



MOTOROLA

User's Guide

TALKABOUT® TWO-WAY RADIO



6864110W17-O

Model T5900, T5920, and T5950

Introduction

Congratulations on your purchase of a Motorola product!

Product registration is an important step. Registering helps us facilitate warranty service and permits us to contact you should your Motorola product require an update or other service.

To register your product on-line, visit www.motorola.com/warranty/radios.

Please retain your original dated sales receipt for your records. For warranty service of your Motorola product, you will need to provide a copy of your dated sales receipt to confirm warranty status. Registration is not required for warranty coverage.

For a copy of a large-print version of this guide, or for product-related questions, call:

1-800-353-2729 in the USA

1-888-390-6456 TTY (Text Telephone)

On the Web:

www.motorola.com/talkabout

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Safety and General Information

Important Information on Safe and Efficient Operation Read This Information Before Using Your Radio

The information provided in this document supersedes the general safety information contained in user guides published prior to July 2000.

Transmit and Receive Procedure

Your two-way radio contains a transmitter and a receiver. To control your exposure and ensure compliance with the general population/uncontrolled environment exposure limits, always adhere to the following procedure:

- Transmit no more than 50% of the time.
- To transmit (talk), press the Push to Talk (PTT) button.
- To receive calls, release the PTT button.

Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance).

Exposure to Radio Frequency Energy

Your Motorola radio is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR part 2 sub-part J

- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2001 (applicable to wireless phones only)
- ANATEL, Brasil Regulatory Authority, Resolution 256 (April 11, 2002) “additional requirements for SMR, cellular, and PCS product certification.”

To assure optimal radio performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures.

Portable Radio Operation and EME Exposure

Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.

DO NOT hold the antenna when the radio is “IN USE.” Holding the antenna affects the effective range.



Two-Way Radio Operation

When using your radio as a traditional two-way radio, **hold the radio in a vertical position with the microphone one to two inches (2.5 to 5 cm) away from the lips.**

Body-Worn Operation

To maintain compliance with FCC/Health Canada RF exposure guidelines, if you wear a radio on your body when transmitting, always place the radio in a Motorola-supplied or approved clip, holder, holster, case, or body harness for this product. Use of non-Motorola-approved accessories may exceed FCC/Health Canada RF exposure guidelines. If you do not use one of the Motorola-supplied or approved body-worn accessories, and are not using the radio held in the normal use position, **ensure the radio and its antenna are at least one inch (2.5 cm) from your body when transmitting.**

Data Operation

If applicable, when using any data feature of the radio with or without an accessory cable, **position the radio and its antenna at least one inch (2.5 cm) from the body.**

Approved Accessories

For a list of approved Motorola accessories visit our website at www.mot.com.

Electromagnetic Interference/Compatibility

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

Facilities

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.

Aircraft

When instructed to do so, turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Medical Devices - Pacemakers

The Advanced Medical Technology Association recommends that a minimum separation of six inches (15 cm) be maintained between a handheld wireless radio and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of the U.S. Food and Drug Administration.

Persons with pacemakers should:

- ALWAYS keep the radio more than six inches (15 cm) from their pacemaker when the radio is turned ON.
- Not carry the radio in the breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn the radio OFF immediately if you have any reason to suspect that interference is taking place.

Medical Devices - Hearing Aids

Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Safety and General Use While Driving

Check the laws and regulations on the use of radios in the area where you drive. Always obey them. When using your radio while driving, please:

- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

Operational Warnings

For 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 radio prior to entering any area with a potentially explosive atmosphere, unless it is a radio type especially qualified for use in such areas as “Intrinsically Safe.” Do not remove, install, or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

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 your vehicle engine. Areas with potentially explosive atmospheres are often but not always posted.

Blasting Caps and 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.

Operational Cautions

Antennas

Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

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 Charger Safety Instructions

Save these Instructions

1. Do not expose the charger to rain or snow.
2. Do not operate or disassemble the charger if it has received a sharp blow, or has been dropped or damaged in any way.
3. Never alter the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician. An improper condition can result in a risk of electric shock.
4. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the charger from the AC receptacle.
5. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.
6. Use of an attachment not recommended or sold by Motorola may result in a risk of fire, electric shock, or personal injury.
7. Make sure the cord is located so it will not be stepped on, tripped over, or subjected to damage or stress.

8. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and/or electric shock. If an extension cord must be used, make sure that:
 - The pins on the plug of the extension cord are the same number, size, and shape as those on the plug of the charger.
 - The extension cord is properly wired and in good electrical condition.
 - The cord size is 18 AWG for lengths up to 100 feet, and 16 AWG for lengths up to 150 feet.
9. The supply cord of this charger cannot be replaced. If the cord is damaged, call Motorola Product Services at 1-800-353-2729 in the USA or 1-888-390-6456 TTY (Text Telephone).

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FCC Licensing Information

Your Motorola radio operates on General Mobile Radio Service (GMRS) frequencies and is subject to the Rules and Regulations of the Federal Communications Commission (FCC). The FCC requires that all operators using GMRS frequencies obtain a radio license before operating their equipment. To obtain the FCC forms, please request Forms **605** and **159**, which includes all forms and instructions. If you wish to have the document faxed or mailed, or have questions, please use the following contact information.

Faxed Contact the Fax-On-Demand system at:	Mailed Call the FCC forms hotline at:	Questions Regarding FCC license Contact the FCC at:
1-202-418-0177	1-800-418-FORM 1-800-418-3676	1-888-CALL-FCC 1-888-225-5322 Or: http://www.fcc.gov

Changes or modifications not expressly approved by Motorola may void the user's authority granted by the FCC to operate this radio and should not be made. To comply with FCC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Control Buttons

Use P to:

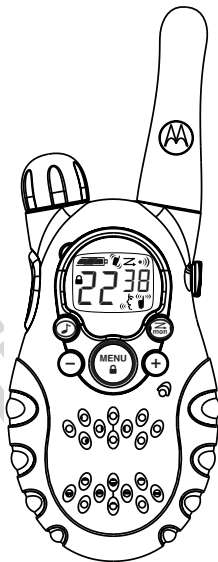
- Turn power on/off
- Adjust volume

LED Indicator Light**Use M to:**

- Talk
- Save a setting

Use ^ to:

- Transmit call tone

Speaker**Use \ to:**

- Lock the keypad (when held down and not in a menu)
- Exit the menu (when pressed while in a menu)

Accessory Jack Cover**Use Q to:**

- Monitor channel activity

Use [] to:

- Scroll through menus

Microphone

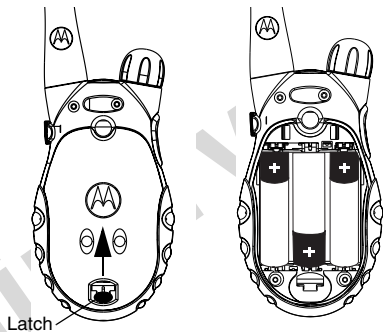
Getting Started

Installing the AA Batteries

Your radio uses 3 AA Alkaline batteries.

1. With the back of the radio facing you, lift the battery latch up to release the battery cover and remove the cover.
2. Insert 3 AA Alkaline batteries as shown on the inside of the battery compartment.
3. Reposition the battery cover and press down to secure.

Note: A NiCd rechargeable battery can be used instead of 3 AA Alkaline batteries. A rechargeable battery upgrade kit, model number 53614, is available. For the dealer nearest you, call 1-800-353-2729 in the USA, or visit our website at www.motorola.com/talkabout.





Installing the NiCd Battery Pack

1. Follow step 1 above to remove the battery cover.
2. Remove the battery pack from the clear plastic bag.
Do not disassemble or unwrap the battery pack.
3. Insert the NiCd battery pack so the metal contacts on the side of the battery are facing outward from the radio to connect with the contacts on the battery door.
4. Reposition the battery cover and press down to secure.



Battery Meter

The battery icon shows the battery charge level, from full  to empty .

When the battery is empty, the radio chirps periodically after releasing .

The radio powers off when the voltage drops below a predetermined level to protect the rechargeable battery.

Note: Remove the batteries before storing your radio for extended periods of time. Batteries corrode over time and may cause permanent damage to your radio.

Using the Desk Stand Charger (Optional Accessory)

The desk stand charger provides drop-in charging convenience for NiCd batteries and can be placed on any flat surface, such as a desk or workbench. Charge the NiCd battery overnight (at least 16 hours) before using it for the first time. After the initial charge, an empty battery is fully charged within 14 hours.

1. Turn the radio off and remove the battery cover.
2. Remove the battery pack from the clear plastic bag.
Do not disassemble or unwrap the battery pack.
3. Insert the NiCd battery pack so the metal contacts on the side of the battery are facing outward from the radio to connect with the contacts on the battery door.
4. Reposition the battery cover and press down to secure.
5. Plug the AC power supply into the plug on the desk stand.
6. Plug the AC power supply into a standard wall outlet.
7. Slide the radio into one of the charging pockets facing forward.

To charge the battery pack separately from the radio:

1. Remove the battery pack from the clear plastic bag.
Do not disassemble or unwrap the battery pack.
2. Insert the battery pack into the charging pocket. Make sure the metal contacts on the side of the battery are making contact with the contacts inside the charger.
3. Plug the AC power supply into the plug on the desk stand.
4. Plug the AC power supply into a standard wall outlet.

Notes

- When moving between hot and cold temperatures, do not charge the battery until the battery temperature acclimates (usually about 20 minutes).

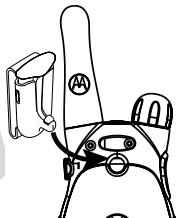
- For optimal battery life, remove the radio or battery from the charger within 16 hours. Do not store the radio in the charger.

Attaching the Belt Clip


1. Align the belt clip post with the hole in the back of the radio.
2. Gently push until the clip clicks into place.

Removing the Belt Clip




1. Push down on the release tab at the top of the belt clip to release the catch.
2. Pull the belt clip away from the back of the radio.





Turning Your Radio On and Off



Turn  clockwise to turn the radio on and counterclockwise to turn the radio off. The radio chirps and the display briefly shows all feature icons available on your radio. The display then scrolls through the available channels and Interference Eliminator Codes.

Setting the Volume

Rotate  while holding down  until you reach a comfortable listening level. Rotate  clockwise to increase or counterclockwise to decrease the volume.

Setting a Channel

Your radio has 22 channels. When the radio is on a 1 watt channel,  displays. When the radio is on a 0.5 watt channel,  displays.


1. With the radio on, press . The current channel flashes.
2. Press  or  to set the channel.
3. Press  to save the channel setting.

Channels and Frequencies

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

Talking and Listening



To communicate, all radios in your group must be set to the same channel (1-22) and Interference Eliminator Code (1-99).

To talk, press and hold . Hold the radio 2 to 3 inches away from your mouth when talking. The LED indicator light glows continuously when transmitting.

When you finish talking, release  (press to talk, release to listen).

Note: Do not use the radios closer than 5 feet apart.

Monitor Button

Pressing and holding  allows you to listen to the volume level of the radio when you are not receiving. This allows you to adjust the volume, if necessary. You can also use  to check for activity on the current channel before you transmit (talk).





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Special Features

Interference Eliminator Codes

Interference Eliminator Codes help minimize interference by providing you with a choice of code combinations.


To set the code for a channel:

1. Press  until the code starts to flash.
2. Press  or  to select the code.
3. Press  to save the code setting.



You can set a different code for each channel using this procedure.

Note: You must set the Interference Eliminator Code to 0 on an FRS radio that uses Interference Eliminator Codes to communicate with other FRS radios that do not have Interference Eliminator Codes.

Push to Talk Timeout Timer

To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press  for 60 continuous seconds.

Keypad Lock

To avoid accidentally changing your radio settings, press and hold  for 3 seconds or until  displays. 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  for 3 seconds or until  is no longer displayed.


Enhanced Scanning

Scanning is used to:


- Monitor channels and codes for transmissions and lock in on one that interests you.
- Find someone in your group who has accidentally changed channels and is talking during your scan.

With enhanced scanning, your home channel is scanned more frequently than any other channel. The home channel is the channel your radio was set to when you started to scan. If you activate scan while your radio's Interference Eliminator Code is set to 0, the radio checks for activity on each channel regardless of the code in use on that channel. If you activate scan while your radio's Interference Eliminator Code is set to 1-99, the radio checks for activity on each channel, but only for codes 1-99. All transmissions using code 0 are ignored.



To start scanning, briefly press and release . The scan indicator  displays and the radio begins to scroll through the channel and Interference Eliminator Code combinations.

When the radio detects activity, it stops scanning and you can hear the transmission on that channel. To respond and talk to the person transmitting, press  within 5 seconds.



To stop scanning, briefly press and release .

Note: If you press  while the radio is scanning, the radio transmits on the channel you selected before you activated scan. If no transmission occurs within 5 seconds, scanning will resume.

Scan Advance

If the radio stops scanning on a channel you do not want to listen to, briefly press and release  or  to resume scanning for the next active channel.

Removing Channels from the Scan List (Scan Delete)

To prevent the radio from scanning a channel, press and hold  or  for at least 3 seconds, then release, when the scan first stops on that channel. This temporarily removes the channel from the scan list. To restore the channel, turn the radio off and then back on.

Note: You cannot remove your home channel from the scan list. The home channel is the channel your radio was set to when you started scanning.

Alerts






Channel Busy Indicator


When a channel is busy, the LED flashes twice per second.

Setting and Transmitting Call Tones

Your radio has 10 different call tones that you can transmit to other radios in your group to alert them that you want to talk.

To set a call tone:





1. With the radio on, press  3 times. The current call tone setting flashes and [R] displays.
2. Press  or  to change and hear the call tone.
3. Press  or  to set the new call tone.

To transmit your call tone to other radios set to the same channel and Interference Eliminator Code as your radio, press .

Note: Setting the call tone to 0 disables the call tone feature.

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.






- To turn talk confirmation on, press and hold  while you turn the radio on. When you release  after transmitting, your call tone transmits and  displays.
- To turn talk confirmation off, turn your radio off and then back on while pressing and holding .

QT Noise Filtering


The QT noise filtering feature helps ensure uninterrupted communication by preventing you from hearing transmissions from other radios. It is useful in places where there is heavy radio traffic, such as at an amusement park or ski resort.

Note: QT noise filtering is not available while the radio is scanning.


To turn QT noise filtering on and off:

1. Press  until **QT** displays.
2. Press  until  displays to turn QT noise filtering on, or  to turn it off.
3. Press  to confirm your selection.

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

1. Select the same channel and Interference Eliminator Code as the other radio.
2. Press  to send a call tone and temporarily open the speaker on the receiving radio.

Now you can transmit and receive as usual.

If you do not transmit or receive for 30 seconds, the QT noise filtering feature will close the speaker on the receiving radio. Press  to open the speaker on the receiving radio again.

VibraCall® Alert (Models T5920 and T5950 Only)

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, then press  to display .
- To turn vibrating alerts off, press  until  is displayed in the same menu.

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Accessories






There are many accessories (sold separately) available for your radio. For more information, refer to the brochure included with your radio, contact the place of purchase, call Motorola at 1-800-353-2729 in the USA or 1-800-739-7834 (TTY), or visit our website at www.motorola.com/talkabout.


Using Audio Accessories

1. Make sure the radio is off.
2. Plug the audio accessory into the accessory port (see page 12 for accessory port location).
3. Turn the radio on. Lower the volume before placing the accessory on your head or in your ear.
4. Press  while rotating  to adjust the volume to a comfortable level.
5. To transmit, press  and speak into the accessory microphone, if any.
6. To receive, release .

Handsfree Use Without Accessories (iVOX)




You can use the radio's iVOX feature to transmit handsfree without the need for any additional voice activation (VOX) accessories. Once this feature is activated, the radio detects your voice and transmits when you speak.

1. Press  until  flashes.
2. Press  or  until  displays.

3. Press  twice to confirm.

Handsfree Use with Accessories (VOX)

You can transmit handsfree with the use of optional accessories. Once this feature is activated, the radio detects your voice and transmits when you speak.

1. Make sure the radio is off.
2. Plug the VOX accessory into the accessory port (see page 12 for accessory port location).
3. Turn the radio volume down, and then turn the radio on.  flashes on the display.
4. Adjust the volume appropriately by pressing  or .

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

To turn VOX off, press  or remove the audio accessory.

Setting the Sensitivity Level

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

1. Press  until  displays.

2. Press \rhd or \lhd to select the sensitivity level:

\beth = **High Sensitivity**
for quiet environments

\beth = **Medium Sensitivity**
for most environments


\lrcorner = **Low Sensitivity**
for noisy environments

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

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- **22 Channels (8 GMRS, 7 GMRS) with 99 Interference Eliminator Codes**
GMRS channels feature increased power for longer range. 14 channels ensure backward compatibility with FRS two-way radios. Eliminator Codes help minimize interference from other groups.
- **Up to 5 mile range***
*Range will vary based on terrain and conditions.
- **VibraCall® Alert)**
Privately alerts you of an incoming call (Models T5920 and T5950 only)
- **Audible Call Tones**
Multiple distinct ringing options so your group can identify who's calling
- **Enhanced Weather Resistance (T5820 only)**
Rubber seals provide added protection against the elements
- **Durable, fixed antenna**
Maximizes talk range
- **Talk Confirmation Tone**
Signals others you are finished talking
- **Keypad Lock**
Prevents your settings from being accidentally changed
- **Priority Scanning**
Easily finds your group's channel and code by searching all combinations
- **Motorola Quality**
Shock, drop, and temperature tested to meet Motorola's high quality standards
- **Talk Handsfree (VOX)**
Voice activation (VOX) lets you talk handsfree when used with optional accessories
- **1 Year Limited Warranty**
To obtain a copy of this warranty prior to purchase, please ask your retailer
- **User's Guide included**
- **Low Battery Alert**
Audible tone and visual display tell you that your battery is running down
- **Quick Release Swivel Belt Clip (included)**
- **Illuminated Display**
Easy to read your settings in dark places

FCC GMRS License Required

 **WARNING CHOKING HAZARD
SMALL PARTS**

Not for children under 3 years.
This product is not intended to be used as a toy or plaything.

Weather Radio (NOAA) – T5950 only

This feature allows the radio to receive weather channels. The radio shall support 8 weather channels. A weather icon is required to indicate that the radio is in weather mode.

- [Weather:1] The Weather channel feature will be activated by pressing and holding the (+) button for 2 seconds or more while in two-way mode. When weather feature is activated a cloud will be displayed on the LCD signifying the weather icon and the speaker will open.
- [Weather:2] While in weather feature a momentary press of the menu button will cause the radio to enter the weather channel selection mode. While in the Weather channel selection mode pressing the (+/-) button will allow you to scroll through the weather channels (1-8).
- [Weather:3] Pressing the menu button again exits the user from the Weather channel selection mode with the selected weather channel back to Weather feature mode.
- [Weather:4] Pressing the (+) button momentarily while in Weather feature mode will cause the radio to exit the weather feature mode to two-way mode.

USA/Canada weather channel frequencies:

WX1 Weather (receive only) – NOAA/Canada	162.550MHz
WX2 Weather (receive only) – NOAA/Canada	162.400MHz
WX3 Weather (receive only) – NOAA/Canada	162.475MHz
WX4 Weather (receive only) – NOAA	162.425MHz
WX5 Weather (receive only) – NOAA	162.450MHz
WX6 Weather (receive only) – NOAA	162.500MHz
WX7 Weather (receive only) – NOAA	162.525MHz
WX8 Weather (receive only) – NOAA	163.275MHz