Manuals+ — User Manuals Simplified.

MOTOROLA SOLUTIONS

BC400D
Bearcom
Portable Radio

MOTOROLA SOLUTIONS BC400D Bearcom Portable Radio User Guide

Contents

MOTOROLA SOLUTIONS

MOTOROLA SOLUTIONS BC400D Bearcom Portable Radio

Specifications

- Product: BEARCOM BC400D Portable Radio
- Type: Digital Two-Way Radio
- Model: MN010576A01
- Release Date: October 2024

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, under 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 according to 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 to 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.

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. 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 Innovation, Science, and Economic Development Canada (ISED). To reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotropically radiated power (EIRP) 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 a 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.

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 the laws 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.

Read Me First
This user guide covers the basic operations of your radios.

Notations Used in This Manual
Throughout the text in this publication, you notice the use of Warning, Caution, and Notice. These notations are used to emphasize that safety hazards exist, and the care that must be taken or observed.

WARNING: An operational procedure, practice, or condition, and so on, which may result in injury or death if not carefully observed.=
CAUTION: An operational procedure, practice, or condition, and so on, which may result in damage to the equipment if not carefully observed.
NOTE: An operational procedure, practice, or condition, and so on, which is essential to emphasize. Feature and Service Availability: Your dealer or administrator may have customized your radio for your specific needs.
NOTE: Not all features in the manual are available in your radio. Contact your dealer or administrator for more information. You can consult your dealer or system administrator about the following:

- What are the functions of each button?
- Which optional accessories may suit your needs?
- What are the best radio usage practices for effective communication?
- What maintenance procedures promote longer radio life?

Radio Overview

Action	Description
1	Antenna
2	Push-to-Talk (PTT) Button
3	Programmable Side Button 1
4	Programmable Side Button 2
5	Channel Selector Knob
6	Emergency Button
7	Speaker
8	On/Off/Volume Control Knob
9	LED Indicator
10	Microphone
11	Accessory Connector
12	USB-C Connector (Charging and Programming)

Programmable Buttons

Depending on the duration of a button press, the programmable buttons function differently

Table 1: Button Press Duration

Action	Description
Press	Press and release.
Long press	Press and hold for one second or longer, depending on the settings through the Customer Programming Software (CPS).

Assignable Radio Function
You can program the programmable buttons as shortcuts to the following radio functions through Customer Programming Software (CPS). Contact your dealer for more information.

Table 2: Types of Programmable Functions

Function	Description
All Alert Tones On/Off	Allows you to enable or disable the alert tones.
Emergency Off	Allows you to terminate an outgoing emergency call.
Emergency On	Allows you to set up an emergency call.
Power Level High//Mid/Low	Allows you to toggle the transmit power level between high, medium, and low.
Monitor	• Allows you to monitor the transmission activity of the current channel. • Exits the monitoring mode when the button is released.
Nuisance Channel Delete	Allows you to temporarily remove unwanted channels from the scan list.
One Touch Access 1–6	Allows you to initiate a one-click call corresponding to the call set by the key. One-touch access initiates the following features for analog and digital radio. **Analog** DTMF-1–DTMF-4 **Digital** Call Alert, Radio Check, Radio Disable, Radio Enable, and Remote Monitor
Repeater/Talkaround	Allows you to switch between using a repeater and communicating directly with another radio.
Scan On/Off	Allows you to turn on or off the channel scanning feature.
Squelch Level: Tight/Normal/Loose	Allows you to toggle the squelch level between tight, normal, and loose.
Scramble On/Off	Allows you to toggle scrambling on or off.
VOX On/Off	Allows you to toggle VOX on or off.
Zone Toggle	Allows you to switch between zones.
Battery Indicator	Allows you to indicate battery strength by using a voice prompt.
Lone Worker On/Off	Allows you to enable or disable the emergency prompts if there has been no user activity for a predefined time.

Function	Description
All Alert Tones On/Off	Allows you to enable or disable the alert tones.
Emergency Off	Allows you to terminate an outgoing emergency call.
Emergency On	Allows you to set up an emergency call.
Power Level High//Mid/Low	Allows you to toggle the transmit power level between high, medium, and low.
Monitor	- Allows you to monitor the transmission activity of the current channel. - Exits the monitoring mode when the button is released.
Nuisance Channel Delete	Allows you to temporarily remove unwanted channels from the scan list.
One Touch Access 1–6	Allows you to initiate a one-click call corresponding to the call set by the key. One-touch access initiates the following features for analog and digital radio. **Analog** DTMF-1–DTMF-4 **Digital** Call Alert, Radio Check, Radio Disable, Radio Enable, and Remote Monitor
Repeater/Talkaround	Allows you to switch between using a repeater and communicating directly with another radio.
Scan On/Off	Allows you to turn on or off the channel scanning feature.
Squelch Level: Tight/Normal/Loose	Allows you to toggle the squelch level between tight, normal, and loose.
Scramble On/Off	Allows you to toggle scrambling on or off.
VOX On/Off	Allows you to toggle VOX on or off.
Zone Toggle	Allows you to switch between zones.
Battery Indicator	Allows you to indicate battery strength by using a voice prompt.
Lone Worker On/Off	Allows you to enable or disable the emergency prompts if there has been no user activity for a predefined time.

Function	Description
RX Noise Cancellation	Allows you to turn on and off the receiving noise cancellation feature.
TX Noise Cancellation	Allows you to turn on and off the transmitting noise cancellation feature.
Enhanced Audio Power On/Off	Allows you to turn on and off the enhanced audio power setting for the current channel. The speaker is set to operate at the highest speaker power limit when enhanced audio power is turned on.
Sticky Monitor On/off	Allows you to monitor a selected channel for all radio traffic until the function is disabled.
Battery Saver On/Off	Allows you to enable or disable the battery saver feature.

Radio LED Indications

The LED Indicator shows the operational status of your radio. A qualified technician can permanently disable the LED indication through a specific configuration.

Table 3: LED Indication

Indication	Status
Solid Red	The radio is transmitting.
Solid Green	The radio is receiving a signal.
Blinking Green	The radio is scanning.
Blinking Red	The battery capacity is low.
Solid White	The radio is charging through USB-C. The LED turns off when USB-C charging completes.
Blinking White	USB-C charging fault.

Getting Started

This chapter provides instructions on how to prepare your radio for use.

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

Prerequisites: Turn off your radio when charging.

Procedure:

- To comply with warranty terms and avoid damage, charge the battery using an authorized charger.

Charging through Single-Unit Charger (SUC)

Charging through USB-C Connector

- Charge a new battery for more than five hours before initial use for best performance. Batteries charge best at room temperature.

NOTE: Charging using the USB-C connector takes approximately 30 % longer than charging using SUC.

Attaching the Battery Procedure:

- Align the battery with the rails on the back of the radio.
-

Press the battery firmly and slide upwards till the latch snaps into place..

Removing the Battery Procedure

1. Turn off your radio.
2. Move the battery latch into the unlock position and hold, and slide the battery down.

Attaching the Antenna 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.

Removing the Antenna Procedure

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

Attaching the Belt Clip Procedure

Align the rails on the clip with the grooves on the battery and press it downwards until it clicks.

Removing the Belt Clip Procedure

1. To remove the clip, press the belt clip tab away from the battery.
2. Slide the clip upwards and away from the radio.

Opening the Dust Cover

Dust cover prevents dust, water stains, and other foreign bodies from entering, damaging the radio, and blocking the jack and the USB-C connector.

Procedure

Open the dust cover by pulling the cover out.

NOTE
Open the dust cover when attaching the audio accessory, charging cable, or programming cable. Close the dust cover when you are not charging, programming, or when the audio accessory is not in use

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.

Turning the Radio Off Procedure
Turn the On/Off/Volume knob counterclockwise until a click sounds. MN010576A01-AA

Adjusting the Volume Procedure:
To adjust the volume of your radio, perform one of the following actions:

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

Setting Squelch Levels Procedure
Press the programmed Squelch button.

Result:
The default setting is Normal. The squelch feature is supported in analog mode only.

- If your radio is set to tight squelch, an ascending indicator tone sounds.
- If your radio is set to normal squelch, a flat indicator tone sounds.
- If your radio is set to loose squelch, a descending indicator tone sounds.

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 4: Number of Supported Zones and Channels

Zone	Channels
4	64

Selecting Zones Procedure
Press the programmed Zone Toggle button.

Result
Your radio shows the following indications:

- When you switch to Zone 1ane beep tone sounds.
- When you switch to Zone 2, two beep tones sound.
- When you switch to Zone 3, three beep tones sound.
- When you switch to Zone 4, four beep tones sound.

Selecting Channels
Your radio supports up to 64 channels. Each channel can be programmed with different features that support different groups of users. The radio supports up to four zones, each with 16 channels.

Procedure
elect channels by rotating the Channel Selector knob. Your radio indicates the channel number or the programmed channel number through a voice announcement. If the channel is not programmed, an error tone sounds.

NOTE: The radio sounds the voice announcement if the feature is enabled through Customer Programming Software (CPS).

Calls
Depending on the type of call, you can make, receive, and respond to calls in both Conventional Analog and Digital mode.

Group Calls
Group Calls are calls from an individual radio to a group of radios. To communicate in a group, your radio must first be configured as a part of the talkgroup.

Making Group Calls Procedure

1. To select a channel with an active group ID, rotate the Channel Selector knob.
2. To call, press the PTT button.
3. Wait for the Talk Permit Tone to end, and speak into the microphone.

NOTE: If the selected channel is busy, a busy tone sounds. Your radio is unable to make a call. 4. To listen, release the PTT button. If your radio does not detect voice activity for a predetermined period, the call ends.

Responding to Group Calls
When you receive Group Calls, your radio shows the following indications:

- The green LED illuminates.
- Your radio is unmuted, and the incoming call sounds through the speaker.

Procedure:

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

Private Calls
Private Calls are calls from one individual radio to another individual radio.

Making Private Calls Procedure

1. To select a channel with an active subscriber ID, rotate the Channel Selector knob.
2. To call, press the PTT button.
3. Wait for the Talk Permit Tone to end, and speak into the microphone.

NOTE: If the selected channel is busy, a busy tone sounds. Your radio is unable to make a call. 4. To listen, release the PTT button. If your radio does not detect voice activity for a predetermined period, the call ends.

Responding to Private Calls
When you receive Private Calls, your radio shows the following indications:

- The green LED illuminates.
- Your radio unmutes, and the incoming call sounds through the speaker.

Procedure:

1. To respond, press the PTT button.
2. Wait for the Talk Permit Tone to end, and speak into the microphone.
3. To listen, release the PTT button.
4. If your radio does not detect voice activity for a predetermined period, the call ends.

All Calls
All Calls are one-way calls from an individual radio to all radios on a channel. All Calls are used for making important announcements. The recipients on the channel cannot respond to All Calls. When you receive All Calls, your radio shows the following indications:

- The green LED illuminates.
- Your radio is unmuted, and the incoming call sounds through the speaker.

All Calls do not wait for a predetermined period before ending. You can only continue with programmed button functions after the All Call ends. If you switch to a different channel during an All Call, your radio stops Receiving the call.

Making All Calls Procedure

1. To select a channel with an all call ID, rotate the Channel Selector knob.
2. To call, press the PTT button.
3. Wait for the Talk Permit Tone to end, and speak into the microphone.

Time-Out Timer
Your system administrator can set the timeout time for a channel through the Customer Programming Software (CPS). Before the preset timeout timer of the radio expires, a warning tone is emitted based on the preset timeout warning timer time. When your radio reaches the time-out time, your radio stops transmitting, and the following radio indications occur:

- A continuous alert tone sounds.
- The red LED extinguishes.
- To resume transmission, you must release the PTT button and wait for the penalty timer to expire.

Call Alert Operation
Call Alert paging enables you to alert a specific radio user to call you back.

Making Call Alert
Your dealer can set up the One Touch Access button to send Call Alert to the desired subscriber ID.

Procedure

1. Select the channel that you want to send the call alert to.
2. Press the programmed One Touch Access button.

Result
If the call alert is successful:

- A positive tone sounds when the target radio is detected on the current channel. If the call alert is unsuccessful:
- A negative tone sounds.

Responding to Call Alerts
When you receive a Call Alert, the following radio indications occur:

- A repetitive tone sounds.

Procedure
To respond, press the PTT button.

Radio Enable and Disable
This feature allows you to enable or disable a radio remotely. For example, you may disable a stolen radio to prevent unauthorized users from using and enabling the radio when it is recovered.

Initiating Radio Enable

Your dealer can set up the One Touch Access button to send a radio enable command to the desired subscriber ID.

Procedure

1. Select the channel that you want to send the radio enable command to.
2. Press the programmed One Touch Access button.

Result

If the radio enable is successful:

- A positive indicator tone sounds.
- The target radio resets. If the radio enable is unsuccessful:
- A negative indicator tone sounds.

Initiating Radio Disable

Your dealer can set up the One Touch Access button to send a radio disable command to the desired subscriber ID.

Procedure

1. Select the channel that you want to send the radio disable command to.
2. Press the programmed One Touch Access button.

Result

If the radio disable is successful:

- A positive indicator tone sounds.
- The target radio blinks green then red LEDs once, and the radio is disabled.
- The radio does not respond to user input and is not able to receive or transmit audio.
- Power cycling the radio does not change the radio status. If the radio disable is unsuccessful:
- A negative indicator tone sounds.

Radio Check

This feature allows you to determine if another radio is active in a system without disturbing the user of that radio.

Initiating and Receiving Radio Check

Your dealer can set up the One Touch Access button to send a radio check command to the desired subscriber ID.

Procedure

1. Select the channel that you want to send the radio check command.
2. Press the programmed One Touch Access button.

Result:

If the radio check is successful:

- A positive indicator tone sounds.
- The target radio blinks green then red LEDs once, and your radio remains muted. If the radio check is unsuccessful:
- A negative indicator tone sounds.

Remote Monitor

This feature is used to turn on the microphone of a target radio. You can use this feature to remotely monitor any audible activity surrounding the target radio. This feature automatically stops after a programmed duration or when there is user operation on the target radio.

Initiating Remote Monitor

Your dealer can set up the One Touch Access button to send a remote monitor command to the desired subscriber ID.

Procedure:

1. Select the channel that you want to send the remote monitor command to.
2. Press the programmed One Touch Access button.

Result:

If the request is successful:

- A positive indicator tone sounds.
- The target radio blinks green and then red LEDs once.
- You can hear the audio surrounding the target audio for a programmed duration. If the request is unsuccessful:
- A negative indicator tone sounds.

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. Toggling Between Repeater and Talkaround Modes

Procedure

Press the programmed Repeater/Talkaround button. When the radio Talkaround mode is off and within the range of the radio, there is no need to connect a repeater to convert the receiving parameters into the transmitting parameters during transmission.
NOTE: Check the channel to enable the Talkaround feature.

Result

- If a high-pitched ringtone sounds, your radio is in talkaround mode.
- If a medium-pitched ringtone sounds, your radio is in repeater mode. Ensure that the radio is within the repeater range to operate in the repeater mode.

Monitor Feature

This feature allows you to monitor the activity of the current channel for both analog and digital modes.
NOTE: When the receive noise cancellation is turned on for analog mode, the "white noise" level during monitor is softer.

Monitoring Channels
Procedure:

1. Press and hold the programmed Monitor button. If the channel is in use:

   - You hear radio activity.

   - The green LED illuminates. If the monitored channel is not in use:

   - For analog channels, your radio sounds a "white noise".

   - The green LED illuminates.

2. To call, press and hold the PTT button.

3. To listen, release the PTT button.

Sticky Monitor
The Sticky Monitor feature is used to continuously monitor a selected channel for activity.

Setting the Sticky Monitor Procedure
Press the programmed Sticky Monitor button.

Result
When your radio enters the mode:

- A positive tone sounds.

- The green LED illuminates. When your radio exits the mode:

- A negative tone sounds.

- The green LED extinguishes.

Scan
Your radio scans through the programmed scan list for the current channel,l, looking for voice activity when you start a scan. Your radio also performs a dual-mode scan. 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. If you are on an analog channel and your radio locks onto a digital channel, your radio automatically switches from analog mode to digital mode during the call.

Table 5: Scan Types

Type	Description
Home Channel Scan (Manual)	Your radio scans all the channels in your scan list assigned to the home channel.
Auto Scan (Automatic)	Your radio automatically starts scanning when you select a channel or group that has Auto Scan enabled.

If you press the PTT button while the radio is scanning, the radio transmits on the current channel, home channel, previously selected channel, or the designated channel based on the scan list settings.

Priority Scan
Priority Scan allows the radio to automatically receive transmission from channels with higher priority. If yor vant to prioritize a channel, you can enable the Priority Scan feature through the Customer Programmin Software (CPS).

Turning Scan On or Off

Procedure
Press the programmed Scan button.

Result
If Scan is enabled:

- A positive tone sounds.
- The green LED blinks. If Scan is disabled:
- A negative tone sounds.
- The green LED extinguishes.

NOTE: If the auto scan feature is enabled, the radio does not allow you to turn on or off the channel scanning feature using the programmed Scan button.

Scan Talkback
During scanning, your radio stops on a channel or group where activity is detected. The radio stays on that channel for a programmed duration known as hang time.

Procedure:

1. To talk in the ongoing call, press the PTT button during hang time.
2. Wait for the Talk Permit Tone to end, and speak into the microphone.
3. To listen, release the PTT button.

Deleting Nuisance Channels
If a channel continually generates unwanted calls or noise (termed a "nuisance" channel), you can temporarily remove the unwanted channel from the scan list. This capability does not apply to the channel designated as the Selected Channel.

Procedure

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

Restoring Nuisance Channels Procedure

- Perform one of the following actions:
- Restart your radio.
- Turn off and then turn on the scan.
- Change the channel using the Channel Selector knob.

Button/Channel Selector Lock
This feature allows you to set the button and channel selector locking mode in the Customer Programming Software (CPS). The following are the available locking modes:

None

The keys can function and operate normally.

Side Buttons
The programmed function for the side buttons cannot be turned on or off.

Emergency Button
The programmed function for the emergency button cannot be turned on or off.

Channel Selector
Radio switching channels is disabled and causes error prompts.

NOTE: The emergency button, side button, and PTT are functional for normal use.

Noise Cancellation
The Noise Cancellation feature reduces the effect of surrounding noise that affects the clarity of the intended audio for transmission and reception.

NOTE When the Receive Noise Cancellation feature is turned on, tones generated by the radio can sound different. Examples of these tones are roger beep, DTMF tones, and squelch tail.

Setting the Transmit Noise Cancellation Procedure
Enable the transmit noise cancellation feature when you are in the noisy environment by pressing the programmed Transmit Noise Cancellation button. Your radio transmits a clearer audio to the receiver by filtering out the ambient noise.

Setting the Receive Noise Cancellation Procedure
To filter the ambient noise in the received audio, enable the receive noise cancellation feature by pressing the programmed Receive Noise Cancellation button. Noise is filtered out from the received call. You can hear the caller's voice.

Scramble
The scramble feature makes your transmissions sound garbled to anyone listening without the same scramble code.
NOTE: The scramble feature is supported in analog mode only.

Initiating and Receiving Scramble Calls
Procedure

1. Select the channel that you want to toggle scramble on or off.

2. Press the programmed Scramble On/Off button. If the scramble is enabled:

3. A positive tone sounds. If the scramble is disabled:

4. A negative tone sounds.

5. To call, press the PTT button.

6. Your radio can receive clear calls if the scramble code is the same as the transmitter's.

7. If your radio receives a different scramble code, you are not able to hear the call or hear a garbled

   transmission.

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

Procedure

Press the programmed Lone Worker button. When there is no user activity, the radio prewarns you once the inactivity reminder timer expires. You can reset the timer by pressing the PTT button or rotating the channel selector. If there is still no response from you and the predefined inactivity timer expires, the radio initiates an emergency alarm as programmed by the dealer.

NOTE: This feature is supported in digital mode only.

Emergency Operation

Emergency Alarms are used to indicate critical situations. You can initiate an Emergency Alarm at any time even when there is an activity on the current channel. You can only assign one type of Emergency Mode to the Emergency button for each channel.

NOT: This feature is supported in Digital mode only.

Emergency Modes

Your radio supports the following Emergency Modes:

Table 6: 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 Alert: Your radio transmits an Emergency Alert. When the Emergency Alarm is acwith Voice to Follow knowledged, 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:

- If you press and hold the **PTT** button during the programmed Hot During the mic receiving period, your radio proceeds to make a call and stops the Hot Mic receiving period timer. Your radio remains in emergency mode after all tries are exhausted.
- If the Emergency Alarm request fails, the radio enters the Hot Mic directly.

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: Your radio transmits an Emergency Alarm. When the Emergency Alarm is acwith Voice to Follow knowledged, 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:

- If you press and hold the **PTT** button during the programmed Hot During the mic receiving period, your radio proceeds to make a call and stops the Hot Mic receiving period timer. Your radio remains in emergency mode after all tries are exhausted.
- If the Emergency Alarm request fails, the radio enters the Hot Mic directly.

Silent Emergency Alarm	Your radio transmits an emergency notification without any audio or visual indicators.
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.

Sending Emergency Alarm Procedure
Press the programmed Emergency On button.

Result
If the alarm is successfully sent:

- The emergency tone sounds. If the alarm is unsuccessful after all retries:
- A negative tone sounds.

Sending Emergency Alarms with Call Procedure

1. Press the programmed Emergency On button. If the alarm is successfully sent, the emergency tone sounds.
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.

Sending Emergency Alarms with Voice to Follow Procedure:

- Press the programmed Emergency On button. If the alarm is successfully sent, the Emergency tone sounds and Hot Mic is activated.
- Speak into the microphone without pressing the PTT button. Your radio automatically stops transmitting when the hot mic duration expires.

Emergency Alarms

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

- A tone sounds.
- The orange LED blinks MN010576A01-AA

  Exiting Emergency Mode
- When you initiate the emergency alarm, the radio automatically exits the emergency mode when you are having the following scenarios:
- An acknowledgment is received from the system (for emergency alarms only).
- All retries to send the alarm are exhausted.
- Turn off your radio. When you turn on your radio, the emergency will not reinitiate automatically.
- Change your current channel.

When you receive an Emergency Alarm, the radio automatically exits the emergency mode when you are having the following scenarios:

- Turning off your radio.
- Change your current channel.

Procedure
To exit the Emergency Mode, press the programmed Emergency Off button.

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

- The tone ceases.
- The orange LED extinguishes.

Auto Power Off
This feature allows you to avoid the radio from being idle for a long time and extend the battery life. A tone sounds continuously for 10 seconds before the radio shuts down automatically when the Auto Power Off timer has expired. NOTE: The radio is idle when there is no user activity such as a button press or rotating the channel selector knob. If you set the timer to None, the radio disables the Auto Power Off feature.

Authorized Accessories List

Table 7: Antenna

Part Number	Description
PMAE4117_	Mag One, UHF, 400-470 MHz, Whip Antenna
PMAE4118_	Mag One, UHF, 450-470 MHz, Stubby Antenna
PMAE4119_ [1]	Mag One, UHF, 450-527 MHz, Whip Antenna
PMAD4164_	Mag One, VHF, 136-155 MHz, Whip Antenna
PMAD4165_	Mag One, VHF, 152-174 MHz, Whip Antenna
Table 8: Battery	
Part Number	**Description**
PMNN4847_	Mag One Lithium Ion 2200T Battery
Table 9: Programming Cable	
Part Number	**Description**
PMKN4294_	Cable, Data, USB-A to USB-C
PMKN4311_	Cable, Data, USB-C to USB-C
Table 10: Carry Device	
Part Number	**Description**
PMLN8600_	Mag One, 2 Inch, Belt Clip
Table 11: Charger	
Part Number	**Description**
PMLN8599_	Mag One Charger Desktop Single Unit, Base only, External Power Supply
Table 12: Earbuds and Earpieces	
Part Number	**Description**
PMLN6534_	Mag One Earbud with In-Line Microphone/PTT/VOX Switch
PMLN6531_	Mag One Ear Receiver with In-Line Microphone/PTT/VOX Switch
PMLN6532_	Mag One Swivel Earpiece with microphone/PTT

Chapter 20: Authorized Accessories List

Part Number	Description
PMLN6542_	Mag One Ultra-Lightweight Headset with Boom Microphone and In-Line PTT Switch
PMLN6536_	2-Wire Surveillance Kit with Quick Disconnect Acoustic Tube

Table 13: Remote Speaker Microphone

Part Number	Description
PMMN4092_	Mag One Remote Speaker Microphone

Table 14: Power Supplies and Charging Cable

Part Number	Description
PMAE4117_	Mag One, UHF, 400-470 MHz, Whip Antenna
PMAE4118_	Mag One, UHF, 450-470 MHz, Stubby Antenna
PMAE4119_ [1]	Mag One, UHF, 450-527 MHz, Whip Antenna
PMAD4164_	Mag One, VHF, 136-155 MHz, Whip Antenna
PMAD4165_	Mag One, VHF, 152-174 MHz, Whip Antenna

[1] Available in LACR only.

Table 8: Battery

Part Number	Description
PMNN4847_	Mag One Lithium Ion 2200T Battery

Table 9: Programming Cable

Part Number	Description
PMKN4294_	Cable, Data, USB-A to USB-C
PMKN4311_	Cable, Data, USB-C to USB-C

Table 10: Carry Device

Part Number	Description
PMLN8600_	Mag One, 2 Inch, Belt Clip

Table 11: Charger

Part Number	Description
PMLN8599_	Mag One Charger Desktop Single Unit, Base only, External Power Supply

Table 12: Earbuds and Earpieces

Part Number	Description
PMLN6534_	Mag One Earbud with In-Line Microphone/PTT/VOX Switch
PMLN6531_	Mag One Ear Receiver with In-Line Microphone/PTT/VOX Switch
PMLN6532_	Mag One Swivel Earpiece with microphone/PTT

Chapter 20: Authorized Accessories List

Part Number	Description
PMLN6542_	Mag One Ultra-Lightweight Headset with Boom Microphone and In-Line PTT Switch
PMLN6536_	2-Wire Surveillance Kit with Quick Disconnect Acoustic Tube

Table 13: Remote Speaker Microphone

Part Number	Description
PMMN4092_	Mag One Remote Speaker Microphone

Table 14: Power Supplies and Charging Cables

Part Number	Description
PS000150A31	Universal United States/Japan Adapter 5 VDC/1.5 A L6 USB-A Detachable
PS000150A32	Universal Europe Adapter 5 VDC/1.5 A L6 USB-A Detachable
PS000150A35	Universal Argentina Adapter 5 VDC/1.5 A L6 USB-A Detachable
PS000150A36	Universal China Adapter 5 VDC/1.5 A L6 USB-A Detachable
PS000150A38	Universal Brazil Adapter 5 VDC/1.5 A L6 USB-A Detachable
PMKN4274_	USB-A to USB-C Cable (Charging only)

Legal and Support
Intellectual Property and Regulatory Notices

Copyrights
The Motorola Solutions products described in this document may include copyrighted Motorola Solutions computer programs. Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted computer programs. Accordingly, any copyrighted Motorola Solutions computer programs contained in the Motorola Solutions products described in this document may not be copied or reproduced in any manner without the express written permission of Motorola Solutions. No part of this document may be reproduced, transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, without the prior written permission of Motorola Solutions, Inc.

Trademarks
MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC, and are used under license. All other trademarks are the

property of their respective owners.

License Rights

The purchase of Motorola Solutions products shall not be deemed to grant either directly or by implication, estoppel or otherwise, any license under the copyrights, patent,s or patent applications of Motorola Solutions, except for the normal nonexclusive, royalty-free license to use that arises by operation of law in the sale of a product.

Open Source Content

This product may contain Open Source software used under license. Refer to the product installation media for full Open Source Legal Notices and Attribution content.

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 wheelie bin label on the product (or the package in some cases). As defined by the WEEE directive, this crossed-out wheelie bin label means that customers and end users in the EU and the UK should not dispose of electronic and electrical equipment or accessories in household waste. Customers or end users in the EU and the UK 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 apply to or be 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

Legal and Compliance Statements

Supplier's Declaration of Conformity
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: BC400D

Conforms to the following regulations:
FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.109(a)
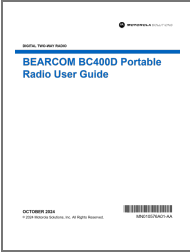
FAQs

Q: How do I charge the portable radio?
A: To charge the radio, use the provided charging cable and connect it to a power source. Make sure to follow the charging guidelines in the user manual.

Q: How can I adjust the volume on the radio?
A: Use the volume control buttons on the radio to adjust the audio output levels. Refer to the user guide for detailed instructions on volume settings.

Documents / Resources

MOTOROLA SOLUTIONS BC400D Bearcom Portable Radio [pdf] User Guide
MN010576A01-AA, BC400D Bearcom Portable Radio, Bearcom Portable Radio, Portable Radio

References

- **User Manual**