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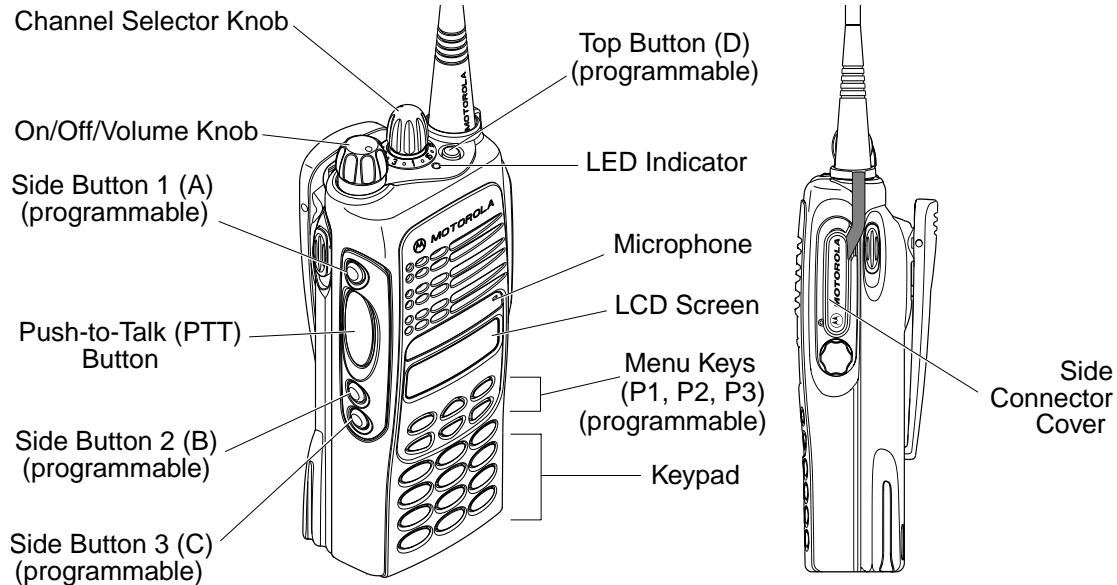
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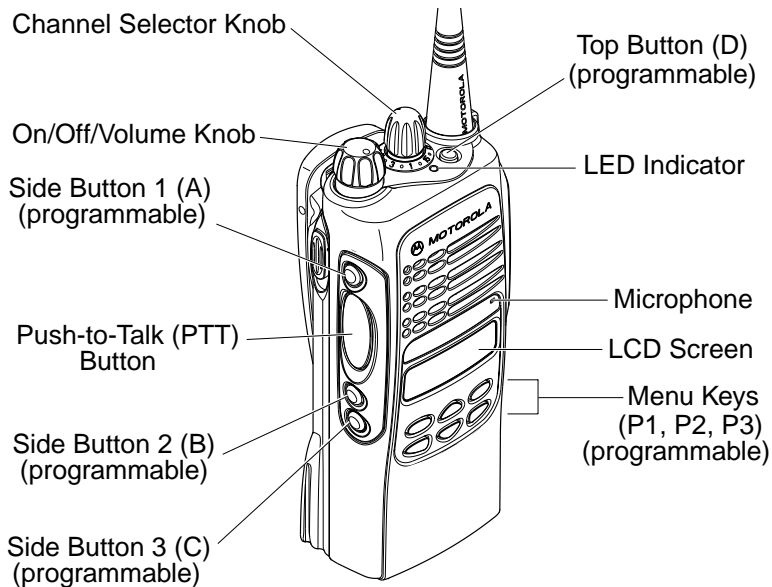
## RADIO OVERVIEW

### PARTS OF THE RADIO

#### HT1250 Full-Keypad Model



HT1250 Limited-Keypad Model



### On/Off/Volume Knob

Turns the radio on or off, and adjusts the radio's volume.

### Channel Selector Knob

Switches the radio to different channels.

### LED Indicator

Indicates status of battery, power-up, scan, and receipt of a selective call.

### Programmable Buttons

Several of your radio's buttons can be programmed by your dealer as shortcut buttons for many of the radio's features.

Check with your dealer for a complete list of functions your radio supports.

Programmable buttons include:

- the three Side Buttons (A, B, C) and the Top Button (D)
- the three lower Menu Keys (P1, P2, P3) (when the radio is not in Menu Mode)

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

- **short press**—quickly pressing and releasing the programmable buttons, or
- **long press**—pressing and holding the programmable buttons for a period of time (at least 1 1/2 seconds), or
- **hold down**—pressing and holding down the programmable buttons while checking status or making adjustments.








The table on pages 8 and 9 summarizes the programmable features available and shows the page number where the feature is explained.

In the "Button" column, have your dealer write down the programmable buttons next to the features that have been programmed to them.



Use the abbreviations (e.g., A for Side Button 1, D for Top Button, etc.) shown in the radio illustration at the front of this manual.

Also, where a choice exists, have your dealer indicate whether the button press is short press (SP) or long press (LP).

## Radio Overview

Function	Indicator	Short Press	Long Press	Hold Down	Page	Button
Emergency (Top button only)		Initiate Emergency Alert.	Cancel Emergency status.	—	25	
Monitor		Turn monitor function off.	Continually monitor selected channel.	—	—	
Volume Set	—	—	—	Sound a tone for adjusting your radio's volume level.	21	
Battery Gauge		—	—	Check the battery's charge status.	16	
Scan/Nuisance Channel Delete		Toggle scan on and off.	Delete a nuisance channel while scanning.	—	32	
Power Level		Toggle transmit power level between High and Low.†		—	28	
Keypad Lock		—	Toggle keypad between Locked and Unlocked.	—	—	
Repeater/Talkaround		Toggle between using a repeater or transmitting directly to another radio.†		—	27	
Squelch	—	Toggle squelch level between Tight and Normal.†		—	27	

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

Function	Indicator	Short Press	Long Press	Hold Down	Page	Button
Option Board (if one is installed)		Toggle between activating and deactivating the option board.†		—	—	
Phone		Access Phone Mode.†		—	35	
Speed Dial	—	Access your phone list.†		—	35	
Radio Call	—	Make a radio call.†		—	23	
Light	—	Turn on your radio backlight.†		—	—	

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

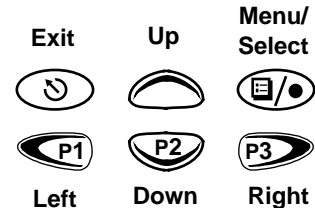
### Push-to-Talk (PTT) Button

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

### Microphone

When sending a message, hold the microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth, and speak clearly into the microphone.

### Menu Keys






### Menu/Select Key

Used to enter Menu Mode. When in Menu Mode, this key is also used to make menu selections.

### Exit Key

Used to move to the previous Menu level (short press) or to exit Menu Mode (long press).

### Up Key and Down Key

Used for scrolling when in Menu Mode. The  key can also be programmed.

### Right Key

Moves the cursor right or inserts a space when editing. This key can also be programmed.

### Left Key


Used as a backspace key when editing. This key can also be programmed.

## Keypad Keys (For Full-Keypad Radios)



These keys are used for:

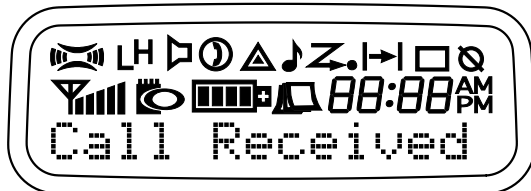
- dialing a phone number
- making a radio call
- entering information when programming radio lists

Each key can generate several different characters. For example, to enter the character “C,” press the  key three times. (Refer to the following table.)



## Entering Characters Using the Keypad







Key	Number of Times Key is Pressed										
	1	2	3	4	5	6	7	8	9	10	11
0	0	(	)	<	>						
1	1	&	%	#	*						
2 abc	A	B	C	2	a	b	c	2			
3 def	D	E	F	3	d	e	f	3			
4 ghi	G	H	I	4	g	h	i	4			
5 jkl	J	K	L	5	j	k	l	5			
6 mno	M	N	O	6	m	n	o	6			
7 pqrs	P	Q	R	S	7	p	q	r	s	7	
8 tuv	T	U	V	8	t	u	v	8			
9 wxyz	W	X	Y	Z	9	w	x	y	z	9	
*	*	/	+	-	=						
#	#	Blank Space	-	.	!	?	'	”	,	;	:







## LCD Screen





The top two screen rows display menu and radio status information:

Symbol	Indication
 <b>Companding</b>	The Companding feature is activated. When in narrow band, this feature improves audio quality.
<b>LH</b> <b>Power Level</b>	Low Power "L" or High Power "H" is activated.
 <b>Monitor</b>	The selected channel is being monitored.

Symbol	Indication
 <b>Phone</b>	Phone Mode is selected.
 <b>Emergency</b>	An Emergency Alert is being sent.
 <b>Call Received</b>	A Selective Call or Call Alert has been received.
 <b>Scan</b>	The Scan feature has been activated. Also, during Scan, indicates that there is some activity on a non-priority channel.
 <b>Priority 1 Scan</b> ( ● flashing)	During Scan, indicates that there is some activity on a <i>Priority 1</i> channel.
 <b>Priority 2 Scan</b> ( ● steady)	During Scan, indicates that there is some activity on a <i>Priority 2</i> channel.

Symbol	Indication
 <b>Talkaround</b>	You are not transmitting through a repeater.
 <b>Programming Mode</b>	A Program List is being edited.
 <b>Keypad Lock</b>	Keypad is locked.
 <b>Signal Strength</b>	The more bars, the stronger the signal being received.
 <b>Option Board</b>	Option board is activated.
 <b>Battery Level</b>	The number of bars (0–4) shown indicates the charge remaining in your battery.

Symbol	Indication
 <b>Not Currently Assigned</b>	
 <b>Clock</b>	Shows the time (12- or 24-hour).

## AUDIO INDICATORS FOR PROGRAMMABLE BUTTONS



High-Low Tone



Low-High Tone

In addition to having visual indicators, some programmable buttons use tones to indicate one of two modes:

Button	High-Low Tone	Low-High Tone
Scan	<b>Start</b> scan	<b>Stop</b> scan
Power Level	<b>Low</b> power selected	<b>High</b> power selected
Squelch (no visual indicator)	<b>Tight</b> squelch	<b>Normal</b> squelch
Option Board	Activated	Deactivated
Keypad Lock	Locked	Unlocked
Repeater/ Talkaround	Does not use repeater	Uses repeater

## GETTING STARTED

### BATTERY INFORMATION

#### Charging the Battery

If a battery is new, or its charge level is very low, you will need to charge it before you can use it.

**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.

To charge the battery:


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







LED color	Battery/Charger Status
No LED Indication	Battery inserted incorrectly.
Single Green Flash	Successful charger power-up.
Flashing Red*	Battery unchargeable or not making proper contact.
Steady Red	Battery in rapid-charge mode.
Flashing Yellow	Battery in charger, not in rapid-charge mode but waiting to be charged.
Flashing Green†	Battery 90% (or more) charged.
Steady Green	Battery fully charged.

\* Remove the battery from the charger and use a pencil eraser to clean the four metal contacts on the bottom of the battery. Place the battery back in the charger. If the LED indicator continues to flash red, replace the battery.

† A standard battery may require one hour to charge to 90%.

## Battery Charge Status

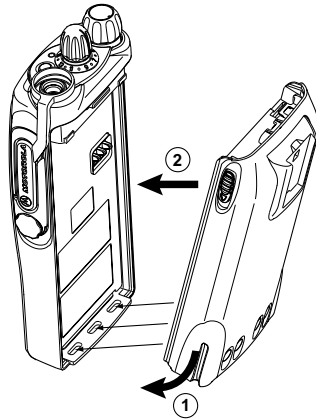
You can check battery charge status by holding down the preprogrammed **Battery Gauge** button (see page 8). The charge status is shown by the number of bars in the  status indicator symbol.

Battery Level	Status Indicator 
High	
Sufficient	 or 
Low	
Very Low	 (flashing)

Battery chargers will only charge the Motorola-authorized batteries listed below; other batteries may not charge.

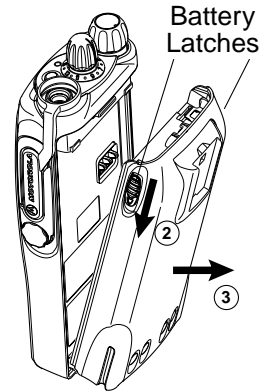
Part No.	Description
HNN9008	High-Capacity/NiMH
HNN9009	Ultra-High-Capacity/NiMH
HNN9010	Ultra-High-Capacity/Factory Mutual/NiMH
HNN9011	High-Capacity/Factory Mutual/NiCd
HNN9012	High-Capacity/NiCd
HNN9013	High-Capacity/Lithium-Ion

## Attaching the Battery



- 1 Fit the extensions at the bottom of the battery into the bottom slots on the radio.
- 2 Press the top part of the battery toward the radio until you hear a click.

## Removing the Battery

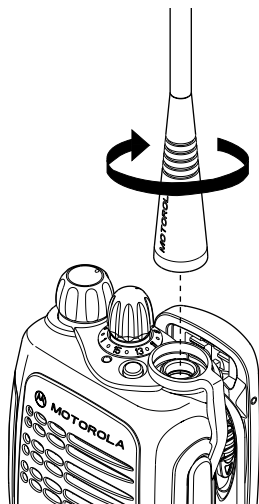


- 1 Turn off the radio (see page 20).
- 2 Slide both battery latches downward.
- 3 Pull the top part of the battery away from the radio.



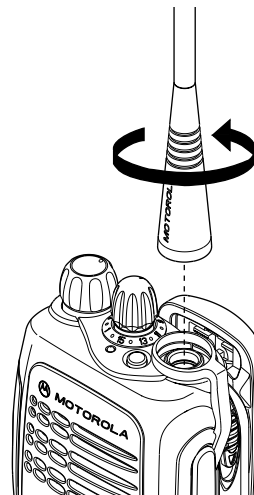
## ACCESSORY INFORMATION

### Attaching the Antenna



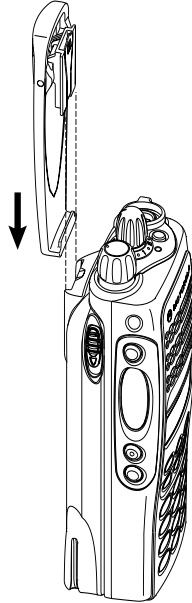
Turn the antenna clockwise to attach it.

### Removing the Antenna



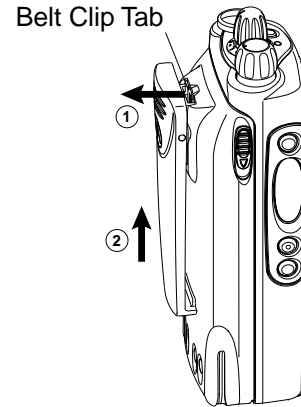
Turn the antenna counterclockwise to remove it.

## Attaching the Belt Clip



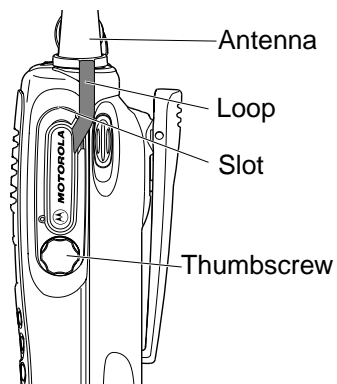
- 1 Align the grooves of the belt clip with those of the battery.
- 2 Press the belt clip downward until you hear a click.

## Removing the Belt Clip



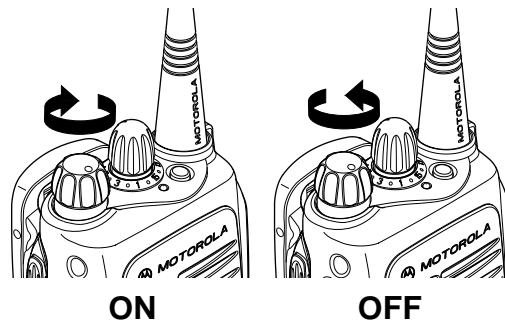
- 1 Use a key to press the belt clip tab away from the battery.
- 2 Slide the belt clip upward to remove it.

## Attaching the Side Connector Cover



- 1 Place the loop (attached to the side connector cover) over the antenna; then slide it downward until it touches the top of the radio.
- 2 Insert the tab on the top of the cover into the slot above the connector.
- 3 Position the cover over the connector and align the thumbscrew with the threaded hole in the radio.
- 4 Tighten the thumbscrew to hold the cover in place. **Do not overtighten the thumbscrew.**

## TURNING THE RADIO ON OR OFF



Turn the **On/Off/Volume Control** knob clockwise.

If power-up is successful, you will hear the Self-Test Pass Tone



and see the LED turn green.

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



Turn the **On/Off/Volume Control** knob counterclockwise until you hear a click.










## ADJUSTING THE VOLUME

- 1 Hold down the **Volume Set** or **Monitor** button (see page 8); you will hear a continuous tone.
- 2 Turn the **On-Off/Volume Control** knob to the desired volume level.
- 3 Release the **Volume Set** or **Monitor** button.

## SELECTING A ZONE

A zone is a group of up to 16 channels. To access a channel in a zone, you need to select the zone first.

To select a zone:

- 1  to enter Menu Mode.
- 2  or  until 
- 3  to select 
- 4  or  until you see the desired zone name.
- 5  to select the zone.

## SELECTING A RADIO CHANNEL

Your radio offers 128 channels (8 zones of 16 channels each).

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

To select a channel:


- 1 Select the appropriate Zone, if required (see "Selecting a Zone" on page 21).
- 2 Turn the **Channel Selector** knob clockwise or counterclockwise until you reach the desired channel, as shown on the LCD display.

## SENDING A CALL

- 1 Turn your radio on.
  - 2 Use the **Channel Selector** knob to select the desired channel.
  - 3 Hold the radio in a vertical position, press the **PTT** button, and talk at a distance of about 1 to 2 inches (2.5 to 5 cm) from the microphone.  

  - 4 Release the **PTT** button to listen.
- 

## RECEIVING A CALL











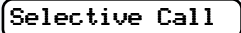


- 1 Turn your radio on.
  - 2 Adjust the radio's volume (see page 21).
  - 3 Switch to the desired channel. Hold the radio in a vertical position with its microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth.  

-


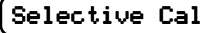

## RADIO CALLS

### MAKING A SELECTIVE CALL

You can make a selective call to a particular radio or group of radios, provided the signalling protocol supports it or when a DTMF board is installed in your radio.


To make a Selective Call:

- 1  to enter Menu Mode.
- 2  or  until 
- 3  to select 
- 4  or  until 
- 5  to select 
- 6  or  to locate the desired ID in the Radio Call List.  
 –or– (for full-keypad radios only)  
 Enter the ID number of the radio you want to call.

- 7 Press the **PTT** button to send the call.  
The radio sounds a continuous tone.
- 8 Press the **PTT** button and talk; release the **PTT** button to listen.
- 9 When finished with the call  
 to return to   
 –or–  
 Hold down  to exit Menu Mode.

### RECEIVING A SELECTIVE CALL

When you receive a selective call:




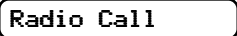

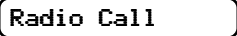








- You will hear two alert tones.
- The LED Indicator will light yellow.
- The LCD screen will display  and the pre-programmed name or ID of the calling radio.




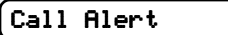

To answer the call, press the **PTT** button.

## SENDING A CALL ALERT™ PAGE


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

To send a Call Alert page:

- 1  to enter Menu Mode.
- 2  or  until 
- 3  to select 
- 4  or  until 
- 5  to select 
- 6  or  to locate the desired ID in the Radio Call List.  
 –or– (for full-keypad radios only)  
 Enter the ID number of the radio you want to page.
- 7 Press the **PTT** button to send the page.  
 You will see 

- 8 If the Call Alert page is received,  
 you will see   
 If not received,  
 you will see 
- 9  to return to   
 –or–  
 Hold down  to exit Menu Mode.

## RECEIVING A CALL ALERT PAGE

When your radio receives a Call Alert page, it continuously sounds four alert tones, and displays the  symbol with the ID of the calling radio, until you respond.










Press the **PTT** button to answer the page, or press any other key to cancel it.

**Note:** Your radio will display only the last Call Alert page received. Also, your radio will not receive any Selective Calls until you clear the page.

## RADIO CHECK

This feature allows you to determine if a radio is within range without disturbing the user of the radio. Radio Check can also be used when attempts with Selective Call and Call Alert fail. (This feature is available only if your signalling protocol supports it.)

To perform a Radio Check:

- 1  to enter Menu Mode.
- 2  or  until **Radio Call**
- 3  to select **Radio Call**
- 4  or  until **Radio Check**
- 5  to select **Radio Check**
- 6  or  to locate the desired ID in the Radio Call List.  
 –or– (for full-keypad radios only)  
 Enter the ID number of the radio you are checking.

- 7 Press the **PTT** button.

You will see

**Call In Prog**

- 8 If the Radio Check is received,

you will see

**Acknowledge**


If not received,

you will see

**No Acknowledge**

- 9  to return to


–or–

Hold down  to exit Menu Mode.


**Radio Check**

## SENDING AN EMERGENCY ALERT

If programmed by your dealer (see page 7), the orange **Top** button can send a priority Emergency Alert (see page 8) to a specific radio or dispatch center. Emergency alerts have priority over all other calls.

The  symbol will appear on the LCD screen when your radio is in the Emergency Alert state.


An Emergency Alert can be programmed to do one of the following:

- show  and sound a tone

–or–




## Radio Calls

- show  (silent Emergency)  
—or—
- activate the microphone so that all activity can be transmitted (for a predetermined amount of time).

To activate the Emergency Alert, press the **Emergency** button.

















To cancel the Emergency Alert, press and hold down the **Emergency** button.

## EDITING A RADIO CALL LIST

The ID numbers in your Radio Call List are preprogrammed by your dealer. However, you can edit the names associated with these IDs. The  symbol will appear on the LCD screen when you are editing.

**Note:** The radio cannot receive any calls while you are editing.

To Edit a Call List entry:

- 1  to enter Menu Mode.
- 2  or  until **Program Lists**
- 3  to select **Program Lists**
- 4  or  until **RadioCall List**
- 5  to select **RadioCall List**
- 6  or  until **Edit Entry?**
- 7  to select **Edit Entry?**
- 8  or  until you locate the desired entry.
- 9  to select the entry.
- 10 Use your keypad to edit the entry (see page 10).
- 11  to save your changes. **Entry Saved**
- 12  to return to **Edit Entry?**  
—or—  
Hold down  to exit Menu Mode.

## 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 will appear on the LCD screen when Talkaround Mode is selected.

To select either Repeater Mode or Talkaround Mode:

Press the preprogrammed **Repeater/Talkaround** button (see page 8) to toggle between Repeater Mode and Talkaround Mode.

–or–



1  to enter Menu Mode.

2  or  until

**Rptr/Talkarnd**

3  to select

**Rptr/Talkarnd**

4  or  until

**Repeater Mode**

or until

**Talkarnd Mode**

5  to confirm your selection.

## SETTING TIGHT OR NORMAL SQUELCH

Use this feature to filter out nuisance (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.

To select tight or normal squelch:








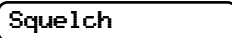

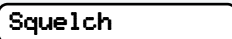


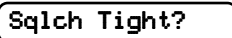


Press the preprogrammed **Squelch** button (see page 8) to toggle between tight and normal squelch,

–or–

Do the following:

1  to enter Menu Mode.

## Radio Calls

- 2  or  until 
- 3  to select 
- 4  or  until 
- 5  to select 
- 6  or  until   
or until 
- 7  to confirm your selection.

SETTING THE 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)* conserves the battery's charge.
- *Auto power* automatically sets the optimal power level based on the strength of the signal received. If the received signal is












weak, the transmit level will be set to high, and vice-versa.

**Note:** Be aware that a message received from a nearby radio might change your radio's power level to low. This may cause radios that are farther away not to receive your transmissions.



To set the power level:

Press the preprogrammed **Power Level** button (see page 8) to toggle between *low* and *high*,  
–or–

Do the following:

- 1  to enter Menu Mode.
- 2  or  until 
- 3  to select 
- 4  or  until 
- 5  to select 

The display shows the current power level.

6  or  until

Power High?

or until

Power Low?

or until

Power Auto?


7  to confirm the selection.



## NAME AND CALL TONE TAGGING

You can program your radio to sound a particular alert tone when a specific user is calling (name tone tagging), or when receiving a particular type of radio call (call tone tagging).

There are eight alert tones to select from. See the table on page 39.

To tag a specific user's **name**:



1  to enter Menu Mode.

2  or  until

Audio/Tones

3  to select



Audio/Tones


4  or  until

Name Tone Tag

5  to select

Name Tone Tag

6  or  until you see the name you want to tag.

7  to confirm the selection.

## Radio Calls

8 or until you see and hear the tone you want to use for this name.

9 to confirm the selection.

You will see

**Name Tag Set**

10 to return to

**Name Tone Tag**

–or–

Hold down to exit Menu Mode.

To tag a type of radio **call**:

1 to enter Menu Mode.

2 or until

**Audio/Tones**

3 to select

**Audio/Tones**

4 or until

**Call Tone Tag**

5 to select

**Call Tone Tag**

6 or until you see the call type you want to tag.

7 to confirm the selection.

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

9 to confirm the selection.

You will see

**Call Tone Set**

10 to return to

**Call Tone Tag**

–or–


Hold down to exit Menu Mode.

## SCAN

You can monitor multiple channels and receive any calls that are transmitted on them. Sixteen different channels can be programmed into each scan list by the dealer. Your radio will automatically switch to a scan list channel when it detects activity on it.

**Note:** The same channels can be assigned to different scan lists.

### STARTING OR STOPPING SCAN

The  symbol, and the channel you are transmitting on, will appear on the LCD screen when you start a scan operation.

The LED indicator blinks green during a scan operation, and stops blinking when the radio switches to a channel.

**Note:** If you enter Menu Mode while the radio is scanning, scanning will stop. It will resume when you exit Menu Mode.



To start or stop a scan operation:

Press the preprogrammed **Scan** button (see page 8) to start or stop scanning.

–or–

Do the following:



1  to enter Menu Mode.

2  or  until

**System Scan**

3  to select


**System Scan**

4  or  until

**Sys Scan On?**

–or–

**Sys Scan Off?**

5  to confirm your selection.

### TALKBACK

While your radio is scanning, Talkback allows you to participate in a call in progress. You must press the **PTT** button to participate in the call; otherwise, scanning continues to the next channel.

## DELETING A NUISANCE CHANNEL

If a channel continually generates unwanted calls or noise (a “nuisance” channel), use the **Scan** button to temporarily delete the channel from the scan list:

- 1 While the radio is on the nuisance channel, hold down the **Scan** button until you hear a tone.
- 2 Release the **Scan** button. The nuisance channel is deleted.

**Note:** You cannot delete a priority channel (see page 33) or the last remaining channel in a scan list.

### Restoring a Channel Back to the Scan List

To restore a previously deleted channel back to the scan list, restart the scan operation or turn your radio off and on again.

## EDITING A SCAN LIST




















A scan list is a group of up to 16 channels. Each position on the **Channel Selector** knob can have a scan list assigned to it. The same channel can be included in several scan lists, and the same scan list can be assigned to several **Channel Selector** positions. For example:


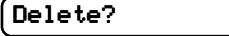



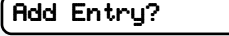


Position 2	Position 14
1	1
3	2
5	3
6	11

When you edit a scan list, you can either add, delete, or prioritize channels.

Your radio cannot receive any calls while you are editing a scan list. The  symbol will be displayed while you are in edit mode.

## To Add or Delete Channels in a Scan List:

- 1  to enter Menu Mode.
- 2  or  until 
- 3  to select 
- 4  or  until 
- 5  to select 
- 6  or  until   
or until 
- 7  to confirm your selection.
- 8  or  until you see the channel you want to add or delete.  
**Note:** You cannot delete the last remaining channel of a scan list.
- 9  to confirm your selection.

- 10 If you added a channel, you will see   
–or–  
If you deleted a channel, you will see   
 to confirm the deletion.  
You will see 
- 11  to return to   
or to return to   
–or–  
Hold down  to exit Menu Mode.

## Prioritizing 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



Priority Channel	Scanning Sequence
Channel 2 (Priority 1)	Ch2 → Ch1 → Ch2 → Ch3 → Ch2 → Ch4 → Ch2 → ... Ch1
Channel 2 (Priority 1) and Channel 8 (Priority 2)	Ch2 → Ch1 → Ch8 → Ch3 → Ch2 → Ch4 → Ch8 → ... Ch1

**Note:** Even if there is activity on a non-priority channel, your radio will automatically switch to an active priority channel and indicate the activity with a short tone.

### Setting Priority Channels

1 to enter Menu Mode.

2 or until **Program Lists**

3 to select **Program Lists**

4 or until **Scan List**

5 to select **Scan List**

6 or until **Edit Priority?**

7 to select **Edit Priority?**

8 or until **Priority #1?**

or until **Priority #2?**

9 to select the desired priority level.

10 or until you see the channel you want to prioritize.

11 to prioritize that channel.

12 to return to **Edit Priority?**

–or–

Hold down to exit Menu Mode.

**Notes:** You cannot reprioritize a *Priority 1* channel to *Priority 2*.


If you want to reprioritize all channels, you must delete each priority channel from the scan list and add it back.

## PHONE

If your radio has access to a telephone system, you can make a phone call. To do this, your radio must send an access code to a station that connects it to a phone line. (Ask your dealer for more details.) After completing a call, your radio must send a deaccess code to hang up.

**Note:** In order to receive a phone call, your radio must have a DTMF decode board installed. Ask your dealer for details.

### MAKING A PHONE CALL

You can make a phone call by using the preprogrammed **Phone** button (see page 9) or the menu.  will appear on the LCD screen when you are in Phone Mode.

To initiate a phone call:

Press the **Phone** Button.

–or–

Do the following:

- 1  to enter Menu Mode.

- 2  or  until 

- 3  to select 



- 4 You will hear a series of tones, indicating that an access code is being sent automatically, and see your access code;

–or–

(for full-keypad radios only) enter your access code using the keypad.

- 5 When you hear a dial tone:  
(For full-keypad radios only) enter the phone number using the keypad.

–or–

 or  to select a number from the phone list; then press the **PTT** button to send it.

–or–


(For full-keypad radios only)

- a Press and release the preprogrammed **Speed Dial** button (see page 9) to use the Speed Dial feature.
- b Press the key (1 to 9) corresponding to the number you want to call, or press “0” if you want to call the last number dialed.

**5 Note:** Press the **PTT** button, if required for your radio.

**Note:** To redial the last number dialed (if not using Speed Dial), press and release the **PTT** button. The radio sends the last number dialed.

—or—

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

**6** Switch to the desired channel. Hold the radio in a vertical position with the microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth.



**7** To end a phone call, do one of the following:  
Enter the deaccess code using the keypad.

—or—

If your radio has the deaccess code preprogrammed, go to step 8.

**8** Press the **Phone** button to exit Phone Mode.


—or—

**8**  to exit Phone Mode

and return to

**Phone**


—or—

Hold down  to exit Menu Mode.

## MODIFYING THE PHONE LIST


You can modify a phone list in three ways:



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

The  symbol will appear on the LCD screen when you are modifying the phone list.

**Note:** The radio cannot receive any calls while you are modifying the phone list.

### To Add an Entry (for full-keypad radios only):

**1**  to enter Menu Mode.

**2**  or  until

**Program Lists**

- 3 to select **Program Lists**
- 4 or **P2** until **Phone List**
- 5 to select **Phone List**
- 6 or **P2** until **Add Entry?**
- 7 to select **Add Entry?**
- You will see **Enter Name**
- 8 Use the keypad to enter the name (see pages 10 and 11).
- 9 to store the name.
- You will see **Enter Phone #**
- 10 Use the keypad to enter the phone number. You can also add a dash (press **P3**) and a Pause Indicator (hold down **#** until the # character on the LCD screen changes to a "P").
- 11 to select the phone number.
- 12 or **P2** until you see the location in the list where you want to store the phone number.

- 13 to store the phone number.
- You will see **Entry Saved**
- 14 to return to **Add Entry?**
- or–
- Hold down to exit Menu Mode.

### To Delete an Entry:

- 1 to enter Menu Mode.
- 2 or **P2** until **Program Lists**
- 3 to select **Program Lists**
- 4 or **P2** until **Phone List**
- 5 to select **Phone List**
- 6 or **P2** until **Delete Entry?**
- 7 to select **Delete Entry?**
- 8 or **P2** until you see the entry you want to delete.

- 9 to select the entry.  
You will see **Delete?**
- again to confirm the deletion.  
You will see **Entry Deleted**
- 10 to return to **Delete Entry?**  
–or–  
Hold down to exit Menu Mode.

### To Edit an Entry (for full-keypad radios only):

- 1 to enter Menu Mode.
- 2 or until **Program Lists**
- 3 to select **Program Lists**
- 4 or until **Phone List**
- 5 to select **Phone List**
- 6 or until **Edit Entry?**
- 7 to select **Edit Entry?**

- 8 or until you see the entry you want to edit.

- 9 to select the entry.
- 10 or until **Edit Name?**  
(to edit the name),  
–or– until **Edit Number?**  
(to edit the phone number),  
–or– until **Edit Location?**  
(to edit the location in the phone list).

- 11 to confirm your selection.
- 12 Use the keypad to edit the entry (see page 10).  
–or–  
 or until you see the location where you want to store the phone number.
- 13 to store the information.
- 14 to return to **Edit Entry?**  
–or–  
Hold down to exit Menu Mode.



## AUDIO/TONE SETTINGS


You can customize the audio and tone feature settings on your radio by:



1  to enter Menu Mode.


2  or  until 

3  to select 

4  or  until you see the feature you want to change (see the table below).

5  to select the feature. You will see the feature's current setting.

6  or  for available settings. (For Name and Call Tone Tagging, see page 29.)

7  to select the desired setting.

### Audio/Tone Settings


Feature	What it Does	Settings
Alert Vol Lvl	Makes the volume level of the audio and alert tones independent. These two volume levels can be adjusted independently.	Ind Alert Off Ind Alert On
Tone Disable	Turns all tones on or off.	Tones On Tones Off
Name Tone Tag	Assigns a specific ring tone when receiving a call from a specific user (see page 29 for details).	Standard Alert #1 - #7
Call Tone Tag	Assigns a specific tone when receiving a specific type of radio call (see page 30 for details).	Standard Alert #1 - #7

## Audio/Tone Settings (continued)

Feature	What it Does	Settings
Escalert	Increases the volume of the alarm tones when a call is not answered.	Escalert On Escalert Off
Companding	Provides the same audio quality for 12.5kHz channels as for 25kHz channels.	Compand On Compand Off
Keypad Tones	Turns keypad tones on or off.	Tones On Tones Off



## UTILITIES


You can customize some of your radio's features by:



1  to enter Menu Mode.


2  or  until **Utilities**

3  to select **Utilities**

4  or  until you see the feature you want to change (see table below).

5  to select the feature. You will see the feature's current setting.

6  or  for available settings.


7  to select the desired setting.

### Utilities Features

Feature	What it Does	Settings
Squelch	Sets radio squelch at either normal or tight (see page 27).	Sq1ch Normal Sq1ch Tight
Power Level	Changes the power level of the radio to high, low, or auto (see page 28).	Power High Power Low Power Auto
Clock	Sets the time, or turns the clock on or off (see page 43).	Clock On Clock Off Set Time?



## Utilities Features (continued)

Feature	What it Does	Settings
Reminder Alarm	Sets the alarm, or turns it on or off (see page 43).	Alarm On Alarm Off Set Time?
Option board	Activates/deactivates the option board installed in your radio.	Opt Board On Opt Board Off
Light Disable	Turns the display and keypad backlight feature on or off.	Lights On Lights Off
Software Ver #	Displays the radio's software version number when you press  .	—

## SETTING THE TIME

To set the time:

1 to enter Menu Mode.

2 or until **Utilities**

3 to select **Utilities**

4 or until **Clock**

–or– until **Reminder Alarm**

5 to confirm your selection.

6 or until **Set Time?**

7 to select **Set Time?**

8 When a setting is blinking, you can change it with or .

Hour **3:05 PM**  
 (AM or PM) **3:05 PM**  
 Minutes **3:05 PM**  
 (AM/PM or 24 hr)

**Note:** You cannot select “24 hr” for **Reminder Alarm**.

9 to move to the next setting.

10 to save your changes.

11 to return to **Clock**

or to return to **Reminder Alarm**

–or–

Hold down to exit Menu Mode.

## Notes

## SAFETY AND WARRANTY

### SAFE AND EFFICIENT OPERATION OF MOTOROLA TWO-WAY RADIOS

For information regarding radio use in hazardous areas, please refer to the Factory Mutual (FM) approval manual supplement that is included with radio models that offer this capability.

#### Exposure To Radio Frequency Energy

##### *National and International Standards and Guidelines*

Your Motorola Two-Way Radio, which generates and radiates radio frequency (RF) electromagnetic energy (EME), is designed to comply with the following National and International Standards and Guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

- Federal Communications Commission Report and Order No. FCC 96-326 (August 1996)
- American National Standards Institute (C95.1 - 1992)

- National Council on Radiation Protection and Measurements (NCRP - 1986)
- International Commission on Non-Ionizing Radiation Protection (ICNRP - 1986)
- European Committee for Electrotechnical Standardisation (CENELEC):
  - ENV. 50166-1 Human Exposure to Electromagnetic Fields Low Frequency (0Hz to 10kHz)
  - ENV. 50166-2 Human Exposure to Electromagnetic Fields High Frequency (10kHz to 300GHz)
  - Proceedings of SC211/8 1996 Safety Considerations for Human Exposure to E.M.F.s from Mobile Telecommunications Equipment (M.T.E.) in the Frequency Range 30MHz - 6 GHz (E.M.F. - Electromagnetic Fields)

To assure optimal radio performance and that human exposure to radio frequency

## Safety and Warranty

electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures:

### Portable Radio Operation and EME Exposure

- When transmitting with a portable radio, hold the radio in a vertical position with its microphone 1 to 2 inches (2.5 to 5 centimeters) away from your mouth. Keep the antenna at least 1 inch (2.5 centimeters) from your head and body.
- If you wear a portable two-way radio on your body, ensure that the antenna is at least 1 inch (2.5 centimeters) from your body when transmitting.



## ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY

**Note:** Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

- To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.
- When instructed to do so, turn off your radio when on board an aircraft. Any use of a radio must be in accordance with airline regulations or crew instructions.

## OPERATIONAL WARNINGS



WARNING

### Vehicles With an Air Bag

Do not place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

### Potentially Explosive Atmospheres

Turn off your two-way radio when you are in any area with a potentially explosive atmosphere, unless it is a radio type especially qualified for use in such areas (for example, Factory Mutual or CENELEC approved). Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

### Batteries

Do not replace or recharge batteries in a potentially explosive atmosphere. Battery contact sparking may occur while installing or removing batteries and may cause an explosion.

### Blasting Caps and Blasting Areas

To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

**Note:** The areas with potentially explosive atmospheres referred to above include fueling areas such as: below decks on boats; fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off a vehicle engine. Areas with potentially explosive atmospheres are often but not always posted.

## OPERATIONAL CAUTIONS



### Caution

#### Antennas

- Do not use any portable two-way radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.
- Make sure you have the correct antenna installed for your radio's frequency band. Ask your dealer for details.

#### Batteries

All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

## BATTERY INFORMATION

### Charging Batteries

This product is powered by a nickel-cadmium (Ni-Cd), nickel-metal-hydride (NiMH), or lithium-ion 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 temperature-sensing circuit to ensure that batteries are charged within the temperature limits stated above.

## Recycling of Nickel-Cadmium Batteries

Nickel-cadmium (Ni-Cd) rechargeable batteries can be recycled. However, recycling facilities may not be available in all areas. Under various U.S. state laws and the laws of several other countries, Ni-Cd batteries must be recycled or disposed of properly and cannot be disposed of in landfills or incinerators.

Contact your local waste management agency for specific requirements and information in your area.

Motorola fully endorses and encourages the recycling of Ni-Cd batteries. In the U.S. and Canada, Motorola participates in the nationwide Rechargeable Battery Recycling Corporation (RBRC) program for Ni-Cd battery collection and recycling. Many retailers and dealers participate in this program.

For the location of the drop-off facility closest to you, access RBRC's Internet website at [www.rbrc.com](http://www.rbrc.com) or call 1-800-8-BATTERY. This internet site and telephone number also provide other useful information concerning recycling options for consumers, businesses, and governmental agencies.

## INTRINSICALLY SAFE RADIO INFORMATION

### FMRC Approved Equipment

Anyone intending to use a radio in a location where hazardous concentrations of flammable materials exist (hazardous atmosphere) is advised to become familiar with the subject of intrinsic safety and with the National Electric Code NFPA 70 (National Fire Protection Association) Article 500 (hazardous [classified] locations).

An Approval Guide, issued by Factory Mutual Research Corporation (FMRC), lists manufacturers and the products approved by FMRC for use in such locations. FMRC has also issued a voluntary approval standard for repair service ("Class Number 3605").

FMRC Approval labels are attached to the radio to identify the unit as being FM Approved for specified hazardous atmospheres. This label specifies the hazardous Class/Division/Group along with the part number of the battery that must be used. Depending on the design of the portable unit, this FM label can be found on the back or the bottom of the radio



housing. The FM Approval mark is shown below:



## WARNINGS

- Do not operate radio communications equipment in a hazardous atmosphere unless it is a type especially qualified (e.g., FMRC Approved) for such use. An explosion or fire may result.
- Do not operate an FMRC Approved Product in a hazardous atmosphere if it has been physically damaged (e.g., cracked housing). An explosion or fire may result.
- Do not replace or charge batteries in a hazardous atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion or fire.



## WARNINGS

- Do not replace or change accessories in a hazardous atmosphere. Contact sparking may occur while installing or removing accessories and cause an explosion or fire.
- Do not operate an FMRC Approved Product unit in a hazardous location with the accessory contacts exposed. Keep the connector cover in place when accessories are not used.
- Turn a radio off before removing or installing a battery or accessory.
- Do not disassemble an FMRC Approved Product unit in any way that exposes the internal electrical circuits of the unit.

Radios must ship from the Motorola manufacturing facility with the hazardous atmosphere capability and FM Approval labeling. Radios will not be “upgraded” to this capability and labeled in the field.



A modification changes the unit's hardware from its original design configuration. Modifications can only be made by the original product manufacturer at one of its FMRC-audited manufacturing facilities.

## WARNINGS

- Failure to use an FMRC Approved Product unit with an FMRC Approved battery or FMRC Approved accessories specifically approved for that product may result in the dangerously unsafe condition of an unapproved radio combination being used in a hazardous location.
- Unauthorized or incorrect modification of an FMRC Approved Product unit will negate the Approval rating of the product.



WARNING

### Repair of FMRC Approved Products

REPAIRS FOR MOTOROLA PRODUCTS WITH FMRC APPROVAL ARE THE RESPONSIBILITY OF THE USER.

You should not repair or relabel any Motorola-manufactured communication equipment bearing the FMRC Approval label ("FMRC Approved Product") unless you are familiar with the current FMRC Approval standard for repairs and service ("Class Number 3605").

You may want to consider using a repair facility that operates under 3605 repair service approval.

## WARNINGS

- Incorrect repair or relabeling of any FMRC Approved Product unit could adversely affect the Approval rating of the unit.
- Use of a radio that is not intrinsically safe in a hazardous atmosphere could result in serious injury or death.



WARNING

FMRC's Approval Standard Class Number 3605 is subject to change at any time without notice to you, so you may want to obtain a current copy of 3605 from FMRC. Per the December 1994 publication of 3605, some key definitions and service requirements are as follows:

### ***Repair***

A repair constitutes something done internally to the unit that would bring it back to its original condition—Approved by FMRC. A repair should be done in an FMRC Approved facility.

Items not considered as repairs are those in which an action is performed on a unit which does not require the outer casing of the unit to be opened in a manner which exposes the internal electrical circuits of the unit. You do not have to be an FMRC Approved Repair Facility to perform these actions.

### ***Relabeling***

The repair facility shall have a method by which the replacement of FMRC Approval labels are controlled to ensure that any relabeling is limited to units that were originally shipped from the Manufacturer with an FM Approval label in place. FMRC Approval labels shall not be stocked by the repair facility. An FMRC Approval label shall be ordered from the original manufacturer, as needed, to repair a specific unit. Replacement labels may be obtained and applied by the repair facility, provided there is satisfactory evidence that the

unit being relabeled was originally an FMRC Approved unit. Verification may include, but is not limited to: a unit with a damaged Approval label, a unit with a defective housing displaying an Approval label, or a customer invoice indicating the serial number of the unit and purchase of an FMRC Approved model.

### ***Do Not Substitute Options or Accessories***

The Motorola communications equipment certified by Factory Mutual is tested as a system and consists of the FM Approved portable, FM Approved battery, and FM Approved accessories or options, or both. This FM Approved portable and battery combination must be strictly observed. There must be no substitution of items, even if the substitute has been previously Approved with a different Motorola communications equipment unit. Approved configurations are listed in the FM Approval Guide published by FMRC, or in the product FM Supplement. This FM Supplement is shipped from the manufacturer with the FM Approved radio and battery combination. The Approval Guide, or the Approval Standard Class Number 3605 document for repairs and service, can be ordered directly from Factory Mutual Research Corporation located in Norwood, Massachusetts.

## 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:

HT1250 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.
- D) Breakage or damage to antennas unless caused directly by defects in material workmanship.
- E) A Product subjected to unauthorized Product modifications, disassemblies 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:
  - 1) any of the seals on the battery enclosure of cells are broken or show evidence of tampering.
  - 2) 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.
- I) 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.
- J) 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. For a complete list, see your Motorola dealer.

### CARRY CASES

HLN9714_	Spring 2 1/2" Belt Clip
HLN9952_	Belt Clip Carry Holder (compatible with all batteries and radios)
HLN9652_	Leather Case, Thin Battery with Belt Loop
HLN9665_	Leather Case, Standard Battery with Belt Loop
HLN9670_	Leather Case, Thin Battery with Swivel
HLN9676_	Leather Case, Standard Battery with Swivel
HLN9677_	Leather DTMF Case, Thin Battery with Belt Loop
HLN9689_	Leather DTMF Case, Standard Battery with Belt loop
HLN9690_	Leather DTMF Case, Thin Battery with Swivel
HLN9694_	Leather DTMF Case, Standard Battery with Swivel
HLN9701_	Nylon Case, Thin Battery with Belt Loop

HLN9702_	Nylon Case, Standard Battery with Belt Loop
HLN9703_	Nylon DTMF Case, Thin Battery with Belt Loop
HLN9704_	Nylon DTMF Case, Standard Battery with Belt Loop
HLN9710_	Soft-Leather Case, Short, Plain, Belt Loop, Thin Battery (AAD & DC)
HLN9711_	Soft-Leather Case, Short, Plain, Belt Loop, Standard Battery (AAD & DC)
HLN9712_	Soft-Leather Case, Short, DTMF, Belt Loop, Thin Battery (AAD & DC)
HLN9713_	Soft-Leather Case, Short, DTMF, Belt Loop, Standard Battery (AAD & DC)
HLN9744_	Soft-Leather Case, Tall, DTMF, Belt Loop, Thin Battery (AAD & DC)
HLN9745_	Soft-Leather Case, Tall, DTMF, Belt Loop, Standard Battery (AAD & DC)

### CHARGERS

AAHTN3000_	110V Single-Unit Rapid Charger, US Plug
AAHTN3001_	230V Single-Unit Rapid Charger, Euro Plug
AAHTN3002_	230V Single-Unit Rapid Charger, UK Plug
AAHTN3003_	110V Multi-Unit Rapid Charger, US Plug
AAHTN3004_	230V Multi-Unit Rapid Charger, Euro Plug
AAHTN3005_	230V Multi-Unit Rapid Charger, UK Plug



## HEADSETS

BDN6647_	Lightweight Headset, Single-Muff
HMN9021_	Over-the-Head, Medium-Weight Headset, Dual-Muff
HMN9022_	Behind-the-Head, Medium-Weight Headset, Dual-Muff
HMN9787_	Headset with Boom Microphone

## REMOTE SPEAKER MICROPHONES

AAHMN9052_	Standard Remote Speaker Microphone
AAHMN9053_	Noise-Cancelling Remote Speaker Microphone
AAHMN9054_	Public Safety Remote Speaker Microphone

## ADAPTERS

HLN9716_	Adapter for Audio Accessories
HLN9717_	Adapter for the 3.5mm Audio Accessories
AAHLN9718_	Vehicular Adapter

## BATTERIES

HNN9008_R	Small NiMH, High-Capacity
HNN9009_R	Large NiMH, Ultra-High-Capacity
HNN9010_R	Large NiMH, Ultra-High-Capacity FM
HNN9011_R	Large NiCd, High-Capacity FM
HNN9012_R	Large NiCd, High-Capacity
HNN9013_R	Slim Lilon, High-Capacity

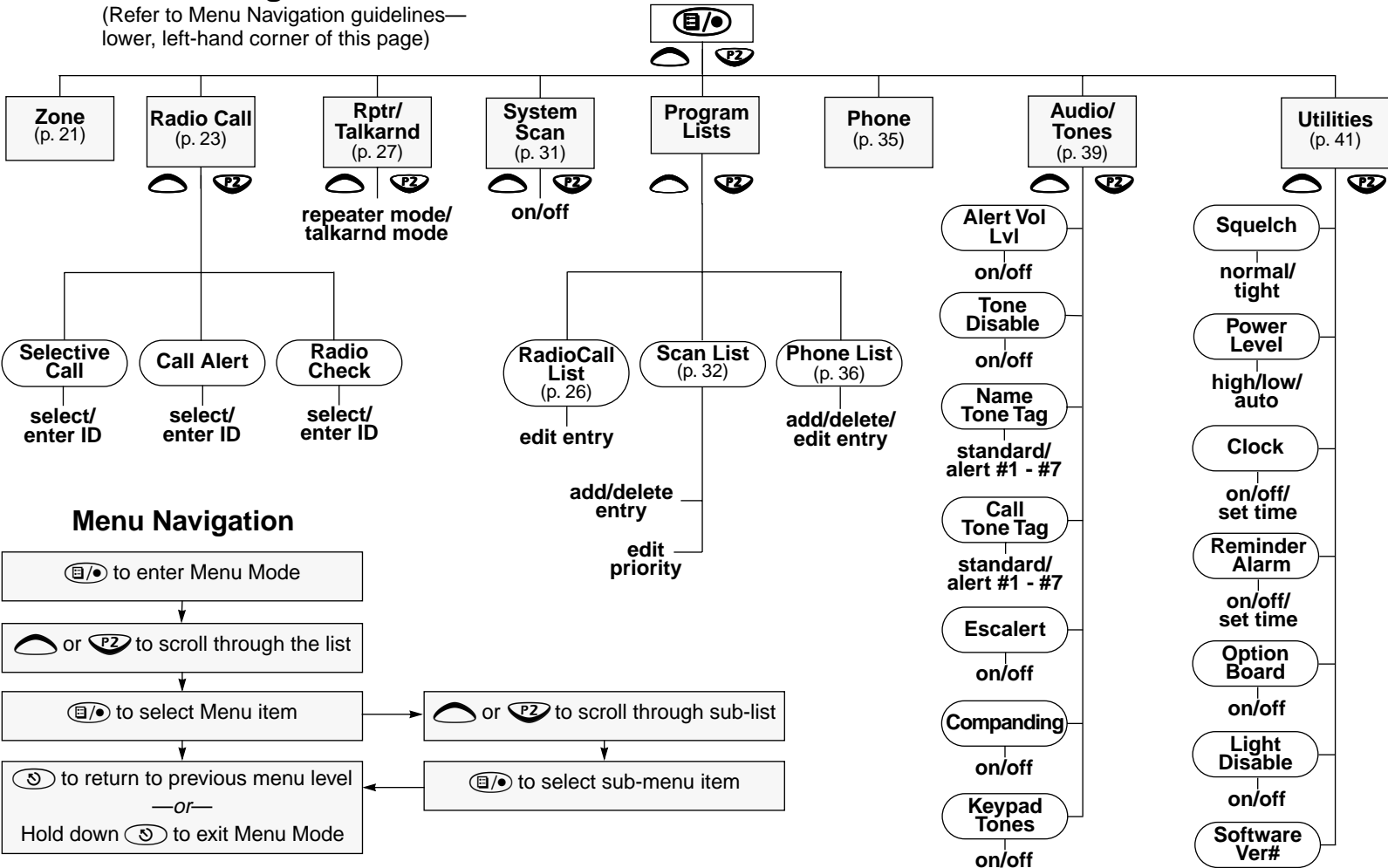
## ANTENNAS

NAB6064_	Lowband, Heliflex
PMAD4012_	VHF 136–155 MHz 9 cm, Stubby
PMAD4013_	VHF 155–174 MHz 9 cm, Stubby
PMAD4014_	VHF 136–155 MHz 14 cm, Standard Length
PMAD4015_	VHF 155–174 MHz 14 cm, Standard Length
HAD9743_	VHF 162–174MHz, Stubby
PMAD4023_	VHF 150–161 MHz
PMAD4025_	VHF 150–161 MHz, Stubby
PMAE4002_	UHF 403–433 MHz
PMAE4003_	UHF 433–470 MHz
NAE6483AR	UHF 403–520 MHz, Whip
PMAE4006_	UHF 470–510 MHz
PMAE4007_	UHF 490–527 MHz
PMAE4008_	UHF 470–530 MHz, Whip



# Menu Navigation Chart

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## Menu Navigation

