

## Two-Way Radio User's Guide



KEM-ML14190-32A

MJ273SR

### For More Information

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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 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 receive calls, release the PTT button.
- To transmit (talk), press the Push to Talk (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).

### 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 regulations.

Do NOT hold the antenna when the radio is "IN USE." Holding the antenna affects its effective range.

#### Body-Worn Operation

To maintain compliances with 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 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 (2.5cm) 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.

### Electromagnetic Interference/Compatibility

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

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

#### 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 onboard 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 6 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.

People with pacemakers should:

- ALWAYS keep the radio more than 6 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 there is 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.

#### Medical Devices – Other

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 regarding the use of radios in the area where you drive, and always obey them. If you do use 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.

The use of a two-way radio while engaged in activities requiring concentration may cause distraction or otherwise impair your ability to safely participate in such activities. Always use technology safely.

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. Only radio types that are especially qualified should be used 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 radios." 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—like 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.

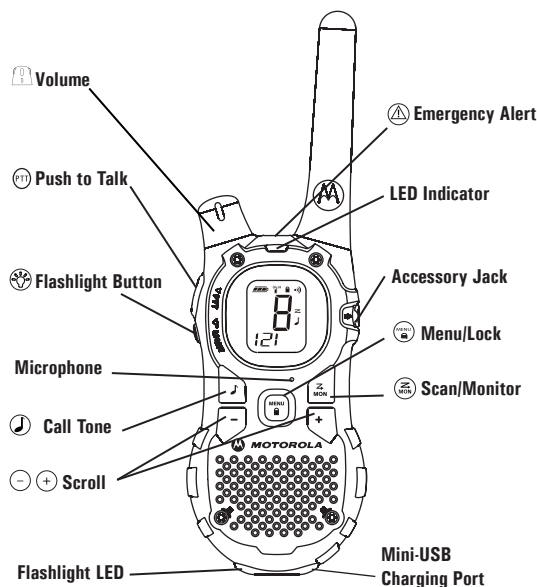
Exercise care when removing NiMH or AA batteries. Do not use sharp or conductive tools to remove either of these batteries.

### Battery Charger Safety Instructions:

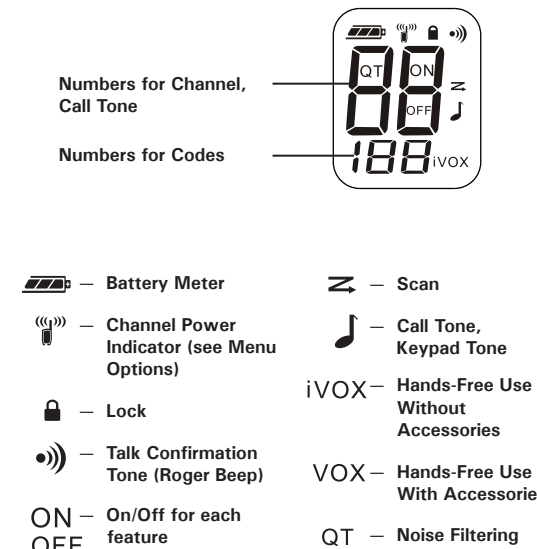
#### Save these Instructions

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 a 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 extension 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 the switching adaptor cannot be replaced. If the cord is damaged, please refer to warranty section.

## Control Buttons



## Display Screen Guide



## Getting Started

### Installing the Batteries

Each radio can use either 1 NiMH rechargeable battery pack or 3 AA alkaline batteries and beeps when the batteries are low.




### Installing NiMH Rechargeable Battery Pack (Supplied)

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery cover latch up and remove the cover.
3. Remove the battery pack from the clear plastic bag (Do not disassemble or unwrap the battery pack).
4. Insert the NiMH battery pack with the diagram facing you.
5. Reposition the battery cover and press down to secure.

### Installing the Three AA Alkaline Batteries(Not supplied)

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery cover latch up and remove the cover.
3. Insert the three AA alkaline batteries with + and - polarity as shown inside.
4. Reposition the battery cover and press down to secure.

### Radio Battery Meter

The radio battery icon shows the battery charge level, from full  to empty . When the radio has one segment left, the radio chirps periodically or after releasing  (Low Battery Alert).

### Removing the NiMH Battery Pack (Supplied )

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery latch up to release the battery cover and remove the cover.
3. Remove the NiMH battery pack by pulling the ribbon attached to the radio.
4. Reposition the battery cover and press down to secure.

### Removing the Three AA Batteries

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery latch up to release the battery cover and remove the cover.
3. Gently remove each battery by easing each battery out individually.
4. Reposition the battery cover and press down to secure.

### Notes

- Exercise care when removing NiMH or AA batteries. Do not use sharp or conductive tools to remove either of these batteries.
- 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 Battery Charger (Supplied)

The battery 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. Follow the steps above to install a NiMH Battery Pack.
2. Plug the switching power supply cord into the jack on the desk stand.
3. Plug the switching power supply into a standard wall outlet.
4. With a radio facing forward, slide it into one of the charging pockets.
5. When charging in the battery charger, the red light on the charger base will glow continuously.

### Using the mini-USB Charging Connector

The mini-USB charging connector is a handy port that allows you to conveniently charge your NiMH battery pack. This is an alternative to charging your NiMH battery pack in the Battery Charger desk stand using the AC wall adaptor and especially useful when used while traveling.



#### Available mini-USB charging options: (optional accessories)

1. Wall travel charger
2. Vehicle charger
3. Mini-USB computer cable

If using a computer, the computer must be turned on.

1. Plug your mini-USB cable or charger into a power source as is appropriate for your accessory.
2. Plug the cable into the mini-USB port on the bottom of your radio.
3. An empty battery will be fully charged in 14 hours.
4. The LED indicator light on the radio will glow to indicate that the battery is charging.

### Notes

- The light will remain red after the NiMH battery pack is fully charged.
- When moving between hot and cold temperatures, do not charge the NiMH battery pack until the battery temperature acclimates (usually about 20 minutes).
- For optimal battery life, remove the radio from the charger within 16 hours. Do not store the radio while connected to the charger.
- If the radio is kept on while charging, the charging time will be extended.
- Even though the charger is connected, you may not be able to transmit a message if the battery is completely empty . Allow time for the battery to charge to 1 bar  before attempting to transmit a message.

### Attaching and Removing the Belt Clip

1. Attach belt clip to pocket or belt strap.
2. Align the belt clip post with the hole in the back of the radio.
3. Gently push until the clip clicks in place.

#### To Remove

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.

1. In the ON position, the radio chirps and briefly shows all feature icons available on the radio.
2. The display screen then shows the current channel, code and all features that are enabled.

### Setting the Volume


Press and hold  for three seconds while rotating  until you reach a comfortable listening level.

1. Rotate  clockwise to increase the volume.
2. Rotate  counterclockwise to decrease the volume.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear.

## Talking and Listening

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



1. To talk, press and hold .
2. When you are finished talking, release .

For maximum clarity, hold the radio two to three inches away from your mouth and speak directly into the microphone. Do not cover the microphone while talking.

### Talk Range

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

### Monitor Button

Pressing and holding  for three seconds 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 press  to check for activity on the current channel before you talk.






### 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.

## Menu Options

### Selecting the Channel






Your radio has 8 channels with nominal transmission power of 0.5W. (See the "Channels and Frequencies" table on overleaf for details.)



1. With the radio on, press . The current channel flashes.
2. Press  or  and select an unused or quiet channel.
3. Press  to save the channel setting or  to continue set up.

### Selecting the Interference Eliminator Code

Interference Eliminator Codes help minimize interference by blocking transmissions from unknown sources. Your radio has 121 Interference Eliminator Codes. Codes 1 – 38 are the standard analog codes radios. Codes 39 – 121 are additional digital codes added for superior interference protection. 0 is the off position, no analog or digital codes are enabled.

#### 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 or  to continue set up.







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.


**Note:** You must set the Interference Eliminator Code to 0 on a radio that uses Interference Eliminator Codes to communicate with radios that do not have Interference Eliminator Codes. Select 0 for "no tone, no code" and OFF will flash on your radio's display.

### 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. You have 10 call tones from which to choose.

#### To set a call tone:

1. With the radio on, press  three times until the current call tone setting (0 - 10) flashes and  appears.
2. Press  or  to change and hear the call tone.
3. Press  to set the new call tone or  to continue set up.

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 to 0 disables the call tone feature.

### Hands-Free Use Without Accessories (iVOX)

You can use the iVOX feature to transmit hands-free without the need for any headset accessories. Once iVOX is turned on, the radio detects your voice and transmits when you speak into the internal microphone.

- 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 website at [www.motorolasolutions.com/talkabout](http://www.motorolasolutions.com/talkabout).

- 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 or iVOX 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/iVOX 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.

<b>3 = High Sensitivity</b> for quiet environments
<b>2 = Medium Sensitivity</b> for most environments
<b>1 = Low Sensitivity</b> for noisy environments

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

**Q: Noise Filtering**

The **Q:** 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:** **Q:** noise filtering is not available when the radio is scanning.

*To turn **Q:** noise filtering on or off:*

- Press **⏻** until displays **QT**. 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 **Q:** 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 **Q:** 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 **Q:** noise filter.

**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.

- 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 quit menu mode.

## Special Features

**Emergency Alert Mode**

The Emergency Alert function can be used to signal others in your group of your need for immediate help. All radios in your group using the same channel and interference eliminator code can receive the message.

MJ273SR radios will automatically advance the speaker volume to a loud setting (the maximum rated output level), regardless of the volume control position. A unique alert tone will be emitted from the receiving radios and heard by your group. The alert tone is also emitted from your own radio speaker to attract attention in your vicinity. Any spoken words or incidental sounds will be transmitted to others. MJ273SR radios will be

operating in an automatic “hands free” emergency transmission control mode for a total of 30 seconds. For the duration of the emergency alert, your radio will be locked into a transmitting mode and the other MJ273SR in your group will be locked into a receiving mode to help ensure the receipt of your emergency message.

- Press and hold the Emergency Alert button for 3 seconds.
- An alert signal will be transmitted for 8 seconds to alert other receivers.
- Your voice or incidental sounds will be transmitted for 22 seconds. There is no need to continue to hold the Emergency Alert button or use the PTT button for your message to be transmitted.
- After 30 seconds your radio will return to normal two-way mode. MJ273SR radios will automatically return to the initial volume setting as controlled by the volume knob. Both the sender and the receiver will again be able to talk to each other using the PTT or VOX methods of transmission control.

**Note:** MJ273SR radio can receive the emergency alert signal but will not respond with adjusted volume steerings, controlled transmission mode or unique alert tone. Users of other radio will hear a steady 8 second tone and the 22 second voice transmissio.

**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 the flashlight button to turn 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 8 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 8 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 7 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.

## Warranty

**Consumer Two-Way Radio Products and Accessories purchased in Singapore.**

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**What Does this Warranty Cover?**

This Limited Warranty is a consumer’s exclusive remedy, and applies as follows to new Motorola branded products, accessories and software manufactured, distributed and sold by Giant Telecom Ltd. Alcom is the local distributor in Singapore, and warrants Motorola Two-Way Radio Products and Accessories (collectively "Equipment") purchased in Singapore against defects in material and workmanship under normal use and service, for the following periods of time:

**Proof of Purchase:** You are required to provide proof of purchase as a condition of receiving warranty services. You are entitled to a replacement or repair according to the terms and conditions of this Limited Warranty if your product is found to be faulty within the Warranty Period. This Limited Warranty extends to the original purchaser only and is not transferable.

Products Covered	Warranty Period	Exclusions
<b>Equipment</b> as defined above, unless otherwise provided for below.	<b>One (1) year</b> from the date of purchase by the original consumer purchaser of the Equipment unless otherwise provided for below.	<b>Normal Wear and Tear.</b> Periodic maintenance, and repair and replacement of parts due to normal wear and tear, are not covered by this Limited Warranty. <p><b>Batteries.</b> Motorola supplied batteries will be replaced free of charge within the first six (6) months of the date of purchase of the Equipment if the capacity of the batteries falls below 80% of their rated capacity, or if the batteries develop a leak.</p> <p><b>Abuse &amp; Misuse.</b> 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 Equipment 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 Equipment for commercial purposes or subjecting the Equipment to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola Solutions Inc., or Giant Telecom Ltd., or Alcom Electronics Pte Ltd., are not covered by this Limited Warranty.</p> <p><b>Use of Non-Motorola branded Products and Accessories.</b> Defects or damage that result from the use of non-Motorola branded or certified products, accessories, software or other peripheral equipment are not covered by this Limited Warranty.</p> <p><b>Unauthorized Service or Modification.</b> Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola Solutions, Inc., Giant Telecom Ltd., Alcom Electronics Pte Ltd. or their authorized service centres, are not covered by this Limited Warranty.</p> <p><b>Altered Equipment.</b> Equipment with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or seals that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola branded housings, or parts, are not covered by this Limited Warranty.</p> <p><b>Communication Services.</b> Defects, damage, or failure of the Equipment due to any communication service or signal you may subscribe to or use with the Equipment are not covered by this Limited Warranty.</p> <p><b>Equipment Purchased Outside of Singapore.</b> This Limited Warranty does not extend to any Equipment which was purchased outside of Singapore.</p>
<ol style="list-style-type: none"><li><b><u>Decorative Accessories and Cases.</u></b> Decorative covers, bezels, PhoneWrap covers and cases.</li></ol>	<ol style="list-style-type: none"><li>Limited lifetime warranty for the lifetime of ownership by the original consumer purchaser of the decorative accessory or case.</li></ol>	
<ol style="list-style-type: none"><li><b><u>Consumer Two-Way Radio Accessories.</u></b></li></ol>	<ol style="list-style-type: none"><li>Thirty (30) days from the date of purchase by the original consumer purchaser of the two-way radio accessory.</li></ol>	
<ol style="list-style-type: none"><li><b><u>Products and Accessories that are Repaired or Replaced.</u></b></li></ol>	<ol style="list-style-type: none"><li>The balance of the original warranty or for thirty (30) days from the date the products or accessories are returned to the consumer, whichever period is longer.</li></ol>	

**Who is covered?**

This Limited Warranty applies only to the original consumer purchaser of the Equipment, and is not transferable.

**What will Alcom Electronics do?**

Alcom Electronics, at its option, will at no charge either repair, or replace any defective Equipment during the applicable Warranty Period. Alcom Electronics may use functionally equivalent, reconditioned, refurbished, pre-owned or new Equipment or parts at its discretion. No data, software or applications added to Equipment, including but not limited to personal contacts, games and ringer tones, will be reinstalled. To avoid losing such data, software and applications, customers are advised to create a back up prior to requesting service.

How do we obtain Warranty Service or Other Information?

To obtain warranty service or information, please call:

Singapore
<p><b>Alcom Electronics Pte Ltd.</b>  <b>Hotline:(65) 6841 2668</b>  <b>FAX: (65)6841 2628</b>  <b>E-MAIL: support@alcom.com.sg</b></p>
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**What Other Limitations Are There?**

TO THE EXTENT PERMITTED BY LAW, ALL CONDITIONS, WARRANTIES AND TERMS NOT EXPRESSLY CONTAINED IN THIS LIMITED WARRANTY ARE EXCLUDED.

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OF IMPLIED. IN NO EVENT SHALL MOTOROLA SOLUTIONS, INC., GIANT TELECOM LTD., OR ALCOM ELECTRONICS PTE LTD. BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE EQUIPMENT, OR ANY SOFTWARE, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, SOFTWARE OR APPLICATIONS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE EQUIPMENT, OR ANY SOFTWARE, TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

Some states and jurisdictions do not allow the limitation or exclusion of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from state to state or from one jurisdiction to another.