorola Solutions authorized charger as described in the charger user guide.
- Charge a new battery three to four hours before initial use for best performance.
Batteries charge best at room temperature.
- If the charger LED blinks in red when charging, you must reinsert the radio. You may need to repeat the step every 15 minutes.
- Charge your IMPRES™ battery with an IMPRES charger for optimized battery life and valuable battery data.
- To ensure optimized charging performance, turn off the radio while charging unless the radio is transmitting data wirelessly on Wi-Fi or Bluetooth.



NOTE: MOTOTRBO IMPRES batteries come with self-calibration feature, and do not have to undergo the long hours of calibration or recondition process when charged with the compatible IMPRES Single-Unit Charger and IMPRES 2 Multi-Unit Charger (software version 2.00 and above). You can refer to [Authorized Accessories List on page 103](#).

7.2

Attaching the Battery

Procedure:

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.

7.3

Removing the Battery

Prerequisites: Ensure that your radio is turned off.

Procedure:

Move the battery latch into unlock position and hold, and slide the battery down and off the rails.

7.4

Attaching the Antenna



CAUTION: To prevent damages, replace the faulty antenna with only MOTOTRBO antennas.

Procedure:

1. Set the antenna in the receptacle.
2. Turn the antenna clockwise.



NOTE: Fastening the antenna blocks water and dust from entering the radio.

7.5

Removing the Antenna

Procedure:

1. Turn the antenna counterclockwise.
2. Remove the antenna from the receptacle.

7.6

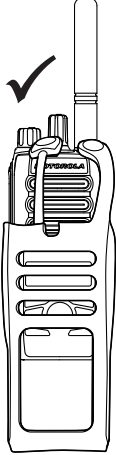
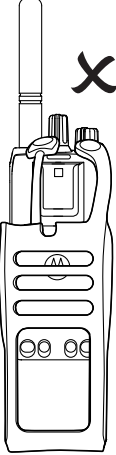
Using the Carry Case

Inserting the Radio into the Carry Case

Procedure:

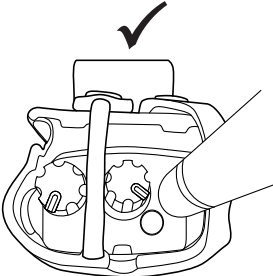
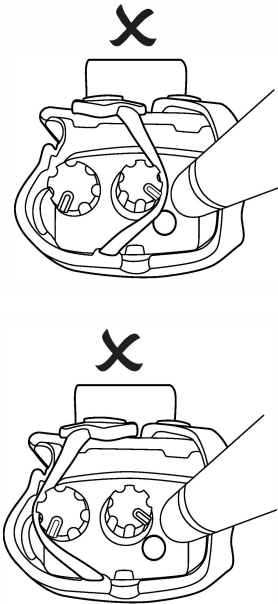
1. Place your radio in the carry case.

Table 15: Correct and Incorrect Radio Placement in Carry Case

Correct Orientation	Incorrect Orientation
	

2. Button the carry case.

Table 16: Correct and Incorrect Orientation to Button The Carry Case

Correct Orientation	Incorrect Orientation
	

Removing the Radio from the Carry Case

Procedure:

1. Unbutton the carry case.
2. Remove the radio from the carry case.

7.7

Attaching the Accessory Connector Cover

Procedure:

1. Insert the slanted end of the cover into the slots above the accessory connector.
2. Press downwards on the cover to seat the cover properly on the universal connector.
3. Secure the connector cover to the radio by pushing the latch upwards.

7.8

Removing the Accessory Connector Cover

Procedure:

1. Push the latch downwards.
2. Lift the cover up and slide the dust cover down from the accessory connector.

Postrequisites: Replace the dust cover when the accessory connector is not in use.

7.9

Attaching the Accessory Connector

Procedure:

1. Insert the slanted end into the slots.
2. Push the connector upward.
3. Press downwards on the accessory connector until you hear a click.

7.10

Turning the Radio On

Procedure:

Turn the **On/Off/Volume** knob clockwise until a click sounds.

Result:

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

- A tone sounds.



NOTE: If the Tones/Alerts function is disabled, no tone sounds.

- The green LED illuminates.



NOTE: If your radio fails to turn on although your battery is charged and properly attached, contact your dealer for assistance.

7.11

Turning the Radio Off

Procedure:

Turn the **On/Off/Volume** knob counterclockwise until a click sounds.

7.12

Holding Your Radio While Transmitting Audio

Procedure:

1. When using high audio, hold your radio vertically with the top microphone 5–10 cm away from your mouth.
2. Speak into the top microphone.

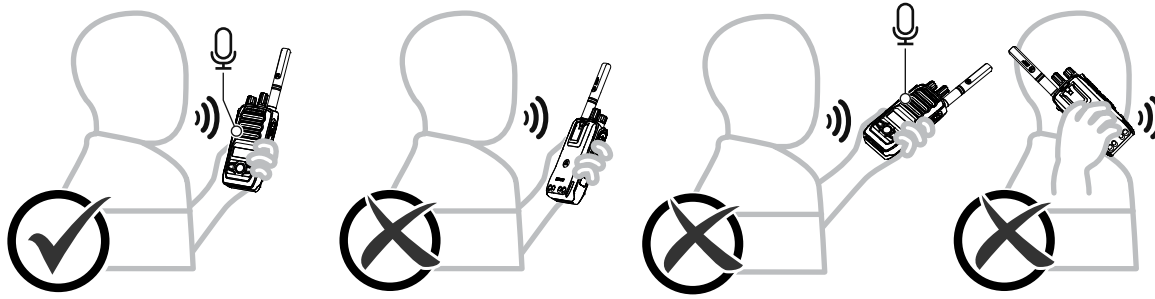


NOTE: Do not speak facing the bottom or the back of your radio.

3. Listen through a speaker.
4. Keep the antenna at least 2.5 cm from your head and body.

Result:

The following shows the correct way of holding your radio while transmitting audio.



7.13

Adjusting the Volume

Procedure:

Perform one of the following actions:

- To increase the volume, turn the **On/Off/Volume** knob clockwise.
- To decrease the volume, turn the **On/Off/Volume** knob counterclockwise.



NOTE:

Your radio can be programmed to have a minimum volume offset where the volume level cannot be lowered past the programmed minimum volume.

Chapter 8

Zone and Channel Selections

A zone is a group of channels. You can program each channel with different features that support different groups of users.

Table 17: Number of Supported Zones and Channels

Model	Zones	Channels	Channels per Zone
Limited Keypad Radio	50	256	160
Non-Keypad Radio	4	64	16

8.1

Selecting Zones

Procedure:

From the menu, select **Zone** → *<required Zone>*.

Result: The display shows *<Zone>* Selected.



NOTE: For all Non-Keypad radio, you are recommended to enable the Voice Announcement feature for zone selection. The Voice Announcement feature can only be enabled through the radio programming software.

8.2

Selecting Channels

Procedure:

Turn the **Channel Selector** knob.



NOTE: If the **Virtual Channel Stop** is enabled, your radio stops after reaching the first or last channel. You hear a tone.

Result: Your radio switches to your preferred channel.

Chapter 9

Types of Radio Calls

You can make calls with your radio in several ways, depending on the type of call and the system available.

Table 18: Types of Radio Calls

Call Type	Description
Group Call	A Group Call is a point-to-multipoint call operation. Your radio must be configured as a member of the group for you to communicate with each other.
Broadcast Voice Call	A Broadcast Voice Call is a one-way voice call from any user to an entire talkgroup. The Broadcast Call feature allows only the call initiating user to transmit to the talkgroup, while the recipients of the call cannot respond.
Private Call	A Private Call is a call from an individual radio to another individual radio. You can set up a Private Call after performing a radio presence check or call immediately.
Selective Call	A Selective Call is a call from an individual radio to another individual radio. This feature is only supported in Analog system.
All Call	An All Call is a call from an individual radio to every radio on the site or every radio at a group of sites. This feature is used to make an important announcement.
Unaddressed Call	An Unaddressed Call is a group call to one of the 16 predefined group IDs.
Open Voice Channel Mode (OVCM)	An OVCM is a call from a radio that is not preconfigured to work in a particular system during a group or individual call. The OVCM group call supports broadcast calls.

When a call is interrupted, you hear a continuous Talk Prohibit Tone. Releasing the **PTT** button allows you to receive the call.


Channel Free Indication feature can be programmed on your radio by your dealer. If the Channel Free Indication feature is enabled, you hear a short alert tone when the recipient releases the **PTT** button, indicating the channel is free for you to respond.

9.1

Making Calls on the Radio

Procedure:

Perform one of the following actions based on the type of calls:

Option	Actions
Making group calls, private calls, unaddressed calls, or selective calls	<ol style="list-style-type: none"> a. Select a channel with an active ID or alias. b. To call, press and hold the PTT button. c. Wait for the Talk Permit Tone to end, and speak into the microphone. <div style="margin-left: 20px;">  NOTE: For Group Call, wait for the PTT Sidetone to end before speaking into the microphone if enabled. </div> d. To listen, release the PTT button.
Making broadcast calls, all calls, or OVCM calls	<ol style="list-style-type: none"> a. Select a channel with an active group ID or alias. b. To call, press and hold the PTT button.


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

9.2

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 ID and alias and call status.

 **NOTE:** You cannot respond to a Broadcast Call or All Call.

Procedure:

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

 **NOTE:** For Group Call, wait for the **PTT** Sidetone to end, and speak into the microphone if enabled.

3. To listen, release the **PTT** button.

Chapter 10

Call Alert Operation

Call Alert paging enables you to alert the recipients and request a callback at their convenience. This feature is applicable for subscriber aliases or IDs only.

10.1

Making Call Alerts

Procedure:

From the menu, select **Contacts** → *<required ID or alias>* → **Call Alert**.

Result:

If the request is successful, the display shows a positive mini notice.

If the request is unsuccessful, the display shows a negative mini notice.

10.2

Responding to Call Alerts

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

- A repetitive tone sounds.
- The yellow LED blinks.
- The display shows a notification list of the Call Alert and the ID of the caller.

Procedure:

Respond to the caller with a Private Call by pressing the **PTT** button.

Chapter 11

Call Indicator Settings

This feature allows you to configure call or text message tones.

11.1

Activating or Deactivating Call Ringers

You can activate or deactivate call ringers for Private Calls, Text Messages, Call Alerts, and Selective Calls.

Activating Call Ringers

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Tones/Alerts** → **Call Ringers**.
2. Select the required tone.

Result:

If you activate call ringers, your radio display shows a ✓ and the selected tone.

Deactivating Call Ringers

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Tones/Alerts** → **Call Ringers**.
2. Select **Off**.

Result:

If you deactivate call ringers, your radio display shows a ✓ beside *Off*.

11.2

Assigning Ring Styles

To personalize your call tones, you can select one of 11 predefined ring tones for Private Calls, Call Alerts, or Text Messages.

Procedure:

From the menu, select **Contacts** → *<required ID or alias>* → **View** → **Ringer** → *<required tone>*.

11.3

Ring Alert Type

You can program your radio to either ring or remain silent when receiving calls.

The Ring Alert Type is automatically set to **Ring**. The available Ring Alert Type options are **Silent** and **Ring**.



NOTE: If All Tones status is enabled, your radio displays the ring alert type. If All Tones status is disabled, your radio displays the All Tone Mute icon.

11.3.1

Selecting Ring Alert Types

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Tones/Alerts** → **Ring Alert Type**.
2. Select one of the following options:
 - **Silent**
 - **Ring**

Chapter 12

Call Log Features

Your radio tracks all recent outgoing, answered, and missed Private Calls. The call log feature is used to view and manage recent calls.

Missed Call Alerts can be included in call logs depending on the system configuration on your radio. You can perform the following tasks in each call list:

- View Details
- Delete Calls

12.1

Viewing Recent Calls

Procedure:

1. From the menu, select **Call Log**.
2. Select one of the following lists:
 - **Missed**
 - **Answered**
 - **Outgoing**
3. View calls by scrolling through the list.

Result: The display shows the most recent entry.

12.2

Deleting Calls from the Call List

Procedure:

From the menu, select → **Call Log** → *<required list>* → *<required ID or alias>* → **Delete Entry?** → **Yes**.



NOTE: If you select **No**, your radio returns to the previous screen. If the list is empty, a tone sounds and the display shows `List Empty`.

Result: The display shows `Entry Deleted`.

12.3

Viewing Details from the Call List

Procedure:

From the menu, select → **Call Log** → *<required list>* → *<required ID or alias>* → **View Details**.

Chapter 13

Contacts Settings

The Contacts menu provides an address book function on your radio. Each entry corresponds to an ID for making calls. The entries are alphabetically sorted.

Each entry supports different call types depending on your settings. The contact entries display Call Type, Call Alias, and Call ID information.

You can assign entries to programmable number keys as quick dial. You see a check mark before each number key that is assigned to an entry. If the check mark is before the `Empty` interface, a number key is not assigned to the entry.

Personal Computer (PC) Calls and Dispatch Calls are data-related. These calls are only available with an application.

Your radio supports Analog and Digital contacts, with a maximum of 500 members for each Contacts Lists.

For Analog contacts list, you can view or edit the subscriber IDs, and initiate a Call Alert. Only your dealer can add or delete the subscriber IDs.

For Digital contacts list, you can add or edit the subscriber IDs. Only your dealer can delete the subscriber IDs.

13.1

Making Group Calls or Private Calls with Contact List

Procedure:

1. From the menu, select **Contacts** → *<required ID or alias>*.
2. To call, press and hold the **PTT** button.
3. Wait for the Talk Permit Tone to end, and speak into the microphone.
4. To listen, release the **PTT** button.

13.2

Setting Default Contacts

Procedure:

From the menu, select → **Contacts** → *<required ID or alias>* → **Set as Default**.

Result:

If the setting is successful, your radio shows the following indications:

- A positive indicator tone sounds.
- The display shows a ✓ beside the selected contact.

Chapter 14

Dynamic Caller Alias

This feature allows you to configure a Caller Alias in the radio.

When in a call, the receiving radio displays the Caller Alias of the transmitting radio.

The Caller Aliases list can store up to 500 Caller Aliases of transmitting radio. You can view or make Private Calls from the Caller Aliases list. Turning off your radio clears the history of receiving Caller Aliases from the Caller Aliases list.

14.1

Viewing the Caller Aliases List

You can access the Caller Aliases list to view the transmitting Caller Alias details.

Procedure:

From the menu, select **Caller Aliases** → *<preferred list>* → **View Details**.

14.2

Initiating Private Calls From the Caller Aliases List

Procedure:

1. From the menu, select **Caller Aliases** → *<required Caller Alias>*.
2. To call, press and hold the PTT button.

Chapter 15

Bluetooth®

This feature allows your radio to connect to any Bluetooth enabled device through Bluetooth connection.



NOTE: This feature is not applicable for ANZ and APAC regions.

Ensure a clear path between your radio and your Bluetooth-enabled device. For optimal reliability, Motorola Solutions recommends to not separate the radio and the Bluetooth enabled device.

If the voice and tone quality is distorted or unclear, place your radio and the Bluetooth enabled device closer together to improve audio reception.

Your radio can support up to three simultaneous Bluetooth connections with Bluetooth-enabled devices of unique types. Your radio connects to the Bluetooth-enabled device within range with either the strongest signal strength or last connected device.

15.1

Bluetooth Profiles

Your radio supports a wide range of Bluetooth services.

Table 19: Bluetooth Profiles

Profile	Description
Serial Port Profile (SPP)	Provides access to SPP devices (for example a barcode scanner). Using SPP, each connected device can send and receive data just as if there were RX and TX lines connected between them.
Generic Attribute Profile (GATT)	Allows profile discovery and description services for Bluetooth Low Energy (BLE) protocol. For example, a gas sensor or WP300/WM500 (without earpiece) uses only the GATT profile.
Headset Profile (HSP)	Provides support for the popular Bluetooth headsets to be used with mobile phones with ability to ring, answer a call, hang up, and adjust the volume.
Personal Area Network (PAN)	Allows the device to share Internet connection with another device (for example a laptop) and to access the Internet shared by another device (for example a Bluetooth enabled phone).
Dual-Mode: Bluetooth Classic and Bluetooth Low Energy	Provides support for the dual-mode devices, for example, WM500 (HSP + GATT). HSP is used for audio and GATT is used for the buttons control.

15.2

Turning the Bluetooth On

Procedure:

From the menu, select **Bluetooth** → **My Status** → **On**.

Result: Your radio display shows a ✓ beside On.

15.3

Turning the Bluetooth Off

Procedure:

From the menu, select **Bluetooth** → **My Status** → **Off**.

Result: Your radio display shows a ✓ beside **Off**.

15.4

Connecting to Bluetooth Devices

Procedure:

1. For Limited Keypad radio, from the menu, select **Bluetooth**.
2. Perform one of the following actions:

Options	Actions
Connecting through Limited Keypad radios	Perform one of the following actions: <ol style="list-style-type: none"> a. To connect to a previously connected device, select Devices → <i><required device></i> → Connect b. To connect to a new device, select Devices → Find Devices → <i><required device></i> → Connect. c. To connect to a device in discoverable mode, select Find Me.
Connecting through Non-Keypad radios	Perform one of the following actions: <ol style="list-style-type: none"> a. To connect to a previously connected device, press the Bluetooth Connect button. b. To connect to a new device, perform the following actions: <ol style="list-style-type: none"> i. Configure the Bluetooth Accessory MAC address in the radio programming software. ii. Press the programmed Bluetooth Discoverable On/Off. iii. Press the programmed Bluetooth Connect. c. To connect to a device in discoverable mode, press the Bluetooth Discoverable On/Off button.

Result:

If the Bluetooth device is successfully connected to the radio, your radio shows the following indications:

- A positive tone sounds.
- The display shows *<Device>* **Connected** and the **Bluetooth Connected** icon.

If the Bluetooth device fails to connect to the radio, your radio shows the following indications:

- A negative tone sounds.
- The radio display shows `Connecting Failed`.



NOTE:

- The Bluetooth connection tone is enabled by default. You can disable the Bluetooth connection tone through the radio programming software.
- If the Bluetooth device is still not connected to the radio, you can turn off and then turn on the Bluetooth again or clear the Bluetooth pairing on both the radio and the Bluetooth device to prevent connection issues.

15.5

Disconnecting from Bluetooth Devices

Procedure:

Perform one of the following actions:

- For Limited Keypad radio, from the menu, select **Bluetooth** → **Devices** → *<required device>* → **Disconnect**.
- For Non-Keypad radio, press the programmed **Bluetooth Disconnect** button.

Result:

Your radio shows the following indications:

- A tone sounds.
- The radio display shows *<Device>* `Disconnected`.



NOTE: The Bluetooth disconnection tone is enabled by default. You can disable the Bluetooth disconnection tone through the radio programming software.

15.6

Switching Audio Route between Internal Radio Speaker and Bluetooth Device

Procedure:

Press the programmed **Bluetooth Headset Audio Switch** button.

Result:

A tone sounds.

When the audio is routed to the Internal Radio Speaker, the display shows `Route Audio to Radio`.

When the audio is routed to the Bluetooth device, the display shows `Route Audio to Bluetooth`.

15.7

Viewing Device Details

Procedure:

From the menu, select **Bluetooth** → **Devices** → *<required device>* → **View Details**.

15.8

Deleting Device Names

Procedure:

From the menu, select **Bluetooth** → **Devices** → *<required device>* → **Delete**.

Result: Your radio display shows a ✓.

Chapter 16

Emergency Operation

Emergency Alarms are used to indicate critical situations. You can initiate an Emergency Alarm at any time even when there is activity on the current channel.

Table 20: Default Settings

Option	Action
Emergency On	Press the Emergency button.
Emergency Off	Press and hold the Emergency button.

Your dealer can set the Emergency On or Off function and button-press duration of the Emergency button. Contact your dealer for more information.


Your dealer can program the Emergency Search tone. When the tone is programmed, the Emergency Search tone sounds. The tone mutes when your radio transmits or receives voice, and stops when your radio exits Emergency mode.




NOTE: Emergency Operations can only be assigned to the **Emergency** button (the top orange color button).

You can only assign one type of Emergency Mode to the Emergency button for each channel. Your radio supports the following Emergency Modes:

Table 21: Emergency Modes

Emergency Mode	Description
Emergency Alarm	An Emergency Alarm is not a voice call. This alarm is an emergency notification sent to radios that are programmed to receive them.
Emergency Alarm with Call	Your radio transmits an Emergency Alarm. When the Emergency Alarm is acknowledged, the group of radios can communicate over the assigned emergency channel. Press and hold the PTT button to talk.
Emergency Alarm with Voice to Follow	Your radio transmits an Emergency Alarm. When the Emergency Alarm is acknowledged, your radio microphone is automatically activated which is known as Hot Mic. Hot Mic allows you to communicate with the group of radios without pressing the PTT button.  NOTE: <ul style="list-style-type: none">● If the Emergency Cycle Mode is enabled, repetitions of Hot Mic and receiving period are made for a programmed duration.● If you press and hold the PTT button during the programmed Hot Mic receiving period, your radio proceeds to make a call and stops the Hot Mic receiving period timer. Your radio remains in emergency mode. Once PTT button is released, Hot Mic receiving period timer restarts.● If the Emergency Alarm request fails, the radio does not retry to send the request, and enters the Hot Mic directly.
Silent Emergency Alarm	Your radio transmits an emergency notification without any audio or visual indicators.

Emergency Mode	Description
Silent Emergency Alarm with Call	Your radio transmits an emergency notification without any audio or visual indicators. Your radio suppresses all audio and visual indicators of the emergency until you press and hold the PTT button to talk.
Silent Emergency Alarm with Voice to Follow	Your radio transmits an emergency notification without any audio or visual indicators. When the Emergency Alarm is acknowledged, the Hot Mic is activated. You can communicate with the group of radios without pressing the PTT button.

 **NOTE:** The indicators only appear when you press the **PTT** button.

16.1 Sending Emergency Alarms

Procedure:

Press the programmed **Emergency On** button.

Result:

If the alarm is successfully sent, your radio shows the following indications:

- The Emergency tone sounds.
- The green LED blinks.
- The display shows *Alarm Sent*.

If the alarm is unsuccessful after all retries, your radio shows the following indications:

- A negative tone sounds.
- The display shows *Alarm Failed*.

16.2 Sending Emergency Alarms with Call

Procedure:

1. Press the programmed **Emergency On** button.

If the alarm is successfully sent, your radio shows the following indications:

- The Emergency tone sounds.
- The green LED blinks.
- The display shows *Alarm Sent*.

2. To call, press and hold the **PTT** button.
3. Wait for the Talk Permit Tone to end, and speak into the microphone.
4. To listen, release the **PTT** button.

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

16.3

Sending Emergency Alarms with Voice to Follow

Procedure:

1. Press the programmed **Emergency On** button.
If the alarm is successfully sent,
 - The Emergency tone sounds.
 - The Hot Mic is activated.
2. Speak into the microphone without pressing the **PTT** button.
Your radio automatically stops transmitting when the following conditions are met:
 - The cycling duration between hot mic and receiving calls expires if Emergency Cycle Mode is enabled.
 - The hot mic duration expires if Emergency Cycle Mode is disabled.

16.4

Receiving Emergency Alarms

When you receive an Emergency Alarm, your radio shows the following indications:

- A tone sounds.
- The red LED blinks.
- The display shows the Emergency Alarm List, Emergency Talkgroup ID, and ID of the transmitting radio.

Procedure:


1. When the Emergency Alarm List appears, perform one of the following actions:
 - Press the **OK** button.
 - Select the *<required ID>*.
2. Select the **OK** button to view the action options.

16.5

Reinitiating the Emergency Mode

Procedure:

Perform one of the following actions:

- Change the channel while the radio is in Emergency mode.
 **NOTE:** You can reinitiate emergency mode only if you enable emergency alarm on the new channel.
- Press the programmed **Emergency On** button during an emergency initiation or transmission state.

Result: The radio exits the Emergency mode, and reinitiates Emergency.

16.6

Exiting the Emergency Mode

Your radio automatically exits emergency mode in these situations:

- An acknowledgment is received from the system (for emergency alarms only).
- All retries to send the alarm are exhausted.
- Turning off your radio. When you turn on your radio, the emergency will not reinitiate automatically.
- Change your current channel to a channel with no Emergency.

Procedure:

Press the programmed **Emergency Off** button.

Result:

If you exited the Emergency mode successfully, your radio shows the following indications:

- The tone ceases.
- The red LED extinguishes.

Chapter 17

Voice Interrupt

Voice Interrupt allows your radio to end any ongoing calls.

The Voice Interrupt feature uses the reverse channel signaling to interrupt ongoing calls. You can make a voice transmission during the interruption.

This feature improves the probability of delivering a new call to the recipients when a call is already in progress.

The Voice Interrupt feature is available the feature has been programmed into your radio. Contact your dealer for more information.

17.1

Enabling the Voice Interrupt

Procedure:

1. To interrupt the transmission during an on-going call, press and hold the **PTT** button.
2. Wait for the Talk Permit Tone to end, and speak into the microphone.

17.2

Initiating Transmit Interrupt

Procedure:

To interrupt an ongoing call, perform one of the following actions:

- Press the **PTT** button.
- Press the **Emergency** button.
- Perform data transmission.
- Press the programmed **TX Interrupt Remote Dekey** button.

Result:

The receiving radio displays `Call Interrupted`.

Chapter 18

Auto-Range Transponder System

The Auto-Range Transponder System (ARTS) is an analog-only feature that alerts you when your radio is out-of-range of other ARTS-equipped radios.

ARTS-equipped radios transmit or receive signals periodically to confirm that they are within range of each other.

Your radio provides indications as follows:

Table 22: Auto-Range Transponder System Indications

Indication	Description
First-Time Alert	<ul style="list-style-type: none">● A tone sounds.● The display shows <code>In Range</code> after the channel alias.
ARTS-in-Range Alert	<ul style="list-style-type: none">● A tone sounds, if programmed.● The display shows <code>In Range</code> after the channel alias.
ARTS-Out-of-Range Alert	<ul style="list-style-type: none">● A tone sounds.● The red LED rapidly blinks.● The display shows <code>Out of Range</code> alternating with the Home screen.

Chapter 19

Front Panel Programming

You can customize certain feature parameters using front panel controls to personalize your radio experience.

19.1

Entering the Front Panel Programming

Procedure:

1. From the menu, select **Utilities** → **Program Radio**.
2. Enter your current eight-digit password.
3. Select the required setting.

Chapter 20

Home Channel Reminder

This feature reminds you when the radio is not set to the home channel for a while.

When this feature is enabled and your radio is not set to the home channel for some time, the following indications occur periodically:

- A tone and the Home Channel Reminder announcement sounds.
- The display shows `Non Home Channel`

20.1

Muting the Home Channel Reminder

When the Home Channel Reminder sounds, you can temporarily mute the reminder.

Procedure:

Press the programmed **Silence Home Channel Reminder** button.

Result: The display shows `HCR Silenced`

20.2

Setting New Home Channels

You can set new home channels when the Home Channel Reminder occurs.

Procedure:

From the menu, select **Utilities** → **Radio Settings** → **Home Channel** → *<required channel>*.

Result:

The display shows a ✓ beside the selected home channel alias.

Chapter 21

Lone Worker

This feature triggers an emergency if there is no user activity (button press or channel selector activation) for a predefined time.

The radio emits a warning sound when there is no user activity for a predefined time, and the inactivity timer expires.

If you do not acknowledge the reminder before the predefined reminder timer expires, the radio initiates an emergency condition as programmed by the dealer.

Chapter 22

Monitor Feature

The Monitor Feature is used to monitor a channel to ensure the channel is clear before transmitting.

22.1

Monitoring Channels

Procedure:

1. Press and hold the programmed **Monitor** button.
Your radio shows the following indications:
 - You hear the radio activity.
 - The yellow LED illuminates.
 - The display shows the Monitor icon.
2. To call, press and hold the **PTT** button.
3. To listen, release the **PTT** button.

22.2

Permanent Monitor

The Permanent Monitor feature continuously monitors a selected channel for activity.

22.2.1

Setting the Permanent Monitor

Procedure:

Press the programmed **Permanent Monitor** button.

Result:

When your radio enters the mode, your radio shows the following indications:

- An alert tone sounds.
- The yellow LED illuminates.
- The display shows `Permanent Monitor On` and the Monitor icon.

When your radio exits the mode, your radio shows the following indications:

- An alert tone sounds.
- The yellow LED extinguishes.
- The display shows `Permanent Monitor Off`

Chapter 23

Priority Monitor

Priority Monitor allows your radio to receive transmission from talkgroups with higher priority during talkgroup call. This feature is only applicable to members in Receive Group List.



NOTE: This feature can only be accessed when Talkgroup Scan feature is enabled.

Priority talkgroups are Priority 1 (P1) and Priority 2 (P2). Your radio receives transmission according to the following priority:

1. Emergency Call for P1 Talkgroup.
2. Emergency Call for P2 Talkgroup.
3. Emergency Call for non-priority Talkgroup in the Receive Group List.
4. All Call.
5. P1 Talkgroup Call.
6. P2 Talkgroup Call.
7. Non-priority Talkgroup in the Receive Group List.

23.1

Receive Group List

Receive Group List allows you to create and assign members on the talkgroup scan list. You can have a maximum of 16 members in a list.



NOTE: To add a member to the list, you must first configure the talkgroup in the radio.

When your radio is programmed to edit the scan list, you can perform the following actions:

- Add or remove talkgroups.
- Add, remove, and edit priority for talkgroups.
- Add, remove, and edit affiliation talkgroups.
- Replace the existing scan list with a new scan list.

If a talkgroup is programmed as Permanent Talkgroup, you are unable to edit the talkgroup from the scan list.

Chapter 24

Remote Monitor

The Remote Monitor feature allows an authorized user to:

- Remotely activate a target user's radio microphone to listen to the surroundings and gather information without the target user's knowledge.
- Enables a target user to turn on the radio microphone and transmit audio to an authorized dispatcher without any notification on the target user's radio.

An authorized dispatcher can also remotely listen to calls, to and from the selected user without their knowledge.



NOTE: The Remote Monitor feature may have privacy implications depending on your location. You must follow all relevant laws and regulations when using the Remote Monitor feature. This includes without limitation:

- Publishing and enforcing any required privacy notices or statements to individuals,
- Obtaining and documenting any required consents,
- Establishing and maintaining any applicable policies for acceptable use and Processing of Personal Information.

Both your radio and the target radio must be programmed to allow you to use this feature.

The Remote Monitor microphone selection of the target radio follows the programmed Hot Mic setting. There are two Hot Mic sources:

Table 23: Hot Mic Sources

Hot Mic Source	Microphone Selection
Radio Microphone	The Bluetooth microphone is used for Remote Monitor. If there is no Bluetooth microphone connected, the radio microphone is used.
Wired Accessory Microphone	The wired accessory microphone is used for Remote Monitor. If there is no wired accessory microphone connected, the Bluetooth microphone is used. If there is no Bluetooth microphone connected, the radio microphone is used.

When initiated, the green LED blinks once on the target radio. This feature automatically stops after a programmed duration or when there is user operation on the target radio.

Remote Monitor comprises of two types:

- Remote Monitor without Authentication
- Remote Monitor with Authentication

When your radio turns on the microphone of a target radio with user authentication, a passphrase is required. The passphrase is programmed into the target radio through the radio programming software.

24.1

Initiating the Remote Monitor

Procedure:

1. From the menu, select **Contacts** → *<required ID or alias>* → **Remote Mon.**
2. Enter the passphrase if required.

Result:

If the request is successful, your radio shows the following indications:

- A positive tone sounds.
- The display shows a positive mini notice.
- The audio from the monitored radio starts playing for a programmed duration, and the display shows Rem. Monitor. When the timer expires, an alert tone sounds and the LED turns off.

If the request is unsuccessful, your radio shows the following indications:

- A negative tone sounds.
- The display shows a negative mini notice.

Chapter 25

Mute Mode

Mute Mode provides an option to silence all audio indicators on your radio.

When Mute Mode is initiated, all audio indicators are muted except higher priority features such as emergency operations.

When Mute Mode is exited, your radio resumes playing ongoing tones and audio transmissions.

Mute Mode can be enabled for a predefined duration by setting the Mute Mode Timer. The duration of the timer is configured through the radio menu and can range between 0.5–6 hours. Mute Mode is exited once the timer expires.

If the timer is left at **0**, the radio remains in Mute Mode for an indefinite period until the radio is moved to a face-up position or the programmed **Mute Mode** button is pressed.



IMPORTANT: You can only enable either Face Down or Fall Alert one at a time. Both features cannot be enabled together.

25.1

Turning the Mute Mode On

Procedure:

Press the programmed **Mute Mode** button.

Result:

If Mute Mode is enabled, your radio shows the following indications:

- A positive tone sounds.
- The red LED blinks and continues blinking until Mute Mode is exited.
- The display shows `Mute Mode On`.
- The home screen shows the Mute Mode icon.
- Your radio mutes.
- If the Mute Mode Timer has been set, the timer begins counting down the duration that it is configured.

25.2

Setting the Mute Mode Timer

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Mute Timer**.
2. Select the required mute mode timer duration.

25.3

Exiting the Mute Mode

When the Mute Mode Timer expires, your radio automatically exits the Mute Mode. You can also exit the Mute mode manually.

Procedure:

Exit the Mute Mode manually by performing one of the following actions:

- Press the programmed **Mute Mode** button.
- Press and hold the **PTT** button and speak into the microphone.
- Switch to any unprogrammed channel.

Result:

If Mute Mode is disabled, your radio shows the following indications:

- A negative tone sounds.
- The blinking red LED extinguishes.
- The display shows `Mute Mode Off`.
- The Mute Mode icon disappears from the home screen.
- Your radio unmutes and restores the speaker state.
- The Mute Mode Timer stops even if the timer has not expired.

Chapter 26

Notification List

Your radio features a Notification list. The list gathers all unread events on the channel. This includes text messages, telemetry messages, missed calls, and call alerts.

The display shows the Notification icon when the Notification list has one or more events.

The list supports a maximum of 40 unread events. When the list is full, the next event automatically replaces the outdated event. After the events are read, they are removed from the Notification list.

The maximum number of notifications are 30 text messages and 10 missed calls or call alerts. This maximum number depends on individual feature (job tickets, text messages, missed calls, or call alerts) list capability.

26.1

Accessing the Notification List

Procedure:

From the menu, select **Notification**.

Result: The display shows all the available events.

Chapter 27

Over-the-Air Programming

Your dealer can remotely update your radio through Over-the-Air Programming (OTAP), eliminating the need for a physical connection. OTAP can also configure certain settings on your radio.



NOTE: This feature is not applicable for ANZ and APAC regions.

Indications During OTAP

When your radio undergoes OTAP, the green LED blinks.

When your radio receives high volume data, your radio shows the following indications:

- If you press the **PTT** button, a negative tone sounds.
- The display shows the High Volume Data icon.
- The channel becomes busy.

Post-Update Responses

When OTAP completes, your radio shows one of the following responses depending on the configuration:

- A tone sounds. The display shows `Updating Restarting`. Your radio restarts.
- Your radio displays the **Restart Now** or **Postpone** options. If you select **Postpone**, your radio returns to the previous screen. The display shows the OTAP Delay Timer icon until the automatic restart occurs.

After the Automatic Restart

When your radio turns on after an automatic restart, your radio shows the following indications:

- If the program update is successful, the display shows `Sw Update Completed`.
- If the program update is unsuccessful, a tone sounds, the red LED blinks once, and the display shows `Sw Update Failed`.



NOTE:

If the programming update is unsuccessful, the update failure indications appear every time you turn on your radio. Contact your dealer to reprogram your radio with the latest software to eliminate the update failure indications.

Chapter 28

Scan

Your radio can behave differently during the Scan, depending on the supported system that is available.

Channel Scan

When you start a scan, your radio scans through the programmed scan list for the current channel, looking for voice activity. If you are on a digital channel, and your radio locks onto an analog channel, your radio automatically switches from digital mode to analog mode during the call. The opposite scenario happens if you are on an analog channel.

Table 24: Scan Methods

Method	Description
Main Channel Scan (Manual)	Your radio scans all the channels or groups on your scan list. Depending on your radio settings, when scanning, your radio can automatically start on the last scanned active channel or group, or on the channel where scan was initiated.
Auto Scan (Automatic)	Your radio automatically starts scanning when you select a channel or group that has the Auto Scan enabled.

When you miss a call from a talkgroup or a channel that is on your scan list, the following are possible reasons:

- Scan feature is not turned on.
- Scan list member has been disabled through the menu.
- You are already participating in another call.



NOTE: If your radio joins a call for a Zone Scan List member from a different Zone and Call Hang Timer expires before you are able to respond, you must navigate to the Zone and Channel of the Scan List Member and start a new call to respond.

28.1

Turning the Scan On

Procedure:

From the menu, select **Scan** → **Turn On**.

Result:

Your radio shows the following indications:

- The yellow LED blinks.
- The display shows **Scan On** and the scan icon.

28.2

Turning the Scan Off

Procedure:

From the menu, select **Scan** → **Turn Off**.

Result:

Your radio shows the following indications:

- The LED extinguishes.
- The display shows `Scan Off` and the scan icon disappears.

28.3

Scan Talkback

The Talkback feature allows you to respond to a transmission while scanning.

Depending on how you configure Scan Talkback, pressing the **PTT** button while your radio scans a group in the selectable scan list results in two different scenarios.

Table 25: Scan Talkback Type

Type	Description
Scan Talkback Disabled	During an ongoing scanned call, if the PTT button is pressed, the scanned call is terminated and a new call is launched.
Scan Talkback Enabled	During an ongoing scanned call, if the PTT button is pressed, you can talkback to the scanned call.



NOTE:

- To fix a scan into a call for a group that is not assigned to a channel position in the currently selected zone, switch to the correct zone.
- If you miss the Hang Time of a call, select the channel position of the group to talk back to that group.

28.4

Nuisance Channels

Nuisance Channel is a channel that generates an unwanted call continuously.

You can temporarily remove the unwanted channel from the scan list and restore it later. This capability does not apply to the channel designated as the Selected Channel.

28.4.1

Deleting Nuisance Channels

Prerequisites: Ensure your radio is scanned into the Nuisance Channel.

Procedure:

1. Press the programmed **Nuisance Delete** button until you hear a tone.

2. Release the programmed **Nuisance Delete** button.

28.4.2

Restoring Nuisance Channels

Procedure:

Perform one of the following actions:

- Restart your radio.
- Turn the **Scan** feature off and on.
- Change the channel using the **Channel Selector** knob.

28.5

Vote Scan

Vote Scan provides wide coverage in areas with multiple base stations transmitting identical information on different analog channels.

Your radio scans analog channels of multiple base stations, and performs a voting process to select the strongest received signal.

During a vote scan, your radio shows the following indications:

- The yellow LED blinks.
- The display shows the Vote Scan icon.

28.6

Scan Lists

You can create and assign individual channels or groups in Scan Lists. Your radio scans for voice activity by cycling through the channel or group sequence specified in the scan list for the current channel or group. Scan List also known as Receive Group List.

Your radio can support up to 250 scan lists, with a maximum of 16 members in a list. Each scan list supports a mixture of analog and digital entries.

The Priority icon on the left of member ID indicates whether the member is on Priority 1 or Priority 2 channel list. You cannot have multiple Priority 1 and Priority 2 channels in a scan list. There is no icon if the priority is set to **None**.



NOTE: This feature is not applicable to Capacity Plus.

28.6.1

Editing Priority for the Scan List

Procedure:

1. To view and edit the priority of the talkgroup, from the menu, select **Scan** → **View/Edit List** → *<required alias>* → **Edit Priority**.
2. Perform one of the following actions:
 - To edit the required alias as Priority 1, select **Priority 1**.
 - To edit the required alias as Priority 2, select **Priority 2**.

- To edit the required alias as no priority, select **None**.
- 3. If another talkgroup has been assigned to Priority 1 or Priority 2, you can overwrite the current priority when the display shows `Overwrite Existing?`
 - To overwrite, select **Yes**.
 - To return to the previous screen, select **No**.

28.6.2

Viewing the Scan List

Procedure:

1. From the menu, select **Scan** → **Scan List**.
2. Perform one of the following actions:
 - To do alias search, enter the required characters for the alias.
 - To search for the alias manually, scroll through the contact list with the **right** or **left** button.

28.6.3

Adding New Entries to the Scan List

Procedure:

1. From the menu, select **Scan** → **Scan List** → **Add Member** → *<required alias>*.
2. Perform one of the following actions:
 - To add the new alias as Priority 1, select **Priority 1**.
 - To add the new alias as Priority 2, select **Priority 2**.
 - To add the new alias as no priority, select **None**.
3. If another talkgroup has been assigned to Priority 1 or Priority 2, you can overwrite the current priority when the display shows `Overwrite Existing?`
 - To overwrite, select **Yes**.
 - To return to the previous screen, select **No**.
4. Perform one of the following actions:
 - To add another entry, select **Yes**.
 - To save the current list, select **No**.

28.6.4

Deleting Entries from the Scan List

Procedure:

1. From the menu, select **Scan** → **Scan List** → *<required alias>* → **Delete**.
2. Perform one of the following actions:
 - To delete the alias, select **Yes**.
 - To return to the previous screen, select **No**.

28.7

Multi-Talkgroup Affiliation

Your radio can be configured for up to seven talkgroups at a site.

Up to seven talkgroups can be assigned as affiliation talkgroups from the 16 talkgroups in the Receive Group List. The selected talkgroup and the priority talkgroups are automatically affiliated.

28.7.1

Adding the Talkgroup Affiliation

Procedure:

1. From the menu, select **Scan** → **View/Edit List** → *<required ID or alias>* → **Edit Affiliation**.
2. To add the Talkgroup Affiliation, select **On**.

Result:

If affiliation is successfully added to the system, the display shows a ✓.

If maximum of seven talkgroups are selected for affiliation, the display shows `List Full`



NOTE:

In the **View/Edit List**, the ■ icon beside the talkgroups indicate registration in progress or failure adding talkgroup affiliation.

The ✓ beside the talkgroups indicate the talkgroup affiliation is successful.

28.7.2

Removing the Talkgroup Affiliation

Procedure:

1. From the menu, select **Scan** → **View/Edit List** → *<required ID or alias>* → **Edit Affiliation**.
2. To remove the Talkgroup Affiliation, select **Off**.

Result: In the **View/Edit List**, the ✓ disappears from beside the selected Talkgroup ID.

Chapter 29

Response Inhibit

This feature helps prevent your radio from responding to any incoming transmissions.



NOTE: Contact your dealer for more information.

When enabled, your radio does not generate any outgoing transmissions in response to incoming transmissions, such as Radio Check, Call Alert, Radio Disable, Remote Monitor, Automatic Registration Service (ARS), and responding to Private Messages.

Your radio cannot receive Confirmed Private Calls when Response Inhibit is enabled.

Your radio can manually send transmissions.

29.1

Setting the Response Inhibit

Procedure:

Press the programmed **Response Inhibit** button.

Result:

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

- A positive tone sounds.
- The display shows a momentary positive mini notice icon.

If the **Response Inhibit** fails to turn off, your radio shows the following indications:

- A negative tone sounds.
- The display shows a momentary negative mini notice icon.

Chapter 30

Radio Check

When enabled, this feature allows you to determine if another radio is active in a system without disturbing the radio user. No audible or visual notification is shown on the target radio.

This feature is only applicable for subscriber IDs.

30.1

Sending Radio Checks

Procedure:

From the menu, select **Contacts** → *<required ID or alias>* → **Radio Check**.

Result:

If the target radio is active in the system, your radio shows the following indications:

- A tone sounds.
- The display shows a positive mini notice.

If the target radio is inactive in the system, your radio shows the following indications:

- A tone sounds.
- The display shows a negative mini notice.

Chapter 31

Received Signal Strength Indicator

This feature allows you to view the Received Signal Strength Indicator (RSSI) values. The display shows the RSSI icon at the top right corner.

31.1

Viewing RSSI Values

Procedure:

From the home screen, within 5 seconds, press the **Left** button three times and the **Right** button three times.

Result: The display shows the current RSSI values.

Chapter 32

Rental Timer

The Rental Timer feature allows the radio rental dealer to set the permitted rental period for your radio and automatically disables the radio beyond the duration specified on the timer.

The radio can be programmed with a maximum rental period of 999 hours and a maximum rental period extension of 99 hours.

The timer calculates the radio usage time and disables the radio when the usage time reaches the predetermined rental period.

After the rental period expires, the radio ceases to function until the dealer resets the rental timer.

32.1

Accessing Rental Timer Information

Procedure:

From the menu, select **Utilities** → **Rental Timer** → **Information**.

Result: The display shows the rental period hours.

32.2

Rental Expiry Reminder

The Rental Expiry Reminder feature provides a reminder when the rental period is expiring.

The radio provides a display and an audio reminder of the timer expiry.

For the audio reminder frequency, the voice announcement sounds as follows:

- Every 1 hour after the first reminder, until the last 2 hours before the rental period expires.
- Twice during the last 2 hours before the rental period expires.
- Twice during the last 3 minutes, 2 minutes, and 1 minute before the rental period expires.

For the display reminder, your radio display shows a momentary notice reminder referring to the number of hours before the rental period expires.

For the last 3 minutes before expiry, your radio display shows a momentary notice reminder of the number of minutes before the rental period expires.



32.3

Extending the Rental Period

The radio can be programmed with a maximum of 99 hours rental period extension.

Procedure:

Perform one of the following actions:

Options	Actions
Extending the rental period through the menu	<p>a. From the menu, select Utilities → Rental Timer → Extension.</p> <p>b. Press the OK button.</p> <p> NOTE: You can only extend the rental period once. The extension check box is greyed out after you extend the rental period.</p>
Extending the rental period through the button	<p>Press the Side Button 2 six times continuously.</p> <p> NOTE: You can only extend the rental period once. A negative indicator tone sounds if you press the button again.</p>

Chapter 33

Security

This feature allows you to stun or revive any radio in the system.

For example, you can disable stolen radio to prevent unauthorized users from using and revive or enable the radio when it is recovered.

When a radio is stunned, the radio cannot request nor receive any user initiated services on the system that performed the stun procedure. However, the radio can switch to another system. The radio continues to send GNSS location reports and can be monitored remotely when the radio was stunned or disabled.

You can stun or revive a radio with or without authentication.

Authenticated Radio Disable is a selling feature and requires verification when you enable or disable a radio. When your radio disables a target radio with user authentication, a passphrase is required. The passphrase is programmed in the target radio through the radio programming software.



NOTE: Contact your dealer to enable this feature.

33.1

Disabling Radios

Procedure:

1. From the menu, select **Contacts** → *<required ID or alias>* → **Radio Disable**.
2. Optional: Enter the passphrase if required.

Result:

If the request is successful, your radio shows the following indications:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If the request is unsuccessful, your radio shows the following indications:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

33.2

Enabling Radios

Procedure:

1. From the menu, select **Contacts** → *<required ID or alias>* → **Radio Enable**.
2. Optional: Enter the passphrase if required.

Result:

If the request is successful, your radio shows the following indications:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If the request is unsuccessful, your radio shows the following indications:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

Chapter 34

Service and Support

You can identify the types of service and support that your radio needs through the service code.

For Limited Keypad models, your radio shows the notification alert and service code on the radio display.

For Non-Keypad model, respective service code messages are only available through Voice Announcement.



NOTE: If the Voice Announcement feature is not enabled in the radio programming software, service mode and service-related announcements are not available for your Non-Keypad model.

For more information about the Service Code, refer to the *MOTOTRBO™ Radios Service Codes Troubleshooting Guide*, MN009539A01 at <https://motr.la/docs>.

34.1

Accessing Notifications

You can identify the types of service and support that your radio needs through the notifications.

Procedure:

Perform one of the following actions:

Option	Actions
Accessing Single Notification Alert	<p>If you receive a notification alert and the respective service code, perform one of the following actions:</p> <ul style="list-style-type: none"> ● To delete the service code, press OK → Yes. ● To return to the previous screen, press the Back/Home button.
Accessing Multiple Notification Alert	<p>If you receive a notification alert and a selection of notifications, perform the following actions:</p> <ol style="list-style-type: none"> a. To view the service code details, select the <i><relevant notification></i>. b. Perform one of the following actions. <ul style="list-style-type: none"> ● To delete the service code, press OK → Yes. ● To return to the previous screen, press the Back/Home button.



34.2

Accessing Service and Support

You can identify the types of service and support that your radio needs through the service code.

Procedure:

Perform one of the following actions:

Option	Actions
Accessing The Service Codes From the Service & Support Menu	<ol style="list-style-type: none"> a. From the menu, select Service & Support → <i>< type of service code ></i> → <i><relevant notification></i>. b. Perform one of the following actions: <ul style="list-style-type: none"> ● To delete the service code, press OK → Yes. ● To return to the previous screen, press the Back/Home button.
Viewing the Get Support link	<ol style="list-style-type: none"> a. From the menu, select Service & Support → Get Support. b. Type the URL into a web browser.
Accessing Service Mode  NOTE: Only applicable for Non-Keypad model.	<ol style="list-style-type: none"> a. Press and hold the Side Button 1 for 5 seconds within 10 seconds after your radio is turned on. b. Perform one of the following actions: <ul style="list-style-type: none"> ● To listen to all service messages, press the Side Button 1 again. ● To delete all service messages, press and hold the Side Button 2 until you hear a valid tone indicating successful deletion of all service messages. c. To exit the service mode, restart your radio.  NOTE: When the radio is in the service mode, normal radio operations are disabled.

34.3

Viewing Service Contact

Viewing Service Contact feature is only available for radio models with display.

Procedure:

From the menu, select **Service & Support** → **Service Contact**.


Result: Your radio shows the service contact details.


Chapter 35

Text Messaging

Your radio can receive data from another radio or a text message application.

Table 26: Text Message Types and the Character Limits

Text Message Types	Character Limits
Digital Mobile Radio (DMR) Short Text Message	23 characters.
Text Message	280 characters including the subject line.  NOTE: The subject line only appears when you receive message from e-mail applications.

 **NOTE:** The character limits are only applicable for models with the latest software and hardware. For radio models with outdated software and hardware, the character limits of a text message are 140 characters. Contact your dealer for more information.

35.1

Viewing Text Messages

Procedure:

1. From the menu, select **Messages**.
2. Perform one of the following actions:
 - For Text Messages select **Inbox** → *<required messages>*.
 - For Sent Text Messages, select **Sent Items** → *<required messages>*.

Result:

If the Inbox, Drafts, or Sent Items folder is empty:

- If the Keypad Tone is enabled, a tone sounds.
- The display shows `List Empty`

If the Inbox, Drafts, or Sent Items folder are not empty, the display shows a subject line if the message is from an email application.

35.2

Sending Text Messages

Procedure:

Perform one of the following actions:

Option	Actions
Sending Quick Text Messages	<ol style="list-style-type: none">Compose your message.From the menu, select Messages → Quick Text → <i><required ID or alias></i>.
Sending Sent Text Messages	From your sent message, select OK → Resend .
Resending Text Messages	Select Resend .

Result:

If your text message is successfully sent, your radio shows the following indications:

- A tone sounds.
- The display shows ✓.

If your text message fails to send, the display shows the following options:

- **Resend**
- **Forward**
- **Edit**

35.3

Responding to Text Messages

When you receive a text message, your radio displays the following items:

- The Notification List with the ID or alias of the sender.
- The Message icon.



NOTE: If you press the **PTT** button, your radio exits the Text Message alert screen and makes a Private or Group Call to the sender.

Procedure:

Perform one of the following actions:

- To read the text message, select **Read**.
- To read the text message later, select **Read Later**.
- To delete the text message, select **Delete**.

35.4

Forwarding Text Messages

Procedure:

1. From the **Resend** option screen, select **Messages**.

2. To forward a Text Message from the Inbox or Sent Item folder, select *<required message>* → **Forward**.

Result:

If your text message is successfully forwarded, your radio shows the following indications:

- A positive tone sounds.
- The display shows a positive mini notice.

If your text message fails to forward, the display shows the following indications:

- A negative tone sounds.
- The display shows a negative mini notice.

35.5

Deleting Text Messages

Procedure:

1. From the menu, select **Messages**.
2. Perform one of the following actions:
 - To delete text messages, select **Inbox** → *<required text message>* → **OK** → **Delete**.
 - To delete all text messages, select **Inbox** → **Delete All**.
 - To delete sent text messages, select **Sent Items** → *<required text message>* → **OK** → **Delete**.
 - To delete all sent text messages, select **Sent Items** → **Delete All**.

Chapter 36

Wi-Fi Operation

Wi-Fi® is a registered trademark of Wi-Fi Alliance®. You can set up and connect Wi-Fi network to update your radio firmware, codeplug, language pack, and Voice Announcement.



NOTE: This feature is not applicable for ANZ and APAC regions.

Your radio supports the following Wi-Fi networks.

Wi-Fi Enhanced Open

A new WFA security standard for public networks which provides encryption and privacy on open, non-password-protected networks in areas such as cafes, hotels and airports.

WEP/WPA/WPA2/WPA3-Personal Wi-Fi network

Uses pre-shared key/password based authentication.



NOTE: WPA3-Personal is also known as WPA3 SAE.

WPA/WPA2/WPA3-Enterprise Wi-Fi network

Designed for enterprise networks and requires a RADIUS authentication server. Your radio must be pre-configured with a certificate if certificate-based authentication is deployed and client certificate verification is required.

36.1

Turning Wi-Fi On or Off

Procedure:

1. From the menu, select **Wi-Fi**.
2. Based on your radio Wi-Fi status,select **Turn On** or **Turn Off**.

36.2

Network Access Point Connection

You can preconfigure the network access point and the password for the network access point through the radio programming software.

The following are the conditions for your radio to be automatically connected to the preconfigured network access point:

- Wi-Fi feature for your radio is turned on.
- Correct preconfigured password.

Once your radio is connected to the preconfigured network access point, your radio display shows the connected network access point.

If the pre-configured password is incorrect, your radio display shows `No Connection`.

36.3

Checking Wi-Fi Connection Status

Procedure:

Press the programmed **Wi-Fi Status Announcement** button.

Result:

If Wi-Fi connection is turned on and connected to a network, your radio shows the following indications:

- A voice prompt indicates that Wi-Fi is turned on.
- The display shows `Wi-Fi On, Connected`

If Wi-Fi connection is turned on but not connected to any network, your radio shows the following indications:

- A voice prompt indicating that Wi-Fi is turned on.
- The display shows `Wi-Fi On, Disconnected`

If Wi-Fi connection is turned off, your radio shows the following indications:

- A voice prompt indicating that Wi-Fi is turned off.
- The display shows `Wi-Fi Off`

36.4

Viewing Details of Network Access Points

Procedure:

From the menu, select **Wi-Fi** → *<Pre-configured Network Access Point>* → **View Details**.

Result:

- For a connected network access point, your radio displays information on:
 - Service Set Identifier (SSID)
 - Security Mode
 - Media Access Control (MAC) address
 - Internet Protocol (IP) address

Chapter 37

Utilities

This chapter explains the operations of the utility functions available in your radio.

37.1

Talkaround

This feature allows you to continue communicating when your repeater is non-operational, or when your radio is out of range from the repeater but within the talk range of other radios.

The talkaround setting is retained even after powering down.

This feature is not applicable in Citizens Band channels that are in the same frequency.

37.1.1

Toggling Between Repeater and Talkaround Mode

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Talkaround**.
2. Press the **OK** button to toggle between Talkaround or Repeater mode.

Result:

When Talkaround mode is enabled, a ✓ appears beside **Enabled**

When Talkaround mode is disabled, the ✓ disappears beside **Enabled**

37.2

Setting Radio Tones and Alerts

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Tones/Alerts**.
2. Select one of the following options:
 - **All Tones**
 - **Talk Permit**
 - **Keypad Tone**
 - **Power Up Tone**
 - **Vol.Offset** → *<required volume>*.

Result: A ✓ appears beside the setting.


37.3

Setting Power Levels

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Power**.

2. Perform one of the following actions:
 - To enable communication with radios located at a considerable distance from you, select **High**.
 - To enable communication with radios in closer proximity, select **Low**.

 **NOTE:** This feature is not applicable in Citizens Band channels that are in the same frequency.

37.4

Adjusting Display Settings

Procedure:

1. From the menu, select **Utilities** → **Radio Settings**.
2. Select one of the following display settings options:
 - **Brightness**
 - **Backlight**
 - **Backlight Timer**
 - **Menu Timer**
 - **Intro Screen**


37.5

Setting Squelch Levels

You can adjust the squelch level to filter out unwanted calls with low signal strength or channels with noise higher than normal background.

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Squelch**.
2. Perform one of the following actions:
 - For a normal squelch level, select **Normal Squelch**.
 - To filter out unwanted calls or background noise, select **Tight Squelch**.

 **NOTE:** This feature is not applicable in Citizens Band channels that are in the same frequency.

37.6

Keypad Lock Options

With this feature, you can avoid accidentally pressing buttons or changing channels when your radio is not in use. Depending on your requirements, you can lock your keypad, channel selector knob, or both.

Your dealer can configure one of the following options with the radio programming software:

- Lock Keypad
- Lock Channel Selector Knob
- Lock Keypad and Channel Selector Knob

Contact your dealer to determine how your radio has been programmed.

37.6.1

Locking or Unlocking the Keypad

Procedure:

To lock or unlock your radio keypad, press the programmed **Keypad Lock** button.

Result:

If the keypad is locked, a ✓ appears beside **On**.

If the keypad is unlocked, the ✓ appears beside **Off**.

37.7

Setting Languages

Procedure:

From the menu, select **Utilities** → **Radio Settings** → **Languages** → *<required language>*.

Result: A ✓ appears beside the selected language.

37.8

Setting LED Indicator

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **LED Indicator**.
2. Perform one of the following actions:
 - To enable LED Indicator, select **On** and press the **OK** button.
 - To disable LED Indicator, select **Off** and press the **OK** button.

Result:

If the LED Indicator is enabled, a ✓ appears beside **On**.

If the LED Indicator is disabled, your radio shows the following indications:

- The ✓ appears beside **Off**.
- The display backlight and keypad backlight are automatically turned off.

37.9

Password Lock

You can set a password to restrict access to your radio. Each time you turn on your radio, you must enter the password.

Your radio supports a four-digit password input.

Your radio is unable to receive calls in locked state.

37.9.1

Accessing Radios with Password

Prerequisites: Turn on your radio.

Procedure:

1. Enter your four-digit password.
2. Press the **OK** button.

Result:

If you enter the password correctly, your radio turns on.

If you enter the password incorrectly, a tone sounds, the yellow LED illuminates, and the display shows `Wrong Password`



NOTE:

You may repeat the steps to enter the password. You are given three attempts before your radio enters into a locked state for 15 minutes. The display shows `Radio Locked`.

During locked state, your radio responds to inputs from the **On/Off/Volume knob** and the programmed **Backlight** button only.

During locked state, your radio responds to inputs from the **Power** button and the programmed **Backlight** button only.


If you restart your radio during the locked state, the timer restarts.

37.9.2

Unlocking Radios in Locked State

Procedure:

To unlock your radio in locked state, perform one of the following actions:

Option	Actions
Unlocking Radios in Locked State if your radio is turned on	<ol style="list-style-type: none"> a. Wait for 15 minutes. b. Access the radio by following the steps in <code>Accessing Radios with Password</code>.
Unlocking Radios in Locked State if your radio is turned off	<ol style="list-style-type: none"> a. Turn on your radio. <div data-bbox="930 1276 1373 1339" style="margin-left: 20px;">  NOTE: Your radio restarts the 15 minutes timer for locked state. </div> b. Wait for 15 minutes. c. Access the radio by following the steps in <code>Accessing Radios with Password</code>.

37.9.3

Setting the Password Lock

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Passwd Lock** → *<required password>*.



NOTE: When using this feature for the first time, the display shows `New Password Setup` to set a new password. You must set a new password before setting the Password Lock feature.

2. Perform one of the following actions:
 - To enable Password Lock, select **Turn On**.
 - To disable Password Lock, select **Turn Off**.

37.9.4

Changing Passwords

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Passwd Lock** → *<required password>* → **Change PWD**.
2. Enter a new four-digit password.
3. To confirm the new password, re-enter the same four-digit password.

Result:

If the password is successfully changed, the display shows **Password Changed**

If the password change is unsuccessful, the display shows **Password Do Not Match** and returns to the previous menu.

37.10

Voice Announcement

This feature enables the radio to audibly indicate the current Zone or Channel assigned. This audio indicator can be customized per customer requirements.



NOTE: The Voice Announcement feature can only be enabled through the radio programming software. If enabled, the Text-to-Speech feature is automatically disabled.

37.10.1

Setting the Voice Announcement

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Voice Announcement**.
2. Perform one of the following actions:
 - To enable Voice Announcement, select **On** and press the **OK** button.
 - To disable Voice Announcement, select **Off** and press the **OK** button.

Result:

If the Voice Announcement is enabled, a ✓ appears beside **On**.

If the Voice Announcement is disabled, the ✓ appears beside **Off**.

37.11

Setting the Automatic Call Forwarding

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Call Forward**.
2. Perform one of the following actions:
 - To enable Call Forwarding, press the **OK** button.
 - To disable Call Forwarding, press the **OK** button.

Result:

If the Call Forwarding is enabled, a ✓ appears beside **On**.

37.12

Setting the Microphone Automatic Gain Control

Procedure:

1. From the menu, select **Utilities** → **Radio Settings**
2. Perform one of the following actions:
 - For Analog Microphone Automatic Gain Control, select **Mic AGC-A**.
 - For Digital Microphone Automatic Gain Control, select **Mic AGC-D**.
3. Perform one of the following actions:
 - To enable Mic AGC, select **On** and press the **OK** button.
 - To disable Mic AGC, select **Off** and press the **OK** button.

Result:

If the Mic AGC is enabled, a ✓ appears beside **On**.

If the Mic AGC is disabled, the ✓ appears beside **Off**.

37.13

Setting the Noise Suppress

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Noise Suppress**.
2. Perform one of the following actions:
 - To enable Noise Suppress in a normal background, select **Enhanced Auto**.
 - To enable Noise Suppress when noise is higher than normal background, select **Basic**.
 - To disable Noise Suppress, select **Disabled**.
 - To enable AI-trained level 1 noise suppression, which removes some of the background noise while still retaining contextual awareness, select **AI-trained 1**.
 - To enable AI-trained level 2 noise suppression for minimal background noise, select **AI-trained 2**.

NOTE:

- **AI-trained 1** is an Artificial Intelligence trained noise reduction technology for advanced noise suppression of background noise. Level 1 refers to a noise suppression level that allows some background noise to be heard for contextual awareness.
- **AI-trained 2** is an Artificial Intelligence trained noise reduction technology for advanced noise suppression of background noise. Level 2 refers to a noise suppression level that minimizes background noise for clearer speech.

37.14

Setting the Acoustic Feedback Suppressor

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **AF Suppressor**.
2. Perform one of the following actions:
 - To enable AF Suppressor, select **On** and press the **OK** button.

- To disable AF Suppressor, select **Off** and press the **OK** button.

Result:

If the AF Suppressor is enabled, a ✓ appears beside **On**.

If the AF Suppressor is disabled, the ✓ appears beside **Off**.

37.15

Setting the Intelligent Audio

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **Intelligent Audio**.
2. Perform one of the following actions:
 - To enable Intelligent Audio, select **On**.
 - To disable Intelligent Audio, select **Off**.



NOTE:

Your radio automatically adjusts the audio volume to overcome current background noise in the environment.

Intelligent audio feature is a receive-only feature.

This feature is not applicable during a Bluetooth session.

37.16

Privacy

This feature prevents eavesdropping by unauthorized users on a channel by the use of a software-based scrambling solution. The signaling and user identification portions of a transmission are clear.

Your radio must have privacy enabled on the channel to send a privacy-enabled transmission, although this is not a requirement for receiving a transmission.

Some radio models may not offer Privacy feature, or may have different configuration. Contact your dealer for more information.



NOTE:

Only one type of privacy can be assigned at a time.

This feature is not applicable in Citizens Band channels that are in the same frequency.

The following table describes the type of privacy and the settings that appear on your radio.

Table 27: Privacy Types and Settings

Type	Setting
Basic Privacy	Privacy
Enhanced Privacy	Enhanced Privacy

37.16.1

Setting Privacy

Procedure:

1. From the menu, select **Utilities** → **Radio Settings**.

2. Depending on the configured type of privacy, select your privacy setting.
3. Perform one of the following actions:
 - To enable Privacy, select **On** and press the **OK** button.
 - To disable Privacy, select **Off** and press the **OK** button.

Result:

If Privacy is enabled, a ✓ appears beside **On**.

If Privacy is disabled, the ✓ appears beside **Off**.

37.16.2

Privacy-Enabled Calls

Your radio must have the Privacy feature enabled for the currently selected channel position to send a privacy-enabled transmission. While on a privacy-enabled channel, the radio is still able to receive clear transmissions.

When privacy is enabled for the currently selected channel position, all voice transmission made by your radio is scrambled. The calls include Group Call, Multigroup Call, talkback during scanned calls, Site All Call, Emergency Call, and Private Call. Only receiving radios with the same Key Value and Key ID as your radio can unscramble the transmission.

To unscramble privacy-enabled call or data transmission, your radio must be programmed to have the same type of Privacy Key as the transmitting radio. If your radio receives a scrambled call that is of a different Privacy Key, you hear a garbled transmission.

37.17

Voice Operating Transmission

Voice Operating Transmission (VOX) allows you to initiate hands-free voice-activated calls on a programmed channel. When your VOX-capable accessory detects voice, your radio automatically transmits for a programmed period.



NOTE:

This feature is not applicable in Citizen Band channels that are in the same frequency.

Contact your dealer or administrator for more information.

37.17.1

Setting the Voice Operating Transmission

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **VOX**
2. Perform one of the following actions:
 - To enable VOX, select **On**.
 - To disable VOX, select **Off**.

Result: If VOX is turned on, the display shows a ✓ beside **On**

37.18

Accessing the Radio Information

Procedure:

1. From the menu, select **Utilities** → **Radio Info**.
2. To access the radio information, perform one of the following actions:
 - To check on battery information, select **Battery Info**.
 - To check on your radio ID and alias, select **My ID**.
 - To check on the firmware and Codeplug versions, select **Versions**.
 - To check on the latest software update information, select **SW Update**.

37.19

Viewing Enterprise Wi-Fi Certificate Details



NOTE: This feature is not applicable for ANZ and APAC regions.

Procedure:

From the menu, select **Utilities** → **Certificate Menu** → *<required certificate>* → **View Details**.

37.20

Global Navigation Satellite System

Global Navigation Satellite System (GNSS) is a satellite navigation system that determines the radio precise location. GNSS includes Global Positioning System (GPS), GLONASS, and BeiDou Navigation Satellite System (BDS).

GNSS solutions enable an ecosystem for outdoor location tracking.

37.20.1

Setting the GNSS

Procedure:

1. From the menu, select **Utilities** → **Radio Settings** → **GNSS**.
2. Perform one of the following actions:
 - To enable GNSS, select **On** and press the **OK** button.
 - To disable GNSS, select **Off** and press the **OK** button.

Result:

If the GNSS is enabled, a ✓ appears beside **On**.

If the GNSS is disabled, the ✓ appears beside **Off**.

Chapter 38

Authorized Accessories List

Motorola Solutions provides approved accessories to improve the productivity of your radio.

For more information about the accessories, UL accessories, and batteries supported for your radio, see <https://motr.la/docs> with the following Manual Part Numbers:

- MN010938A01 *MOTOTRBO™ R5 Portable Radio Accessories Leaflet*
- MN010770A01 *UL Approvals MOTOTRBO R5 Product Listing (For Use in Hazardous [Classified] Locations)*