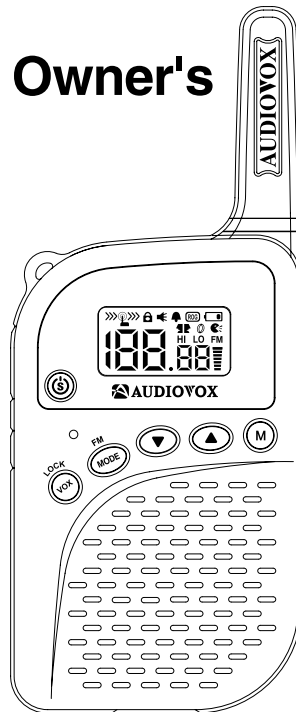**AUDIOVOX®**
ELECTRONICS CORP.

General Mobile Radio Service (GMRS)
Model : GMRS500SLK

Owner's Manual

Customer Service
1-800-290-6650

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Released: 5-28-04

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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 GMRS500SLK radio transceiver for prolonged periods of time in direct sunlight or temperatures below -4°F(-20°C) or above 140°F (60°C).

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WARNINGS:

Battery Care
Never attempt to charge other brands of batteries, as batteries may burst causing personal injury and damage to the product. When recharging Lithiumion(Li-ion) batteries with the AUDIOVOX charger, use only 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.

CAUTION: Make sure wrist strap is securely fastened to wrist strap ring to prevent unit loss or damage.

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 REPRESENTATAIVE 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**, OR CALL **1-800-418-3676**.

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Model GMRS500SLK (FCC License Required)
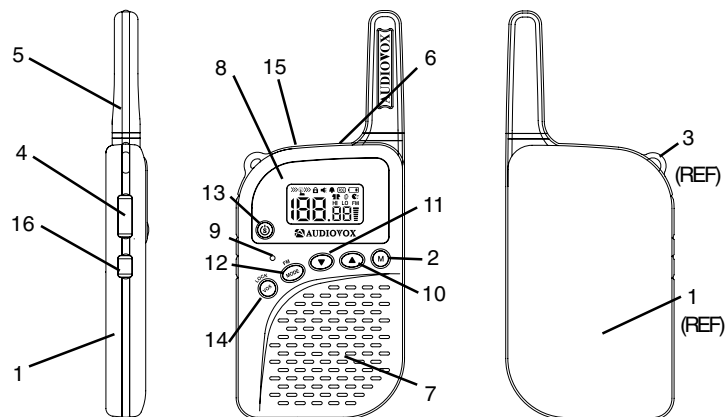
1. Battery internally installed
2. Monitor/Backlight Button
3. Wrist strap ring
4. Push-To-Talk (PTT) Button
5. Antenna
6. External Speaker(SPK)/Micro-phone (MIC)/Charge (CHG) Jack
7. Built-in Speaker
8. Liquid Crystal Display (LCD)

9. Built-in Microphone
10. Up Channel/Volume Button
11. Down Channel/Volume Button
12. MODE/FM Button
13. Power On-Off/SCAN Button
14. VOX/LOCK Button
15. White Flashlight LED
16. Flashlight Enable Button

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Model GMRS500SLK DISPLAY
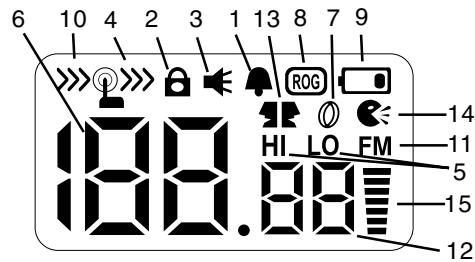
1. **Beep Tone Indicator:** Icon appears when beep button confirmation tone is selected; icon disappears when tone is off.
2. **Key Lock Indicator:** Icon appears when the keypad is locked. This function disables keys such as channel up/down, SCAN and MODE.
3. **Monitor Indicator:** Icon appears when the Monitor (**M**) button is pressed and the channel monitor function is activated.
4. **Signal Strength Indicator:** Icon appears when a signal is being transmitted.
5. **HI/LO Indicators:** Power level indicator appears when the transmit power is set to desired output power on the GMRS channels.
6. **Large Segment Display:** Indicates the channel number in use.
7. **Scan Indicator:** This function allows the user to scan a channel (and tone code, if present) every .5 second to search for a valid signal.
8. **RogerBeep Tone On/Off Indicator:** This icon appears when the Roger Beep tone is on, and disappears when tone is not in use.
9. **Battery Level Indicator:** Icon indicates when the battery is in lower level.
10. **Signal Receive Indicator:** BUSY icon appears when a signal is being received.
11. **FM Mode Indicator:** Icon will be on steady when in the weather band mode. When in the GMRS/FRS mode, the icon will blink when the alert is active

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12. **Small Segment Display:** Displays the CTCSS tone option for each main channel from **01-38**.
13. **Dual Watch Mode Indicator:** Indicator appears when dual watch mode is active.
14. **Voice Activated Transmission (VOX) Indicator:** This function allows hands free conversation. The indicator appears when the VOX mode is activated.
15. **Volume Level Indicator:** Indicator appears the volume level

Equipment and Accessories Supplied

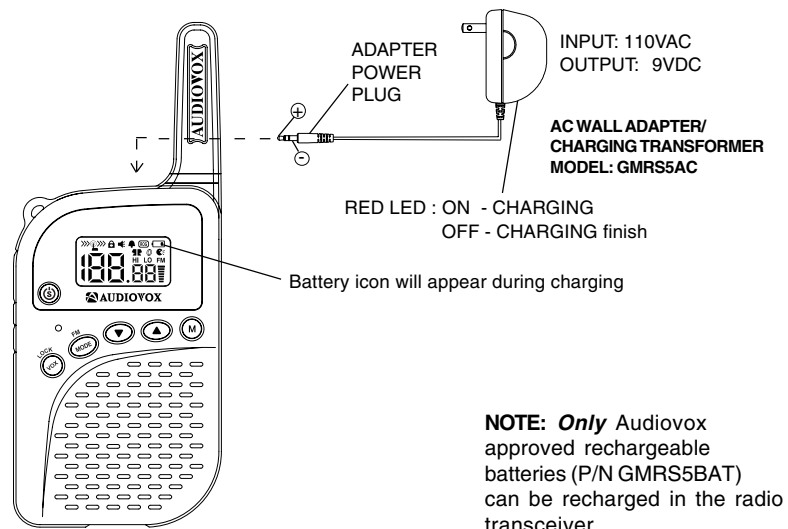|		
1.	Radio (1)	GMRS500SLK
2.	Owner's Manual	128-7108
3.	AC Wall Adapter	GMRS5AC
4.	Rechargeable (Li-ion) Battery	GMRS5BAT
5.	Wrist Strap	GMRS5WRST
6.	Earbud with Remote PTT Button	GMRSBHST8
7.	Leather Case	GMRS5CSE

Powering the transceiver:

Your GMRS500SLK radio transceiver operates on internally installed Li-ion batteries. Only Audiovox approved rechargeable batteries should be recharged in the radio transceiver using the charging accessories. This will ensure optimum performance for the GMRS500SLK. Battery charging time is typically 11 - 13 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.
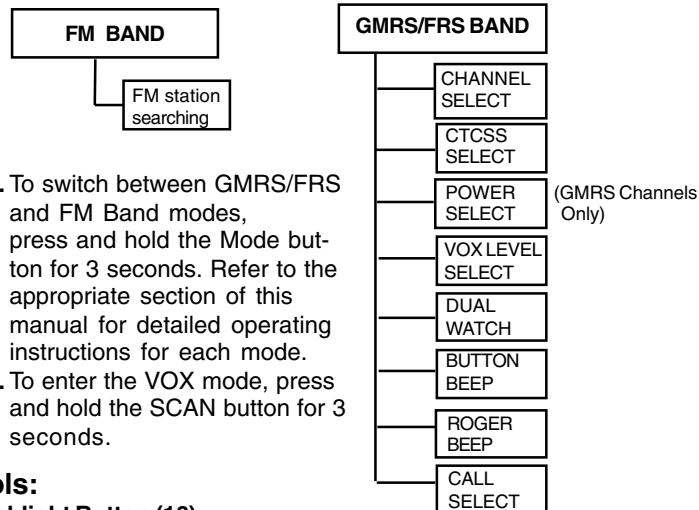
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Battery charging

1. Audiovox Rechargeable Li-ion Batteries - (Rechargeable Li-ion batteries and Charging Adapter included). Use only Audiovox approved rechargeable batteries and charging equipment when charging batteries internal to the unit.

WARNING: Do not attempt to charge the battery using other charger.

ADAPTER
POWER
PLUG

INPUT: 110VAC
OUTPUT: 9VDC

**AC WALL ADAPTER/
CHARGING TRANSFORMER
MODEL: GMRS5AC**

RED LED : ON - CHARGING
OFF - CHARGING finish

Battery icon will appear during charging

NOTE: *Only* Audiovox approved rechargeable batteries (P/N GMRS5BAT) can be recharged in the radio transceiver.

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GMRS500SLK OPERATIONAL MODES

FM BAND

GMRS/FRS BAND

FM station searching

CHANNEL SELECT

CTCSS SELECT

POWER SELECT	(GMRS Channels Only)

VOX LEVEL SELECT

DUAL WATCH

BUTTON BEEP

ROGER BEEP

CALL SELECT

NOTE: 1. To switch between GMRS/FRS and FM Band modes, press and hold the Mode button for 3 seconds. Refer to the appropriate section of this manual for detailed operating instructions for each mode.

2. To enter the VOX mode, press and hold the SCAN button for 3 seconds.

Controls:

LED Flashlight Button (16)

When the unit is on, press this button on the right side of the Transceiver to light the white flashlight LED (15) on top of the unit.

Power On-Off/SCAN (13) Button

Press and hold the power 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.

When the unit is on, press this button momentarily to enable or disable the scan mode.

Adjusting the Volume (10, 11)

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 between 0 to 7 **bars on the right lower side of the LCD.**

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Monitor/Display Backlight 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 apppear 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 disapppear 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 LCD backlight is turned on accompanied by a beep tone (if enabled); the LCD backlight will turn off automatically in about 5 seconds, or when the monitor button is pressed momentarily once again.

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. The Transmit Signal Level indicator (⚲»») will display the relative strength of the transmitted signal. When receiving an incoming signal, the (»»⚲) icon will appear in the upper right quadrant of the display. 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.

Up Channel/Volume Button (10)

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

Down Channel/Volume Button (11)

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

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Mode Button (12)

This button is used to select the various feature settings in the GMRS/FRS or FM radio band modes. Holding the MODE button longer than 2 seconds will toggle between the GMRS/FRS and FM band modes.

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

This jack accepts an Audiovox Earbud/microphone connector, or the Charging Adapter connector. For equipment and accessories supplied with the GMRS500SLK, refer to Page 7 and/or visit the Audiovox web site at **www.audiovox.com.**

VOX/LOCK Button (14)

Press this button momentarily to enable or disable the VOX mode; the icon will appear in the middle right side of the display when VOX is enabled. Press and hold the button for more than 2 seconds to enable or disable the LOCK mode; the keylock icon ( ) will appear to disable the MODE, SCAN and channel up/down buttons.

Operating Modes and Features

GMRS Operation:

- From GMRS/FRS standby mode, press and hold the ( ) button for at least 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 icon appears to indicate the incoming signal.
- Press and hold the PTT button (4) to transmit, then speak into the microphone clearly and slowly. The Transmit Signal indicator ( ) appears on the display.

NOTE: When the transmission is not available with beep tone, the battery is low; recharge the unit.
When the battery icon is flashing, transmitting is not possible; recharge the unit.

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- 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 small segment display will appear next to the main frequency channel on the display if the CTCSS tone frequency function is enabled.

Channel Selection

In order to communicate with other GMRS units, both transmitting and receiving party must be on the same frequency. The GMRS500SLK 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** indicator will not be displayed on the LCD panel; otherwise, for channels 1-7 (GMRS/FRS) and 15-22 (GMRS only), the **HI** or **LO** indicator will be displayed. Communication with Audiovox FRS and compatible units is possible on the shared and FRS only 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 or until 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) provides 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

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party on the same main channel using the same subcode. (This filters out unwanted transmissions without the same coded squelch tone). There are 38 CTCSS Sub-channels for each main channel. A different subcode may be selected for each of the 22 channels.

To change the CTCSS Sub-channel:

- From GMRS/FRS standby mode, press the MODE Button twice; a flashing **oF** or sub-channel number is displayed. If **oF** is displayed, press the Up or Down button to enable the CTCSS mode.
- Then press the Up or Down button to select the desired sub-channel for use (**01-38**).
- Press the PTT button momentarily to confirm selection.

The CTCSS mode can be turned off by selecting the **oF** icon as the setting.

NOTE: To communicate with other GMRS/FRS units, they must be switched to the same channel and CTCSS subcode. To communicate with other GMRS/FRS units that do not have subcodes, switch your unit to the same channel with the subcode set to **oF**.

The CTCSS subcodes do not prevent others from hearing your transmission. This will only allow you to ignore all traffic on a given channel not using the same subcode.

Transmit Power Selection Mode

This feature permits selection of the transmitting power level to high or low. When operating on FRS only channels (8-14), no power selection is possible or is displayed. Using low power, the unit will have a lower transmit range, but battery life will be increased.

To access the transmitter power selection function:

- From GMRS/FRS standby mode (shared channels 1-7 or GMRS only channel (15-22) selected), press the MODE Button three times until the power **HI** or **LO** indication appears with a flashing **Pr** indication on the display.
- Press the Up or Down button to toggle between the High and Low selections.
- Press the PTT button momentarily to confirm selection.

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VOX Sensitivity Level Selection

This selection enables you to set the sensitivity level to compensate for ambient noise in your immediate area. A VOX sensitivity of 2 represents high sensitivity, and should be used in a relatively quiet surrounding. A VOX sensitivity of 1 represents low sensitivity and should be used in a noisy environment.

To set the VOX sensitivity level:

- Press the MODE button 4 times (3 times for FRS) until the **Vo** icon appears on the display accompanied by the flashing numeral 1 or 2.

- Press the Up or Down button to select the **1 or 2** VOX level sensitivity.
- Press the PTT button momentarily to confirm the VOX selection.
- The ⛷ icon only appears when the VOX mode is enabled.

Dual Watch Mode

This feature allows you to monitor two channels at the same time. While in dual watch mode, the unit will continuously monitor both the primary and dual watch channel. Received signals will be played for 5 seconds, then the unit will resume scanning the two channels. Pressing the PTT button during a received transmission will set the unit to transmit on the same channel. Pressing the PTT button when no signal is received will set the unit to transmit on the primary channel.

To set the Dual Watch Mode:
- From GMRS/FRS standby mode, press the MODE button 5 times (4 times for FRS); 🔊 appears flashing on the display. If the dual watch mode is off, the **oF** icon will also appear flashing.
- To enable the dual watch mode, press the Up or Down button; the dual watch channel number will flash and start to increase or decrease as the Up or Down button is pressed.
- To select a subcode for the dual watch channel, press the MODE button while the selected dual watch channel is flashing. Then use the Up and Down buttons to select the desired CTCSS subcode.

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- Press the PTT button momentarily to confirm selection of the dual watch channel. The display will now alternate between the primary channel and the dual watch channel just selected.
  - NOTE: Pressing the PTT button during dual watch mode will transmit on the primary channel and suspend dual watch operation for 5 seconds. Dual watch mode will then resume.
- Momentarily press the SCAN button to exit the dual watch mode.

Key Tone
This feature allows the transceiver to sound a confirmation tone whenever the following keys are pressed: Monitor (M) Button, Up/Down Buttons, MODE Button or SCAN Button.

To turn the key tones on or off:
- From GMRS/FRS standby mode, press the MODE Button 6 times (5 times for FRS) until the Bell (🔔) icon flashes, and **on** or **oF** appears on the display.
- Press the Up or Down Button to toggle the key tone feature On or Off.
- Press the PTT button momentarily to confirm selection.

When the key tone feature is on, the Bell icon appears steady on the display, and the beep tones sound in response to button activation.

Roger Beep Tone
The Roger Beep is a tone which is automatically transmitted whenever the PTT button is released. This tone alerts the receiving party that the transmission has been terminated intentionally.

To enable and disable the Roger Beep tone:
- From GMRS/FRS standby mode, press the MODE Button 7 times (6 times for FRS) until the flashing Roger Beep icon (🔲) and **on** or **oF** appears on the display.
- Press the Up or Down button to select the tone on or off as desired.
- When enabled, the tone icon (🔲) appears steady on the display.
- Press the PTT button momentarily to confirm selection.

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Call Ringer Selection Mode

The transceiver provides 3 user-selectable call ringer melodies to alert you to an incoming call.

To select your favorite call ringer melody:

- From GMRS/FRS standby mode, press the MODE Button 8 times (7 times for FRS). **CA** will appear on the display, together with a flashing number between **1** and **3**, and an appropriate call ring.
- Press the Up or Down Button to preview and hear the 3 available call melodies.
- Press the PTT button momentarily to confirm selection.

Channel Scan Operation

This feature allows you to monitor all channels automatically for valid signals. While scanning, you can transmit and receive. When a signal is received, the scan is interrupted and will return to scan mode 5 seconds after reception is terminated.

NOTE: While the scan function is active, the MODE button will be inoperative. The scan mode will reduce overall battery life since the battery save function is overridden.

To enable the channel scan mode:

- From GMRS/FRS standby mode, momentarily press the power Button; (⃝) will appear on the LCD display.
- The radio will display each channel (1-22) in ascending order as the scan mode operates to find an active main channel.
- If the unit doesn't find any signals and you want to transmit, press the PTT button to return to home channel operation. The channel number will flash and the transceiver will then automatically resume scanning approximately 15 seconds after the communication is completed.
- If there is no activity and you want to leave the scan mode, press the power button momentarily and the unit will return to normal operation; the ⃝ icon will disappear from the LCD display.

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Auto Key Lock Selection Mode

This feature prevents accidental changes to the preferred settings of the unit. The Auto Key Lock function temporarily disables the MODE, Up/Down and SCAN Buttons.

To access the Auto Key Lock selection menu:

- From GMRS/FRS standby mode, press and hold the VOX Button for 2 seconds to enable the Auto Key lock function; the unit will beep once and the lock ( ) icon appears on the display.

- The Power and PTT Buttons are not effected.

- To unlock the Auto Key function, press and hold the VOX button for 2 seconds; the unit beeps once and the lock icon ( ) disappears from the display.

   NOTE: If the unit is turned off while Key Lock is on, the Key Lock mode will still be in effect when the unit is again turned on.

VOX Enable Operation

This option enables you to have hands-free conversation. Your voice or nearby sound is detected and the radio transmits without the need to press the PTT button.

To enable VOX operation:

- From GMRS/FRS standby mode, press the VOX button momentarily; the icon appears steady on the display.

- To disable the VOX mode, press the VOX button momentarily; the VOX icon disappears from the display.

FM Band Operation
FM station Selection

This feature provides access to the FM broadcast band frequencies from 87.5MHz to 107.9MHz. To select an FM station, the unit must be on. Press and hold the MODE button for at least 3 seconds; the FM icon will appear together with an FM frequency in the band.

Momentarily press the MODE button (12) once; the frequency flashes.

To search the FM station :
- Press the Up Button (10) briefly to move to the next higher
  FM station in 200kHz steps.
- Press the Down Button (11) briefly to move to the next lower
  FM station in 200kHz steps.

NOTE: Even though the FM radio mode is active, you can still transmit
and receive the GMRS/FRS signal. To inhibit the GMRS/FRS
receive signal mode, press and hold the the **M** button; the
monitor icon will appear on the display. To exit this function
press and hold the **M** button again.

Now press the SCAN button once;Searching ($\emptyset$) appears on the display,
indicating the radio is searching for a strong FM station.

When a station is located, it will be heard in the speaker, and the display
will remain at the FM station until the SCAN button is pressed again.

NOTE : If no FM station is acquired after several seconds, repeat
above step to initiate another FM station search.

To exit the FM mode, press and hold the MODE button for at least 3
seconds;and the radio will revert to the GMRS/FRS standby mode.

Battery Alert

When the battery icon is empty (⬜) and begins flashing on the
display, after 5 minutes the unit will turn off automatically; recharge unit.

NOTES FOR GOOD COMMUNICATION

1. The GMRS500SLK 22 channels are shared on a 'take turns' basis. This means other groups may be talking on any of the channels. A common code of ethics/courtesy is to switch to another vacant channel and not to attempt to talk over someone who is already using the channel you first selected.

2. The GMRS500SLK has been designed to maximize performance and improve transmission range in the field. To avoid interference, it is recommended that you do not use the units closer than 5 feet apart.

3. For best transmission results, always keep your mouth about 2-3 inches from the microphone (9) and speak slowly in a normal voice.

4. To increase battery life, avoid features such as Scan and Dual Watch. These features will reduce operating time considerably.

Warning

- Do not operate the transceiver unless you are licensed to do so.

- Remove the batteries from the transceiver if it is not expected to be used for long periods. This will eliminate the possibility of chemicals leaking from the batteries and corroding the transceiver.

- Avoid exposing the transceiver to water or extremes of temperature.

- Do not use this device in or near a mining facility, which uses remotely triggered explosives or in areas labeled "Blasting Area". Premature or accidental detonation may result.

- Do not attempt to modify or in any way increase the output of this transceiver. Its output is designed to meet the legal limits set by the FCC.

- Do not use this device or change its batteries in potentially explosive atmospheres as sparks in such areas could result in an explosion.

- Turn your transceiver off wherever posted notices restrict the use of radios or cellular telephones. Facilities such as hospitals may use equipment that is sensitive to RF energy.

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- Turn your transceiver off on board aircraft when requested to do so.
- Do not place your radio in front of a vehicle's air-bag. If the air-bag deploys, it could propel the transceiver like a projectile causing bodily injury.

Troubleshooting

Problem	Possible cause	Correction
No transmission while pressing the PTT Button	Weak batteries	Charge or replace batteries
	Incorrect battery polarity	Install the batteries following the directions in paragraph Installing the Batteries.
Weak or no signal received	Weak batteries	Charge or replace batteries
	Channel and privacy code not set the same as target transceiver	Adjust the transceiver's settings to match those settings of the target transceiver
	Volume level too low PTT Button inadvertently pressed	Increase volume level Release PTT Button
	Excessive radio interference on a particular channel Obstruction of radio signal	Change to a different channel Avoid operating in or near large buildings or vehicles
Unit beeps, but will not function when turned on	Batteries extremely discharged	Charge or replace batteries
Reception of unwanted signals	CTCSS privacy mode not on	Turn on the CTCSS privacy mode and set code number to match the setting of the target transceiver.
	Interference from electronic devices such as computers or TVs	Turn the devices off or move farther away from them.

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Technical Specifications:

General

Frequency Range:

Channels 1-7 (Shared with FRS Radios)	Refer to frequency chart on next page
Channels 8-14 (FRS only)	Refer to frequency chart on next page
Channels 15-22 (GMRS only)	Refer to frequency chart on next page
Channel Spacing	12.5 kHz
Privacy Codes	38 for each main channel
FM radio Band	87.5 - 107.9 MHz
Dimensions (W x H x D) (Without Antenna)	2.15 in x 3.5 in x 0.52 in 54.5 mm x 89 mm x 13.1 mm

Power Supply

Power Source	Li-ion, 3.7 VDC, 720 mAh
Operating Time: (Transmit: Receive: Standby (5:5:90 Ratio)	18 Hours Low Power 10 Hours High Power

Receiver

Useable Sensitivity	>-120 dBm
Maximum Audio Output Power	> 0.3 Watt maximum (16 Ohm)
Modulation Distortion	< 5% (1 kHz 70%)

Transmitter

RF Output Power (Conducted)	2.0 Watts maximum (High Power) 0.5 Watt maximum (Low Power)
Maximum Deviation	<+/- 2.5 kHz
Modulation Distortion	< 5% (1 kHz 70%)

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This transceiver complies with FCC regulations for use in the United States of America. Use in other countries may be prohibited or restricted by local regulation. Please check with the local regulating agency before using this device outside the United States of America.

Main Channel Frequencies:

CHANNEL/TYPE	FREQ (MHz)	CHANNEL/TYPE	FREQ (MHz)
1 GMRS/FRS	462.5625	12 FRS	467.6625
2 GMRS/FRS	462.5875	13 FRS	467.6875
3 GMRS/FRS	462.6125	14 FRS	467.7125
4 GMRS/FRS	462.6375	15 GMRS	462.5500
5 GMRS/FRS	462.6625	16 GMRS	462.5750
6 GMRS/FRS	462.6875	17 GMRS	462.6000
7 GMRS/FRS	462.7125	18 GMRS	462.6250
8 FRS	467.5625	19 GMRS	462.6500
9 FRS	467.5875	20 GMRS	462.6750
10 FRS	467.6125	21 GMRS	462.7000
11 FRS	467.6375	22 GMRS	462.7250

NOTE: Channels 1 through 7 are shared with FRS radios.
Channels 8 through 14 are FRS only.
Channels 15 through 22 are GMRS only.

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CHANNELCROSS REFERENCE FOR 14 AND 15 CHANNEL GMRS/FRS RADIO TO 22 CHANNEL GMRS/FRS RADIO

CHANNELCROSS REFERENCE FOR 15 CHANNEL GMRS/FRS RADIO TO 22 CHANNEL GMRS/FRS RADIO

15 CHANNEL GMRS	22 CHANNEL FRS/GMRS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
CHANNELS NOT AVAILABLE	8
	9
	10
	11
	12
	13
	14
11	15
8	16
12	17
9	18
13	19
10	20
14	21
15	22

CHANNEL CROSS REFERENCE FOR 14 CHANNEL FRS RADIO TO 22 CHANNEL GMRS/FRS RADIO

14 CHANNEL FRS	22 CHANNEL FRS/GMRS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
CHANNELS NOT AVAILABLE	15
	16
	17
	18
	19
	20
	21
	22

NOTE

WHEN USING RADIOS PRODUCED BY OTHER MANUFACTURERS, COMPARE CHANNEL FREQUENCIES FOR COMPATIBILITY.

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Continuous Tone Coded Squelch System Tone Frequencies (in Hz)

CTCSS	Freq. Hz	CTCSS	Freq. Hz
1	67.0	20	131.8
2	71.9	21	136.5
3	74.4	22	141.3
4	77.0	23	146.2
5	79.7	24	151.4
6	82.5	25	156.7
7	85.4	26	162.2
8	88.5	27	167.9
9	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100.0	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3

* **oF** = No Tone

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