

APX™ TWO-WAY RADIOS

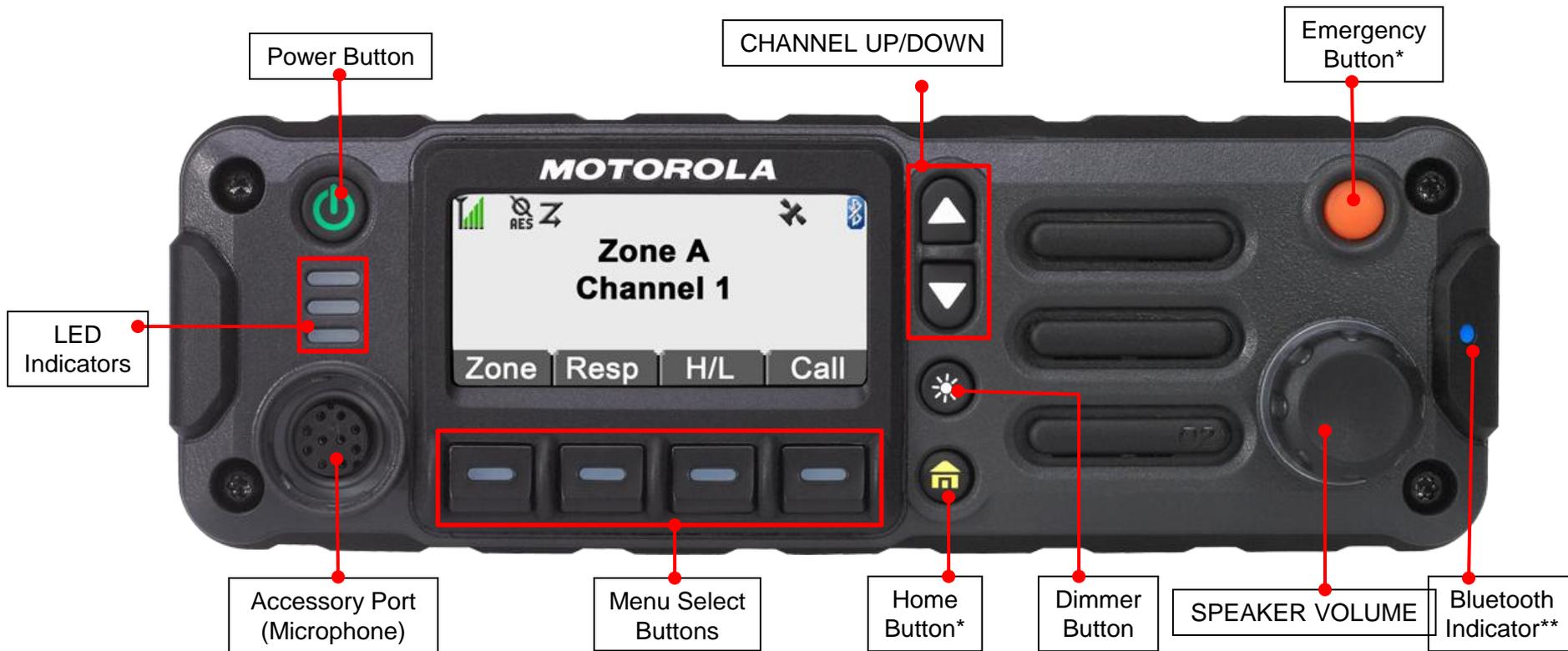
# APX 4500

# O2 CONTROL HEAD

# INTERACTIVE END USER TOOLKIT (IEUTK)



## ❑ O2 Control Head



\* **These radio controls/buttons are programmable.**

\*\* **Your radio's hardware is Bluetooth ready.** (Check with your dealer or system administrator for more details of all the features supported)

## ❑ Turning on/off the Radio

### RADIO WILL POWER UP ON IGNITION OR WHEN MASTER SWITCH IS TURN ON. IF RADIO DOES NOT POWER UP PUSH POWER BUTTON.

After a short time, the red, yellow and green LEDs light up. The display then shows Zone and channel text, and menu items display on the screen.

The backlight will turn on to the last selected dim level.

If **FAIL ###/##** appears in the display, the radio will not function until the condition has been corrected.

If **ERROR ###/##** appears, some non-critical data has been changed.

If the power-up test is unsuccessful, you see **Error XX/YY** (XX/YY is an alphanumeric code).

Turn off the radio, check the battery, and turn the radio back on. If the radio fails the power-up test again, record the **Error XX/YY** code and contact your dealer.

### RADIO WILL POWER DOWN WHEN IGNITION OR MASTER SWITCH IS TURNED OFF

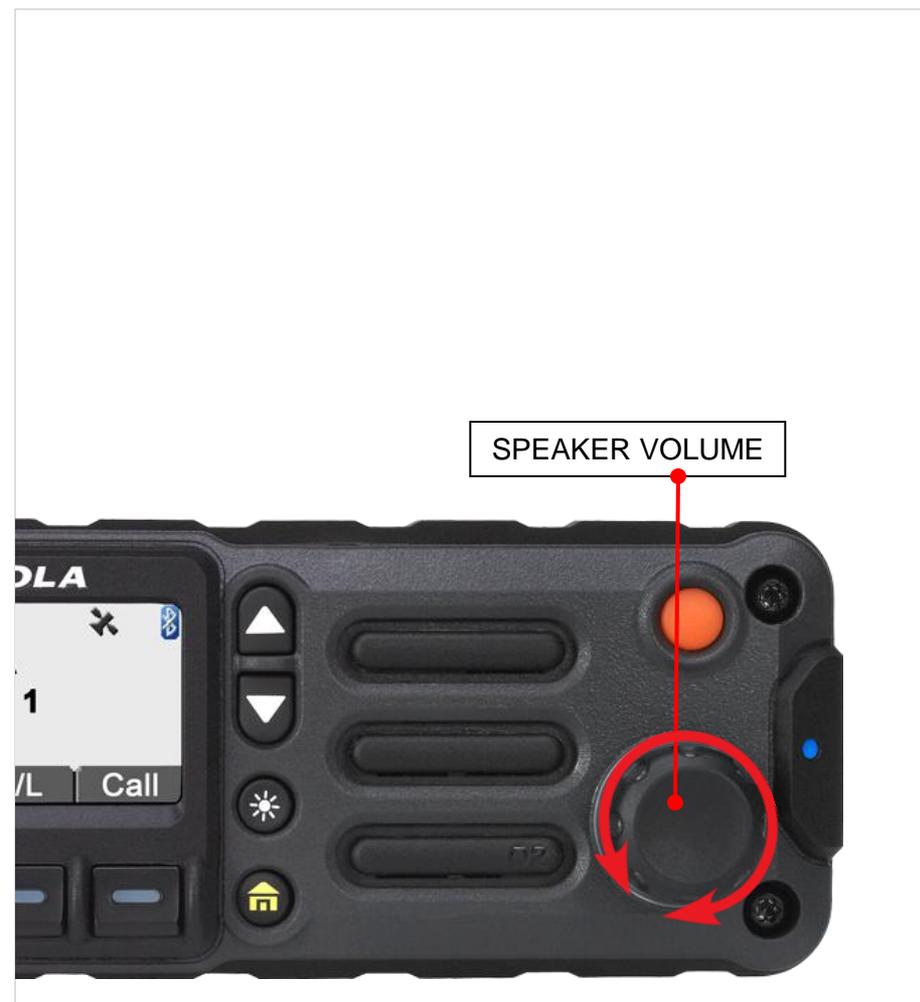


## ❑ Adjusting the Volume

To increase the volume, rotate VOLUME SWITCH clockwise.

The display shows volume bars and volume level when you change the volume.

**To decrease** the volume, rotate the VOLUME CONTROL KNOB counterclockwise.



•

**Scan** – Toggles scan on or off.

**THIS IS ACTIVATED BY THE FIRST MENU SELECT SOFT KEY BELOW DISPLAY**

**Scan List Programming** – Selects the scan list for editing.

**THIS IS ACTIVATED BY THE THIRD MENU SELECT SOFT KEY UNDER DISPLAY**

•

**Zone Select** – Allows selection from a list of zones. **THIS IS ACTIVATED BY SECOND MENU SELECT SOFT KEY UNDER DISPLAY**

**Emergency** – Depending on the programming, initiates or cancels an emergency alarm or call. **ORANGE BUTTON IS PROGRAMMED FOR EMERGENCY**

**Intercom** – Enables users of multiple control heads to talk to each other via the control heads in a multi-control head setup. **THIS FEATURE IS ONLY USED ON AMBULANCE RADIOS. THIS IS A MENU SELECT SOFT KEY FUNCTION**

**Monitor (Conventional Only)** – Monitors a selected channel for all radio traffic until function is disabled. THIS IS A SOFT KEY FUNCTION ONLY AVAILABLE ON CHANNEL 7TAC52D

**Nuisance Delete** – Temporarily removes an unwanted channel, except for priority channels or the designated transmit channel, from the scan list. **THIS IS A MENU SELECT SOFT KEY FUNCTION**

**Radio Profiles** – Allows for easy access to a set of preprogrammed visual and audio settings of the radio. **THIS IS A MENU SELECT SOFT KEY FUNCTION**

**Assignable Settings or Utility Functions**

**Channel Announcement** – Allows you to hear the Voice Announcement audio file that is assigned to the radio's current channel/mode. **ALL CHANNELS IN THE FIRST ZONE USE VOICE ANNOUNCEMENT**

**Dimmer** – Changes the display brightness.

**DIM BUTTON** – DIMS BACK LIGHT DISPLAY

## ❑ Accessing the Preprogrammed Functions

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

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

**OR**

- Use the **Menu Select Buttons** (  ).

### Using the Menu Select Buttons

The **Menu Select Buttons** allow to access the menu entries of features.

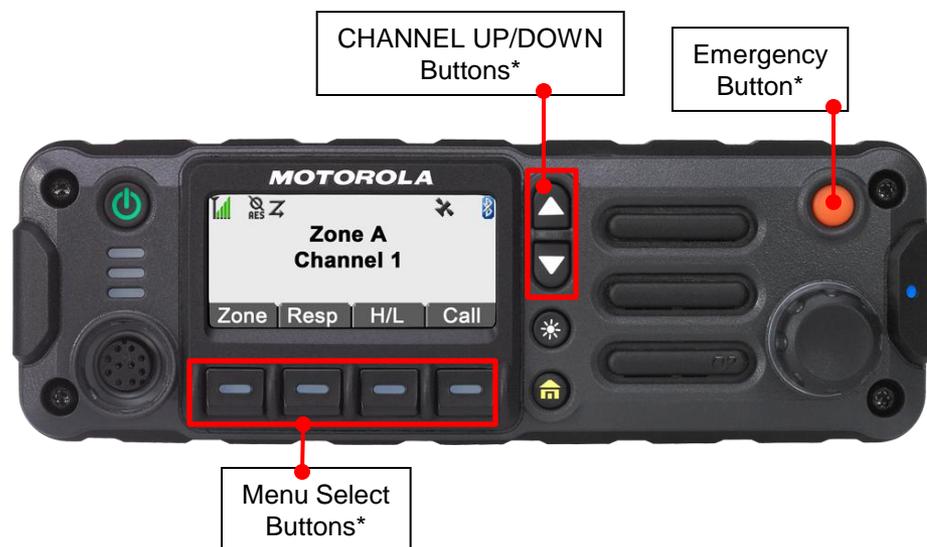
**Note:** Check with your dealer or system administrator for the list of features activated in your radio.

Your radio may be preprogrammed differently from the following example, but the steps for selecting a zone may appear as shown below:

- Press the **Menu Select** button (  ) directly below **Zone**.

### Using the Advance Programmable Buttons

This feature is to help you to shorten the process of applying certain common features.



\* These programmable buttons support the **One Touch Button** feature.

## Using the Navigation Buttons

### Home Button

The  button returns you to the Home (default) screen. In most cases, this is the current mode. For selected radio features, the  button is also used to save user-edited radio settings or information before returning you to the Home screen.

**Note:** Some features do not require you to press  to go to the Home screen. Refer to the individual feature sections in this manual for further details on saving user-edited radio settings or information.

### Dimmer Button

Use this button to adjust the brightness of the display.  
Long press to toggle between day and night mode.

### Up and Down Buttons THESE ARE PROGRAMMED FOR CHANNEL UP/DOWN FUNCTION

By default, the  and  buttons are used as up and down arrow input. These buttons are programmable. They can be programmed to navigate through zones, channels and to increase and decrease the volume of the radio.

### 4-Way Navigation Button (on keypad mic)

Use this button to scroll up , down , left  or right .

Press and release one of the button to scroll from one entry to the next one.

Press and hold one of the button to have the radio toggles through the list automatically (release the button to stop).

## Multi-function Knob (MFK)

**Volume Change** – Turn the VOLUME CONTROL KNOB clockwise or counterclockwise to adjust the volume level of the speaker.

The volume level can be adjusted in 16 steps or 32 steps. A fast turn of the VOLUME KNOB adjusts the volume level in 16 steps with large increments in volume level. A slow turn of the VOLUME KNOB adjusts the volume level in 32 steps with small increments in volume level.

The display shows the volume level and bars to indicate the current level. The level of last selected volume when your radio powers down remains the same when the radio powers up.

The main display shows the icon of the secondary feature. The main display does not show the icon of primary feature.



## □ Status Icons

The liquid crystal display (LCD) of your radio shows the radio status, text entries, and menu entries.

The following are the icons that appear on the radio's display.



### Receiving

Radio is receiving a call or data.



### Transmitting

Radio is transmitting a call or data.



### Call Received

Radio has received an Individual Call.



### Received Signal Strength Indicator (RSSI)

The number of bars displayed represents the received signal strength for the current site, for trunking only. The more stripes in the icon, the stronger the signal.



### Direct

- **On** = Radio is currently configured for direct radio to radio communication (during conventional operation only).
- **Off** = Radio is connected with other radios through a repeater.



### Monitor (Carrier Squelch)

Selected channel is being monitored (during conventional operation only).



### Power Level

- L = Radio is set at Low power.
- H = Radio is set at High power.

**ALL MOBILES ARE SET TO LOW POWER (L)**



### Scan

Radio is scanning a scan list.



### Priority-One Channel Scan

- **Blinking dot** = Radio detects activity on channel designated as Priority-One.
- **Steady dot** = Radio detects activity on channel designated as Priority-Two.

**Secure Operation**

- **On** = Secure operation.
- **Off** = Clear operation.
- **Blinking** = Receiving an encrypted voice call.

**User Login Indicator (IP Packet Data)**

- **On** = User is currently associated with the radio.
- **Off** = User is currently not associated with the radio.
- **Blinking** = Device registration or user registration with the server failed due to an invalid username or pin.

**Data Activity**

Data activity is present.

**Bluetooth On**

Bluetooth is on and ready for Bluetooth connection.

**Bluetooth Connected**

Bluetooth is currently connected to the external Bluetooth device.

## ❑ LED Indicator



The LED indicator shows the operational status of your radio.

**Solid red** – Radio is transmitting.

**Blinking red** – Radio is transmitting at low battery condition.

**Rapidly blinking red** – Radio has failed the self test upon powering up or encountered a fatal error.

**Solid yellow (Conventional Only)** – Channel is busy.

**Blinking yellow** – Radio is receiving a secured transmission.

**Solid green** – Radio is powering up, or is on a non-priority channel while in the Scan List Programming mode.

**Blinking green** – Radio is receiving an individual or telephone call, or is on a Priority-Two channel while in the Scan List Programming mode.

**Rapidly blinking green** – Radio is on a Priority-One channel while in the Scan List Programming mode.

## Intelligent Lighting Indicators

This feature temporarily changes the radio's display backlight color and the alert text background color to help signal that a radio event has occurred.

**Note:** This feature must be preprogrammed by a qualified radio technician.

Backlight and Bar Color	Notification	When
Orange	Emergency Alerts	The radio initiates an emergency alarm or call.
		The radio receives an emergency alarm or call.
Red	Critical Alerts	The radio battery is low.
		The radio is out of range.
		The radio enters fail-soft mode.

Orange

Emergency Alerts



Red

Critical Alerts



## ☐ Alert Tones

An alert tone is a sound or group of sounds. Your radio uses alert tones to inform you of your radio's conditions. The following table lists these tones and when they occur.

You Hear	Tone Name	Heard
<b>Short, Low-Pitched Tone</b>  <b>Play</b>	Radio Self Test Fail	When radio fails its power-up self test.
	Reject	When unauthorized request is made.
	Time-Out Timer Warning	Four seconds before time out.
	No ACK Received	When radio fails to receive an acknowledgment.
	Individual Call Warning Tone	When radio is in an individual call for greater than 6 seconds without any activity.
	Talk Prohibit/ <b>PTT</b> Inhibit	(When <b>PTT</b> button is pressed) transmissions are not allowed.
<b>Long, Low-Pitched Tone</b>  <b>Play</b>	Time-Out Timer Timed Out	After time out.
	Out of Range	(When <b>PTT</b> button is pressed) the radio is out of range of the system.
	Invalid Mode	When radio is on an unprogrammed channel.
<b>A Group of Low-Pitched Tones</b>  <b>Play</b>	Busy	When system is busy.

You Hear	Tone Name	Heard
<b>Short, Medium-Pitched Tone</b>  <b>Play</b>	Valid Key-Press	When correct key is pressed.
	Radio Self Test Pass	When radio passes its power-up self test.
	Clear Voice	At beginning of a non-coded communication.
	Priority Channel Received	When activity on a priority channel is received.
	Emergency Alarm Entry	When entering the emergency state.
	Central Echo	When central controller has received a request from a radio.
<b>Long, Medium-Pitched Tone</b>  <b>Play</b>	Volume Set	When volume is changed on a quiet channel.
	Emergency Exit	When exiting the emergency state.
<b>A Group of Medium-Pitched Tones</b>  <b>Play</b>	Fail-soft	When the trunking system fails.
	Automatic Call Back	When voice channel is available from previous request.
	Keyfail	When encryption key has been lost.
	Console Acknowledge	When status, emergency alarm, or reprogram request ACK is received.
	Received Individual Call	When Call Alert or Private Call is received.
	Site Trunking	When a SmartZone trunking system fails.
	Call Alert Sent	When Call Alert is received by the target radio.

You Hear	Tone Name	Heard
<b>Ringing</b>  <b>Play</b>	Fast Ringing	When system is searching for target of Private Call.
	Enhanced Call Sent	When waiting for target of Private Call to answer the call.
	Phone Call Received	When a land-to-mobile phone call is received.
<b>Gurgle</b>  <b>Play</b>	Dynamic Regrouping	(When the <b>PTT</b> button is pressed) a dynamic ID has been received.
	Talk Permit	(When <b>PTT</b> button is pressed) verifying system accepting transmissions.
<b>Unique, Low-Pitched Chirp</b>	New Message	When a new message is received.
<b>Unique, High-Pitched Chirp</b>	Priority Status	When a priority message is received.

## ❑ Selecting a Zone

A zone is a group of channels.

### Procedure: TO SELECT A ZONE

DEMO

#### [Menu]

1 ◀ or ▶ to **Zone**.

2 Press the **Menu Select** button directly below **Zone**.

3 ▲ OR ▼ to the required zone.

**OR**

Rotate the **MFK** to the desired zone.

4 Press the **Menu Select** button directly below **Sel** to confirm the displayed zone.

5 Press the **PTT** button to transmit on the displayed zone.

## ❑ Selecting a Radio Channel

A channel is a group of radio characteristics, such as transmit/receive frequency pairs.

### Procedure: TO CHANGE CHANNELS

▲ or ▼



## ❑ Receiving and Responding to a Radio Call

Once you have selected the required channel and/or zone, you can proceed to receive and respond to calls.

The LED lights up solid red while the radio is transmitting. In conventional mode, the LED lights up solid yellow when the radio is receiving a transmission. In trunking mode, there is no LED indication when the radio receives a transmission.

If the radio is receiving a secure transmission, the LED blinks yellow.



## ❑ Receiving and Responding to a Radio Call

### *Receiving and Responding to a Talkgroup Call*

To receive a call from a group of users, your radio must be configured as part of that talkgroup.

#### **Procedure:**

When you receive a talkgroup call (while on the Home screen), depending on how your radio is preprogrammed:

#### **1 ASTRO Conventional Only:**

*The LED lights up solid yellow.*

*The display shows the talkgroup alias or ID, and the caller alias or ID.*

**OR**

#### **Trunking Only:**

*The display shows the caller alias or ID.*

#### **2** Press the **PTT** button to respond to the call.

*The LED lights up solid red.*

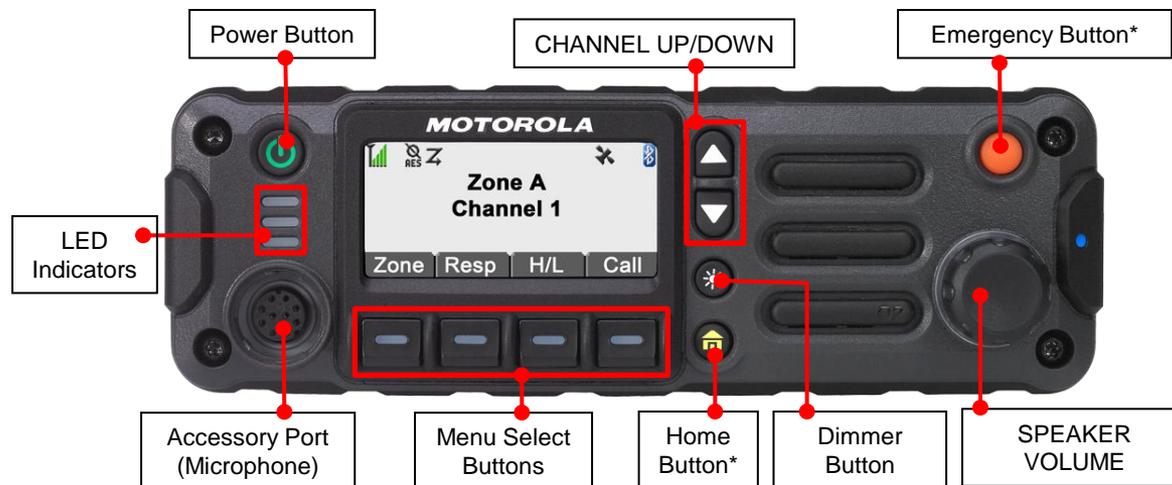
Release the **PTT** button to listen.

## ❑ Making a Radio Call

You can select a zone, channel, subscriber ID, or talkgroup by using:

- The preprogrammed Zone switch
- The Multi-function Knob (MFK)
- A preprogrammed **One Touch Call** button
- The Contacts list

**Note:** If the feature inactivity timer is enabled, your radio automatically exits the feature when your radio is left idle long enough for the time to expire. You will hear the Menu Inactive Exit Tone upon feature exit.



## ❑ Making a Radio Call

### *Making a Talkgroup Call*

To make a call to a group of users, your radio must be configured as part of that talkgroup.

#### Procedure:

- 1 USE THE UP/DOWN CHANNEL SELECT BUTTONS
- 2 Press the **PTT** button to make the call. **YOU WILL HEAR TALK PERMIT TONES**

#### Trunking Only:

*The LED lights up solid red.*  
Speak clearly into the microphone.

Release the **PTT** button to listen.



## ❑ Scan Lists

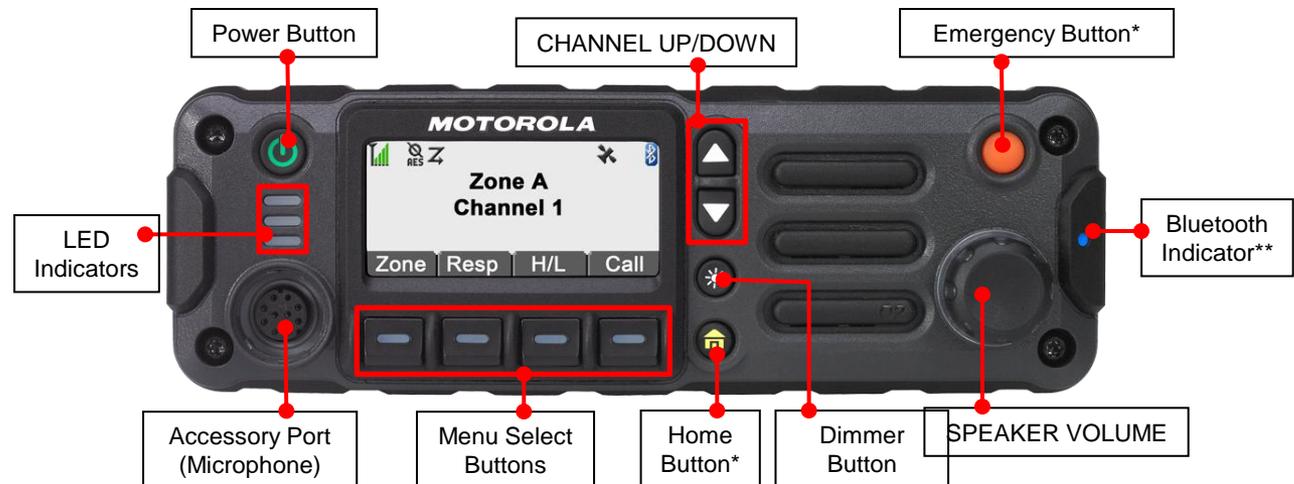
Scan lists are created and assigned to individual channels/groups.

Your radio scans for voice activity by cycling through the channel/group sequence specified in the scan list for the current channel/group.

Your radio supports different types of Scan Lists:

- Trunking Priority Monitor Scan List
- Conventional Scan List
- Talkgroup Scan List

A maximum of 200 Scan Lists can be programmed in your radio.  
These lists must be preprogrammed by a qualified radio technician.



## ❑ Scan Lists

### *Viewing a Scan List*

#### Procedure:

- 1 ◀ or ▶ to **ScnL**.
- 2 Press the **Menu Select** button directly below **ScnL**.
- 3 ▲ or ▼ to view the members on the list.
- 4 Press  to exit the current display and return to the Home screen.



## ☐ Scan Lists

### *Editing the Scan List*

This feature lets you change scan list members and priorities.

#### Procedure:

DEMO

- 1 ◀ or ▶ to **ScnL**.
- 2 Press the **Menu Select** button directly below **ScnL**.  
*The display shows the lists that can be changed.*
- 3 ▲ or ▼ to the entry you want to edit.
- 4 Press the **Menu Select** button directly below **Sel** to add and/ or change the priority of the currently displayed channel in the scan list.  
**OR**  
Press the **Menu Select** button directly below **Del** to delete the currently displayed channel from the scan list.  
**OR**  
Press the **Menu Select** button directly below **Rcl** to view the next member of the scan list.

- 5 ▲ OR ▼ to select more channels to be added or deleted.  
**OR**  
Use the **MFK** to select additional channels to be added or deleted.  
**OR**  
Use the keypad to go directly to additional channels to be added or deleted.
- 6 Press  to exit scan list programming and return to the Home screen.

## ❑ Scan Lists

### *Changing the Scan List Status*

#### Procedure:

- 1 Long press the preprogrammed Scan side button.
- 2 ◀ or ▶ to the member you want to edit.
- 3 Press the ✓ button or press the **Menu Select** button directly below **Sel** once to add the currently displayed channel to the scan list.  
**OR**  
Press the ✓ button or press the **Menu Select** button directly below **Sel**, one or more times to change the scan list status icon of the currently displayed channel.
- 4 ▲ or ▼ to select more channels to be added or deleted.  
**OR**  
Use the **MFK** to select additional channels to be added or deleted.  
**OR**  
Use the keypad to go directly to additional channels to be added or deleted.

- 5 Press  to exit scan list programming and return to the Home screen.

## ❑ Scan

### *Turning Scan On or Off*

This feature allows you to monitor traffic on different channels by scanning a preprogrammed list of channels.

#### Procedure:

##### [Menu]

1 ◀ OF ▶ to **Scan**.

2 Press the **Menu Select** button directly below **Scan**.

*The display shows **Scan off** if scan is disabled.*

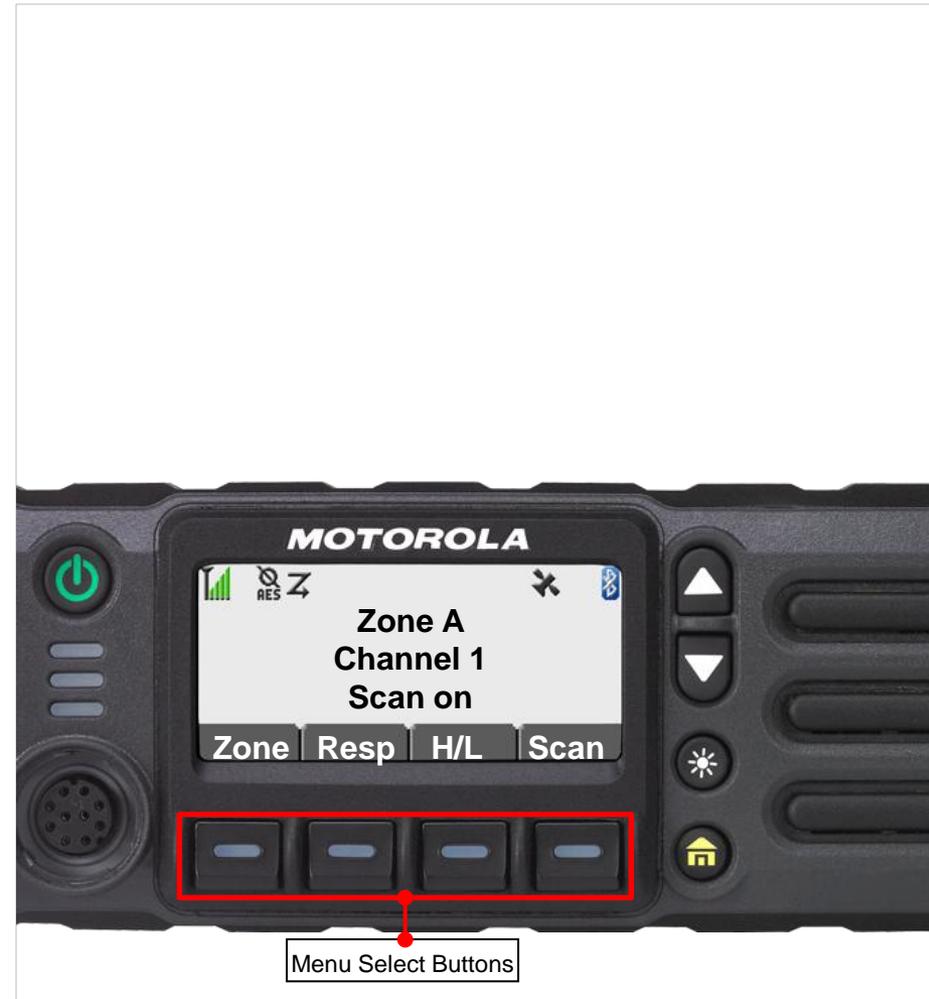
Press the **Menu Select** button directly below **Scan** to enable scan.

#### OR

*The display shows **Scan on** and the scan status icon if scan is enabled.*

Press the **Menu Select** button directly below **Scan** to disable scan.

The radio returns to the Home screen.



## ☐ Scan

*Transmitting While the Scan is On*

### Radio Programmed for Talkback Scan: DIRECT CHANNEL SCAN IS PROGRAMMED FOR TALK BACK SCAN 7TAC52D

#### Procedure:

- 1 Press the **PTT** button to transmit on the channel indicated by the display.

The radio does not begin scanning again for a predetermined hang time after you release the **PTT** button, allowing the other party to respond. **HANG TIME IS PROGRAMMED FOR 3 SECONDS, AFTER THIS TIME TALK BACK REVERTS TO SLECTED CHANNEL.**

If the other party responds within the hang time, scanning does not resume until the full hang time expires after they have finished speaking, allowing the conversation to be completed.

### Radio Programmed for Non-Talkback Scan: **ALL TRUNKED TALK GROUP CHANNELS ARE PROGRAMMED TO TALK BACK ON SELECTED CHANNEL**

#### Procedure:

- 1 Press the **PTT** button at any time to transmit on the selected channel or fixed channel.



## ❑ Scan

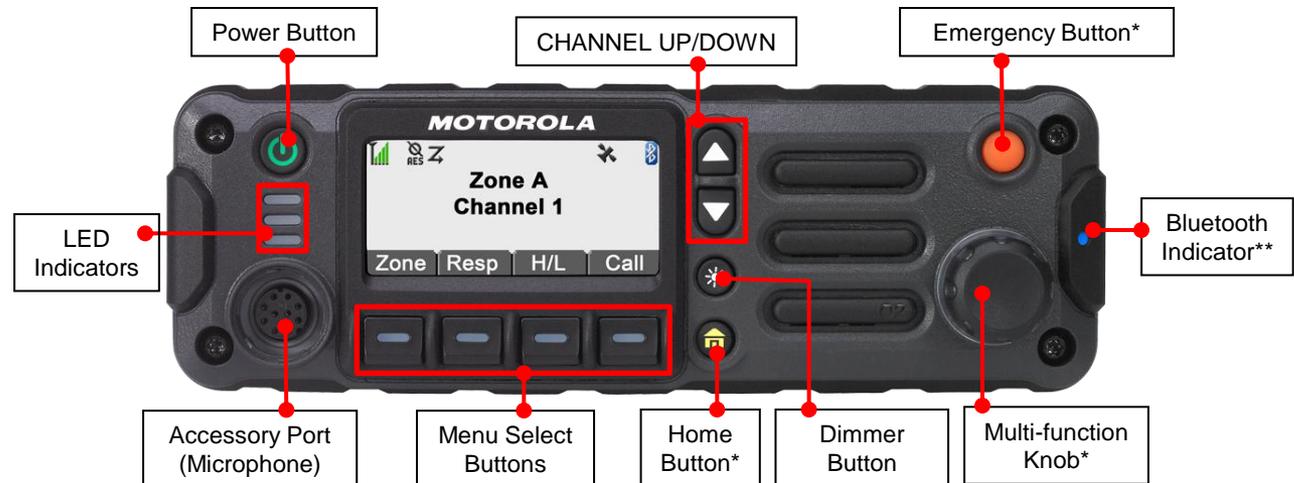
### *Deleting a Nuisance Channel*

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 priority channels or the designated transmit channel.

#### Procedure:

- 1 When the radio is locked onto the channel to be deleted, ◀ or ▶ to **Nuis**.
- 2 Press the **Menu Select** button directly below **Nuis**.  
*The radio continues scanning the remaining channels in the list.*



## ❑ Scan

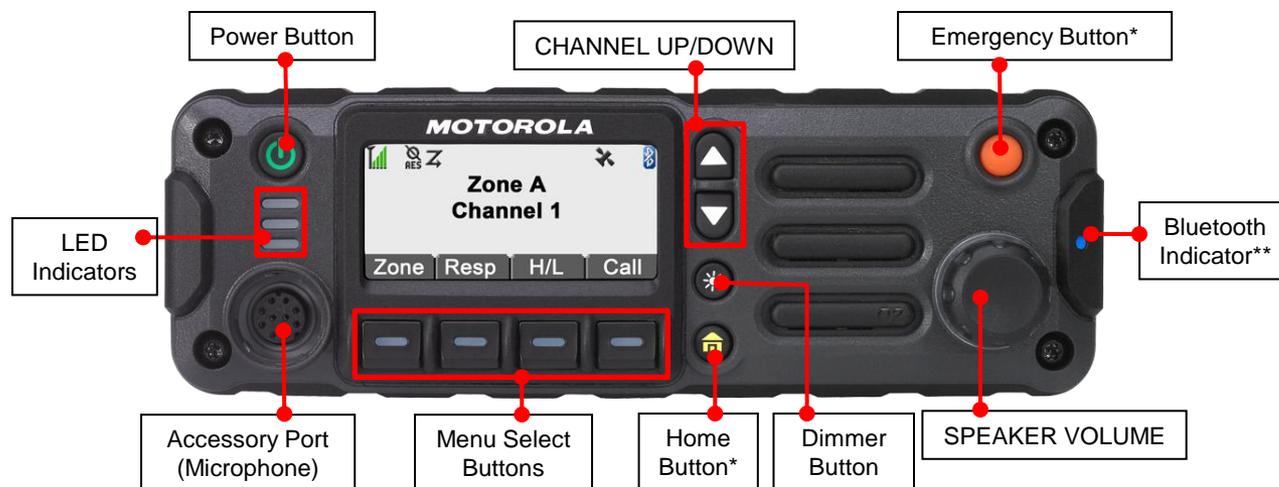
### *Restoring a Nuisance Channel*

#### Procedure:

To restore the deleted nuisance channel, do one of the following:

- Turn the radio off and then turning it on again.  
**OR**
- Change modes.  
**OR**
- Turn off the radio, and then turn it back on.

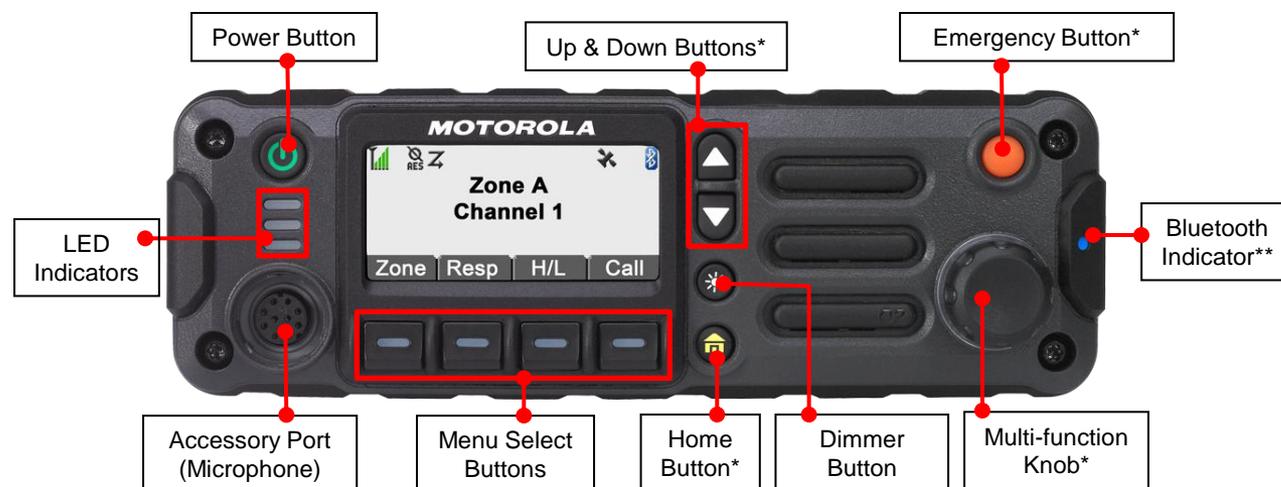
Nuisance mode delete can be disabled by the system administrator.



## ❑ Scan

*Hang Up Box (HUB)*

**SCAN FUNCTION IS PROGRAMMED SO THAT REMOVING THE MIC FROM MIC HOLDER WILL NOT SUSPEND SCAN**



## ❑ Emergency Operation

The Emergency feature is used to indicate a critical situation.

If the **Orange** button is preprogrammed to send an emergency signal, this signal overrides any other communication over the selected channel.

Your radio supports the following Emergency modes:

- Emergency Alarm
- Emergency Call (Trunking Only)
- Emergency Alarm with Emergency Call
- Silent Emergency Alarm
- Special Considerations for Emergencies

Check with your dealer or system administrator for more information on the programming of this feature.

Only **one** of the Emergency modes above can be assigned to the preprogrammed **Emergency** button or the **Emergency** footswitch.

**Note:** To exit emergency at any time, press and hold the preprogrammed **Emergency** button for about a second.



## ❑ Emergency Operation

### *Sending an Emergency Alarm*

This feature allows you to send a data transmission, which identifies the radio sending the emergency, to the dispatcher.

#### Procedure:

DEMO

- 1 Press the preprogrammed **Emergency** button.  
*A tone sounds and the display alternates **Emergency** and the home display.*

*A dispatcher acknowledgment **Ack received** display follows.*

#### **AND, Trunking Only:**

*A high-pitched tone indicates that the alarm has been received by the trunked system's central controller.*

- 2 Press and hold the emergency button or the **PTT** button to return to normal operation.



## ❑ Emergency Operation

### *Special Considerations for Emergencies*

- If you press the emergency button while in a channel that has no emergency capability, a low-pitched tone sounds.
- If the unit is out of the range of the system and/or the emergency alarm is not acknowledged, a tone sounds and the display shows **No acknowledge**.
- If you press the emergency button, then change to a mode that has no emergency capability, the display shows **No emergency** and a continuous low-pitched tone sounds until a valid emergency mode is selected or until the emergency is cancelled.
- When an emergency is active, changing to another mode where emergency is enabled (trunked or conventional) causes an emergency alarm and/or emergency call to be active on the new mode.



## ❑ Secure Operations

### *Enabling Secure Transmission*

Secure radio operation provides the highest commercially available level of voice security on both trunked and conventional channels.

Unlike other forms of security, Motorola digital encryption provides signaling that makes it virtually impossible for others to decode any part of an encrypted message.

**SECURE OPERATION IS STRAPED TO THE CHANNEL IT IS USED ON. RADIO OPERATOR IS NOT REQUIRED TO SELECT SECURE.**

**SECURE CHANNELS ARE MCFMH AND PS ALL**

### **Procedure:**

- 1 to Sec and press the **Menu Select** button directly below **Sec**.  
*The display shows  and the current key if multi-key has been enabled.*
- 2 Monitor the mode to be sure it is not in use.  
Press **PTT** button to transmit.

**Note:** If the selected channel is preprogrammed for clear only operation – when you press the **PTT** button, an invalid mode tone sounds and the display shows **Clear TX** only. The radio does not transmit until you disable the secure mode.

## ❑ Trunking System Controls

### *Using the Fail-soft System*

The fail-soft system ensures continuous radio communications during a trunked system failure.

If a trunking system fails completely, the radio goes into fail-soft operation and automatically switches to its fail-soft channel.

The fail-soft condition is indicated by a faint beeping tone every nine seconds (radio un-squelched) until the trunking system returns to normal operation.

To continue, in Fail-soft, to communicate with other talkgroup, refer to the following procedure.

#### **Procedure:**

- 1 Rotate the **MFK** to change to a different repeater frequency.
- 2 Press the **PTT** button to talk, and release the button to listen.

When the trunking system returns to normal operation, your radio automatically leaves fail-soft operation and returns to trunked operation.

## ❑ Trunking System Controls

### *Going Out of Range*

Out of range when your radio goes out of the range of the system, it can no longer lock onto a control channel.

#### Procedure:

**DEMO**

- 1 You hear a low-pitched tone.

#### **AND/OR**

The display shows the currently selected zone/channel combination and **Out of range**.

#### Your radio remains in this out-of-range condition until:

It locks onto a control channel.

#### **OR**

It locks onto a fail-soft channel.

#### **OR**

It is turned off.



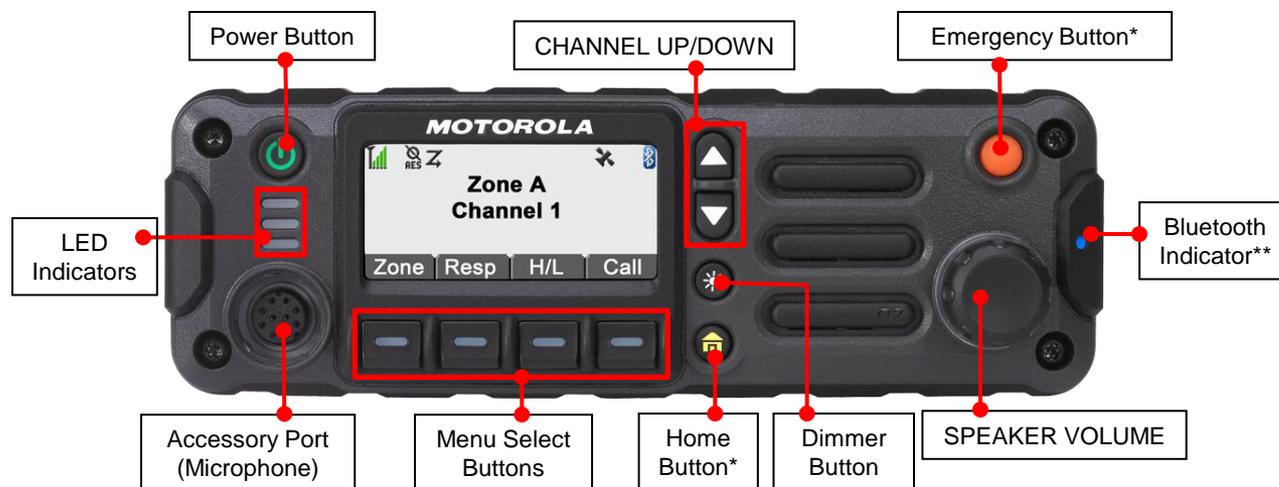
## ❑ Trunking System Controls

### *Using the Site Trunking Feature*

If the zone controller loses communication with any site, that site reverts to site trunking.

The display shows the currently selected zone/channel combination and **SITE TRUNKING**.

**Note:** When this occurs, you can communicate only with other radios within your trunking site.



## ❑ Ignition Switch Options

This feature allows the user to select the radio's functionality based on the Ignition State of the radio user's vehicle. The available options are as follows.

### **Blank**

This option allows the user to power on and power off the radio through the Power button regardless of the Ignition's current state.

### **Tx Inhibit**

This option allows the user to power on and power off the radio through the Power button regardless of the Ignition's current state. In addition, if the Ignition is not present, then all transmissions are inhibited. This includes receiving any Trunking dispatch communications since the radio will not affiliate with the Trunking systems.

### **PTT Tx Inhibit**

This option allows the user to power on and power off the radio through the Power button regardless of the Ignition's current state. In addition, if the Ignition is not present, then all PTT button transmissions are inhibited. However, the radio is able to affiliate with the Trunking systems.

**Required: ALL MOBILE ARE PROGRAMMED TO REQUIRE IGNITION AND OR MASTER SWITCH ON**

**This option allows the user to power on the radio only if the Ignition is present. The radio can be powered off either through Power button press or when Ignition is lost. In addition, the radio automatically powers on when the Ignition is present only if the radio was turned off due to the ignition being removed.**

This option allows the radio to power off when Inactivity Auto Power Off Timer expires, or, when Ignition Auto Power Off Timer expires.

## ❑ Voice Announcement

This feature enables the radio to audibly indicate the current feature mode, Zone or Channel the user has just assigned.

This audio indicator can be customized per customer requirements.

This is typically useful when the user is in a difficult condition to read the content shown on the display.

Each voice announcement is within a limit of three seconds maximum. The sum total duration for all voice announcements in a radio shall be no more than 1000 seconds.

**Note:** This feature must be preprogrammed by a qualified radio technician.

The features which Voice Announcement supports are:

- Zone
- Channel
- Scan
- PL Disabled
- Talkaround/Direct
- Tx Inhibit

**Note:** Voice announcements support certain number of zone-channel, but not all.

Seek advice from your dealer or qualified technician for the best selection of this feature.

The two options of priority for the Voice Announcement available are:

- **High** – enables the voice of the feature to announce even when the radio is receiving calls.
- **Low** – disables the voice of the feature from announcing when the radio is receiving calls.

**ALL MOBILE ARE PROGRAMMED WITH VOICE ANNOUNCEMENT FOR THE CHANNELS IN ZONE 1**

## ❑ Selecting a Radio Profile

This feature allows you to manually switch the visual and audio settings of the radio. The display, backlight, alert tones, and audio settings are defined according to the preprogrammed radio settings of each radio profile.

Please refer to a qualified technician for more information.

**Note:** The radio automatically exits the feature, if the feature inactivity timer is enabled, when the radio is left idle and the timer expires. You will hear the Menu Inactive Exit Tone upon feature exit.

### Procedure:

#### [Menu]

1 ◀ or ▶ to **Prfl.**

2 Press the **Menu Select** button directly below **Prfl** to access the Profiles feature screen.

3 ▲ OR ▼ to scroll through the menu selections.

4 Press the **Menu Select** button directly below **Sel** to select the required radio profile.

*The radio returns to the Home screen.*

*The profile name on the Home screen indicates the current selected radio profile.*

#### OR

Press the **Menu Select** button directly below **Exit** to exit the screen without making any changes.

## ❑ Controlling the Display Backlight

You can enable or disable the radio's display backlight as needed, if poor light conditions make the display difficult to read.

Depending on how your radio is preprogrammed, you can also maintain a minimum backlight level on the radio's display.

### Procedure:

- 1 Press the **Dimmer** button to adjust the brightness of the display.  
Long press to toggle between day and night mode.



## ❑ Using the Time-Out Timer

This feature turns off your radio's transmitter. You cannot transmit longer than the preset timer setting.

If you attempt to do so, the radio automatically stops your transmission, and you hear a talk-prohibit tone.

The timer is defaulted at 60 seconds, but it can be preprogrammed from 3 to 120 seconds, in 15-second intervals, or it can be disabled entirely for each radio mode, by a qualified radio technician.

**Note:** You will hear a brief, low-pitched, warning tone four seconds before the transmission times out.

**ALL RADIOS ARE PROGRAMMED WITH A 60 SECOND TIME OUT TIMER**

### Procedure:

- 1 Hold down the **PTT** button longer than the preprogrammed time.  
*You hear a short, low-pitched warning tone, the transmission is cut-off, and the LED goes out until you release the **PTT** button.*
- 2 Release the **PTT** button.  
*The LEDs relight and the timer resets.*
- 3 Press the **PTT** button to re-transmit.  
*The time-out timer restarts and the LED lights up solid red.*

## ❑ Using the Digital PTT ID Feature

This feature allows you to see the radio ID (number) of the radio from whom you are currently receiving a transmission. This ID, consisting up to a maximum of eight characters, can be viewed by both the receiving radio and the dispatcher.

Your radio's ID number is also automatically sent every time the **PTT** button is pressed. This is a per-channel feature. For digital voice transmissions, your radio's ID is sent continuously during the voice message.

**ALL MOBILE ARE PROGRAMMED TO DISPLAY THE CALLING RADIO'S ALAIS. FIRE AND RESCUE RADIOS ARE PROGRAMMED WITH FIRE & RESCUE ALAIS AND PUBLIC SAFETY STAFF ALAIS.**