







- Press  until iVOX appears on the display. The current setting On/Off will flash.
- Press  or  to select On or Off.
- Press  to set or  to continue set up.

Hands-Free Use With Accessories (VOX)

You can transmit hands-free more reliably with the use of optional headset accessories. Once VOX is turned on, the radio detects your voice and transmits when you speak.






Many accessories (sold separately) are available for your radio. For more information, visit our Web site at www.motorola.com or shop.giantintl.com.

- Turn the radio off and plug the VOX accessory into the accessory port.
- Turn the radio on. VOX shows on the display.
- Adjust the volume appropriately by rotating . Lower the volume before placing the accessory on your head or in your ear.
- To turn off, simply remove accessory.

Note: There is a short delay between the time you start talking and when the radio transmits. There is a short delay before the transmission is completed.

Setting the Sensitivity Level When in VOX Mode

Adjusting the radio's sensitivity level helps minimize the possibility of unintended noises triggering a transmission and helps the radio pick up soft voices.

- Press  until VOX and the level setting (1 - 3) appear on the display.
- Press  or  to select the sensitivity level.
- Press  to set or  to continue set up.

3 = High Sensitivity for quiet environments
2 = Medium Sensitivity for most environments
1 = Low Sensitivity for noisy environments






Note: When you connect a headset, the radio is automatically set to the last chosen sensitivity level.

Q₇ Noise Filtering



The Q₇ noise-filtering feature helps to ensure uninterrupted communication with other Motorola radios that have this feature. This feature also filters out unwanted transmissions from other radios. This is useful in places where there is heavy radio traffic, such as amusement parks or ski resorts.

Note: Q₇ noise filtering is not available when the radio is scanning.

To turn Q₇ noise filtering on or off:

- Press  until Q₇ displays. The current setting On/Off will flash.
- Press  or  to turn noise filtering On or Off.
- Press  to confirm your selection or  to continue set up.







To transmit to a radio that has Q₇ noise filtering turned on:

- Select the same channel and Interference Eliminator Code as the other radio.
- Press  to send a call tone. This allows your voice to pass through the Q₇ noise filter on the receiving radio.
- Press  and speak normally.

Note: If you skip step 2, the beginning of your message may not be heard on the receiving radio. For a 30-second period, starting after the last transmission, all transmissions received on the selected channel and code will pass through the Q₇ noise filter.







VibraCall™ Alert

VibraCall™ is a vibrating alert that notifies you that your radio is receiving a message. This is useful in noisy environments. When the alert is on, the radio vibrates once every 30 seconds when you receive a message on the channel and code you set.

- To turn vibrating alerts on, press  until  is displayed. The current setting will flash.
- Press  or  to change the setting to On/Off.
- Press  to set or  to continue set up.

Keypad Tones

You may enable or disable the speaker key tones. You will hear the key tone each time a button is pushed.



- Press  until  appears. The current setting On/Off will flash.
- Press either  or  to turn On or Off.
- Press  to confirm or  to continue set up.





Note: When the key tone feature is off, the following are not disabled:

- Transmit timeout alert tone
- Call tone
- Low battery alert tone or
- The transmitted talk confirmation tone

Transmitting a Talk Confirmation Tone






You can set your radio to transmit a unique tone when you finish transmitting. It is like saying “Roger” or “Over” to let others know you are finished talking. Talk Confirmation Tone is disabled in repeater mode on channels 15R-22R.

- With the radio on, press  until the  appears. The current setting On/Off flashes.

- Press  or  to turn On or Off.
- Press  to set or  to continue setup.

Enabling Repeater Channels







Use of a repeater can greatly increase the radio range and coverage area. Repeater use must be coordinated with the owner of the repeater. Be sure to understand and follow the sharing and usage rules for each repeater system.



- With the radio on, press  until the **R** appears. The current setting ON/OFF will flash.
- Press  or  to select ON or OFF.
- Press  to save the setting or  to continue set up.

After enabling the repeater channels, you will be able to select channels 15R-22R. Refer to the “Selecting the Channel” section on page one.

Selecting the Repeater Access (TX) Code

When a repeater channel is selected, an additional menu option is available for setting the transmitted Interference Eliminator Code. Many repeaters will require a specific value setting to activate the repeater on your transmissions. See the table “**INTERFERENCE ELIMINATOR TONE / CODE VALUES**” for detailed information.

- With the radio on, press  repeatedly until the , the **R**, and the current setting flash.
- Press  or  to select the code.
- Press  or  to exit menu mode.

You can set a different code for each channel using this procedure. An extended press of  or  allows you to scroll through the Interference Code rapidly so you can quickly reach the code you want. 0 is the off position.

Special Features

Emergency Alert Mode

The Emergency Alert feature can be used to signal members in your group of your need for urgent help. MR series radios will operate in an automatic “hands-free” emergency control mode for a total of 30 seconds after activating the Emergency Alert. MR series radios in your group will automatically advance the speaker volume to the maximum setting and sound a warbling alert tone for 8 seconds. The alert tone is emitted from your own radio speaker and the receiving radios in your group. After the 8 second alert, any spoken words or incidental sounds at your end will be transmitted to the group for 22 seconds. For the 30 second duration of Emergency Alert mode, MR series radio controls and buttons will be locked to maximize reception of the emergency message.

- Press and hold the Emergency Alert button for 3 seconds.
- Release the button after the LED Indicator glows red and the alert tone begins to sound. There is no need to continue to hold the Emergency Alert button or use PTT for your message to be transmitted.
- After the alert tone ends you may speak into the microphone. Your voice or incidental sounds will be transmitted. The LED indicator will continue to glow for the duration of the 22 second period.
- After 30 seconds your radio speaker will emit a Talk Confirmation Tone and the LED Indicator will extinguish. Operation then returns to normal two-way mode.

Note: All Motorola Talkabout EM, MJ, and MR series radios are fully compatible with the Emergency Alert feature. Radios other than EM, MJ, MR series can receive the emergency alert signal, but will not respond with adjusted volume settings, locked controls, or a warbling alert tone. Users of other radio models set to the same channel and Interference Eliminator Code will hear a steady tone for 8 seconds followed by the voice transmission for 22 seconds.

Warning: The Emergency Alert feature should only be used in the event of an actual emergency. Motorola is not responsible if there is no response to the emergency alert from the receiving group.



Built-in Flashlight

Press and hold the flashlight button to turn and keep the light on. The switch functions as a momentary control for the light.

Note: Turn off the flashlight when not in use to conserve battery power.

Keypad Lock

To avoid accidentally changing your radio settings:

- Press and hold  until  displays.
- When in lock mode, you can turn the radio on and off, adjust the volume, receive, transmit, send a call tone, and monitor channels. All other functions are locked.

To unlock the radio, press and hold  until  is no longer displayed.



Scanning Channels



Use scan to search the 22 channels for transmissions from unknown parties, to find someone in your group who has accidentally changed channels, or to quickly find unused channels for your own use.

There is a priority feature and 2 modes of scanning (basic and advanced) to make your search more effective. The basic scan mode uses the channel and code combinations for each of the 22 channels as you have set them (or with the default code value of 1). The “Advanced Scan” mode will scan all channels for any and all codes, detect any code in use, and use that code value temporarily for that channel.



Priority is given to the “home channel,” that is, the channel (and Interference Eliminator Code) your radio is set to when you start the scan. This means the initial channel (and code setting) is scanned more often than the other 21 channels, and your radio will respond quickly to any activity occurring on the home channel as a priority.



To start Scanning:

- Briefly press the  key. The scan  will appear in the display, and the radio will begin to scroll through the channel and code combinations.








- When the radio detects channel activity matching the channel and code combination, it stops scrolling and you can hear the transmission.
- To respond and talk to the person transmitting, press  within five seconds after the end of the transmission.
- The radio will resume scrolling through the channels five seconds after the end of any received activity.
- To stop scanning, briefly press the  key.

To start Advanced Scanning:

- Set the Interference Eliminator Code to “zero” or OFF.
- Briefly press the  key. The scan  will appear in the display, and the radio will begin to scroll through the channels. No Interference Eliminator Codes will filter what is heard.
- When the radio detects channel activity with ANY code (or NO code), it stops scrolling and you can hear the transmission. Any Interference Eliminator Code that may be in use by that party will be detected and displayed.

- To respond and talk to the person transmitting, press  within five seconds of the end of the transmission. The radio will transmit using the newly detected Interference Eliminator Code.
- The radio will resume scrolling through the channels five seconds after the end of any received activity.
- To stop scanning, briefly press the  key.

Scanning Notes:

- If you press  while the radio is scrolling through inactive channels, the transmission will be on the “home channel”. Scanning will resume five seconds after the end of your transmission. You may press the  key to stop scanning at any time.
- If the radio stops on an undesired transmission, you may immediately resume the scan by briefly pressing  or .
- If the radio repeatedly stops on an undesired transmission, you may temporarily remove that channel from the scan list by pressing and holding  or  for three seconds. You may remove more than one channel in this way.
- To restore the removed channel(s) to the scan list, turn the radio off and then back on, or exit and re-enter the scanning mode by pressing .
- You cannot remove the home channel from the scan list.
- In Advanced Scan, the detected code will only be used for one transmission. You must note the code, exit scan, and set that detected code on that channel to permanently use the detected code.

Weather Receiver

Your radio can tune in to broadcasts by the United States National Oceanic and Atmospheric Administration (NOAA) Weather Radio.



You can listen to a weather channel (see “Weather Channels and Frequencies” table for details) or set your radio to alert you to emergency weather broadcasts that interrupt routine broadcasts. When you listen to a weather channel, you cannot use your radio in scan mode or for two-way communications.

NOAA has transmitters located throughout the United States. These transmitters broadcast watches, forecasts, and other information 24 hours a day.

Note: NOAA weather radio stations are assigned to cover specific areas and service may be limited. Please check with your local weather office for frequency and details, or visit www.weather.gov/nwr in the US to view the appropriate transmitter for your area.





The use of the NOAA logo does not provide an endorsement or implied endorsement by NOAA's National Weather Service.

Turning Weather Channel Reception On and Off

- To turn weather reception on, press  and hold for 3 seconds.
- To turn off, press  or turn the radio off and then back on.







Setting the Weather Channel

Your radio receives weather frequencies:

- After turning weather reception on, press . The current channel flashes.
- Press  or  to select the appropriate channel with good reception in your area.
- Press  to save the weather channel setting.

Setting the Weather Alert

Your radio can be set to respond to NOAA Weather Radio emergency messages. A special alarm tone sounds an alert and turns on the weather receiver to give you immediate weather and emergency information.

- After turning weather reception on, press  twice. On/Off displays.
- Press  or  to select On/Off. If you activate Weather Alert and return to two-way mode,  will display.
- Press  to save the Weather Alert setting.
- Press  to return to two-way mode.

As with two-way radio reception, weather channel reception depends on how close you are to a transmitter and whether you are indoors or outdoors. Because weather channels are transmitted without codes, they may contain static or noise. Weather Alert will not function while actively transmitting or receiving in two-way mode.

FRS / GMRS SIMPLEX CHANNELS AND FREQUENCIES					
CHANNEL	FREQ (MHz)	TYPE	CHANNEL	FREQ (MHz)	TYPE
1	462.5625	GMRS/FRS	12	467.6625	FRS
2	462.5875	GMRS/FRS	13	467.6875	FRS
3	462.6125	GMRS/FRS	14	467.7125	FRS
4	462.6375	GMRS/FRS	15	462.5500	GMRS
5	462.6625	GMRS/FRS	16	462.5750	GMRS
6	462.6875	GMRS/FRS	17	462.6000	GMRS
7	462.7125	GMRS/FRS	18	462.6250	GMRS
8	467.5625	FRS	19	462.6500	GMRS
9	467.5875	FRS	20	462.6750	GMRS
10	467.6125	FRS	21	462.7000	GMRS
11	467.6375	FRS	22	462.7250	GMRS

GMRS DUPLEX REPEATER CHANNEL FREQUENCIES					
CHANNEL	RX (MHz)	TX (MHz)	CHANNEL	RX (MHz)	TX (MHz)
15R	462.5500	467.5500	19R	462.6500	467.6500
16R	462.5750	467.5750	20R	462.6750	467.6750
17R	462.6000	467.6000	21R	462.7000	467.7000
18R	462.6250	467.6250	22R	462.7250	467.7250

WEATHER CHANNELS AND FREQUENCIES					
CHANNEL	RX (MHz)	CHANNEL	RX (MHz)	CHANNEL	RX (MHz)
WX1	162.550	WX5	162.450	WX9	161.775
WX2	162.400	WX6	162.500	WX10	161.750
WX3	162.475	WX7	162.525	WX11	162.000
WX4	162.425	WX8	161.650		

INTERFERENCE ELIMINATOR TONE / CODE VALUES					
CODE	(Hz)	CODE	(OCTAL)	CODE	(OCTAL)
1	67.0	39	023	81	315
2	71.9	40	025	82	331
3	74.4	41	026	83	343
4	77.0	42	031	84	346
5	79.7	43	032	85	351
6	82.5	44	043	86	364
7	85.4	45	047	87	365
8	88.5	46	051	88	371
9	91.5	47	054	89	411
10	94.8	48	065	90	412
11	97.4	49	071	91	413
12	100.0	50	072	92	423
13	103.5	51	073	93	431
14	107.2	52	074	94	432
15	110.9	53	114	95	445
16	114.8	54	115	96	464
17	118.8	55	116	97	465
18	123.0	56	125	98	466
19	127.3	57	131	99	503
20	131.8	58	132	100	506
21	136.5	59	134	101	516
22	141.3	60	143	102	532
23	146.2	61	152	103	546
24	151.4	62	155	104	565
25	156.7	63	156	105	606
26	162.2	64	162	106	612
27	167.9	65	165	107	624
28	173.8	66	172	108	627
29	179.9	67	174	109	631
30	186.2	68	205	110	632
31	192.8	69	223	111	654
32	203.5	70	226	112	662
33	210.7	71	243	113	664
34	218.1	72	244	114	703
35	225.7	73	245	115	712
36	233.6	74	251	116	723
37	241.8	75	261	117	731
38	250.3	76	263	118	732
		77	265	119	734
		78	271	120	743
		79	306	121	754
		80	311		

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Please contact customer service at 1-800-638-5119 or e-mail us at giantintl@callcenter.com for questions/comments, warranty, support or service related to this product.

Warranty		
Consumer Two-Way Radio Products and Accessories purchased in the United States.		
What Does this Warranty Cover?		
Subject to the exclusions contained to the right, Giant International Ltd. warrants the Motorola branded consumer two-way radios that operate via Family Radio Service or General Mobile Radio Service that it manufactures ("Products"), the Motorola branded or certified accessories sold for use with these Products that it manufactures ("Accessories") to be free from defects in materials and workmanship under normal consumer usage for the period(s) outlined below. This limited warranty is a consumer's exclusive remedy, and applies as follows to new Motorola branded Products and Accessories manufactured by Giant International Ltd., and purchased by consumers in the United States, which are accompanied by this written warranty:		
Who is covered?		
This warranty extends only to the first consumer purchaser, and is not transferable.		
What will GIANT INTERNATIONAL LTD. do?		
GIANT INTERNATIONAL LTD., at its option, will at no charge repair, replace or refund the purchase price of any Products or Accessories that does not conform to this warranty. We may use functionally equivalent reconditioned/ refurbished/ pre-owned or new Products, Accessories or parts.		
Products Covered	Length of Coverage	Exclusions
Products and Accessories as defined above, unless otherwise provided for below.	One (1) year from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below.	Normal Wear and Tear. Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.
1. Consumer Two-Way Radio Accessories.	1. Ninety (90) days from the date of purchase by the first consumer purchaser of the product.	Batteries. Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this limited warranty.
2. Products and Accessories that are Repaired or Replaced.	2. The balance of the original warranty or for ninety (90) days from the date returned to the consumer, whichever is longer.	Abuse & Misuse. Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola or Giant International Ltd., are excluded from coverage.
		Use of Non-Motorola branded Products and Accessories. Defects or damage that result from the use of Non-Motorola branded or certified Products or Accessories or other peripheral equipment are excluded from coverage.
		Unauthorized Service or Modification. Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola, Giant International Ltd. or its authorized service centers, are excluded from coverage.
		Altered Products. Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola branded housings, or parts, are excluded from coverage.
		Communication Services. Defects, damages, or the failure of Products or Accessories due to any communication service or signal you may subscribe to or use with the Products or Accessories is excluded from coverage.
How to Obtain Warranty Service or Other Information?		
To obtain service or information, please call:		
USA Two-Way Radios		
1-800-638-5119		
giantintl@callcenter.com		
For Accessories, please call the telephone number designated above for the product with which they are used.		
You will receive instructions on how to ship the Products or Accessories at your expense, to a GIANT INTERNATIONAL LTD. Authorized Repair Center. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider, if applicable; (d) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number.		