

# Owner's Manual

**Model G-223****GMRS/FRS Radio****FEATURES**

22 Channels

Scan

22 Key Pad Lock

Call Alert

Power HI/LO

Roger Beep Tone

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device does not cause harmful interference, and (2) this radio must accept any interference received, including interference that may cause undesired operation.

To maintain compliance with FCC's RF exposure guidelines, this transmitter and its antenna must maintain a separation distance of at least 2 inches from your body. To transmit, hold the radio with the antenna pointed up and away from your face, with the radio at least 2 inches from your face. Speak in a normal voice into the microphone.

**Use and Care**

1. **Do not** use alcohol or cleaning solutions to clean the radio.
2. **Do not** immerse the radio in water.
3. Use a soft damp cloth to clean the radio
4. Dry the radio with dry lint-free cloth should it get wet.
5. Turn off the radio and remove the batteries during long-term storage.

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**Accessories** – Accessories can be purchased at [www.midlandradio.com](http://www.midlandradio.com) or fill in the form on the following page and mail it to our address.

**AVP-2**

- One Dual Desk Charger
- 2 Rechargeable battery packs
- 1 AC Adapter
- **\$39.95**



## ACCESSORIES ORDER FORM

Please send Money Order or fill in Visa/Master Card information and mail to the address below. Please DO NOT sent cash or checks. Make Money Order to Midland Radio Corporation.

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_  
Tel: \_\_\_\_\_ email: \_\_\_\_\_  
CC# \_\_\_\_\_ Type: \_\_\_\_\_ Exp. \_\_\_\_\_

| Qty | Item  | Price   | Total |
|-----|-------|---------|-------|
|     | AVP-2 | \$39.95 |       |

Sub-Total \_\_\_\_\_  
Tax (MO, CO, IL, FL only) \_\_\_\_\_  
S&H (U.S. only) \$ 8.95  
Total \$ \_\_\_\_\_

**Mail To:**  
Midland Radio Corporation  
Consumer. Dept.  
1120 Clay St.  
N. Kansas City MO 64116  
-----  
Or Call 816.241.8500.  
-----  
To order online go to  
www.midlandradio.com

<http://www.midlandradio.com>

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## Introduction

Your G-223 represents the state-of-the-art in high-tech engineering. Designed for General Mobile Radio Service operation, this compact package is big in performance. It is a quality piece of electronic equipment, skillfully constructed with the finest components. The circuitry is all solid-state and mounted on a rugged printed circuit board. Your G-223 is designed for reliable and trouble-free performance.

## FCC Licensing Information

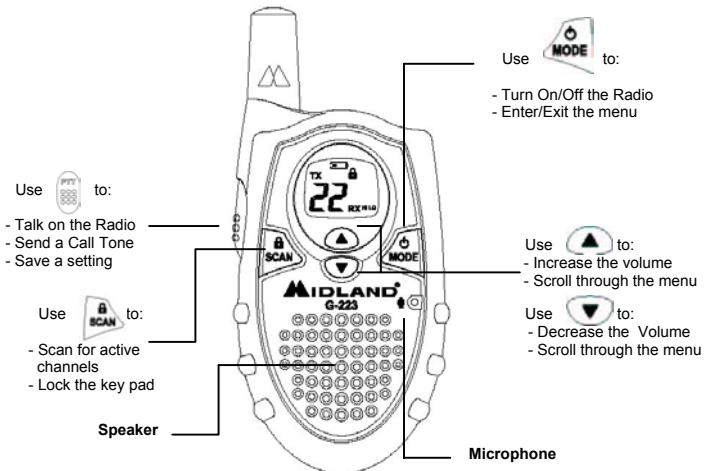
Your G-223 operates on General Mobile Radio Service (GMRS) frequencies and is subject to the Rules and Regulations of the Federal Communications Commission (FCC). The FCC requires that all operators using General Mobile Radio Service (GMRS) frequencies obtain a radio license before operating their equipment for business, personal or recreational use. A GMRS license held by an individual may be shared by immediate family members. To obtain the application form, call the FCC forms hotline at 1-800-418-3676 or go to <http://www.fcc.gov>. Please request forms **605** and **159** which include all necessary forms and instructions. For questions concerning licensing, please contact the FCC at 1-888-CALL-FCC (1-888-225-5322), or go to <http://www.fcc.gov/wtb/prs/genmb1.html>.

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## Control Buttons & Indicators

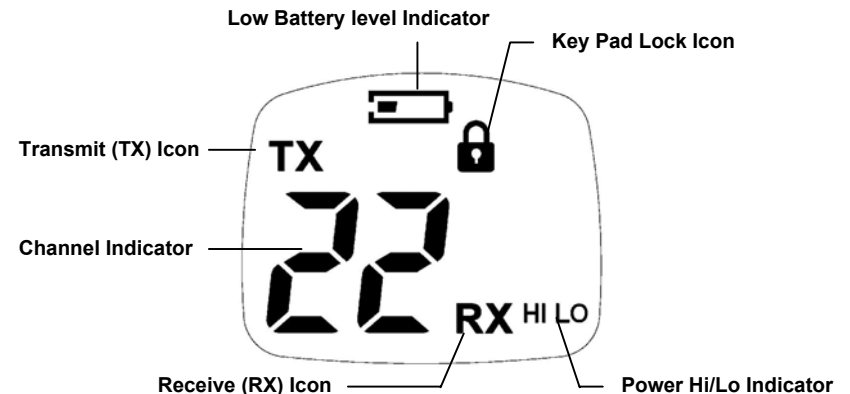


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## LCD Display



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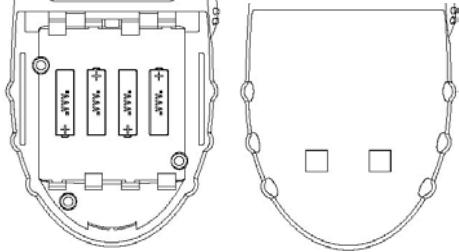
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### Installing Batteries

Your G-223 radio operates with either 4 AAA Alkaline Batteries or optional NiMH battery pack. The belt clip should be removed (page 15) to ease installation or removal. To install the batteries:

1. With the back of the radio facing you, remove the Battery Cover by sliding it down from the unit.
2. Insert 4 AAA batteries observing the polarity as shown, or install the optional battery pack.. Installing the batteries incorrectly will prevent the unit from operating or can damage the unit.
3. Return the Battery Cover by sliding it up from the unit.

**Note:** Batteries are not included



### Charging the batteries (Optional NiMH battery Pack Only)

Your G-223 is equipped to allow using a rechargeable NiMH battery pack, which can be recharged by a Desktop Charger (not included). Batteries must be charged when the low battery icon flashes on the display.

#### **To charge through a Desktop Charger:**

- Connect the AC Adaptor into an A/C Wall outlet
- Insert the Adaptor Jack into the Desktop charger jack
- Place the units into the Desktop Charger slot and note that the LED indicator of the Desktop Charger will light up to indicate charging function.

#### **Note :**

1. Only use batteries indicated in the manual.
2. Do not attempt to charge Alkaline batteries or any battery pack other than the one indicated in the manual. This may cause leakage and damage the unit.
3. For long term storage of the radio, turn the unit OFF and remove the batteries from the radio.

### Operation

**Power On/Off :** Press the button for more than 1 second to turn the radio on. Press the button for over 3 seconds to turn the radio off.

**Volume :** Press the button to increase the volume, and press the button to decrease the volume during normal operation.

**Talking and Listening :** To communicate, all radios in your group must be set at the same channel.

- For maximum clarity, hold the radio 2 to 3 inches from your mouth.
- Press and hold PTT button and speak in a normal voice into the microphone. The TX icon will appear continuously on the LCD Display when transmitting.
- To receive messages, release the PTT button. The RX icon will appear on the display when your radio is receiving a transmission.

**Call Tone :** Your G-223 can transmit a call tone for a fixed length of time. To send a call tone, press the **PTT** twice rapidly. The TX icon will appear during transmitting a call tone and tone can be heard on the speaker for confirmation.

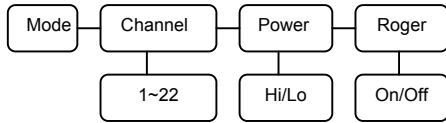
**Scan :** Your G-223 can scan all of the 22 channel to observe for any activity. To enter the scan mode, press the button for one second. Press button again to exit the scan mode.

Your radio will rapidly scan each of the 22 channels and stop on any active channel. When you press the PTT button to transmit on an active channel, the scanning function will stop. To resume scanning Press and hold the button for one second.

**Keypad Lock :** To avoid accidentally changing the radio operation, press the button for 5 seconds . The icon will appear on the display. When the is on the menu function the and button will be disabled. When locked, you will be able to turn the radio off and on, monitor, transmit/receive, and send a call tone. To unlock, press the for 5 seconds.

**User Interface**

To access the advanced features of your G-223, your radio has the following menu functions:



**Note :** The unit will automatically go to normal mode after 5 seconds of no button activity during menu setting.

**Channel Selection :** Your G-223 has 22 channels available. To change channels:

- With the radio on, press until the current channel segment flashes.
- Use the or buttons to change the channel.
- Press the PTT button to save the new channel.

**Power Selection:** Your G-223 has two transmit power levels. To select the power level on channels 1~7 and 15~22:

- Press until the “Pr” appears on the display.
- Press or to select between high and low power levels. The Hi/Lo icon will alternately appear during setting.
- Press the PTT button to save and exit.

The HI or LO icon will appear on the display depending on your setting.

**Note :** On channel 8~14 no power level selection is possible

**Roger Beep Tone :** Whenever you release the PTT button, a “Roger Beep” tone may be transmitted to let your friends know you are finished talking. To enable the Roger Beep, press the button repeatedly until the “rb” appears on the display. Press the and to set the Roger Beep tone on or off. An “on” or “oF” will appear on the display during setting.

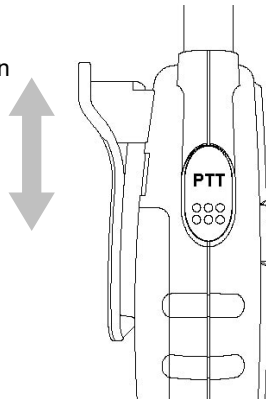
**Belt Clip :**

**To install the belt clip:**

- Slide the clip up into the slot on the back of the radio until the latching mechanism clicks.

**To remove the belt clip:**

- Pull the latching tab outward, then gently slide the belt clip down toward the bottom of the radio.



**PROBLEM**

**SOLUTION**

|   |  |
|---|--|
| No Power                                  | - Check battery installation and/or replace batteries  |
| Cannot Receive Messages                   | - Confirm the radios have the same channel settings.<br>- Make sure that you are within range of the other transceivers.<br>- Buildings and other obstructions may interfere with your communication.      |
| Radio is not responding to button presses | - Make sure key lock is not on. See “Keypad Lock”. (Page 12)<br>- Radio might need to be reset. Turn power off then on.  |
| Display is dim                            | - Reposition or replace batteries.   |
| Charger not functioning                   | - Contacts on the bottom of the radio may require cleaning.<br>- Ensure the outlet the charger is plugged into is functioning properly.<br>- Check that the batteries are installed in the radio properly. |

If you have a problem which you believe requires service, please call first and speak with a service technician. Many problems can be remedied over the phone without returning the unit for service.



## Technical Specification

### A. Specification

|                     |  |
|---------------------|--|
| Channels            | 22 Channels                                    |
| Operating Frequency | UHF 462.5500 ~ 467.7125 MHz                    |
| Power Source        | 4 AAA Alkaline or rechargeable Ni-MH Batteries |
| Output Power        | Typically. 2 Watts HI, 0.5 Watts LO            |

### B. Current Drain :

- Receive : 150mA max
- Transmit : 900mA max
- Standby : Average 14mA max

### C. Operating Time : Based on 900mAH (Alkaline battery) capacity

- Talk Time : 1~1.5 hours
- Receive Time : 12 hours
- Standby Time : 60 hour
- Combined (5-5-90 duty) Time : 15 hours

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## Channel Frequency Chart

| CH. No | CH. Freq. | CH. No | CH. Freq. | CH. No | CH. Freq. |
|--------|-----------|--------|-----------|--------|-----------|
| 1      | 462.5625  | 9      | 467.5875  | 17     | 462.6000  |
| 2      | 462.5875  | 10     | 467.6125  | 18     | 462.6250  |
| 3      | 462.6125  | 11     | 467.6375  | 19     | 462.6500  |
| 4      | 462.6375  | 12     | 467.6625  | 20     | 462.6750  |
| 5      | 462.6625  | 13     | 467.6875  | 21     | 462.7000  |
| 6      | 462.6875  | 14     | 467.7125  | 22     | 462.7250  |
| 7      | 462.7125  | 15     | 462.5500  |        |           |
| 8      | 467.5625  | 16     | 462.5750  |        |           |

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## Limited Warranty

Midland Radio Corporation will repair or replace, at its option without charge, any Midland FRS/GMRS transceiver which fails due to a defect in material or workmanship within One Year following the initial consumer purchase. This warranty does not apply to water damage, battery leak or abuse.

This warranty does not include any carrying cases, earphones, or antennas, which may be a part of or included with the warranted product, or the cost of labor for removal or re-installation of the product in a vehicle or other mounting.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, along with proof of purchase to:

Midland Radio Corporation  
Warranty Service Department  
1120 Clay Street  
North Kansas City, Missouri 64116

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

**Note :** The above warranty applies only to merchandise purchased in the United States of America or any of the territories or possessions thereof, or from a U.S. Military exchange.

Midland Radio Corporation  
1120 Clay Street  
North Kansas City, MO 64116  
Tel: (816) 241-8500  
E-mail: [mail@midlandradio.com](mailto:mail@midlandradio.com)  
URL: [www.midlandradio.com](http://www.midlandradio.com)

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S.A.M.E. Weather Alert Radios



CB Radios w/ESP



2-Way Radios

**What is S.A.M.E.?**  
S.A.M.E. (Specific Area Message Encoding) allows this radio to be programmed to sound an alert only when weather and other emergencies threaten the selected county (or counties). This technology eliminates all other alerts which are only intended for locations outside the selected area. Weather and other emergencies can occur at any time, day or night. Without S.A.M.E., you could be unnecessarily alerted at any hour for an emergency as far as 100 miles away.



**ALERT SOUNDS ONLY WHEN WARNING IS IN YOUR AREA.**  
**CAN BE SET TO RECEIVE ENTIRE BROADCAST AREA.**

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Midland Radio Corporation  
1120 Clay St.  
N. Kansas City MO 64116  
Call 816.241.8500

***visit us at <http://www.midlandradio.com>***

**Note: Features & Specifications are subject to Change without notice. MIDLAND is not responsible for unintentional errors or omissions on its packaging.**

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