

IMPORTANT NOTICE, FCC LICENSE REQUIRED FOR GMRS OPERATION

The GMRS1072N operates on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. You must be licensed prior to operating on channels 1 - 7 or 15 - 22, which comprise the GMRS channels of the GMRS1072N. Serious penalties could result for unlicensed use of GMRS channels, in violation of FCC rules, as stipulated in the Communications Act's Sections 501 and 502 (amended).

You will be issued a call sign by the FCC which should be used for station identification when operating the radio on GMRS channels. You should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of their transmission time.

To obtain a license or ask questions about the license application, contact the FCC at 1-888-CALL FCC or go to the FCC's website:

<http://www.fcc.gov> and request form 605.

Exposure To Radio Frequency Energy

Your Bonso Electronics Ltd is designed to comply with the following national and international standards and guidelines regarding exposure of human being to radio frequency electromagnetic energy:

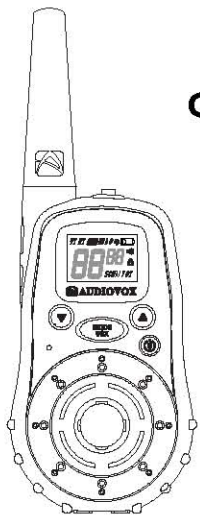
- United States Federal Communications Commission, Code of Federal Regulations: 47 CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineer (IEEE) C95. 1-1999 Edition
- National Council on Radiation Protection and Measurements (NCRP) of the United States, Report 86, 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

To control your exposure and ensure compliance with the general population or uncontrolled environment exposure limits, transmit no more than 50% of the time.

The radio generates measurable RF energy exposure only when transmitting.



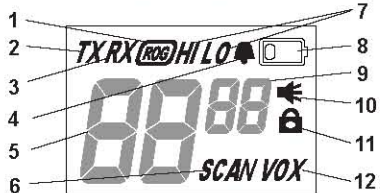
General Mobile Radio Service (GMRS) Model: GMRS1072N Twin Peak



Owner's Manual

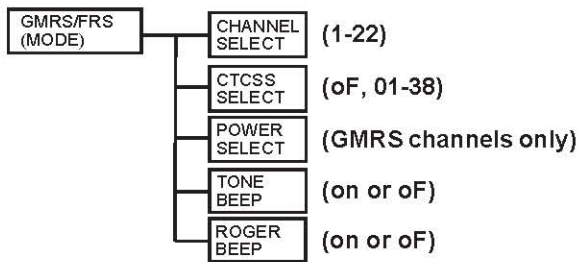
Customer Service
1-800-290-6650

Model GMRS1072N DISPLAY



- Roger Beep Tone Indicator:** This icon appears when the Roger Beep tone is on, and disappears when the tone is not in use.
- Transmit Indicator:** Icon appears when the unit is in the transmit mode (PTT button activated or VOX mode active).
- Receive Indicator:** This icon appears when the unit is receiving a transmission.
- Beep Tone Indicator:** Icon appears when beep button confirmation tone is selected; icon disappears when tone is off.
- Large Segment Display:** Indicates the channel number in use between 1 and 22.
- Scan Indicator:** This function allows the user to scan a channel every 0.5 second to search for a valid signal.
- HI/LO Indicators:** Appropriate icon appears when the transmit power is set to desired output power.
- Battery Level Indicator:** Icon indicates the battery charge level.
- Small Segment Display:** Indicates the CTCSS tone code (1-38) function is active for the main channel in use.
- Monitor Indicator:** Icon appears when the Monitor (M) button is pressed and the channel monitor function is activated.
- Key Lock Indicator:** Icon appears when the keypad is locked. This function disables keys such as channel up/down, SCAN and MODE.
- Voice Activated Transmission (VOX) Indicator:** This function allows hands-free conversation. The icon appears when the VOX mode is activated.

GMRS1072N OPERATIONAL MODES



NOTE: To differentiate between operating modes, look for **HI** or **LO** indication below the battery power level indicator when in GMRS mode. Refer to the appropriate section of this manual for detailed operating instructions for each mode. Channels 1 through 7 are shared GMRS/FRS. Channels 8 through 14 are FRS only, and channels 15 through 22 are GMRS only.

Controls:

Power On-Off/SCAN Button (13)

Press and hold the PWR on/off button for at least 2 seconds. You will hear a confirming melody to indicate the unit is on. To turn the unit off, press and hold the button for at least 2 seconds.

Adjusting the Volume (11, 10)

With the unit powered on, press the Up Channel/Volume Button (▲) to increase volume and the Down Channel/Volume button (▼) to decrease volume. The display will indicate the current volume level (U) followed by the number (0-7). As volume is increased upward, the unit will beep at each step, and vice-versa. When the minimum and maximum volume settings are reached, a unique tone will sound.

CAUTION

SAFETY INFORMATION

Your wireless hand-held portable transceiver contains a low power transmitter. When the PTT button is pushed (or the VOX mode is enabled) it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

Important: To maintain compliance with the FCC's RF exposure guidelines hold the transmitter at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away. If you wear the handset on your body while using the headset accessory, use only the Audiovox supplied carry clip for this product and ensure that the antenna is at least 1 inch (2.5 centimeters) from your body when transmitting. Use only the supplied antenna. **Do not use your transceiver with a damaged antenna.** Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.

Performance:

Your transceiver will only achieve its maximum operating range when communicating with other transceivers across open and flat areas or between elevated points. Normally occurring environmental factors such as buildings, trees, terrain and weather, or interference from other radio or electrical equipment, may have adverse effects on the transceiver's effective range. These are not indicative of a fault condition.

Avoid placing the GMRS1072 radio transceiver for prolonged periods of time in direct sunlight or temperatures below -4°F (-20°C) or above 140°F (60°C).

Place the rubber cover on jacks when not in use.

Equipment and Accessories Supplied

- | | |
|-------------------------------|--------------------|
| 1. Radio (2) | GMRS1072N |
| 2. Owner's Manual (1) | xxx-xxxx |
| 3. Rechargeable Batteries (8) | NiMH, P/N GMRS6BAT |
| 4. Dual Desk-Top Charger | GMRSxDS |
| 5. AC Wall Adapter | GMRS6AC |

Powering the transceiver:

Your GMRS1072N radio transceiver operates on four AAA Alkaline batteries. Alkaline batteries will provide slightly better performance than rechargeable batteries (purchased separately). Only Audiovox approved rechargeable batteries should be recharged in the radio transceiver using the supplied charging accessories. This will ensure optimum performance for the GMRS1072N. Battery charging time is typically 16 - 20 hours. Use of the Audiovox charging equipment with other brands of rechargeable batteries is not recommended as battery charging times will vary. Refer to the manufacturer's instructions for charging other brands of batteries.

Batteries

There are three methods of powering the GMRS1072N:

- Alkaline Batteries.
WARNING: Do not attempt to recharge Alkaline batteries.
- Audiovox Rechargeable Ni-MH Batteries - (Rechargeable NiMH batteries and Charging Adapter included). Use only Audiovox approved rechargeable batteries and charging equipment when charging batteries internal to the unit.
NOTE: To extend battery life, avoid overcharging the batteries.
- Various Brands of Rechargeable Batteries - Use of the Audiovox charger(s) with other brands of rechargeable batteries is not recommended, as battery charging times will vary with different brands of batteries. Refer to the manufacturer's instructions for charging other brands of batteries.

Monitor/Keylock Button (2)

This button is used to check activity on the current frequency before transmitting. Check activity by pressing the Monitor (M) Button longer than 2 seconds; the icon will appear on the display and you will hear static if frequency is clear. **Do not transmit if you hear conversation.** Hold down the Monitor Button again longer than 2 seconds and the icon will disappear from the display.

The monitor function will temporarily bypass the squelch setting and play all signals on a given channel. This feature is useful when communicating with other parties at extreme range. By pressing the monitor button momentarily, the keylock icon () will appear to confirm the functions MODE, SCAN and channel up/down button s have been disabled.

Push To Talk (PTT) Button (4)

Pressing and holding this button will allow you to speak to any transceiver that is set to the same channel and privacy code setting as yours. Hold the transceiver approximately 1 to 2 inches from your face as you speak into the built in microphone (9). After you have finished speaking, release the PTT Button to allow reception of incoming signals. It is not possible to transmit and receive at the same time. Whenever the button is pressed, the transmit signal icon (TX) will appear in the upper left corner of the display. Releasing the button allows the unit to revert to standby mode. When receiving an incoming signal, the (RX) icon will appear. The PTT Button can also be used as a two-way call ringer. Pressing the button twice quickly will call another party on the same channel. The transmit icon (TX) will be displayed for 3 seconds and then disappear.

Up Channel/Volume Button (10)

In the standby mode, pressing this button will increment the listening volume. When in function edit mode this button will be used to adjust the unit's settings.

Down Channel/Volume Button (11)

In the standby mode, pressing this button will decrement the listening

WARNINGS:

Battery Care

Never attempt to charge alkaline or dry cell batteries, as batteries may burst causing personal injury and damage to the product. If rechargeable batteries are used, such as Nickel Metal Hydride (NiMH), use only the supplied Audiovox-approved rechargeable batteries. Use of the Audiovox charger (also supplied) with other brands of batteries is not recommended, as battery charging times will vary with different brands. Refer to the Manufacturer's instructions for charging other brands of batteries.

Battery Disposal

In general, if handled improperly, batteries pose a risk of fire or burns. Do not disassemble, crush, puncture, short external contacts, or dispose of the batteries in fire or water. Dispose of the batteries in a environmentally safe manner and recycle whenever possible.

FCC WARNING

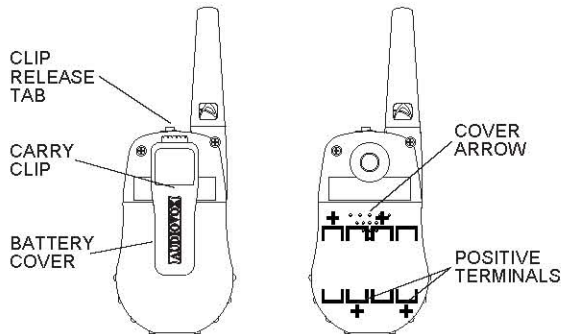
Replacement or substitution of transistors, diodes or other parts of a unique nature, with parts other than those recommended by the manufacturer, may cause a violation of the technical regulations of Part 15 of FCC Rules.

GMRS LICENSE:

USE OF THIS RADIO WITHIN THE UNITED STATES REQUIRES AN FCC GMRS LICENSE. AN INDIVIDUAL 18 YEARS OF AGE OR OLDER, WHO IS NOT A REPRESENTATIVE OF A FOREIGN GOVERNMENT, IS ELIGIBLE TO APPLY FOR A GMRS SYSTEM LICENSE. YOU WILL NEED TWO FORMS FROM THE FCC: FCC FORM 159, AND FCC FORM 605 (MAIN FORM AND SCHEDULE F). YOU CAN FIND THE FORMS ONLINE AT: [HTTP://WWW.FCC.GOV/FORMPAGE.HTML](http://www.fcc.gov/formpage.html), OR CALL 1-800-418-3676.

Installing the batteries:

Battery installation is made more convenient when the carry clip is either rotated left or right to the horizontal position, or is removed. Simply rotate the clip in either direction to the horizontal position. Be careful not to use excessive force. To remove the clip, press down on the release tab and pull the clip straight out from the radio body. Next, press down with the thumb at the embossed arrow, slide the battery cover down and lift it away from the compartment. Insert four AAA batteries (alternate positive ends (+) toward the top of the transceiver, starting left-to-right).



- Using thumb, press down on battery cover at arrow and slide cover down.
- Then lift cover at bottom to open. Remove cover.
- Insert four AAA batteries (positive (+) end toward the top beginning at left side and alternating positive terminals as shown).

volume. When in function edit mode this button will be used to adjust the unit's settings.

MODE/VOX Button (12)

This button is used to select various feature settings in the GMRS and FRS modes. When pressed and held for 3 seconds, the VOX mode is entered and the VOX icon appears on the display.

External Speaker (SPK)/ Microphone (MIC)/CHG Jack (6)

This jack accepts both the supplied Audiovox earbud/microphone connector and the wall charging adapter. For additional optional equipment and accessories for the GMRS1072N, refer to page 7 and/or visit the Audiovox web site at www.audiovox.com.

Scan Button (13)

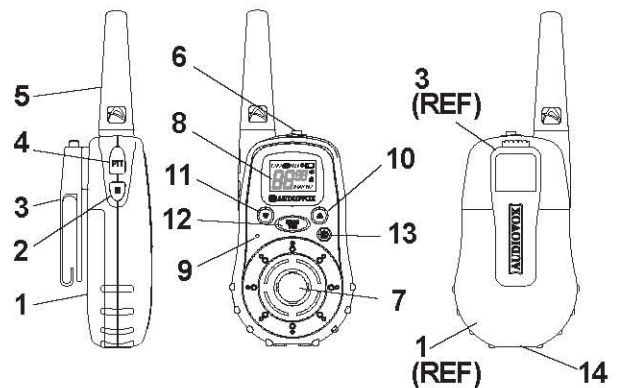
With the unit in standby mode, press the Power On/Off Button momentarily to enable or disable the scan function; **SCAN** will appear on the display.

Operating Modes and Features

GRMS/FRS Operation:

- Press and hold the Power On/Off button for 2 seconds to turn on power.
- Press the MODE button so the Channel number flashes.
- Select the desired channel with the Up (10) and Down (11) Buttons.
- When receiving a call, the (RX) icon appears to indicate an incoming call.
- Press and hold the PTT button (4) to transmit, then speak into the microphone clearly and slowly. The Transmit icon (TX) appears on the display while the button is pressed.
- Release PTT Button (4) to receive.
- Communication can only be accomplished when the channel and CTCSS tone frequency of at least two parties are the same.
- The CTCSS subcode (01-38) will be displayed on the LCD panel if the CTCSS tone frequency function is enabled (not oF).

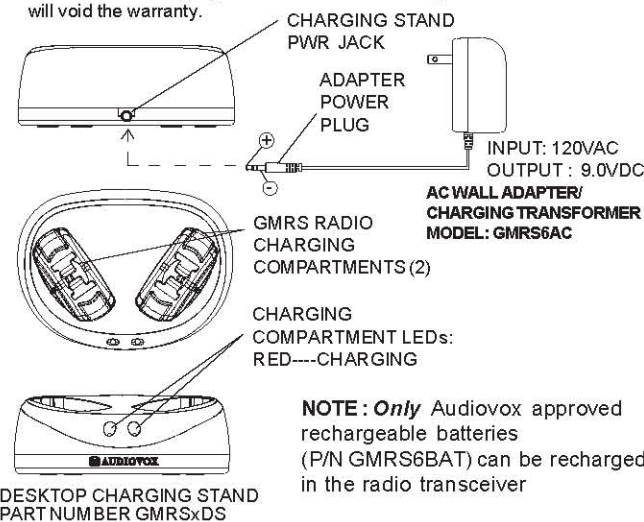
Model GMRS1072N (FCC License Required)



- Battery Door
- Monitor (M) Button
- Detachable Carry Clip
- Push-To-Talk (PTT) Function Confirmation Button
- Antenna
- External Speaker (SPK)/ Microphone (MIC)/CHG Jack
- Built-in Speaker
- Liquid Crystal Display (LCD)
- Built-in Microphone
- Up Channel/Volume Button
- Down Channel/Volume Button
- MODE/VOX Button
- Power On/Off Scan Button
- Battery Charging Contacts

The following guidelines will improve performance and provide longer operating times for the GMRS1072N:

- Do not mix old and new batteries.
- The use of alkaline-type batteries is recommended to provide the longest operating time.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable batteries.
- If the unit is not to be used for an extended period of time, remove the batteries. Old or leaking batteries can cause damage to the unit and will void the warranty.



NOTE: Only Audiovox approved rechargeable batteries (P/N GMRS6BAT) can be recharged in the radio transceiver

Channel Selection

In order to communicate with other GMRS/FRS units, both the transmitting and receiving party must be on the same frequency. The GMRS1072N has 22 channels (frequencies) indicated by the large digits on the LCD display panel. Channels 1 through 7 are the shared GMRS/FRS channels. Channels 8-14 are FRS only channels, while channels 15-22 are assigned GMRS only channels. If an FRS only channel (8-14) has been selected, the HI or LO icon will not be displayed on the LCD panel; otherwise, for channels 1-7 (GMRS/FRS) and 15-22 (GMRS only) the HI or LO icon will be displayed. Communication with Audiovox GMRS/FRS and compatible units is possible on these 22 channels. Before transmitting on the selected channel, press the Monitor (M) Button (2) to check the activity on that channel. If there is activity on the selected channel, change to another channel that is clear.

To change the channel:

- From GMRS/FRS standby mode, press the MODE button (12) once; the channel number flashes.
- Press the Up Button (10) briefly to move to the next higher main channel number.
- Press the Down Button (11) briefly to move to the next lower main channel number.
- Press the PTT button momentarily to confirm selection.

CTCSS Mode (Sub-Channel) Selection

The Coded Tone Controlled Squelch System (CTCSS) has 38 Sub-Frequencies.

This feature allows you to utilize the coded squelch tones (01-38) within a main channel and enables you to communicate with another party on the same main channel using the same subcode. (This filters out unwanted transmissions from the same main channel). Since there are 38 CTCSS Sub-channels for each main channel, a different subcode may be selected for each of the 22 channels.

