

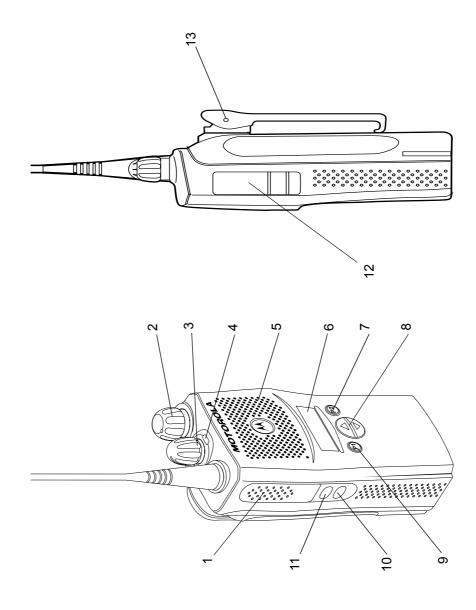
MOTOROLA intelligence everywhere^{**}

Commercial Series Radio CP160

User Guide

6866550D05-O

Issue: December 2003



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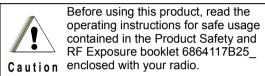
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English

RADIO OVERVIEW

This user guide covers the operation of the CP160 Portable Radios.



ATTENTION!

This radio is restricted to occupational use only to satisfy ICNIRP RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet (Motorola Publication part number 6864117B25_) to ensure compliance with RF energy exposure limits.

OPERATION AND CONTROL FUNCTIONS

Radio Controls

The numbers below refer to the illustrations on the inside front cover.

1. Push-to-talk (PTT)

Press and hold down this button to talk; release it to listen.

 On-Off / Volume Knob Used to turn the radio on or off, and to adjust the radio's volume.

3. Channel Selector Knob

Used to switch the radio to different channels.

4. LED Indicators

Indicate radio status:

Green: Solid during power up routine; off after successful power up; flashing when scanning. **Red:** Solid - transmitting; Flashing when transmitting - low battery: Flashing - channel is busy receiving. **Yellow:** Solid when radio is in monitor mode,or is sending a selective call or call alert; Flashing - receiving a selective call or call alert.

5. Microphone/Speaker

Hold the microphone 2.5 to 5 cm (1-2 inches) from your mouth, and speak clearly into it.

6. LCD Display

An 8 character single line display with up to 9 radio status icons.

- 7. Front Button P2 🕑
- 8. Menu Scroll Buttons 🖎 💌
- 9. Front Button P1 🕑
- 10. Side Button 2
- 11. Side Button 1
- 12. Accessory Connector Connects remote microphones, remote earphones and other accessories. Replace dust cap when not in use.
- 13. Belt Clip



3

RADIO OVERVIEW

Programmable Buttons

Your radio has four programmable buttons. Your dealer can program these buttons as shortcuts to various radio features.

Check with your dealer for a complete list of functions your radio supports. Programmable buttons include:

- Side Buttons (S1 and S2)
- Front Buttons ((P) and (P2))

Some buttons can access up to two features, depending on the type of button press:

- short press—quickly pressing and releasing the programmable buttons
- long press—pressing and holding the programmable buttons for a minimum of 2.5 seconds
- hold down—pressing and holding down the programmable buttons while checking status or making adjustments

The following table is a summary of programmable radio features and corresponding page references.

In the "Button" column, have your dealer record the name of the programmable button next to the feature that has been programmed to it.

Also, where appropriate, have your dealer indicate whether the button press requires a short press, a long press, or needs to be held down.

RADIO OVERVIEW



Feature	Indicator	Short Press	Long Press	Hold Down	Page	Button
Battery Indicator	8888	_	_	Checks the battery charge status.	9	
Menu Mode	_	button enters Menu Mode and selects menu options. Once in Menu Mode, P button is automaticall re-assigned to exit Menu Mode. [†]		_	11	രു
Volume Set	_	_	_	Sounds a tone for adjusting the radio's volume level.	18	
Home Revert Memory Channel (1&2)	_	Allows instant access to the home channel.	_	_	19	
Store Memory Channel (1&2)	_		Stores current channel to the home channel.	_	19	
Monitor	Д	A long press initiates Monitor. A short press cancels Monitor.		Monitors the selected channel for any activity.	21	

RADIO OVERVIEW

[†] This function is activated by EITHER a short OR a long press, but not both.

5

RADIO OVERVIEW

Feature	Indicator	Short Press	Long Press	Hold Down	Page	Button
Voice Operated Transmission (VOX)	_	Toggle VOX on and off.†		_	21	
Keypad Lock/ Unlock	Ø		Toggle keypad between locked and unlocked.		22	
Radio Call		Directly access radio	o call menu.†	_	23	
Repeater/ Talkaround	≁	Toggles between using a repeater or transmitting directly to another radio.†		_	25	
Scan/Nuisance Channel Delete	Z	Starts or stops the Scan operation.	Deletes a nuisance channel while scanning.	_	27	
Edit Scan List	_	Add, delete, or prior	Add, delete, or prioritize channels.†		29	
Phone	0	Directly access Pho	Directly access Phone mode. [†]		33	
Escalert	_	Toggle escalert on and off. [†]		—	38	
Squelch	—	Toggle squelch level between tight and normal squelch. [†]		_	41	
Power Level	LH	Toggle transmit pow High and Low powe			41	

[†] This function is activated by EITHER a short OR a long press, but not both.



Feature	Indicator	Short Press	Long Press	Hold Down	Page	Button
Option Board	Q	Toggle the option board on and off.†		_	42	
Lights	—	Toggle keypad and display backlights on and off. [†]		_	42	

[†] This function is activated by EITHER a short OR a long press, but not both.

RADIO OVERVIEW

Indicator Tones High pitched tone 🗌 Low pitched tone

RADIO OVERVIEW

Self Test Pass Tone
Self Test Fail Tone
Positive Indicator Tone
Negative Indicator Ton
Good Key Tone
Bad Key Tone

Some programmable buttons use tones to indicate one of two modes:

Programmable Buttons	Positive Indicator Tone	Negative Indicator Tone
Scan	Start	Stop
Power Level	High	Low
Squelch	Tight	Normal
Repeater/ Talkaround	Does not use repeater	Uses repeater
VOX	Enabled	Disabled
Silent Monitor/ Open Squelch	_	Enabled
Home Revert Memory Channel (1&2)	_	Enabled
Store Memory Channel (1&2)	_	Stored
Menu Mode 🖻	—	Accessed
Radio Call	—	Enabled
Scan List Edit	—	Enabled
Phone Mode	—	Enabled
Option Board	Enabled	Disabled
Escalert	Enabled	Disabled



Battery Charge Status

You can check battery charge status if your dealer has preprogrammed one of the programmable buttons. Hold down the preprogrammed **Battery Indicator** button. The charge status is shown on the display.

Battery Level	Display
Full	
Good	
Fair	
Low	
Very Low	8888

LED Indicator

The LED shows radio status as follows:

LED	State	Indication
Radio Call		
Red	Solid	Radio transmitting.
Red	Flashing	Receiving.
Red	Flashing	Channel busy.
Scan		
Green	Flashing	Radio is scanning.
Call Aler	ł	
Yellow	Flashing	Receiving a Call Alert
Yellow	Solid	Sending a Call Alert
Selective Call		
Yellow	Flashing	Receiving a Selective Call
Yellow	Solid	Sending a Selective Call
Monitor/0	Open Squelo	h
Yellow	Solid	Radio in monitor mode.
Low Battery Level		
Red	Flashing	Flashing when transmitting.

RADIO OVERVIEW

English

LCD DISPLAY AND ICONS



Displays radio Status, Addresses or Channel, on one line of 8 characters. The top line of the display shows radio status icons, explained in the table below:

Symbol	Name and Description	
Ď	Option Board Indicator Indicates that an option board is activated in the radio.	
Signal Strength Indicator The more bars, the stronger the being received by your radio.		
LH	Power Level Indicator "L" lights when your radio is configured to transmit in Low Power. "H" lights when your radio is configured to transmit in High Power.	
Д	Monitor Indicator The selected channel is being monitored.	

Symbol	Name and Description
Z	Scan Indicator Indicates that the scan feature is activated.
Ζ.	Priority Scan Indicator Indicates that the scan feature is activated. The dot is flashing during priority scan mode when scan has landed on a Priority 1 channel. The dot is steady during priority scan mode when scan has landed on a Priority 2 channel.
0	Phone Indicator Phone mode is selected.
•	Call Received Indicator A Selective Call or Call Alert has been received.
→	Talkaround Indicator You are transmitting directly to another radio, not via a repeater.
Ø	Keypad Lock The keypad has been locked.

Note: At extremely low temperatures, you may experience a slight delay in displaying new information. This is normal and does not affect the function of your radio.



RADIO OVERVIEW

MENU BUTTONS

Menu Button

If preprogrammed by your dealer, the two front buttons (^(P) and ^(P)) can be used, in conjunction with other programmble features, to access and select menu options (^(P)); and exit menu mode (^(P)). The ^(P) button can be preprogrammed by your dealer to either a short or long press to access the Menu Mode.

Exit the Menu

While in Menu Mode, the ^(P) button is automatically assigned to completely exit the Menu Mode by a long press, or by a series of short presses to exit from a sub-level of the menu hierarchy.

The radio also exits the menu mode if there have been no inputs via the navigation buttons for the default "Inactivity Time" or after a selection has been made.

Once you have exited Menu Mode, the 🕑 and 🕲 buttons return to normal programmable condition.

Menu Scroll Buttons



Used to scroll while in Menu Mode. Refer to the menu navigation chart for menu selectable features.

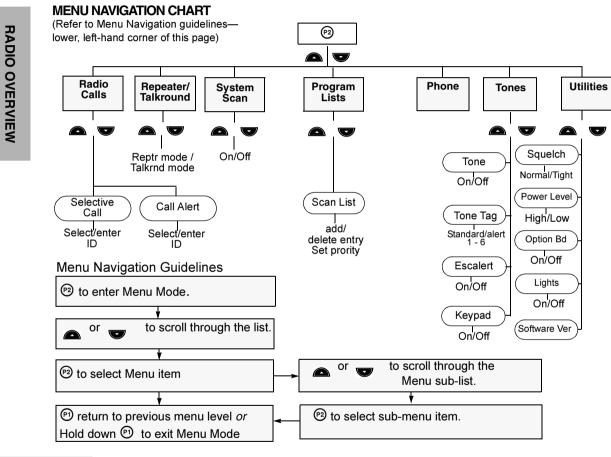
Navigate the Menu

 \bigcirc or \bigcirc to scroll through the menu options. If you scroll past the last option, the selection wraps around and starts again.

When you reach the required option, a short press of the 🕲 button selects that option and enters the sub-menu.

 \bigtriangleup or \bigtriangledown to scroll through the sub-menu options. Select the option with a short press of the P button.





English

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GETTING STARTED

BATTERY INFORMATION

Charging Your Battery

This radio is powered by a either a nickel-metal hydride (NiMH), or a lithium-ion (Li-lon) rechargeable battery. Charge the battery before use to ensure optimum capacity and performance. The battery was designed specifically to be used with a Motorola charger. Charging in non-Motorola equipment may lead to battery damage and void the battery warranty.

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

The battery should be at about 25°C (77°F) (room temperature), whenever possible. Charging a cold battery (below 10°C [50°F]) may result in leakage of electrolyte and ultimately in failure of the battery. Charging a hot battery (above 35°C [95°F]) results in reduced discharge capacity, affecting the performance of the radio. Motorola rapid-rate battery chargers contain a temperature-sensing circuit to ensure that batteries are charged within the temperature limits stated above.

If a battery is new, or its charge level is very low, you will need to charge it before you can use it. When the battery level is low and the radio is in transmit mode you will see the LED indicator flash red. Upon release of the PTT button, you will hear an alert tone.

Note: Batteries are shipped uncharged from the factory. Always charge a new battery 14 to 16 hours before initial use, regardless of the status indicated by the charger.

GETTING STARTED

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Desktop Rapid Charger

To Charge the Battery

1 Turn the radio off.

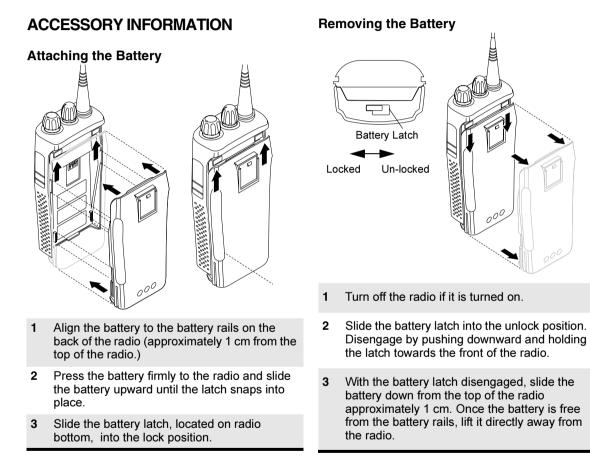
GETTING STARTED

- 2 Place the battery, with or without the radio, in the charger pocket.
 - The charger LED indicates the charging progress.

LED color	Status
No LED Indication	Battery inserted incorrectly or battery not detected.
Single Green Flash	Successful charger power-up.
Flashing Red ^a	Battery unchargeable or not making proper contact.
Red	Battery is charging.
Flashing Yellow	Battery in charger but waiting to be charged. The battery temperature may be too hot or too cold. The voltage may be lower than the predetermined threshold level for charging.
Flashing Green ^b	Battery 90% (or more) charged.
Green	Battery fully charged.

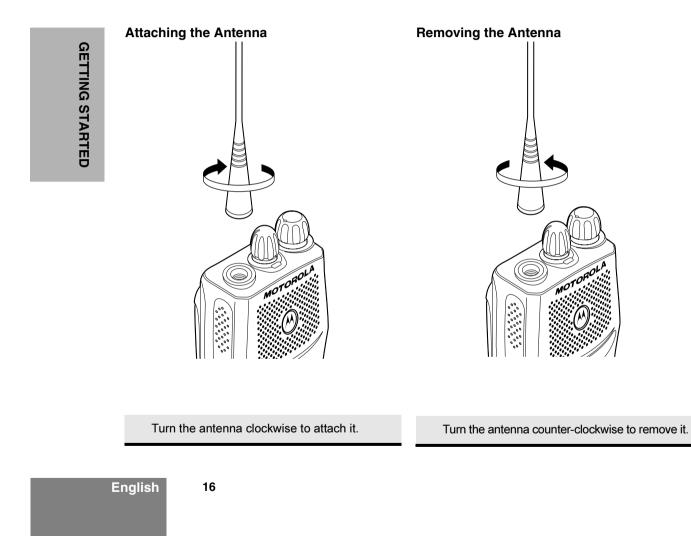
- a Remove the battery from the charger and use a pencil eraser to clean the three metal contacts on the back of the battery. Replace the battery in the charger. If the LED indicator continues to flash red, consult your dealer.
- b A standard battery may require 90 minutes to charge to 90% capacity.

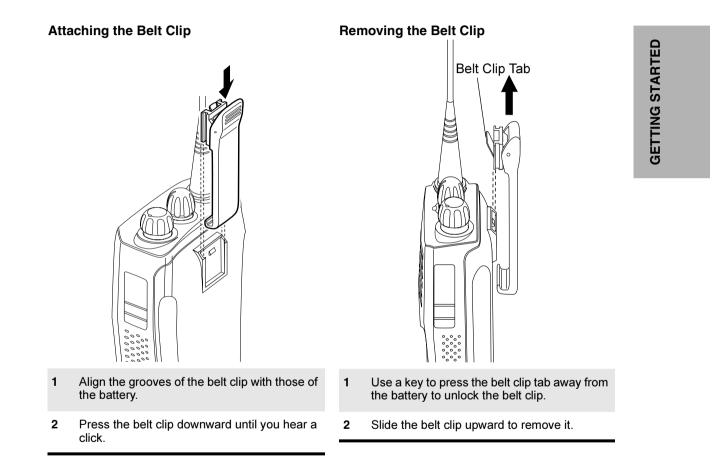
English





English





TURNING THE RADIO ON OR OFF MOTOROLA MOTOROLA Â OFF ON

Turn the **On/Off**/

counter-clockwise

and both the display

and LED indicators

turn off.

Turn the **On/Off/Volume** Control knob clockwise. If Volume Control knob power-up is successful, you will hear the Self-Test until you hear a click Pass Tone (and see the display icons light momentarily and the LED flash green.

GETTING STARTED

If the radio fails to power up, you will hear the Self Test Fail Tone

The radio will need to be returned for reprogramming.

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BADIO ON MESSAGE

At power up the radio may display a message customised by your dealer, e.g.:



After this text has been displayed, the radio performs a self test routine. During the routine the Green LED lights. On completion of a successful self test the radio produces the Self-Test pass Tone, the Green LED indicator goes out and the display shows the channel that was in use at power down, typically:



This may be a number or an alias and will be the current channel.

ADJUSTING THE VOLUME

Turn the **On/Off/Volume Control** knob clockwise to increase the volume, or counterclockwise to decrease the volume.

-or- use the pre-programmed **Volume Set** button

- Hold down the Volume Set button; you will 1 hear a continuous tone.
- Turn the **On/Off/Volume Control** knob to the 2 desired volume level.
- 3 Release the Volume Set button.

SELECTING A RADIO CHANNEL

Your radio offers 32 channels.

Note: Due to government regulations, some channels may not be programmed. Ask your dealer for more information.

To select a channel, turn the **Channel Selector** knob clockwise or counterclockwise until you reach the desired channel.

Using Home Revert Memory Channels (1&2)

Two of the programmable buttons may be preprogrammed by your dealer as Memory Channel buttons, allowing you quick access to frequently used channels. A press of the button will take you to the assigned channel.

HOME REVERT MEMORY CHANNEL (1 & 2)

The Home Revert feature allows you to instantly access up to two of your favorite channels at the touch of a button.

Press the preprogrammed Home Revert Memory Channel 1 button or Home Revert Memory Channel 2 button.

STORE MEMORY CHANNEL (1 & 2)

The Store Memory Channel (1 & 2) feature allows you to store a channel for the Home Revert Memory Channel feature.

Use the **Channel Selector** knob to select the desired channel. Press the preprogrammed **Store Memory Channel 1** button or **Store Memory Channel 2** button to store that channel

GETTING STARTED

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RECEIVING A CALL

- 1 Turn your radio on.
- 2 Adjust the radio's volume.

3 Select the desired channel.

- 4 Listen for voice activity. The LED indicator flashes red while your radio is receiving.
- 5 To respond, hold the radio vertically 2.5 to 5 cm (1 to 2 inches) from your mouth. Press the **PTT** to talk; release it to listen
- **Note:** The system may have a limited call time and the call may be terminated automatically if this call time is exceeded.

SENDING A CALL

- 1 Turn your radio on.
- 2 Select the desired channel.
- 3 Monitor for traffic (using the pre-programmed Monitor button) before transmitting to ensure that you do not 'talk over' someone who is already transmitting.
- Hold the radio vertically 2.5 to 5 cm
 (1 to 2 inches) from your mouth. Press the
 PTT to talk; release it to listen.
- Note: Your radio may be configured for 'Transmit Inhibit' under certain conditions (e.g. when the channel is in use by others) in which case, the channel busy tone will sound when you press the PTT or call button to indicate that transmission is inhibited.



MONITORING

It is important to monitor traffic before transmitting to ensure that you do not "talk over" someone who is already transmitting.

- 1 Press and hold the preprogrammed Monitor button to access channel traffic.
- 2 Once channel traffic has cleared, proceed with your call by pressing the **PTT** button.
- **3** A long press of the preprogrammed **Monitor** button places the radio in Permanent Monitor mode.
 - You hear a high-pitched tone.
- 4 A short press of the **Monitor** button cancels Permanent Monitor mode and returns the radio to normal operation.

VOX OPERATION

When hands-free operation is desired, your radio can be activated by voice alone using the VOX feature when you speak through an accessory that is connected to your radio.

Connecting a VOX Headset

- **1** Turn off your radio.
- 2 Connect the VOX accessory to your radio and turn the radio on.
- **3** To enable or disable VOX operation, press the preprogrammed **VOX** button.
 - Note: Pressing PTT disables VOX.

–or–

Select a channel that has been programmed for VOX by your dealer to enable VOX.

- Note: You do not need to press a preprogrammed VOX button.
- Note: Pressing the PTT button disables VOX.
- 4 Select a channel that has **not** been preprogrammed for VOX by your dealer to disable VOX.

GETTING STARTED

GETTING STARTED

ENABLE/DISABLE HEADSET SIDETONE

Your dealer can program your radio to hear your voice through the headset during transmit.

VOX Headset

- 1 Turn off your radio.
- 2 Connect the VOX accessory to your radio.
- **3** Turn the radio on. During transmit, the sidetone will be enabled, if programmed in the radio.
- 4 To disable the headset sidetone, turn off your radio and turn the radio on again.

Non-VOX Headset with In-Line PTT

1 Turn off your radio.

22

- 2 Connect the non-VOX accessory to your radio.
- **3** Press and hold the In-line PTT on your headset.
- 4 Turn the radio on and release the PTT once the radio has completed start-up.
- **5** To disable the headset sidetone, turn off your radio and turn the radio on again.

English

KEYPAD LOCK/UNLOCK

To lock or unlock the keypad, long press the preprogrammed **Keypad Lock/Unlock** button.

Note: The **Note:** The **Note:** The **Note:** In the keypad is locked.

RADIO CALLS

RECEIVING A SELECTIVE CALL

When you receive a selective call:

- The display shows) and the preprogrammed name or ID of the calling radio.
- The LED indicator flashes yellow, if programmed by your dealer/programmer.
- You hear two high-pitched tones.
- 1 To acknowledge the call, press and release the **PTT** button.
- 2 Press and hold the **PTT** button to talk; release to listen.

SENDING A SELECTIVE CALL

You can send a Selective Call to a particular radio or to a group of radios, as programmed by your dealer. Press the preprogrammed **Radio Call** button and proceed to step 4.

– or –

- 6 or v to locate the desired ID in the Radio Call List.
- 7 Press the PTT button to send the call.
- 8 Press and hold the **PTT** button to talk; release to listen.
- When the call is completed,
 Image: Provide the second secon

RADIO CALLS

English

RECEIVING A CALL ALERT PAGE

When you receive a Call Alert page:

- The display shows) and the preprogrammed name or ID of the calling radio.
- The LED indicator flashes yellow, if programmed by your dealer/programmer.
- You hear four high-pitched tones.

To acknowledge the page, press and release the **PTT** button; to cancel the page, press any other key.

SENDING A CALL ALERT PAGE

You can alert another person by sending a Call Alert page.

Press the preprogrammed **Radio Call** button and proceed to step 4.

– or –

- 6 or v to locate the desired ID in the Radio Call List.
- 7 Press the **PTT** button to send the page.
- 8 When the page is completed,P until you exit menu mode.

RADIO CALLS



REPEATER OR TALKAROUND MODE

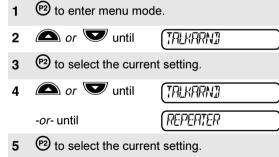
Talkaround Mode enables you to communicate with another radio when either:

- your radio is out of the repeater's range but within communicating distance of another radio.
- Note: The |→| symbol appears on the display when Talkaround Mode is selected.

To Select either Repeater Mode or Talkaround Mode

Press the preprogrammed **Repeater/Talkaround** button to toggle between Repeater Mode and Talkaround Mode.





RADIO CALLS

RADIO CALLS

Notes:



SCAN

Your radio is equipped with the Scan feature, which allows you to monitor multiple channels for voice activity. The radio will stop on a channel when it detects activity on it.

Scan lists are assigned per channel, by your dealer/ programmer. Your radio automatically switches to a channel, within that scan list, when it detects activity. You can edit these lists through your radio's menu.

- The LED indicator blinks green during scan mode; it stops blinking when the radio switches to an active channel.
- The ∠ symbol appears on the display while in scan mode.

There are two types of Scan available in your radio:

- System Scan
- Auto Scan

START SYSTEM SCAN

Press the preprogrammed **Scan** button to start scan.

– or –

4

5

6

1 Select a channel that contains a Scan list.

The display shows the current scan status.

(SYS SEAN

(sern on

SEAN

(SMS

2 🕲 to enter menu mode.

n v until

1 to select the current setting.

3 A or vuntil

to select

27

English

SCAN

STOP SYSTEM SCAN

Press the preprogrammed **Scan** button to stop System Scan.

– or –

SCAN

2 ▲ or ♥ until 5Y5 5EAN 3 ❷ to select 5Y5 5EAN

The display shows the current scan status.

- 4 🛆 or 🔍 until 🛛 🖾
 - 5 🖻 to select the current setting.
 - The Z symbol disappears from the display.
- **Note:** Your dealer/programmer can preprogram your radio when exiting System Scan to automatically revert to the last scan channel that had activity on it or to automatically revert to the channel where scan was initiated.

START AUTO SCAN

Auto Scan automatically starts scanning once a channel with Auto Scan enabled is selected. Select a channel that has been preprogrammed for Auto Scan by your dealer/programmer.

STOP AUTO SCAN

Select a channel that has not been preprogrammed for Auto Scan by your dealer/programmer.

The Z symbol disappears from the display.

TALKBACK

The Talkback feature allows you to respond to a transmission while scanning. If transmission is detected on a channel while scanning, the radio will stop on that channel for a default period of time after activity has ceased. This is referred to as "hangtime". During this hangtime you may respond by pressing the **PTT** button.

Note: The LED scan indicator stops blinking while the radio is in hangtime. If the **PTT** button is not pressed after the preprogrammed hangtime, the radio returns to scanning channels.

English

DELETE A NUISANCE CHANNEL

Note: Your dealer/programmer must preprogram a button to access this feature.

If a channel continually generates unwanted calls or noise (a "nuisance" channel), you can temporarily remove it from the scan list:

- 1 While the radio is on the Nuisance Channel, press the preprogrammed **Nuisance Channel Delete** button until you hear a tone.
- 2 Release the **Nuisance Channel Delete** button. The nuisance channel is deleted.
 - Note: You cannot temporarily delete the channel that has been pre-prgrammed by your dealer/programmer as your designated scan channel, a priority channel, or the last remaining channel in the scan list.

Restore Channels to the Scan List

1 Power off the radio. Once the radio is powered on again, the deleted nuisance channels are restored to the scan list.

- 1 Press the preprogrammed **Scan** button to stop the scan.
- 2 Press the preprogrammed **Scan** button again to start scanning again. The Deleted Nuisance Channels are restored to the scan list.

– or –

 Select a channel that has not been preprogrammed for scan by your dealer / programmer to stop Scan. Once you return to the original channel, the deleted nuisance channels are restored to the scan list.

EDIT A SCAN LIST

Your radio can support up to 16 Scan lists. Each Scan list can contain up to 16 channels. The same channel can be included in several Scan lists, and the same Scan list can be assigned to several channels. Scan lists are assigned per channel, by your dealer/programmer. When you edit a Scan list, you can either add, delete, or prioritize channels.

Note: Your radio cannot receive calls while you are editing a Scan list.

– or –

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English

SCAN

ADD OR DELETE CHANNELS

- 1 Select a channel that contains a Scan list you want to edit.
- 2 1 to enter menu mode.
- 3 ▲ or ▼ until
 PR05 LST

 4 ☺ to select
 PR05 LST
- 5 a or vuntil

Note: One Scan list per channel is available.

- 6
 \$0\$ to select
 $\overbrace{SERN LST}$

 7
 \frown or \bigtriangledown until
 $\overbrace{RIII ITEM}$

 or until \overbrace{IELETE}
- 8 🖻 to select the current setting.
- 9 or vuntil you see the channel you want to add or delete.
- 10 🖻 to confirm your selection.
- 11 If you added a channel,

30



If you delete a channel,

- you see:
- 12 🕑 to confirm the deletion.

	you see:	IELETER
13	to return to	(AII ITEM
	– or –	TELETE
14	🔊 until vou exit menu mode	

English

SCAN

PRIORITIZE A CHANNEL IN A SCAN LIST

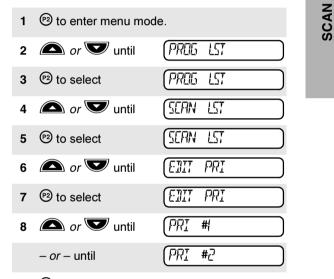
You may want to check the activity on one or two channels more frequently than others. You can do this by prioritizing them:

Priority Channel	Scanning Sequence
None specified	Ch1➡Ch2➡Ch3➡ Ch4➡…Ch1
Channel 2 (Priority 1)	Ch 2 ➡Ch1➡Ch 2 ➡Ch3➡ Ch 2 ➡Ch4➡Ch 2 ➡…Ch1
Channel 2 (Priority 1) and Channel 8 (Priority 2)	Ch 2 ➡Ch1➡Ch 8 ➡Ch3➡ Ch 2 ➡Ch4➡Ch 8 ➡…Ch1

Note: If you are receiving on a non-priority channel and traffic becomes active on a priority channel, your radio will automatically switch to that priority channel and indicate the activity with a short tone.

Set Priority Channels

Note: You cannot assign the same priority to two different channels.



9 P2 to select the desired priority level.

You see the current priority channel.

10	<i>or v</i> until you want to prioritize.	see the channel you
	 <i>or</i> – until to select the current channel the radio is on. 	(SELECTEI)
	 <i>or</i> – until to de-prioritize the current channel the radio is on. 	(IISABLEI)
11	to prioritize that cha	annel.
	you see:	(SAVEI)
12	to return to	EIII PRI
13	🕑 until you exit menu	mode.



SCAN

PHONE

Your radio allows you to place and receive telephone calls through a repeater (depending on phone line availability).

• (1) appears on the display when you are in Phone mode.

ACCESS THE REPEATER

Your dealer/programmer can preprogram your radio in one of two ways to enter your access/de-access code to the repeater.

Immediate Auto – your radio will transmit the access/deaccess code automatically upon entering phone mode or disconnecting a phone call. You will hear a series of tones, and see your access/ deaccess code on the display, indicating that an access/deaccess code is being sent automatically.

Delayed Auto – your radio will transmit the access code upon a **PTT** button press. The de-access code is sent automatically when you exit phone mode.

RECEIVE A PHONE CALL

When a phone call is received, a ringing tone sounds, alerting you to answer the phone call. Press the preprogrammed **Phone** button and skip to step 6.

– or –

- 1 Select a channel that has been programmed for telephone.
- 2 🖻 to enter menu mode.

3 A or Vuntil	PHONE
4 P to select	PHENE

Note: The **()** appears on the display.

- 5 Press and hold the PTT button to talk. Hold the radio in a vertical position with the microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth. Release the PTT button when the other party wants to talk, both parties will need to speak in turn.
- 6 Disconnect the phone call when the conversation is completed.

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PHONE

DISCONNECT A PHONE CALL

- 1 To disconnect a phone call if your radio has Immediate Auto or Delayed Auto programmed, exit Phone Mode.
- 2 Press the preprogrammed **Phone** button.

Press and hold (P) to disconnect the call.

Note: ① disappears from the display.

MAKE A PHONE CALL

Note: Only the first 8 digits of the phone number will be displayed on your radio's display.

Press the preprogrammed **Phone** button and skip to step 6.

– or –

English

PHONE

- 1 Select a channel that has been programmed for telephone.
- 2 🖻 to enter menu mode.

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5 When you hear a dial tone:

or to select a number from the phone list.

Note: To redial the last number dialed, press and release the **PTT** button immediately after the access code is sent. The radio sends the last number dialled.

- 6 Press and release the **PTT** button, if required for your radio.
- 7 When your party answers, press and hold the PTT button to talk. Hold the radio in a vertical position with the microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth. Release the PTT button when the other party wants to talk, both parties will need to speak in turn.
- 8 Disconnect the phone call when the conversation is completed.

TONE PREFERENCES

You can use the radio's menu to access useradjustable settings to customize the tones on your radio.

1	🕲 to enter menu mode.	
2	or 💟 until	(TONES
3	to select	(TONES
4	or 🔽 until voi	u see the feature you

- 4 (want to change (see the table on below).
- 5 (2) to select the feature. You see the feature's current setting.
- 6 or voto see a list of available settings.
- 7 🖻 to select the desired setting.
- 8 🕑 until you exit the menu mode.

TONE PREFERENCES

TONE PREFERENCES

Tone Settings			
Feature	What it Does	Settings	
TONE	Turns all alert tones on or off.	on Off	
KPI TONE	Turns the keypad tones on or off.	on Off	
tone tag	Assigns a specific tone when receiving a specific type of radio call.	stanjarj Alert I-5	
escalert	Increases the volume of the alarm tones when a radio call is not answered.	ON OFF	

English

TONES ON/OFF

You can program your radio to enable or disable all alert tones.

1 🕑 to enter Menu mo	🖻 to enter Menu mode.	
2 🛆 or 🛡 until	TONES	
3 🕲 to select	(TEINES	
4 🛆 or 🛡 until	(TEINE)	
5 🕲 to select	(TEINE	
6 🛆 or 🛡 until	(EIN)	
- or - until	OFF	
7 🖻 to select the desir	ed setting.	

KEYPAD ON/OFF TONES

You can program your radio to enable or disable all keypad tones.

Note: Tones for the programmable buttons (P), (P), and Side Buttons 1 and 2 can not be disabled.

1	🖻 to enter Menu mode.	
2	or 🔽 until	TONES
3	℗ to select	TEINES
4	or 🔽 until	(KPI TEINE
5	℗ to select	(KPI TEINE
6	or 🔽 until	EN
	– or – until	
7	to select the desired	ed setting.

TONE PREFERENCES

CALL TONE TAGGING

You can program your radio to sound a particular alert tone when receiving Selective Call or Call Alert (call tone tagging).

Note: Seven alert tones are available to select from in the list.

1 🕲 to enter menu mode.

TONE PREFERENCES

- 2 ▲ or ♥ until TENES 3 ⑫ to select TENES
- 4 a or vuntil TENE TRG
- 5 🕑 to select (TONE THE

6 or 🔽 until CALL ALT

or – until

- or until

8 or vuntil you see and hear the tone you want to use for this type of call.

9 2 to select the desired setting.

you see: TENE SET 10 1 to return to TENE TRE

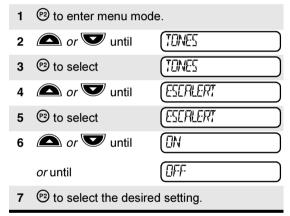
11 D until you exit the menu mode.

ESCALERT

You can program your radio to increase the volume of the alarm tones when a radio call is not answered.

Press the preprogrammed **Escalert** button and proceed to step 5.

- or -



English

USER SETTINGS

You can use the radio's menu to access useradjustable settings to customize some of your radio features.

1	to enter menu mod	le.
2	or 💟 until	
3	P2 to select	
4	or vuntil you want to change (see the second	
	^	

- 5 (P) to select the feature. You see the feature's current setting.
- 6 or **v** for available settings.
- 7 🖻 to select the desired setting.

USER SETTINGS

USER
SETTIN
IGS

Utilities Features

Feature	What it Does	Settings
SQLIELEH	Changes the squelch of the radio to tight or normal.	tight Normal
PWR U/L	Changes the power level of the radio to high or low.	HIGH LOW
opt Bri	Enables or disables an option board.	ON OFF
LIGHT	Enables or disables the radio's keypad and display back- light.	ON OFF
Software	Displays the radio's software version number.	XXXXXXX

English

SET SQUELCH LEVEL

Use this feature to filter out (unwanted) calls and/or background noise. However, tightening squelch could cause calls from remote locations to be filtered out as well. In this case, normal squelch may be more desirable.

Press the preprogrammed **Squelch** button to toggle between tight and normal squelch.

– or –

1	to enter menu mod	de.
2	nr 🔍 until	
3	to select	
4	or 🛡 until	SOLIELEH
5	to select	SOLIELEH
6	or 🛡 until	NORMAL
	– or – until	(TIGHT
7	to select the current setting.	

SET POWER LEVEL

Each channel in your radio has a predefined transmit power level that can be changed.

- *High power* (**H**) allows you to reach a radio that is farther away.
- Low power (L) to conserve the battery.
- **Note:** The <u>L</u> or <u>H</u> symbol appears on the display when High/Low Power Level is selected.

To set the power level, press the preprogrammed **Power Level** button to toggle between low and high power.

 or - or -

 1
 1 (a) to enter menu mode.

 2
 or - v until

 3
 1 (a) to select

 4
 or - v until

 5
 1 (a) to select

 6
 or - v until

 until - or - until

 7
 1 (a) to select the current setting.

USER SETTINGS

OPTION BOARD ON/OFF

Use this feature to enable or disable an option board.

• The Symbol appears on the display when the option board feature is On.

Press the preprogrammed **Option Board** button to toggle the option board on or off. - or -

1	to enter menu mod	e.
2	or 🔽 until	
3	to select	
4	or 🔽 until	(OPT BRI
5	to select	OPT BRI
6	or 🛡 until	
	– or – until	(IFF:
7	10 to select the current	it setting.

SET THE LIGHTS

Use this feature to enable or disable the radio's keypad and display backlight.

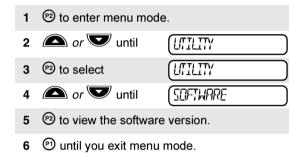
1	🖻 to enter menu mo	de.
2	🛆 or 🛡 until	
3	℗ to select	LITILITY
4	or 🔽 until	LIGHT
5	to select	LIGHT
6	🛆 or 🛡 until	EN
	– or –until	
7	to select the current setting.	



USER SETTINGS

DISPLAY THE SOFTWARE VERSION

Use this feature to view the current software version of your radio.



USER SETTINGS

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USER SETTINGS



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