APX™ TWO-WAY RADIOS



APX 4000 (2 KNOBS) MODEL 2 & MODEL 3 INTERACTIVE END USER TOOLKIT (IEUTK)





^{*} These radio controls/buttons are programmable.

□ Charging the Battery



To avoid a possible explosion:

- DO NOT replace the battery in any area labeled "hazardous atmosphere".
- DO NOT discard batteries in a fire.

The Motorola-approved battery shipped with your radio is uncharged. Prior to using a new battery, charge it for a minimum of 16 hours to ensure optimum capacity and performance. When you receive your portable you will need to charge the battery before use. Charge at least 16 hours

Note: When charging a battery attached to a radio, turn the radio off to ensure a full charge.

Battery Charger

To charge the battery, place the battery, with or without the radio, in a Motorola-approved charger. The charger's LED indicates the charging progress; see your charger's user guide.

☐ Attaching/Removing the Battery

Slide the battery into the radio's frame until the bottom latch clicks into place.



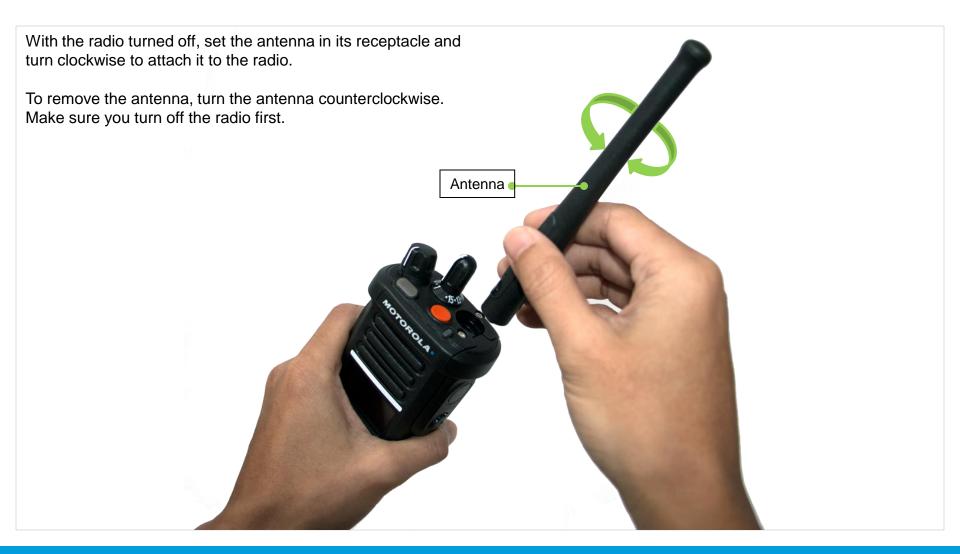
To remove the battery, turn the radio off. Lift up the latch then slide the battery down to remove the battery from the radio.



Note: If your radio is preprogrammed with volatile-key retention, the encryption keys are retained for approximately 30 seconds after battery removal.

Check with your dealer or system administrator for more information. You can view the status of your IMPRES battery.

☐ Attaching/Removing the Antenna



□ Attaching/Removing the Accessory Connector Cover

The accessory connector is located on the antenna side of the radio. It is used to connect accessories to the radio.

Note: To prevent damage to the connector, shield it with the connector cover when not in use.

Insert the hooked end of the cover into the slot above the connector.

Press downward on the cover's top to seat it in the slot. Once in place, tighten by rotating the thumbscrew clockwise by hand.

To remove the accessory connector cover, rotate the thumbscrew counterclockwise until it disengages from the radio.

If the thumbscrew is too tight, use an Allen wrench to loosen it first.

Rotate and lift the connector cover to disengage it from the radio.



□ Attaching/Removing the Belt Clip

Align the grooves of the belt clip with those of the radio and press upward until you hear a click.

To remove the clip, use a flat bladed object to press the belt clip tab away from the radio.

Then, slide the clip downward and away from the radio.



☐ Turning on/off the Radio

Rotate the **On/Off/Volume Control Knob** clockwise until you hear a click.

If the power-up test is successful, you see the Home screen.

Note: 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.

To turn off the radio, rotate the **On/Off/Volume Control Knob** counterclockwise until you hear a click.



□ Adjusting the Volume

To increase the volume, rotate the **On/Off/Volume Control Knob** clockwise.

To decrease the volume, rotate the **On/Off/Volume Control Knob** counterclockwise.



IDENTIFYING RADIO CONTROLS

□ 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** (, , and .).

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 channel may appear as shown below:

• Press the **Menu Select** button (••) directly below **CHAN**.



Channel – Selects a channel. <u>TOP CHANNEL CONTROL KNOB</u>

Scan – Toggles scan on or off. THE TOP SIDE BUTTON TURNS SCAN ON/OFF

Nuisance Delete – Temporarily removes an unwanted channel, except for priority channels or the designated transmit channel, from the scan list. <u>SECOND SIDE</u> <u>BUTTON BELOW PTT BUTTON WILL DELETE A NUISANCE CHANNEL IN SCAN LIST.</u>

Light/Flip – Press the button to toggle the display backlight on or off; press and hold the button to reverse the content of the top display. **BOTTOM SIDE BUTTON TOGGLES LIGHT ON/OFF**

Emergency – Initiates or cancels an emergency alarm or call. **TOP ORANGE BUTTON**

SOFT PROGRAMMABLE BUTTONS

Zone Select – Allows selection from a list of zones. **5 ZONE TO CHOOSE FROM, MENU SELECT BUTTON.**

Radio Profiles – Allows for easy access to a set of preprogrammed visual and audio settings of the radio. <u>THE LOUD OR DEFUALT PROFILE MIGHT BE</u> <u>USED, MENU SELECT BUTTON.</u>

Monitor (Conventional Only) – Monitors a selected channel for all radio traffic until function is disabled.

Scan List Program: (ScnL) <u>ALLOWS YOU TO CHANGE SCAN LIST NON</u> <u>PRIORITY MEMBERS, MENU SELECT BUTTON.</u>

Contacts: (Cnts) – Selects the Contacts menu. <u>SHOW AVAILABLE MEMBERS</u> <u>IN UNIT ID LIST, MENU SELECT BUTTON</u>

Blue Tooth: (BT) <u>BLUE TOOTH MENU. BLUE TOOTH SET UP, MENU</u> <u>SELECT BUTTON</u>

Information – Displays the information of the radio

Secure Transmission: <u>SECURE OPERATION IS STRAPPED TO THE</u>
<u>CHANNELS THAT WILL USE SECURE, NO NEED TO SELECT SECURE OR</u>
<u>KEY</u>

Talkaround/Direct: <u>DIRECT CHANNELS ARE PREPROGRAMMED INTO THE</u>
<u>RADIO, NO NEED TO SLEECT DIRECT MODE OR TALK AROUND</u>

Voice Announcement – Audibly indicates the current feature mode, Zone or Channel the user has just assigned.

IDENTIFYING RADIO CONTROLS

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.

4-Way Navigation Button

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).

APX 4000 (2 KNOBS) IDENTIFYING RADIO CONTROLS

Push-To-Talk (PTT) Button

The PTT button on the side of the radio serves two basic purposes:

 While a call is in progress, the PTT button allows the radio to transmit to other radios in the call.

Press and hold down PTT button to talk. Release the PTT button to listen.

The microphone is activated when the **PTT** button is pressed.

 While a call is not in progress, the PTT button is used to make a new call.



IDENTIFYING STATUS INDICATORS

□ Status Icons

The 160 x 90 pixel front liquid crystal display (LCD) of the radio shows radio status, text entries, and menu entries. The top display row contain color icons that indicate radio operating conditions.

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.



Battery

The number of bars (0-4) shown indicates the charge remaining in the battery. Blinks when the battery is low.



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)

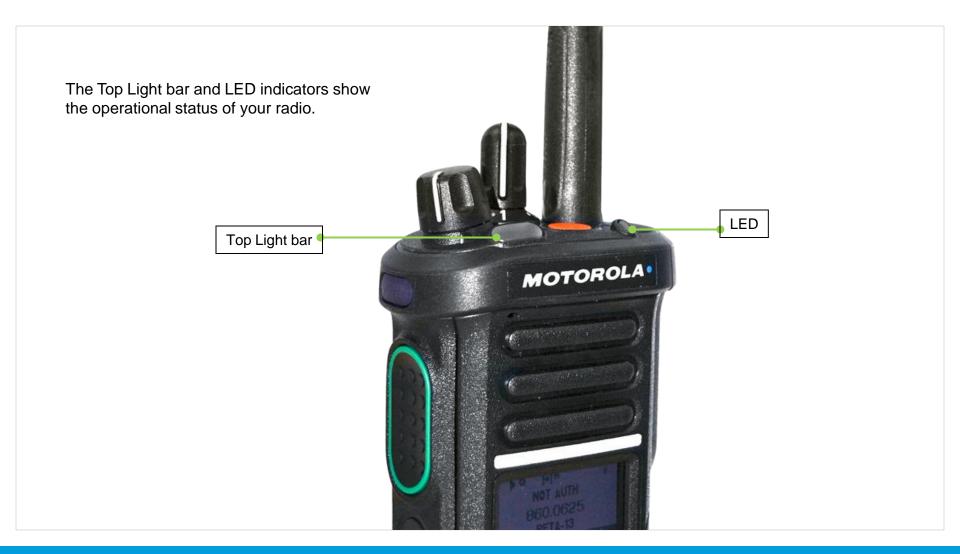
Selected channel is being monitored (during conventional operation only).



Power Level

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

☐ Top Light bar and LED Indicators



IDENTIFYING STATUS INDICATORS

☐ Top Light bar and LED Indicators

LED Indications

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.

Note: No LED indication when the radio receives a clear (non-secured) transmission in trunking Mode.

IDENTIFYING STATUS INDICATORS

□ Top Light bar and LED Indicators

Top Light bar Indications



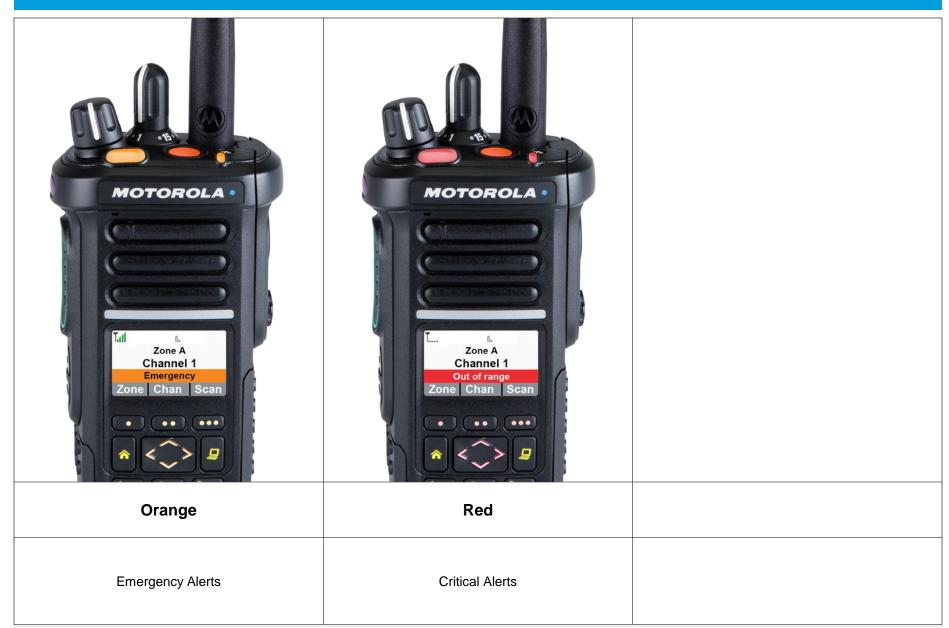
□ Intelligent Lighting Indicators

This feature temporary 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.

IDENTIFYING STATUS INDICATORS



IDENTIFYING STATUS INDICATORS

□ 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
Short, Low-Pitched Tone	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.
(1)))	No ACK Received	When radio fails to receive an acknowledgment.
Play	Individual Call Warning Tone	When radio is in an individual call for greater than 6 seconds without any activity.
Long,	Time-Out Timer	After time out.
Low-Pitched	Timed Out	
Tone	Talk Prohibit/PTT Inhibit	(When PTT button is pressed) transmissions are not allowed.
	Out of Range	(When PTT button is pressed) the radio is out of range of the system.
Play	Invalid Mode	When radio is on an unpreprogrammed channel.
A Group of	Busy	When system is busy.
Low-Pitched Tones		
(1))		
Play		
ı iay		

APX 4000 (2 KNOBS) IDENTIFYING STATUS INDICATORS

You Hear	Tone Name	Heard
Short, Medium-Pitched Tone	Valid Key-Press	When correct key is pressed.
	Radio Self Test Pass	When radio passes its power-up self test.
Play	Priority Channel Received	
liay	Emergency Alarm Entry	When entering the emergency state.
Long,		
Medium-Pitched Tone	Emergency Exit	When exiting the emergency state.
(1)))		
Play		
A Group of Medium-Pitched Tones	Fail-soft	When the trunking system fails.
	Automatic Call Back	When voice channel is available from previous request.
	Talk Permit	(When PTT button is pressed) verifying system accepting transmissions.
(1)))	Keyfail	When encryption key has been lost.
Play	Console Acknowledge	When status, emergency alarm, or reprogram request ACK is received.
	Site Trunking	When a SmartZone trunking system fails.
Short, High-Pitched Tone (Chirp)	Low-Battery Chirp	When battery is below preset threshold value.

□ Selecting a Zone

A zone is a group of channels.

Procedure:

DEMO

- 1 < or > to **Zone**.
- 2 Press the **Menu Select** button directly below **Zone**.
- 3 Or ✓ to the required zone.
 OR

Model 3

Use the keypad to enter the zone number. If the zone number entered is unprogrammed, the display shows **Invalid entry**. Repeat Step 2.

- 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 channel.

☐ Selecting a Radio Channel

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

Procedure:

[16-Position Select Knob]

1 Turn the preprogrammed 16-Position Select Knob to the desired channel.

GENERAL RADIO OPERATION

□ 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.



GENERAL RADIO OPERATION

□ 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.
- 3 Release the PTT button to listen.



■ Making a Radio Call

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

- The 16-Position Select Channel Knob.
- A preprogrammed One Touch 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.

GENERAL RADIO OPERATION

■ 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:

DEMO

- 1 Turn the **16-Position Select Channel Knob** to select the channel with the desired talkgroup.
- 2 Press the PTT button to make the call.

ASTRO Conventional Only:

The LED lights up solid red.

The display shows the talkgroup alias or ID.

OR

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

Please refer to a qualified radio technician for the maximum number of Scan Lists can be programmed in your radio.

These lists must be preprogrammed by a qualified radio technician.

ADVANCED FEATURES

□ Scan Lists

Viewing a Scan List

Procedure:

- 1 < or > to ScnL.
- 2 Press the **Menu Select** button directly below **ScnL**.
- 3 \rightarrow Or \rightarrow to view the members on the list.
- 4 Press to exit the current display and return to the Home screen.





Editing the Scan List

[Menu]



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

< or >

The display shows the lists that can be changed.

- 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.

ADVANCED FEATURES

Priority Status

A Scan icon indicates that the current channel is in the scan list as a non-priority channel. The LED lights up solid green.

OR

A Priority-Two Channel Scan icon indicates that the current channel is in the scan list as the Priority-Two channel.

The LED blinks green.

OR

A Priority-One Channel Scan icon indicates that the current channel is in the scan list as the Priority-One channel.

The LED rapidly blinks green.

You hear all traffic on the Priority- One channel, regardless of traffic on non-priority channels.

OR

No icon indicates that the current channel is deleted from the scan list.

□ Scan

Turning Scan On or Off

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

Procedure:

[Preprogrammed Button]

1 Press the preprogrammed **Scan** button to initiate or stop scan.



□ 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:

[Preprogrammed Button]

1 When the radio is locked onto the channel to be deleted, press the preprogrammed Nuisance Delete button.

The radio continues scanning the remaining channels in the list.



ADVANCED FEATURES

☐ 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

 Stop and restart a scan via the preprogrammed Scan button or menu.

OR

Change the channel via the 16-Position
 Select knob.



□ Emergency Operation

The Emergency feature is used to indicate a critical situation.

If the **Top (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

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.

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

Man Down is an alternate way to activate the Emergency feature on the condition the Emergency must be set up for this feature to operate.

□ 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.

Note: Emergency button press timer by default is set to 1 second. This timer is programmable from 0 – 6 seconds by a qualified technician.

Procedure:

DEMO

1 Press the preprogrammed **Emergency** button.

The display shows **Emergency** and the current zone or channel.

You hear a short, medium-pitched tone and the LED momentarily blinks red.

OR

You hear the radio sounds a short low-pitched tone to indicate the selected channel does not support emergency and rejects to launch emergency mode.

The display shows **No emergency**, if the selected channel does not support emergency.

When you receive the dispatcher's acknowledgment, the display shows **Ack received**.

You hear four tones, the alarm ends, and the radio exits the Emergency Alarm mode.

OR

If no acknowledgement is received, the display shows **No acknowledge**.

The alarm ends and the radio exits the Emergency Alarm mode.

□ Emergency Operation

Sending an Emergency Alarm

This feature allows you to send an Emergency Alarm to another radio without any audio or visual indicators.

Procedure:

1 Press the preprogrammed **Emergency** button. The display shows no changes, the LED does not light up, and you hear no tones.

The silent emergency state continues until you: Press and hold the preprogrammed **Emergency** button for about a second to exit the Silent Emergency Alarm mode.

OR

Press and release the **PTT** button to exit the Silent Emergency Alarm mode and enter regular dispatch or Emergency Call mode.



□ Tactical Public Safety(TPS)

Using TPS Normal Transmission

TPS enabled the users of a group to identify a transmission starts and ends clearly by displaying the caller's name or ID on the radio display.

Procedure:

1 At TPS Zone Channel

Press **PTT** button to transmit.

Talk clearly into the microphone.

Release PTT button to listen.

OR

Receive and listen to call, the radio displays the caller's name or ID.

□ Tactical Public Safety(TPS)

Using TPS Emergency Transmission

Emergency Beacon – During Emergency if the TPS radio user pushes the Emergency button, the radio sounds a Beacon at the maximum volume of the radio at radio's internal speaker and it is not adjustable. This beacon goes to silent when user presses the PTT button for voice transmission.

Emergency Call De-Key Sidetone – The radio sounds an alert tone to remind radio user that the Emergency Mode is still active after user releases the PTT button for an Emergency call transmission. The volume of loudness depends on the maximum tone at your radio profile.

Procedure:

- 1 Press the **Emergency** button to enter **Emergency Mode**. *You hear Emergency Beacon.*
- 2 Press PTT button to make Emergency Call. Release to listen. You hear Emergency Call De-Key Sidetone. After a short pause, you hear Emergency Beacon.
- 3 Long press **Emergency** button to exit **Emergency** mode and cancel Emergency Beacon.

□ 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 failsoft operation and automatically switches to its fail-soft channel.

Procedure:

- 1 During fail-soft operation, your radio transmits and receives in conventional operation on a predetermined frequency.
- You hear a medium-pitched tone every 10 seconds and the display shows Fail-soft.

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

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.



■ Mission Critical Wireless - Bluetooth® -

Turning the Bluetooth On

Note: The use of this feature requires the "Full Feature" expansion board together with the Bluetooth Software.

This feature allows your radio to extend its functionality by connecting to external proprietary Motorola Accessories.

The default setting for Bluetooth-enabled radio is Bluetooth ON.

Note: Your radio must be preprogrammed to allow you to use this feature.

Procedure:

[Preprogrammed Button]

1 Press the preprogrammed button to turn the Bluetooth on. You hear a short, medium-pitched tone. The display shows momentary Bluetooth on, and ♣ appears to indicate Bluetooth is on.
OR

The display shows **Bluetooth on failed** to indicate Bluetooth has failed to launch.

OR

[Menu]

- 1 < or > to BT.
- 2 Press the Menu Select button directly below BT to access the Bluetooth feature screen.
- $3 \sim \text{Or} \sim \text{to Status}$.
- 4 Press the Menu Select button directly below On. The display shows momentary Status on, and ≱ appears to indicate Bluetooth is on. OR

The display shows **Bluetooth on failed** to indicate Bluetooth has failed to launch.

5 Press the **Menu Select** button directly below **Exit** to return to the Home screen.

□ 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.

□ 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 PrfI 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.

OR

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

The radio returns to the Home screen.

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

Controlling the Display Backlight

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

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

Note: The backlight setting also affects the Menu Select buttons, the Menu Navigation buttons and the keypad backlighting accordingly.

Procedure:

1 Press the preprogrammed **Light/Flip** button to toggle the backlight on or off.

OR

Press any key of the keypad, the **Menu Select** or **Menu** Navigation buttons, or any programmable radio controls or buttons to turn the backlight on.

Note: The backlight remains on for a preprogrammed time before it automatically turns off completely or returns to the minimum backlight level.

NEXT >

☐ 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.

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 timer resets. 3 Press the **PTT** button to re-transmit.

The time-out timer restarts and the LED lights up solid red.

□ Setting the Time and Date

You can set the time and date for your radio.

Settings:

- The default time setting is a 12-hour clock.
 The display shows 12:00AM.
- The AM/PM selection is not available for the 24-hour clock setting.
- The default setting for the domestic date shows MDY.

Note: Check with your dealer or system administrator for additional programmable settings for this feature.

Procedure:

- 1 < or > to Clck.
- 2 Press the Menu Select button directly below Clck. The display shows the current setting of the radio.
- 3 Press the Menu Select button directly below Edit. The first item blinks.

4 Of to change the selected item.

OR

< or > one or more times to move to an item you wish to change.

∧ or
 ✓ to change the selected item.

OR

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

5 Press the Menu Select button directly below Ok once you have finished to save your changes and return to the Home screen.

OR

Press the **Menu Select** button directly below **Cncl** to discard all changes and return to the Home screen.

Press \spadesuit at any time to return to the Home screen without saving your changes.

Note: If a call arrives while the radio is in the clock-setting menu, the radio exits clock setting and displays the call information. Any changes made before the call is NOT saved.

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.



□ IMPRES™ Battery Annunciator

This feature displays the current capacity and charges cycles of your battery when a IMPRES Battery is powering your radio.

This feature must be enabled in your radio to see the information.

The information shown are:

- Rated Capacity Percentage of current battery capacity.
- Remaining Capacity Remaining power of the battery in mAh.
- Estimated Charges Number of charges cycles the battery has gone through.

To access battery info screen:

Procedure:

- 1 < or > to Batt.
- 2 Press the **Menu Select** button directly below **Batt**. *The display shows the details of the battery.*

Press the **Menu Select** button directly below **Exit** to return to the previous screen.

OR

Press to return to the Home screen.