



Two-Way Radio User's Guide



KEM-ML36100-15

MS350 Series

The MS350R is approved for use in the US only.



This radio floats with included NiMH battery.
It may not float with some AA batteries.

For More Information

For further information, you may call Motorola at 1-800-638-5119, e-mail us at giantintl@callcenter.com or visit us on the Internet at www.motorola.com.

Safety and General Information

Important Information on Safe and Efficient Operation

Read This Information Before Using The 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

This 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).

Exposure to Radio Frequency Energy

This 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.
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992.
- Institute of Electrical and Electronics 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 Radiofrequency Electromagnetic Fields in the Frequency Range from 3 KHz to 300 GHz, 1999.
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation—Human Exposure) Standard, 2003.
- ANATEL ANNEX to Resolution No. 303 of July 2, 2002.
- ANATEL ANNEX to Resolution No. 533 of September 10, 2009.

To ensure 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 its effective range.

Body-Worn Operation

To maintain compliances with FCC 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 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 one inch (2.5 cm) from the body.**

Approved Accessories

- 53724: Remote Speaker with Push-to-Talk Microphone
- 53725: Headset with Swivel Boom Microphone
- 53727: Ear bud with Push-to-Talk Microphone
- 53728: Flexible Ear Receiver
- 56320: Earpiece with Boom Microphone

Electromagnetic Interference/Compatibility

Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility. This device complies with Part 15 of the FCC Rules. 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 the 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 the 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 the 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 the 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 the 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

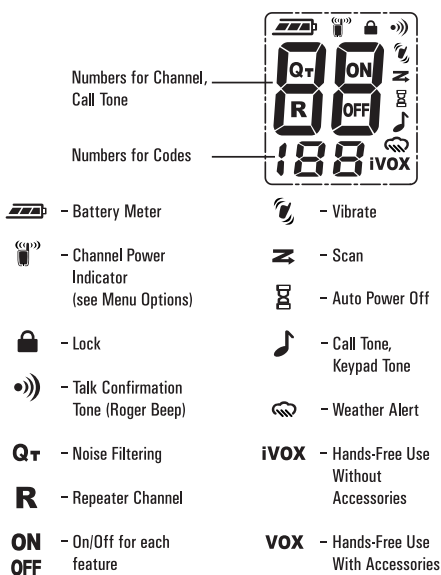
1. Do not expose the charger to rain or snow.
2. Do not operate or disassemble the charger if it has received a sharp blow, or has been dropped or damaged in any way.
3. Never alter the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by a 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 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 AC adaptor cannot be replaced. If the cord is damaged, call customer service at 1-800-638-5119 or e-mail us at giantintl@callcenter.com.

Control Buttons



Display Screen Guide



FCC Licensing Information

This 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 visit the FCC's Web site at wireless.fcc.gov/uls/index.htm?job=home to source form 605 and 159, which includes all the instructions you will need. If you wish to have the document faxed or mailed, or if you have questions, please use the following contact information:

For a fax: Contact the Fax-On-Demand system	For mail service: Call the FCC Forms Hotline	If you have questions about the FCC License: Call the FCC
1-202-418-0177	1-800-418-FORM (3676)	1-888-CALL-FCC (225-5322)

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.

Getting Started

Waterproof

This radio is waterproof to IP-67 standards. It will withstand submersion under up to 1 meter of water for up to 30 minutes. The radio is resistant to water, rain, and splashes only when the battery cover and headset accessory port are sealed. Open the battery compartment door or headset port cover only when the radio is dry. Use of a headset accessory should be in dry environments only.

The charging base and AC adaptor are not waterproof. Do not expose the charger to rain or snow. Charge the radios only in a dry location. Do not place wet radios into the charging base.

Installing the Batteries

Radio floats with included NiMH battery. It may not float with some AA 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 (Optional Accessory)

1. Turn the radio off.
2. With the back of the radio facing you, loosen the retaining screw on the battery door and open the cover.
3. Remove the NiMH 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. (The ribbon should be underneath the battery pack and should wrap around the right side of the pack for easy removal.)
5. Close the battery cover and tighten the retaining screw on the battery door.

Installing the Three AA Alkaline Batteries

1. Turn the radio off.
2. With the back of the radio facing you, loosen the retaining screw on the battery door and open the cover.
3. Insert the three AA alkaline batteries with + and - polarity as shown inside. (The ribbon should be underneath the AA alkaline batteries and should wrap around the right side of the batteries.)
4. Close the battery cover and tighten the retaining screw on the battery door.

Caution: Radio may not float with some AA batteries installed.

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 (Optional Accessory)

1. Turn the radio off.
2. With the back of the radio facing you, loosen the retaining screw on the battery door to release the battery cover and open the cover.
3. Remove the NiMH battery pack by pulling the ribbon attached to the radio.
4. Close the battery cover and tighten the retaining screw on the battery door.

Removing the Three AA Alkaline Batteries

1. Turn the radio off.
2. With the back of the radio facing you, loosen the retaining screw on the battery door, release the battery cover and open the cover.

3. Gently remove each alkaline battery by easing each battery out individually.
4. Close the battery cover and tighten the retaining screw on the battery door.

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 the radio for extended periods of time. Batteries corrode over time and may cause permanent damage to the radio.
- The battery door must be tightly closed with the screw to maintain the waterproof seal of the radio.

Using the Battery Charger (Optional Accessory)

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 AC power supply cord into the jack on the desk stand.
3. Plug the AC 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.

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.
- When the radio is wet from rain or snow, thoroughly dry the surface before charging or removing the batteries.

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 the Radio On and Off

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

Press and hold for 3 seconds to turn the radio on. Press and hold for 3 seconds to turn the radio off.

Setting the Volume

Press and hold for 3 seconds, then press the or keys until you reach a comfortable listening level.

The MS350 has 16 volume levels controlled by the keys.

1. Press to increase volume.
2. Press to decrease volume.
3. Hold or to rapidly increase 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

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

Power Boost

To boost the radio's power up to high power, press the top portion of the button when talking. If you know your party is close by, you can conserve the battery's energy by pushing the lower part of the button to use less power.

Note: If you are on an FRS only channel (see "Channels and Frequencies" tables on overleaf for details) the radio will only use low power when either portion of the is pressed.

Monitor Button

Use the Monitor function to check if a channel is currently in use by others. For maximum range performance, the Monitor function will also help you to hear signals that are weak.

To latch the Monitor function on, Press and hold for three seconds. When an empty channel is located, you will hear continuous static and noise on that channel.

To turn the Monitor function off, tap a second time or press .

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

There are 12 options you may set to your preferences. Each press of the MENU key advances you to the next option setting. Press the or keys to change the setting. The menu will automatically close 5 seconds after the last press of any button. After the last menu item, the radio exits MENU mode and returns to operation of the radio. A press of the button while setting any menu option will immediately save all your settings and return to operation of the radio.

All MENU settings will revert back to the factory default values if the battery is fully discharged or removed for more than 30 seconds.

Menus and Values

1. Channel (1-22 and 15R-22R)
2. Interference Eliminator Code (1-121 or OFF)
3. Call Tone (1-10 or OFF)
4. iVOX (ON/OFF)
5. VOX sensitivity (1-3)
6. QT Noise Filtering (ON/OFF)
7. VibraCall (ON/OFF)
8. Keypad Tones (ON/OFF)
9. Talk Confirmation Tone (ON/OFF)
10. Auto Power Off (30/60/90 minutes or OFF)
11. Repeater Channel Enable (ON/OFF)
12. Repeater Transmitted Interference Eliminator Code

Selecting the Channel

This radio has 22 simplex channels plus 8 repeater duplex channels. Channels are shared by other radio users and channel selection will vary based on your location. Select a channel that is not being used from the 22 available simplex channels. Channels 8-14 are low power (FRS 0.5 watt). All other channels are GMRS.

When the radio is on a FRS 0.5 watt channel, displays. When the radio is on a GMRS 1.5 watt channel, displays.

The 8 GMRS repeater duplex channels 15R – 22R are disabled by default. See "Enabling Repeater Channels" on overleaf in order to select a repeater channel.

See the "Channels and Frequencies" tables on overleaf for details on channel frequencies.

1. Press . The current channel setting flashes.
2. Press or and select the channel.
3. Press to save the channel setting or to continue set up.

Selecting the Interference Eliminator Code

This radio has 121 Interference Eliminator Code settings. When a channel is in use by 2 or more groups, this feature blocks the reception of signals that do not carry the matching tone or code. There are 121 privacy codes. 0 is the off position, no codes are enabled, and all users of that channel will be heard.

See the "Interference Eliminator Tone / Code Values" table on overleaf for details on tone frequencies and code values.

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 rapidly so you can quickly reach the code you want.

This menu setting for repeater channels 15R-22R is used for receiving only. The value must match with the repeater output. Many repeaters will require a value of 0 or OFF. The transmitted code is set separately and is often required for repeater access. See "Selecting the Repeater Access (TX) Code" on overleaf for additional information.

Note: You must set the Interference Eliminator Code to 0 to communicate with radios that do not have Interference Eliminator Codes.

Setting and Transmitting Call Tones

This radio can transmit different call tones to other radios in your group so you can alert them that you want to talk. The radio has 10 call tones from which to choose.

To set a call tone:

1. Press until the current call tone setting 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 tone 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.

1. Press until iVOX appears on the display. The current setting On/Off will flash.
2. Press or to select On or Off.
3. 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 this radio. For more information, visit our Web site at www.motorola.com or shop.giantintl.com.

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

Notes:

- 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.
- The accessory port cover must be tightly in place to maintain the water tight seal of the radio.

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.

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

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

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

Q_T Noise Filtering

The Q_T 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_T noise filtering is not available when the radio is scanning.

To turn Q_T noise filtering on or off:

1. Press until Q_T displays. The current setting On/Off will flash.
2. Press or to turn noise filtering On or Off.
3. Press to confirm your selection or to continue set up.

To transmit to a radio that has Q_T 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 Q_T 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 Q_T noise filter.

VibraCall™ Alert

VibraCall™ is a vibrating alert that notifies that the 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.

1. To turn vibrating alerts on, press until is displayed. The current setting will flash.
2. Press or to change the setting to On/Off.
3. 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.

1. Press until appears. The current setting On/Off will flash.
2. Press either or to turn On or Off.
3. 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 this 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.

1. Press until the appears. The current setting On/Off flashes.
2. Press or to turn On or Off.
3. Press to set or to continue setup.

Auto Power Off

Your radio will save power by automatically turning itself off if unused after a predetermined amount of time.

1. Press until displays. The current setting (0, 30, 60 or 90) will flash.
2. Press or to set the time to 30 minutes, 60 minutes or 90 minutes. When this feature is activated, the will remain on the display.
3. When you exit the Menu mode, the timer will begin. If a button is pressed, or if there is an incoming signal, the timer will restart.
4. Press to confirm or to continue set up.

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.

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.

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.

Products Covered	Length of Coverage	Exclusions
<p>Products and Accessories as defined above, unless otherwise provided for below.</p> <ol style="list-style-type: none"> 1. <u>Consumer Two-Way Radio Accessories.</u> 2. <u>Products and Accessories that are Repaired or Replaced.</u> 	<p>One (1) year from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below.</p> <ol style="list-style-type: none"> 1. Ninety (90) days from the date of purchase by the first consumer purchaser of the product. 2. The balance of the original warranty or for ninety (90) days from the date returned to the consumer, whichever is longer. 	<p>Normal Wear and Tear. Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.</p> <p>Batteries. Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this limited warranty.</p> <p>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, heavy perspiration, when the battery door or accessory port seals are not closed, 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>

What Other Limitations Are There?

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 OR IMPLIED. IN NO EVENT SHALL MOTOROLA OR GIANT INTERNATIONAL LTD. BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR ACCESSORY, 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 OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES 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 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.

Patent and Copyright Information

Manufactured, distributed or sold by Giant International Ltd., official licensee for this product. MOTOROLA, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. ©2011 Motorola, Inc. All rights reserved.