



MOTOROLA

TALKABOUT

UHF-CB Recreational Two-Way Radio
User's Guide



KEM-PK10668

Model T5509

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 in user guides published prior to December 1, 2002.

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 two-way radio complies with the following RF energy exposure standards and guidelines:

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



Two-way Radio Operation

When using your radio as a traditional two-way radio, **hold the radio in a vertical position with the microphone 1 to 2 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 1 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 1 inch (2.5 cm) from the body.**

Approved Accessories

For a list of approved Motorola accessories, please contact retailer where you purchased this unit from.

Electromagnetic Interference/Compatibility

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

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.

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.

Control Buttons - Model T5509

Use  to:

- Turn radio on/off
- Adjust volume

LED Indicator Light

Use  to:

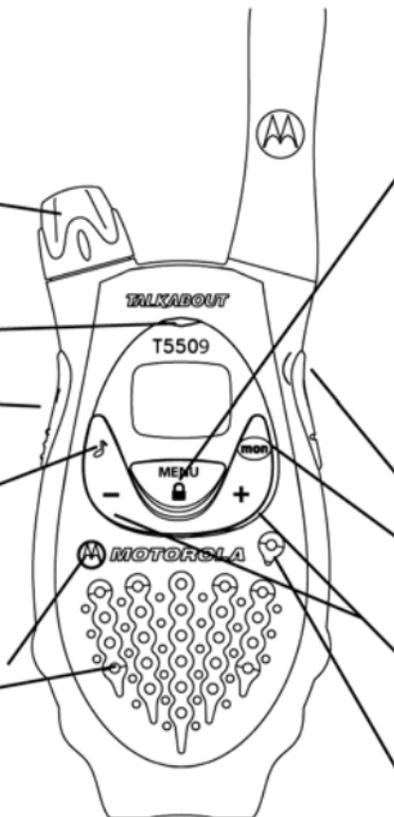
- Talk
- Save a setting

Use  to:

- Transmit call tone

Removeable front cover

Speaker



Use  to:

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

Accessory Jack

Use  to:

- Scan

Use  and  to:

- Scroll through menus

Microphone

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 NiMh batteries and can be placed on any flat surface, such as a desk or workbench. Charge the NiMh 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 NiMh 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. Remove the battery pocket inserts from the charger pockets.
8. With a radio facing forward, slide it into one of the charging pockets.

Setting the Volume

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

Setting a Channel

Your radio has 40 channels* All channels are 1 watt. When the radio is on a 1 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.

* 1-40 channels (channels 22 and 23 are used for Telemetry / Telecommand applications, speech communications are inhibited on these channels)

Talking and Listening

To communicate, all radios in your group must be set to the same channel and Interference Eliminator Code.

To talk, press and hold . Hold the radio 2 to 3 inches away from your mouth when talking.

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

Talk Range

Your radio is designed to maximize performance and improve transmission range. Do not use the radios closer than 5 feet apart.

Checking the Channel Before Transmitting

Your radio has multiple channels shared on a "take turns" basis. For uninterrupted communication, do not talk on a channel if someone else is currently talking on it. To check for activity on a channel before you talk, press and hold  or . If you hear static, the channel is clear to use.

Duplex Mode

The units support the use of repeater in Duplex mode or without the use of repeater in Simplex mode. This Duplex mode is only supported for Channel 1 to Channel 8. When in these channels, press  or  button will trigger between Duplex and Simplex mode.

For example, in channel 1, duplex mode will display:



Simplex mode will display:



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.

Locking the Keypad

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.

Alerts

Channel Busy Indicator

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

Setting and Transmitting Call Tones

Your radio can transmit different call tones to other radios in your group so you can 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  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 .

Notes

- The T5509 model has 10 call tones.
- Setting the call tone to  disables the call tone feature.

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. This allows your voice to pass through the QT noise filter on the receiving radio.
3. 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 QT noise filter.

Note: Channel 5 and 35 do not have the QT feature.

- To transmit, speak into accessory microphone. There is a short delay between the time you start talking and when the radio transmits.
- To receive, stop talking.

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

Handsfree Use Without Accessories (iVox)

You can use the iVox feature to transmit handsfree without the need for any voice activation (VOX) accessories. Once iVOX is turned on, the radio detects your voice and transmits when you speak.

- Turn the radio off.
- Turn the radio on while pressing .  displays.
- To temporarily disable iVox, press .  flashes intermittently.
- To turn off iVox, turn the radio off.

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.

- Press  until  displays.
- Press  or  to select the sensitivity level:

 = **High Sensitivity**
for quiet environments

 = **Medium Sensitivity**
for most environments

 = **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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What Is Not Covered By The Warranty

1. Defects or damage resulting from use of the Product in other than its normal and customary manner or by not following the instructions in this user manual.
2. Defects or damage from misuse, accident or neglect.
3. Defects of damage from improper testing, operation, maintenance, adjustment, or any alteration or modification of any kind.
4. Breakage or damage to aerials unless caused directly by defects in material or workmanship.
5. Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.
6. Defects or damage due to range.
7. Defects or damage due to moisture, liquid or spills.
8. All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal use.
9. Products rented on a temporary basis.
10. Periodic maintenance and repair or replacement of parts due to normal usage, wear and tear.

- **40*** Channels
- **38 Interference Eliminator Codes**
Interference eliminator codes help minimize interference by providing you with a choice of code combinations.
- **Scanning**
Easily finds channel and code by searching all combinations.
- **QT Noise Filter**
Filters out unwanted transmissions in heavy radio traffic areas.
- **Audible Call Tones**
10 call tones
- **Talk Handsfree (VOX, iVOX)**
With Voice Activation (VOX) when used with optional accessories. Or, without an accessory (iVOX).
- **Motorola Quality**
Shock, drop, and temperature tested to meet Motorola's high quality standards.
- **Talk Confirmation Tones**
Signals others you are finished talking.
- **Durable, Fixed Antenna**
Maximizes talk range.
- **1 Year Limited Warranty**
For warranty details, please ask your retailer.
- **Low Battery Alert**
Audible tone and visual display tell you when the battery is running down.
- **Illuminated Display**
Easy to read your settings in dark places.
- **Quick Release Swivel Belt Clip Included**
- **User's Guide Included**

* 1-40 channels (channels 22 and 23 are used for Telemetry / Telecommand applications, speech communications are inhibited on these channels)



**WARNING CHOKING HAZARD
SMALL PARTS**

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

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