Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MOTOROLA HANDY MOTOROLA MOD. K7GEM1000. You'll find the answers to all your questions on the MOTOROLA HANDY MOTOROLA MOD. K7GEM1000 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MOTOROLA HANDY MOTOROLA MOD. K7GEM1000
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MOTOROLA TALKABOUT

Two-Way Radio
User's Guide

KEM-PK14190-67 **EM1000 Series**

For More Information

For further information, you may call Motorola at 1-800-638-5119 (U.S. and Canada), or e-mail us at giantinfo@calicanter.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 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).

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.
- 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 "Regulation of limitation of exposure to electrical, magnetic and electromagnetic fields in the radio frequency range between 9KHz and 300GHz" and "Attachment to resolution 303 from July 2, 2002".

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 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 one inch (2.5 cm) from the body.**

Approved Accessories

For a list of approved Motorola accessories, visit our Web site at www.motorola.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. 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 your radio in any facility where posted notices instruct you to do so. Hospital 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 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 radios 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 AC adaptor cannot be replaced. If the cord is damaged, call customer service at 1-800-638-5119 (U.S. and Canada) or e-mail us at giantinfo@calicanter.com.

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 Form 605 and 159, which includes all of the forms and 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:

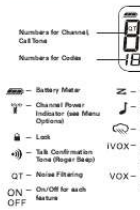
For a fax: Contact the Fax-On-Demand system	For mail service: Call the FCC Forms Hotline	If you have questions about the FCC License: Call the FCC
1-202-418-0177	1-800-418-FORM (3676)	1-888-CALL-FCC (225-5322)

You may also visit the FCC's Web site at 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 repair in the private land mobile and fixed services as certified by an organization representative of the user of these services. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

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 (Optional Accessory)

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

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 (Optional Accessory)

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 (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 hour) 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.

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.

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

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 acclimatizes (usually about 20 minutes).
- For optimal battery life, remove radio from the charger within 16 hours. Do not store the radio while connected to the charger.
- Turn radio off while charging.

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

Pressed 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 22 channels. Channels 8-14 are FRS 0.5 watt only and all other channels are GMRS (See the "Channels and Frequencies" table on overleaf for details).

1. With the radio on, press . When the radio is on a 0.5 watt channel, displays. When the radio is on a 1.5 watts channel, displays. 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 that appear on other FRS/GMRS 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 (VOX)

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

1. Press until 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 your radio. For more information, visit our Web site at www.motorola.com or shop.giantnet.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 rotating . Lower the volume before placing the accessory on your head or in your ear.
4. 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.

Continued on back
EM1000

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Manual abstract:

motorola.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. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 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. @@@@@@@@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 AC adaptor cannot be replaced. If the cord is damaged, call customer service at 1-800-638-5119 (U.S. and Canada) or e-mail us at giantintl@callcenter.com. Control Buttons Volume Emergency Alert 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 (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. Follow the steps above to install a NiMH Battery Pack.

Plug the AC power supply cord into the jack on the desk stand. Plug the AC power supply into a standard wall outlet. 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. This and other accessories (sold separately) are available for your radio. @@1. 2. 3. 4. 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. Push to Talk LED Indicator Flashlight Button Microphone Accessory Jack Menu Options Selecting the Channel Your radio has 22 channels. Channels 8-14 are FRS 0.5 watt only and all other channels are GMRS (See the "Channels and Frequencies" table on overleaf for details).

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5 displays. When the radio is on a 1.5 watts displays. The current channel flashes. and select an unused or quiet channel. to continue set up. to save the channel setting or Menu/Lock Call Tone Scan/Monitor Scroll/Weather Flashlight LED Mini-USB Charging Port Display Screen Guide KEM-PK14190-67 EM1000 Series 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.

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Turn the radio OFF immediately if there is any reason to suspect that interference is taking place. Numbers for Channel, Call Tone Numbers for Codes 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 that appear on other FRS/GMRS radios. @@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. @@@@@@@@You have 10 call tones from which to choose. To set a call tone: 1. With the radio on, press 2. @@@@@@@@@· To receive calls, release the PTT button. · To transmit (talk), press the Push to Talk (PTT) button. @@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. · 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 "Regulation of limitation of exposure to electrical, magnetic and electromagnetic fields in the radio frequency range between 9 KHz and 300GHz" and "Attachment to resolution #303 from July 2, 2002". 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 procf 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 aree channels five seconds after the end of any received activity. 6. To stop scanning, briefly press the key. Scanning Notes: 1. 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. 2. If the radio stops on an undesired transmission, you may immediately resume the scan by briefly pressing or . 3. 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.

4. 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 . 5. You cannot remove the home channel from the scan list. 6. In Advanced Scan, the detected code will only be used for one transmission. You must note the code, exit scan, and set that detected code on that channel to permanently use the detected code. Weather Receiver Your radio can tune in to broadcasts by the United States National Oceanic and Atmospheric Administration (NOAA) Weather Radio and Environment Canada Weatheradio. You can listen to a weather channel (see "Weather Channels and Frequencies" table below) or set your radio to alert you to emergency weather broadcasts that interrupt routine broadcasts. When you listen to a weather channel, you cannot use your radio in scan mode or for two-way communications.

@@@@@@@@@Turning Weather Channel Reception On and Off 1. To turn weather reception on, press and hold for 3 seconds. 2. To turn off, press or turn the radio off and then back on. @@After turning weather reception on, press .

The current channel flashes. 2. @@3. Press to save the weather channel setting. @@@@1.

After turning weather reception on, press twice. On/Off displays. 2. Press or to select On/Off. If you activate Weather Alert and return to two-way mode, 3. Press will display. @@What Does this Warranty Cover? @@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 or Canada, which are accompanied by this written warranty: Products Covered Products and Accessories as defined above, unless otherwise provided for below. 1.

Decorative Accessories and Cases. Decorative covers and cases. 2. Monaural Headsets. Ear buds and boom headsets that transmit mono sound through a wired connection. 3. Consumer Two-Way Radio Accessories. Length of Coverage One (1) year from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below. 1. Limited lifetime warranty for the lifetime of ownership by the first consumer purchaser of the product. 2. Limited lifetime warranty for the lifetime of ownership by the first consumer purchaser of the product. 3. Ninety (90) days from the date of purchase by the first consumer purchaser of the product. 4.

The balance of the original warranty or for ninety (90) days from the date returned to the consumer, whichever is longer. Exclusions Normal Wear and Tear. Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.

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Batteries. Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this limited warranty. Abuse & Misuse. Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola or Giant International Ltd., are excluded from coverage. Use of Non-Motorola branded Products and Accessories. Defects or damage that result from the use of Non-Motorola branded or certified Products, Accessories, Software or other peripheral equipment are excluded from coverage. Unauthorized Service or Modification. Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola, Giant International Ltd. or its authorized service centers, are excluded from coverage. Altered Products.

Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola branded housings, or parts, are excluded from coverage. Communication Services. Defects, damages, or the failure of Products or Accessories due to any communication service or signal you may subscribe to or use with the Products or Accessories is excluded from coverage. 3 = High Sensitivity for quiet environments 2 = Medium Sensitivity for most environments 1 = Low Sensitivity for noisy environments Note: When you connect a headset, the radio is automatically set to the last chosen sensitivity level. QT Noise Filtering The QT 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: QT noise filtering is not available when the radio is scanning. To turn QT noise filtering on or off: 1. Press until displays.
The current setting On/Off will flash. 2. Press 3. Press or to turn noise filtering On or Off. to continue set up.
to confirm your selection or 4. Products and Accessories that are Repaired or Replaced. 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. @@@@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 or appears. The current setting On/Off will flash. to turn On or Off.

2. Press either Who is covered? @@What will GIANT INTERNATIONAL LTD. do? @@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 Canada Two-Way Radios 1-800-638-5119 giantintl@callcenter.com 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 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. 1.
With the radio on, press until the setting On/Off flashes. 2. Press or to turn On or Off. 3. Press to set or appears.
The current 4. Press to return to two-way mode. @@@@@@@@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.
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 OF 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. 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. EM1000 series 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. EM1000 series 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 EM1000 radios in your group will be locked into a receiving mode to help ensure the receipt of your emergency message.

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1. Press and hold the Emergency Alert button for 3 seconds. 2. An alert signal will be transmitted for 8 seconds to alert other receivers. 3. 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. 4. After 30 seconds your radio will return to normal two-way mode. EM1000 series 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.

Channels and Frequencies Channel Frequency 1 2 3 4 5 6 7 8 9 10 11 Description Channel 12 13 14 15 16 17 18 19 20 21 22 Frequency 467.6625 MHz 467.6875 MHz 467.7125 MHz 462.5500 MHz 462.

5750 MHz 462.6000 MHz 462.6250 MHz 462.6500 MHz 462.6750 MHz 462.7000 MHz 462.7250 MHz Description FRS FRS FRS GMRS GMRS GMRS GMRS GMRS GMRS GMRS GMRS GMRS Patent and Copyright Information Manufactured, distributed or sold by Giant International Ltd., official licensee for this product. Motorola, the Stylized M Logo, and other Motorola trademarks and trade dress are owned by Motorola, Inc. and are used under license from Motorola, Inc.

MOTOROLA and the Stylized M Logo are registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. ©Motorola, Inc. 2008. All rights reserved. Please contact customer service at 1-800-638-5119 or e-mail us at giantintl@callcenter.com for questions/comments, warranty, support or service related to this product. 462.5625 MHz GMRS/FRS 462.5875 MHz GMRS/FRS 462.

6125 MHz GMRS/FRS 462.6375 MHz GMRS/FRS 462.6625 MHz GMRS/FRS 462.6875 MHz GMRS/FRS 462.7125 MHz GMRS/FRS 467.

5625 MHz 467.5875 MHz 467.6125 MHz 467.6375 MHz FRS FRS FRS FRS Weather Receiver EM1000 .

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