



PR400[™] Commercial Series Two-Way Radio User Guide Manuel de l'utilisateur de la radio bidirectionnelle

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SAFETY

PRODUCT SAFETY AND RF EXPOSURE COMPLIANCE



Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet enclosed with your radio.

ATTENTION!

This radio is restricted to occupational use only to satisfy FCC 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 enclosed with your radio (Motorola Publication part number 68P81095C98) to ensure compliance with RF energy exposure limits.

For a list of Motorola-approved antennas, batteries, and other accessories, visit the following web site which lists approved accessories: http://www.motorola.com/cgiss/ index.shtml. Notes:

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English

INTRODUCTION

CONVENTIONAL RADIO SYSTEMS

Conventional radio systems typically refer to unit-to-unit communications through a single channel. Conventional systems also allow radio users to extend communication coverage by relaying their messages through a repeater. To ensure coordinated use by multiple users, each radio user must monitor the channel or repeater before transmitting to verify that the system is not currently busy.

PR400[™] RADIO FEATURES

Radio Wide Features

- 64 Channels
- 8-Character Alphanumeric Display
- 4 Programmable Feature Buttons
- 2 Memory Channels
- Telephone Interconnect
- User-programmable Phone, Scan, and TPL/DPL Lists

- Option Board Expandability
- Busy Channel Lockout
- High/Low Power Settings
- Transmit Time-Out Timer
- Monitor and Sticky Permanent Monitor
- System Scan with 2 Priority Levels and Revert Scan

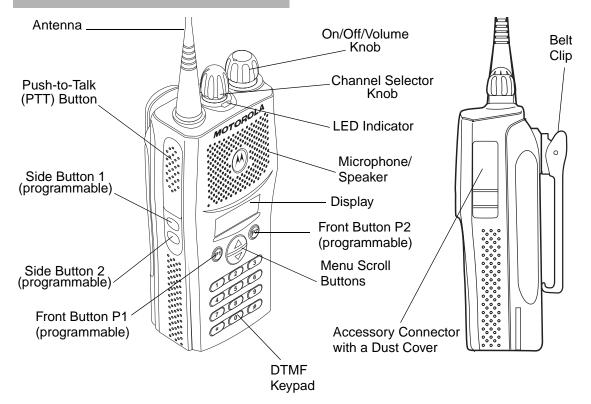
Signaling Features

- MDC 1200 Signaling
 - Selective Radio PTT ID Encode/ Inhibit Decode Decode
- Quik-Call II Signaling
 - Call Alert
- Radio Call List
- Encode/Decode -
- Call Tone Tagging
- Selective Call Encode/Decode
- DTMF Signaling
 - DTMF PTT ID DTMF Encode Selective Call
 - DTMF Call Alert Encode Encode

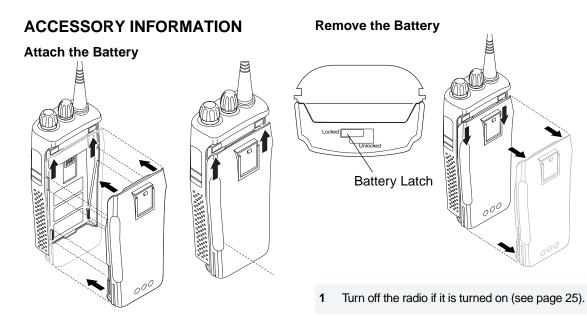
Notes:

English

RADIO OVERVIEW



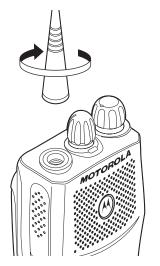
RADIO OVERVIEW



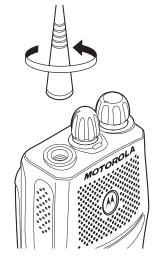
- 1 Align the battery to the battery rails on the back of the radio (approximately 1/2 in. from the top of the radio.)
- 2 Press the battery firmly to the radio and slide the battery upward until the latch snaps into place.
- 3 Slide the battery latch, located on radio bottom, into the lock position.

- 2 Slide the battery latch into the unlock position. Disengage by pushing downward and holding the latch towards the front of the radio.
- With the battery latch disengaged, slide the battery down from the top of the radio about 1/2 in. Once the battery is free from the battery rails, lift it directly away from the radio.

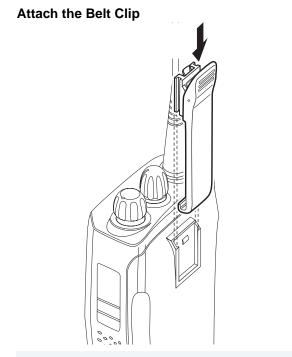
Remove the Antenna





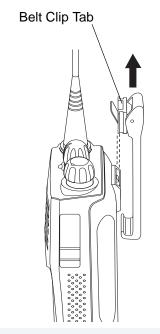


Turn the antenna counter-clockwise to remove it.



- 1 Align the grooves of the belt clip with those of the battery.
- 2 Press the belt clip downward until you hear a click.

Remove the Belt Clip



- 1 Use a key to press the belt clip tab away from the battery to unlock the belt clip.
- 2 Slide the belt clip upward to remove it.

BATTERY INFORMATION

Charging Your Battery

This radio is powered by a nickel-cadmium (NICd), 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 77°F (25°C) (room temperature), whenever possible. Charging a cold battery (below 50° F [10°C]) may result in leakage of electrolyte and ultimately in failure of the battery. Charging a hot battery (above 95°F [35°C]) results in reduced discharge capacity, affecting the performance of the radio. Motorola rapid-rate battery chargers contain a temperaturesensing 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.
- **Note:** Do not use the wall charger and desktop charger at the same time when charging.

WALL CHARGER

Note: Do not use the wall charger if using lithium-ion (Li-Ion) or nickel-metal hydride (NiMH) batteries. The wall charger is for a nickel-cadmium (NiCd) battery only.

To Charge the Battery:

- 1 Turn the radio off.
- 2 Lift the dust cover to expose the audio accessory connector.
- 3 Insert the charging adapter into the accessory connector.
- 4 Plug the charging adapter into an electrical outlet.
 - The LED on the charging adapter lights Red while the charger is plugged into an electrical outlet.
 - **Note:** Do not leave the charger connected to the radio when it is not connected to the electrical outlet.

- **5** Unplug the charger from the electrical outlet and radio after 10 hours.
 - **Note:** After the initial charge of 14 to 16 hours, do not charge the battery more than 10 hours.

DESKTOP CHARGERS

Rapid Charger

- 1 Turn the radio off.
- 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.
Steady Red	Battery is in Rapid charge mode.

LED color	Status
Flashing Yellow	Battery in charger but wait- ing to be charged. The bat- tery temperature may be too hot or too cold. The voltage may be lower than the pre- determined threshold level for charging.
Flashing Green ^b	Battery 90% (or more) charged. Trickle charging.
Green	Battery fully charged.

- a. Remove the battery from the charger and use a pencil eraser to clean the three metal contacts at the back of the battery. Place the battery back into the charger. If the LED indicator continues to flash red, replace the battery.
- b. A standard battery may require 90 minutes to charge to 90% capacity. Even though new batteries might prematurely indicate a full charge (steady green LED), charge the battery for 14 to 16 hours prior to initial use for best performance.

A list of Motorola authorized batteries and battery chargers appears on page 65. The listed chargers will charge only Motorola authorized batteries. Other batteries may not charge.

Slow Charger

- 1 Turn the radio off.
- 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.
Steady Red	Battery is in over night charge mode. The battery is fully charged after 11 hours.

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	XX XX XX
Good	RA RA RA
Fair	
Low	
Very Low	8888

LED INDICATOR

Indicates power-up, transmit, receive, scan monitor status, channel busy, Call Alert[™] receive/transmit, Selective Call receive/ transmit, and battery status.

LED State/Color	Indication
Radio Call	
Red	Transmitting
Flashing Red	Receiving
Flashing Red	Channel Busy
Scan	
Flashing Green	Scanning for activity
Call Alert	
Flashing Yellow	Indicates receiving a Call Alert
Yellow	Indicates sending a Call Alert
Selective Call	
Flashing Yellow	Indicates receiving a Selective Call
Yellow	Indicates sending a Selective Call
Monitor/Open Squelch	
Yellow	While monitoring
Low Battery	
Flashing Red when transmitting	Low battery level

DISPLAY

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The top display row displays menu and radio status information:

Symbol	Indication
نیا Signal Strength	The more bars, the stronger the signal being received by your radio.
LH Power Level	Low Power " L " or High Power " H " is activated.
口 Monitor	The selected channel is being monitored
) Phone	Phone mode is selected.
Z Scan	Indicates that the Scan feature has been activated.

Symbol	Indication
	Indicates scan has stopped on an active Priority 1 channel.
Z. Priority 2 Scan (• steady)	Indicates scan has stopped on an active Priority 2 channel.
 → Talkaround	Bypass the repeater and talk directly to another radio.
Call Received	A Selective Call or Call Alert has been received.
Ρ	Not Used
X Keypad Lock	The keypad has been locked.
Ď	An Option Board has been activated.
Option Board	

DTMF KEYPAD



The keypad is used for:

- Dialing a phone number.
- Entering information when programming phone lists.
- Accessing a repeater.
- Each key can generate several different characters. For example, to enter the character "C," press the (2 abc) button three times. (Refer to the following table.)

Entering Characters Using the DTMF Keypad

Number of Times Button is Pressed					
Button	1	2	3	4	5
0	0				
	1	/	١		
2 abc	А	В	С	2	
3 def	D	Е	F	3	
4 ghi	G	Н	Ι	4	
5 jkl	J	К	L	5	
(6mno)	М	Ν	0	6	
7pqrs	Р	Q	R	S	7
8 tuv	Т	U	V	8	
9wxyz	W	Х	Y	Z	9
*	*	~	^		
#	#	+	-	_	

INDICATOR TONES

High pitched tone 🗌 Low pitched tone

Self Test Pass Tone
Self Test Fail Tone
Positive Indicator Tone
Negative Indicator Tone
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
Speed Dial		Enabled
Phone Mode	—	Enabled
Option Board	Enabled	Disabled
Escalert	Enabled	Disabled

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:

- The two side buttons (S1 and S2)
- The two 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 table on page 21 summarizes the programmable features available and shows

the page number where the feature is explained.

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

The dealer can use the abbreviations (S1, S2, P1, or P2) shown in the radio illustration on page 9.

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

Programmable Features

Feature	Indicator	Short Press	Long Press	Hold Down	Page	Button
Battery Indicator	XXXX	_	_	Checks the battery charge status.	16	
Menu Mode	_	button enters Me selects menu option Mode, ^(P) button is a re-assigned to exit M	s. Once in Menu automaticall	_	24	P 2
Volume Set	_	_	_	Sounds a tone for adjusting the radio's volume level.	25	
Monitor	Д	A long press initiates Monitor. A short press cancels Monitor.		Monitors the selected channel for any activity.	26	
Repeater/ Talkaround	→	Toggles between using a repeater or transmitting directly to another radio.†		_	27	
Home Revert Memory Channel (1&2)	_	Allows instant access to the home channel.	_	_	28	

[†] 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
Store Memory Channel (1&2)	_		Stores current channel to the home channel.	_	28	
Voice Operated Transmission (VOX)	_	Toggle VOX on and	off.†	_	28	
Keypad Lock/ Unlock	Ø		Toggle keypad between locked and unlocked.		29	
Radio Call	—	Directly access radi	o call menu.†	_	31,32	
Scan/Nuisance Channel Delete	z	Starts or stops the Scan operation.	Deletes a nuisance channel while scanning.	_	35,36	
Edit Scan List	—	Add, delete, or prior	Add, delete, or prioritize channels. [†]		37	
Phone	٥	Directly access Phone mode. [†]			41,42	
Speed Dial	٥	Quickly access speed dial phone list.*			43	
Escalert	—	Toggle escalert on and off. [†]		_	52	
Squelch	—	Toggle squelch level between tight and normal squelch. [†]			57	

Programmable Features (Continued)

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

Programmable Features (Continued)

Feature	Indicator	Short Press	Long Press	Hold Down	Page	Button
Power Level	LH	Toggle transmit power level between High and Low power.†		_	57	
Option Board	Ď	Toggle the option board on and off. [†]		—	58	
Lights	_	Toggle keypad and display backlights on and off. [†]		_	58	

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

English

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 🖻 button can be preprogrammed by your dealer to either a short or long press to access the Menu Mode.

Menu Scroll Buttons



Used to scroll while in Menu Mode.

Refer to the menu navigation chart for menu selectable features at the back of this manual.

Navigate the Menu

or view 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.

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

Exit the Menu

While in Menu Mode, the (9) 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.

GETTING STARTED

TURN THE RADIO ON OR OFF





ON	OFF
Rotate the On/Off/	Rotate the On/Off/
Volume knob	Volume knob counter-
clockwise. If power-up	clockwise until you hear a
is successful, you will	click and both the display
hear the Self-Test	and LED indicator turn off.
Pass Tone	
([]) and see	
the display icons light	
momentarily and the	
LED flash green.	
If the radio fails to	
power up, you will	
hear the Self Test Fail	
Tone ().	
The radio will need to	
be returned for re-	
programming.	

ADJUST THE VOLUME

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

–or–

- **Note:** Your dealer can preprogram one of the programmable buttons to Volume Set.
- 1 Hold down the **Volume Set** button (see page 13).
 - You will hear a continuous tone.
- 2 Turn the **On/Off/Volume** knob to the desired volume level.
- 3 Release the Volume Set button.

SELECT A RADIO CHANNEL

Your radio offers 64 channels.

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

RECEIVE

- 1 Turn your radio on.
- 2 Adjust the radio's volume (see page 25).
- **3** Switch to the desired channel.
 - Make sure the **PTT** button is released.
- 4 Listen for voice activity.
 - The LED indicator flashes red while your radio is receiving.
- 5 To respond, hold the radio vertically 1 to 2 inches (2.5 to 5cm) from your mouth. Press the **PTT** button to talk; release it to listen.

MONITOR

It is important to monitor for 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.
 - If no activity is present, you will hear "white noise."

2 Once channel traffic has cleared, proceed with your call by pressing the **PTT** button.

Permanent Monitor

- 1 A long press of the preprogrammed **Monitor** button places the radio in Permanent Monitor mode.
 - You hear a good key tone.
- 2 A short press of the **Monitor** button cancels Permanent Monitor mode and returns the radio to normal operation.

TRANSMIT

- **1** Turn your radio on.
- 2 Use the **Channel Selector** knob to select the desired channel.
 - Note: Monitor for traffic before transmitting to ensure that you do not "talk over" someone who is already transmitting
- 3 Hold the radio vertically 1 to 2 inches (2.5 to 5cm) from your mouth. Press the **PTT** button to talk.
 - The LED indicator lights steady red while the call is being sent.
- 4 Release the **PTT** to listen.

REPEATER OR TALKAROUND |→| MODE

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

• The repeater is not operating.

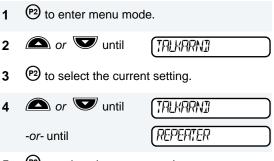
-or-

 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 (see page 13) to toggle between Repeater Mode and Talkaround Mode.

– or –



5 🕑 to select the current setting.

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 (see page 13).

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 (see page 13).

VOX OPERATION

When hands-free operation is desired, your radio can transmit 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.

Enable or Disable VOX

To enable or disable VOX operation, press the preprogrammed **VOX** button (see page 22).

Note: Pressing the **PTT** button disables VOX. -or -

You can select channels to enable or disable VOX as preprogrammed by your dealer/ programmer.

- 1 Select a channel that has been preprogrammed by your dealer to enable VOX.
 - Note: Pressing the PTT button disables VOX.
- 2 Select a channel that has not been preprogrammed by your dealer to disable VOX.

ENABLE/DISABLE HEADSET SIDETONE

Your dealer can program your radio so you can hear your voice through a headset while you speak.

VOX Headset

- 1 To enable the headset sidetone, turn off your radio.
- 2 Connect the VOX headset accessory to your radio.
- 3 Turn the radio on. During transmit, you will hear your voice through the headset while you speak.
- 4 To disable the headset sidetone, turn off your radio and turn the radio on again.

Non-VOX Headset with In-Line PTT

- **1** To enable the headset sidetone, turn off your radio.
- 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. During transmit, you will hear your voice through the headset while you speak.
- **5** To disable the headset sidetone, turn off your radio and turn the radio on again.

KEYPAD LOCK/UNLOCK 🚫

To lock or unlock the keypad, long press the preprogrammed **Keypad Lock/Unlock** button (see page 22).

Note: The **\overline{O}** symbol appears on the display when the keypad is locked.

PROGRAM PL/DPL CODES

Use this feature to edit the Private-Line/Digital Private-Line codes for a selected channel.

1 🖻 to enter menu mode.



- 5 🖻 to select the current setting.
- 6 or v to scroll through the standard TPL frequencies or DPL codes.

- or -

Enter a non-standard or standard 4-digit TPL frequency or the 3-digit octal (numbers 0-7 only) code for DPL via the DTMF microphone keypad.

- 7 🕑 to confirm selection.
- 8 🕑 until you exit menu mode.

RADIO CALLS

SELECTIVE RADIO INHIBIT

Your radio is equipped with a security feature that can temporarily render the unit inoperative when an inhibit signal is sent from the base station.

This feature is commonly used to disable radios:

- In case of theft
- For system control reasons

When your radio has been rendered inoperative by the base station,all controls will be inoperative except for the **On/Off** button and the display shows INHIBIT.

RECEIVE A SELECTIVE CALL

When you receive a selective call:

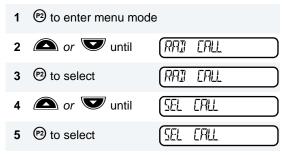
- The display shows ♪ and the preprogrammed name or ID of the calling radio.
- The LED indicator flashes yellow, if programmed by your dealer/programmer.
- You hear two high-pitched tones.
- 1 To acknowledge the call, press and release the **PTT** button.
- 2 Press and hold the **PTT** button to talk;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

SEND 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 (see page 14), and proceed to step 4.

– or –



6 or v to locate the desired ID in the Radio Call List.

- or -

Enter a valid DTMF digit (0-9) to move to that location in the list.

- 7 Press the **PTT** button to send the call.
- 8 Press and hold the **PTT** button to talk; release to listen.
- 9 When the call is completed,(P) until you exit menu mode.

RECEIVE 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.

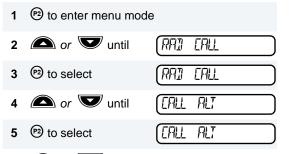
To acknowledge the page, press and release the **PTT** button; to cancel the page, press any other key.

SEND A CALL ALERT PAGE

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

Press the preprogrammed **Radio Call** button (see page 14) and proceed to step 4.

- or -



or v to locate the desired ID in the 6 Radio Call List.

- or -

Enter a valid DTMF digit (0-9) to move to that location in the list.

- 7 Press the **PTT** button to send the page.
- 8 When the page is completed, 🕑 until you exit menu mode.

REPEATER ACCESS

Use this feature to send DTMF tones to a repeater.

- Press and hold the PTT button and enter your 1 access code using the DTMF keypad.
- 2 Press and release the required DTMF buttons.
- 3 Release the **PTT** button.

Notes:

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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 (see page 37).

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

There are two types of Scan available in your radio:

- System Scan
- Auto Scan

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.

START SYSTEM SCAN Z

Press the preprogrammed **Scan** button to start scan (see page 22).

– or –

- 1 Select a channel that contains a Scan list.
- 2 🕑 to enter menu mode.



The display shows the current scan status.

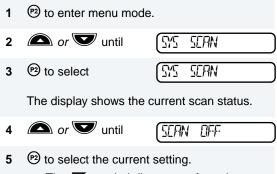


10 select the current setting. 6

STOP SYSTEM SCAN

Press the preprogrammed Scan button to stop System Scan (see page 14).

- or -



- The \mathbf{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 Z

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 \mathbf{Z} symbol disappears from the display.

SCAN

DELETE A NUISANCE CHANNEL

Note: Your dealer/programmer must preprogram a button to access this feature (see page 22).

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 preprogrammed 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. – or –

- 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 –

1 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.

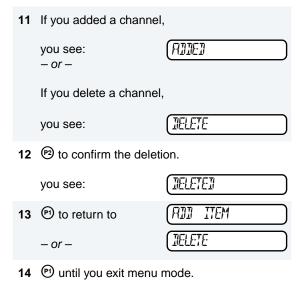
ADD OR DELETE CHANNELS

- 1 Select a channel that contains a Scan list you want to edit.
- 2 🖻 to enter menu mode.

3	or 🛡 until	(PRDG LST
4	to select	(PRDG LST
5	or 🛡 until	(SEAN LST
	Note: One Scan list p	er channel is available.
6	to select	(SEAN LST
7	or 🔽 until	(AIII ITEM
	– or – until	TELETE

- 8 🕲 to select the current setting.
- 9 or vuntil you see the channel you want to add or delete.

10 (P) to confirm your selection.



PRIORITIZE A CHANNEL IN A SCAN LIST

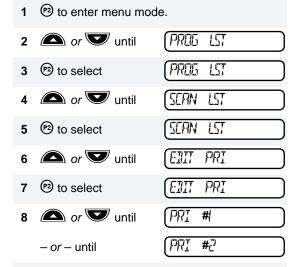
You may want to check the activity on one or two channels more frequently than others. You can do this by prioritizing them:

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 🕑 to select the desired priority level.

You see the current priority channel.

- **10 (C)** or **(C)** until you see the channel you want to prioritize.
 - or until to select the current channel the radio is on.



– or – until to de-prioritize the current channel the



- radio is on.
- **11** ⁽²⁾ to prioritize that channel.

you see:



12 D to return to

-		
(007	
1 1- 11 1	μ_{W}	
L T T T I	1111	

13 🕑 until you exit menu mode.

PHONE

Your radio allows you to place and receive telephone calls through a repeater (depending on phone line availability). You can edit the phone list through your radio's menu (see page 44).

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

ACCESS THE REPEATER

Your dealer/programmer can preprogram your radio in one of three 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 deaccess code is sent automatically when you exit phone mode.

Manual - Enter your access/deaccess code using the DTMF microphone keypad.

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 (see page 14), and skip to step 6.

– or –

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

 4 12 to select
 PHENE
 - Note: The () appears on the display.
- 5 Enter your repeater access code, if necessary (see page 41).

- 6 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.
- 7 Disconnect the phone call when the conversation is completed.

DISCONNECT A PHONE CALL

1 To disconnect a phone call, do one of the following:

If your radio has **Immediate Auto** or **Delayed Auto** programmed, go to step 2.

– or –

Enter the deaccess code using the DTMF keypad and press the **PTT** button.

2 To exit Phone Mode:

Press the preprogrammed **Phone** button (see page 14).

– or –

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 (see page 19), and skip to step 6.

- or -

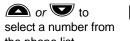
- 1 Select a channel that has been programmed for telephone.
- 2 🐵 to enter menu mode.
- 3 or 🖤 until PHENE
- 4 🖻 to select

- or -

- PHONE
- 5 Enter your repeater access code, if necessary (see page 41).
- 6 When you hear a dial tone:

Enter the phone number using the microphone keypad.

XXXXXXXX



XXXXXXXXX

the phone list.

- or -

- Press and release the preprogrammed a. Speed Dial button.
- b. Press the key (0 to 9) corresponding to the number you want to call.
- To redial the last number dialed (if Note: not using Speed Dial), press and release the PTT button immediately after the access code is sent. The radio sends the last number dialed.

- or -

If you entered your access code using the DTMF keypad, press once to access the last number dialed; then press and release the **PTT** button.

Press and release the PTT button, if required 7 for your radio.

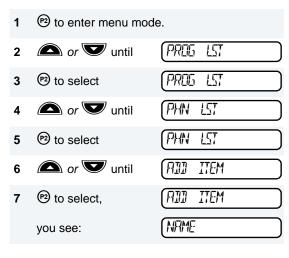
- 8 When your party answers, press and hold the **PTT** button to talk. Hold the radio in a vertical position with the microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth. Release the PTT button when the other party wants to talk, both parties will need to speak in turn.
- Disconnect the phone call when the conversa-9 tion is completed (see page 42).

EDIT THE PHONE LIST

Your radio contains a Phone list that holds up to 25 phone numbers. You can edit the Phone list in three ways through your radio's menu:

- Add an entry
- Delete an entry
- Edit an existing entry

Add an Entry



- 8 Use the DTMF keypad to enter the name (see Entering Characters Using the DTMF Keypad on page 18.)
- 9 🕑 to store the name,

you see:



- Use the DTMF keypad to enter the phone number. You can also add a Pause Indicator (press *#*) three times until the *#* character on the display changes to a "-").
- **11** ¹ to store the phone number.

you see:



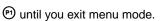
ITEM

SAVEN

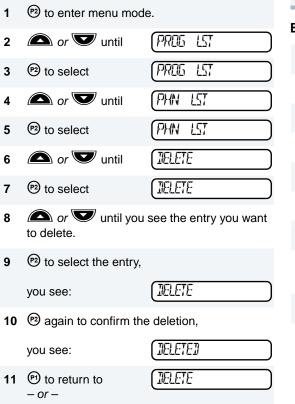
RII

- 12 or vuntil you see the location in the list where you want to store the phone number.
- 13 13 to store the phone number,

you see:

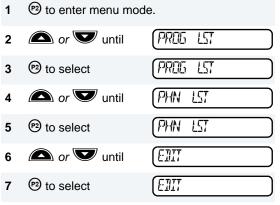


Delete an Entry



🕑 until you exit menu mode.

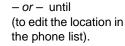
Edit an Entry



- 8 or vuntil you see the entry you want to edit.
- 9 🕑 to select the entry.



or – until
(to edit the phone number),



- 11 🖻 to confirm your selection.
- Use the DTMF keypad to edit the entry (see Entering Characters Using the DTMF Keypad on page 18.)
 - or -

NLIMBER

LDE

- or vou want to store the phone number.
- **13 13** to store the information.

you see:

SAVEI

ENIT

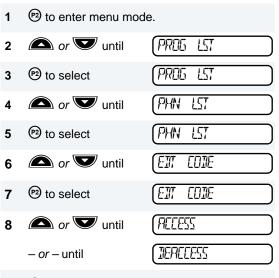
14 P to return to

– or –

log until you exit menu mode.

Edit Access/Deaccess Codes

You can edit the access/de-access codes that are used to connect or disconnect you from a repeater



- **9 (P)** to select the current setting.
- **10** Enter the number using the DTMF keypad.
- 11 🕑 to select the entry.



13 D until you exit menu mode.

Notes:

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.



3 🕑 to select

G	100	
UL	NE-7	

TONES

- 4 or vuntil you see the feature you want to change (see the table on page 50).
- 5 🖻 to select the feature. You see the feature's current setting.
- 6 \bigcirc or \bigtriangledown to see a list of available settings.
- 7 🖻 to select the desired setting.
- 8 🕑 until you exit the menu mode.

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 trig	Assigns a specific tone when receiving a specific type of radio call.	stanjarj Alert 1-6
ESERLERT	Increases the volume of the alarm tones when a radio call is not answered.	ON OFF

TONES ON/OFF

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

1	to enter Menu mod	9.	Note:		ogrammable buttons e Buttons 1 and 2 can
2	or 🖤 until	(TEINES)		not be disabled	
3	to select	TONES	1 🤅	enter Menu mo	de.
4	or 🛡 until	TONE	2 (or 💟 until	(TONES)
5	to select	TONE	3 🤅	D to select	TONES
6	or 🛡 until	(IN)	4 (or 💟 until	(KPI TONE
	- or - until		5 🤄	e to select	(KPI TEINE
7	to select the desire	d setting.	6 🏼	🛆 or 💟 until	
			_	- <i>or –</i> until	OFF.

7 🕑 to select the desired setting.

KEYPAD ON/OFF TONES

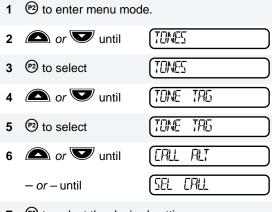
disable all keypad tones.

You can program your radio to enable or

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.



- 7 🕑 to select the desired setting.
- 8 or vuntil you see and hear the tone you want to use for this type of call.
- 9 🖻 to select the desired setting.

you see:	(TEINE SET
10 🕑 to return to	(TEINE TRG

11 🕑 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 (see page 22) and proceed to step 5.

- or -





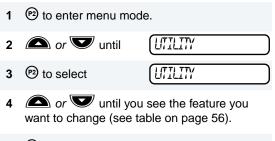
7 (P) to select the desired setting.

Notes:



USER SETTINGS

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



- to select the feature. You see the feature's 5 current setting.
- \frown or \bigtriangledown for available settings. 6
- 7 🖻 to select the desired setting.

Utilities Features

Feature	What it Does	Settings
SOLIELEH	Changes the squelch of the radio to tight or normal.	tight Normal
PWR LVL	Changes the power level of the radio to high or low.	high Low
opt Brj	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.	XX'XX'XX

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 (see page 14) to toggle between tight and normal squelch.

– or –

1	to enter menu mod	е.
2	or 🛡 until	
3	P₂ to select	
4	or 🛡 until	SOLIELEH
5	to select	SOLIELEH
6	or 🛡 until	NORMAL
	– or – until	
7	to select the current	t setting.

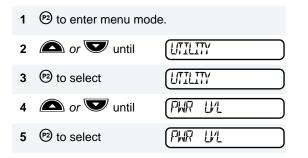
SET POWER LEVEL LH

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 L or H symbol appears on the display when High/Low Power Level is selected.

To set the power level, press the preprogrammed **Power Level** button (see page 14) to toggle between low and high power.

– or –





7 🕑 to select the current setting.

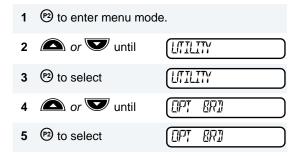
OPTION BOARD ON/OFF

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 (see page 14) to toggle the option board on or off.

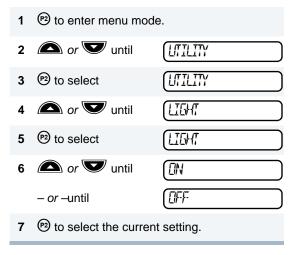
– or –



7 🕑 to select the current setting.

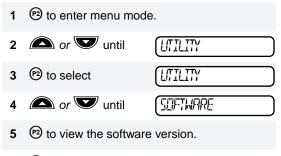
SET THE LIGHTS

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



DISPLAY THE SOFTWARE VERSION

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



6 🕑 until you exit menu mode.

Notes:

WARRANTY

LIMITED WARRANTY MOTOROLA COMMUNICATION PRODUCTS

I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

MOTOROLA INC. ("MOTOROLA") warrants the MOTOROLA manufactured Communication Products listed below ("Product") against defects in material and workmanship under normal use and service for a period of time from the date of purchase as scheduled below:

PR400 Portable Units	Two (2) Years
Product Accessories	One (1) Year

Motorola, at its option, will at no charge either repair the Product (with new or reconditioned parts), replace it (with a new or reconditioned Product), or refund the purchase price of the Product during the warranty period provided it is returned in accordance with the terms of this warranty. Replaced parts or boards are warranted for the balance of the original applicable warranty period. All replaced parts of Product shall become the property of MOTOROLA. This express limited warranty is extended by MOTOROLA to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by MOTOROLA. MOTOROLA assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of MOTOROLA. Unless made in a separate agreement between MOTOROLA and the original end user purchaser, MOTOROLA does not warrant the installation, maintenance or service of the Product.

MOTOROLA cannot be responsible in any way for any ancillary equipment not furnished by MOTOROLA which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. Because each system which may use the Product is unique, MOTOROLA disclaims liability for range, coverage, or operation of the system as a whole under this warranty.

II. GENERAL PROVISIONS:

This warranty sets forth the full extent of MOTOROLA'S responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at MOTOROLA's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES. INCLUDING WITHOUT LIMITATION. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT. FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT. TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

III. STATE LAW RIGHTS:

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL

OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION OR EXCLUSIONS MAY NOT APPLY.

This warranty gives specific legal rights, and there may be other rights which may vary from state to state.

IV. HOW TO GET WARRANTY SERVICE:

You must provide proof of purchase (bearing the date of purchase and Product item serial number) in order to receive warranty service and, also, deliver or send the Product item, transportation and insurance prepaid, to an authorized warranty service location. Warranty service will be provided by Motorola through one of its authorized warranty service locations. If you first contact the company which sold you the Product (e.g., dealer or communication service provider), it can facilitate your obtaining warranty service. You can also call Motorola at 1-800-927-2744 US/Canada.

V. WHAT THIS WARRANTY DOES NOT COVER:

- A) Defects or damage resulting from use of the Product in other than its normal and customary manner.
- B) Defects or damage from misuse, accident, water, or neglect.
- C) Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.
- Breakage or damage to antennas unless caused directly by defects in material workmanship.
- E) A Product subjected to unauthorized Product modifications, disassembles or repairs (including, without limitation, the addition to the Product of non-Motorola supplied equipment) which adversely affect performance of the Product or interfere with Motorola's normal warranty inspection and testing of the Product to verify any warranty claim.
- F) Product which has had the serial number removed or made illegible.
- G) Rechargeable batteries if:
 - any of the seals on the battery enclosure of cells are broken or show evidence of tampering.

- the damage or defect is caused by charging or using the battery in equipment or service other than the Product for which it is specified.
- H) Freight costs to the repair depot.
- A Product which, due to illegal or unauthorized alteration of the software/ firmware in the Product, does not function in accordance with MOTOROLA's published specifications or the FCC type acceptance labeling in effect for the Product at the time the Product was initially distributed from MOTOROLA.
- Scratches or other cosmetic damage to Product surfaces that does not affect the operation of the Product.
- K) Normal and customary wear and tear.

VI. PATENT AND SOFTWARE PROVISIONS:

MOTOROLA will defend, at its own expense, any suit brought against the end user purchaser to the extent that it is based on a claim that the Product or parts infringe a United States patent, and MOTOROLA will pay those costs and damages finally awarded against the end user purchaser in any such suit which are attributable to any such claim, but such defense and payments are conditioned on the following:

- A) that MOTOROLA will be notified promptly in writing by such purchaser of any notice of such claim;
- B) that MOTOROLA will have sole control of the defense of such suit and all negotiations for its settlement or compromise; and
- C) should the Product or parts become, or in MOTOROLA's opinion be likely to become, the subject of a claim of infringement of a United States patent, that such purchaser will permit MOTOROLA, at its option and expense, either to procure for such purchaser the right to continue using the Product or parts or to replace or modify the same so that it becomes non-infringing or to grant such purchaser a credit for the Product or parts as depreciated and accept its return. The depreciation will be an equal amount per year over the lifetime of the Product or parts as established by MOTOROLA.

MOTOROLA will have no liability with respect to any claim of patent infringement which is based upon the combination of the Product or parts furnished hereunder with software, apparatus or devices not furnished by MOTOROLA, nor will MOTOROLA have any liability for the use of ancillary equipment or software not furnished by MOTOROLA which is attached to or used in connection with the Product. The foregoing states the entire liability of MOTOROLA with respect to infringement of patents by the Product or any parts thereof.

Laws in the United States and other countries. preserve for MOTOROLA certain exclusive rights for copyrighted MOTOROLA software such as the exclusive rights to reproduce in copies and distribute copies of such Motorola software. MOTOROLA software may be used in only the Product in which the software was originally embodied and such software in such Product may not be replaced, copied, distributed, modified in any way, or used to produce any derivative thereof. No other use including, without limitation, alteration, modification, reproduction, distribution, or reverse engineering of such MOTOROLA software or exercise of rights in such MOTOROLA software is permitted. No license is granted by implication, estoppel or otherwise under MOTOROLA patent rights or copyrights.

VII. GOVERNING LAW:

This Warranty is governed by the laws of the State of Illinois, USA.

ACCESSORIES

Motorola offers a number of accessories to enhance the productivity of your two-way radio. Many of the available accessories are listed below.

ANTENNAS

NAD6502_R	VHF Heliflex Antenna 14cm, 146-174 MHz
HAD9742	VHF Stubby Antenna, 9cm, 146-162 MHz
HAD9743	VHF Stubby Antenna, 9cm, 162-174 MHz
NAE6522_R	UHF Heliflex Stubby Antenna 9cm, 438-470 MHz
NAE6483_R	Flexible Whip Antenna, 403-520 MHz
8505816K26	UHF Heliflex Stubby, 470-520 MHz

BATTERIES

NNTN4496_R	NiCd, 1100 mAH
NNTN4497_R	Li-lon, 1800 mAH
NNTN4851	NiMH, 1400 mAH
NNTN4852	NiMH FM, 1300 mAH
NNTN4970	Slim Li-Ion, 1600 mAH

CARRY ACCESSORIES

RLN5496	Leather DTMF Case with 2-1/2 inch Swivel (for Full-Display models)
RLN5497	Leather DTMF Case with 3 inch Swivel (for Full-Display models)
RLN5498	Leather DTMF Case with Belt Loop (for Full-Display models)
RLN5640	Leather LTD DTMF Case with Belt Loop (for Limited Display models)
RLN5641	Leather LTD DTMF Case with 2-1/2 inch Swivel (for Limited Display models)
RLN5642	Leather LTD DTMF Case with 3 inch Swivel (for Limited Display models)
RLN5383	Leather Case with Belt Loop (For Non-Display models)
RLN5384	Leather Case with 2-1/2 inch Swivel (for Non-Display models)
RLN5385	Leather Case with 3 inch Swivel (for Non-Display models)
HLN9701	Nylon Case with Belt Loop (For all models)
HLN8255	3 inch Spring Action Belt Clip
RLN5644	2 inch Spring Action Belt Clip
NTN5243	Shoulder Strap for Hard Leather Cases (attaches to D-Shaped Rings on case)
HLN6602	Universal Chest Pack

RLN4815	Universal Radio Pak
RLN4570	Break-A-Way Chest Pack
1505596Z02	Replacement Strap for HLN6602 Universal Chest Pack
4280384F89	Belt Lengthener for RLN4815 Universal Radio Pak
HLN9985	Waterproof Bag

CHARGERS

WPLN4138_R	90 Min. Rapid Desktop Charger w/ US NA Plug
EPNN7997	10 Hr. US NA 120 V Plug (plugs into radio accessory connector, used ONLY with battery NNTN4496)
WPLN4155_R	10 Hr. Desktop Charger w/US NA Plug
EPNN7994	90 Min. Rapid US NA 120 V Plug
WPLN4161_R	Multi-Unit Rapid Charger w/US NA Plug

HEADSETS

RLN5411	Ultra-Lite Behind the Head Headset
PMMN4001	Earset with Flexible Boom Microphone
HMN9013	Lightweight Headset w/o In-line PTT
RMN4016	Lightweight Headset with In-line PTT
RLN5238	Lightweight Headset with In-line PTT, NFL Style
HMN9021	Medium Weight Over the Head Dual Muff Headset
HMN9022	Medium Weight Behind the Head Dual Muff Headset
BDN6647	Medium Weight Single Speaker Headset
BDN6648	Heavy Duty Dual Muff Headset with Noise Canceling Microphone
RMN5015	Heavy Duty Dual Muff Racing Headset (requires RKN4090 Headset Adapter Cable)
RKN4090	Adapter Cable for use with RMN5015 Racing Headset
RMN4051	2-Way Hard Hat Mount, Black, Noise Reduction Rating (22db) (requires RKN4094 Adapter Cable)
RMN4054	Receive-Only Hard Hat Mount Headset with 3.5mm Right Angle Plug

RMN4055	Receive-Only Headband Style Headset with 3.5mm Right Angle Plug
RKN4094	In-Line PTT Adapter for use with headset RMN4051 only
REX4648	Replacement Foam Ear Pad and Windscreen Kit for use with headsets HMN9013 & RMN4016
7580376E34	Replacement Ear Seals for use with headsets HMN9021 & HMN9022
5080371E66	Replacement Ear Pad for use with headset BDN6647
3580371E59	Replacement Windscreen for use with headset BDN6647

SURVEILLANCE ACCESSORIES

HMN9752Earpiece with Volume Control, 1-Wire (plastic earloop) (Beige)HMN9727Earpiece without Volume Control, 1-Wire (plastic earloop) (Beige)RLN4894Earpiece without Volume Control, 1-Wire (plastic earloop) (Black)HMN9754Earpiece with Microphone & PTT Combined, 2-Wire (Beige)RLN4895Earpiece with Microphone & PTT Combined, 2-Wire (Black)		
1-Wire (plastic earloop) (Beige) RLN4894 Earpiece without Volume Control, 1-Wire (plastic earloop) (Black) HMN9754 Earpiece with Microphone & PTT Combined, 2-Wire (Beige) RLN4895 Earpiece with Microphone & PTT	HMN9752	
1-Wire (plastic earloop) (Black) HMN9754 Earpiece with Microphone & PTT Combined, 2-Wire (Beige) RLN4895 Earpiece with Microphone & PTT	HMN9727	
Combined, 2-Wire (Beige) RLN4895 Earpiece with Microphone & PTT	RLN4894	
	HMN9754	
	RLN4895	

RLN5198_P	Earpiece with Microphone & PTT Combined (Black) including Low Noise Kit, 2-Wire Surveillance Kit w/ Clear Comfortable Acoustic Tube (includes NTN8371)
RLN5317	2-Wire Comfort Earpiece w/Mic & PTT for use with HMN9754 & NTN8371 (Beige)
RLN5318	2-Wire Comfort Earpiece w/Mic & PTT for use with RLN4894 & NTN8371 (Black)
BDN6720	Flexible Ear Receiver (receive only)
HMN9036	Earbud with Microphone & PTT Combined, 2-Wire (Black)
HLN9132	Earbud Single Wire Receive Only (Black)
NTN8370	Extreme Noise Kit
NTN8371	Low Noise Kit
RLN4760	Small Custom Clear Earpiece, Right Ear
RLN4763	Small Custom Clear Earpiece, Left Ear
RLN4761	Medium Custom Clear Earpiece, Right Ear
RLN4764	Medium Custom Clear Earpiece, Left Ear
RLN4762	Large Custom Clear Earpiece, Right Ear

RLN4765	Large Custom Clear Earpiece, Left Ear
5080384F72	Replacement Noise Attenuating Plug for NTN8370
5080371E73	Replacement Ear Tip for use with low noise kit NTN8371 (Beige)
5080371E75	Replacement Ear Tip for use with low noise kit NTN8371 (Black)
7580372E11	Replacement Ear Cushion for use with earpiece BDN6720

0180358B36	Ear Holder, Medium (Clear)
0180358B37	Ear Holder, Large (Clear)

REMOTE SPEAKER MICROPHONES

HMN9030	Remote Speaker Microphone
HKN9094	Replacement Cord for HMN9030

MISCELLANEOUS

EAR MICROPHONE SYSTEMS

BDN6646	Standard 95 dB Ear Microphone with PTT Interface Module
BDN6706	Standard 95 dB Ear Microphone with VOX & PTT Interface Module
0180358B38	Ring Push-to-Talk Switch for ear microphone systems BDN6646 & BDN6706
0180300E83	Body Push-to-Talk Switch for ear microphone systems BDN6646 & BDN6706
0180300E25	Ear Guard with Adjustable Loop
0180358B32	Ear Holder, Small (Black)
0180358B33	Ear Holder, Medium (Black)
0180358B34	Ear Holder, Large (Black)
0180358B35	Ear Holder, Small (Clear)

TDN9327	Portable Radio Hanger for door panels up to 2.75 inches (slides over and hangs from the door panel in vehicle, radio belt clip required)
TDN9373	Portable Radio Hanger for door panels up to 2.75 to 3.25 inches (slides over and hangs from the door panel in vehicle, radio belt clip required)
RLN5500	Accessory Retainer Kit (for use with any audio accessory that needs to be secured to the radio due to demanding customer environments)

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Turn the Radio On or Off

- 1. Rotate the **On/Off/Volume** knob clockwise. You will hear the self-test pass tone and see the display icons light momentarily and LED indicator flash green.
- 2. Rotate the **On/Off/Volume** knob counterclockwise until you hear a click and both the display and the LED indicators turn off.

Adjust the Volume

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

Select a Radio Channel

1. turn the **Channel Selector** knob clockwise or counterclockwise until you reach the desired channel.

Receive

- 1. Turn radio on and adjust volume to the desired level.
- 2. Select desired channel.
- 3. Listen for voice acitivity. The LED indicator flashes red while your radio is receiving.

Transmit

- Hold the radio vertically 1 to 2 inches (2.5 to 5 cm) from your mouth. Press the PTT button to talk. The LED indicator lights steady red while the call is being sent.
- 2. Release PTT button to listen.

Start or Stop System Scan

- Press the preprogrammed Scan button to start scan. OR ▲ or ▼ to select a channel that contains a Scan list. From the Scan menu, select <u>SCAN</u> IN. The LED indictor blinks green during scan operation.
- 2. Press the preprogramed **Scan** button again to stop scan. OR from the Scan menu, select SCAN OFF.

Start or Stop Auto Scan

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

Delete a Nuisance Channel During Scanning

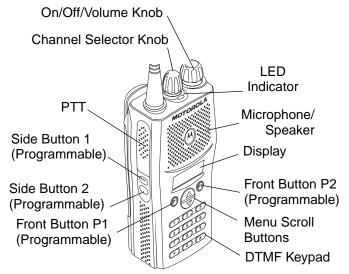
- 1. While radio is on a nuisance channel, hold down preprogrammed **Nuisance Delete** button until you hear a tone.
- 2. Release Nuisance Delete button.



MOTOROLA intelligence everywhere

PR400[™] Quick Reference Card

Record the functions for your radio's programmable buttons in the table provided below. For further information, see page 12 of this User Guide.



Button	Function	Short Press	Long Press	Hold Down	Page

Restore Channels to the Scan List

Power off the radio then turn it on. - OR - Press the preprogrammed **Scan** button to stop the scan. The Deleted Nuisance Channels are restored to the scan list. - OR - Select a channel that has **not** been preprogrammed by your dealer/ programmer to stop Scan. Once you return to the original channel, the deleted nuisance channels are restored to the scan list.

Send a Selective Call

- 1. From the Selective Call menu, select or enter desired radio ID number.
- 2. Press PTT button to send the call.
- 3. Press and hold the PTT button to speak; release to listen.

Receive a Selective Call

- 1. When a Selective Call is received, the radio displays ♪ and the name or ID of the calling radio; the LED flashes yellow and two tones are heard.
- 2. Press PTT button to acknowledge the call.
- 3. Press and hold the PTT button to speak; release to listen.

LED Indicators

LED State/Color	Indication			
Radio Call				
Red	Transmitting			
Flashing Red	Receiving			
Flashing Red	Channel Busy			
Scan				
Flashing Green	Scanning for activity			
Call Alert				
Flashing Yellow	Indicates receiving a Call Alert			
Yellow	Indicates sending a Call Alert			
Selective Call				
Flashing Yellow	Indicates receiving a Selective Call			
Yellow	Indicates sending a Selective Call			
Sticky Monitor/Open Squelch				
Yellow	While monitoring			

Audio Indicators for Programmable Buttons

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	
Speed Dial	-	Enabled	
Phone Mode	-	Enabled	
Option Board	Enabled	Disabled	
Escalert	Enabled	Disabled	

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	XXXX
Good	XXXI
Fair	ssi)
Low	×8288
Very Low	8888

Menu Navigation Chart

