Model GXT67

INTRODUCTION

Thank you for choosing the GXT67 Series GMRS radio from Midland Radio Corporation. Please read through this manual thoroughly to ensure you get peak performance from your radio. You can also find additional information about the GXT67 on our website at Midlandusa.com or may contact our Customer Service team at (816) 241-8500 from 8 AM to 4:30 PM (CT) Monday through Friday for assistance.

FEATURES

- Up to 30 GMRS Channels
    - 30 Standard GMRS Channels
- 8 Standard GMRS Repeater Channels
- 285 Privacy Codes
    - 38CTCSS
    - 104DCS
    - 143 Group
- NOAA Weather Radio with Alert and Auto Scan
- Waterproof and Dust-proof to IP67
- 4 VOX Levels
- Group and Direct Call
- 10 Selectable Call Alert Tones
- Vibrate Alert
- Whisper Talk
- Microphone Active Noise Cancellation (ANC)
- SOS Siren
- HI/MED/LO TX Power Settings
- Selected Channel Scan and Dual Watch Pro
- Backlight Off or 5 Brightness Levels
- 7 Backlight Colors
- Battery Level Meter with Low battery Indicator
- Narrow and Wide band operation
- Silent Operation
- Keypad Lock
- Monitor
- Roger Beep
- Accessory Jack

IMPORTANT NOTICE, FCC LICENSE REQUIRED FOR GMRS OPERATION
(Only Applicable for GMRS Radio Use in the United States)

The radios operate on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. You must be licensed prior to operating the radio. Serious penalties could result from unlicensed use of GMRS channels, in violation of FCC rules, as stipulated in the Communications Acts 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 your transmission time.

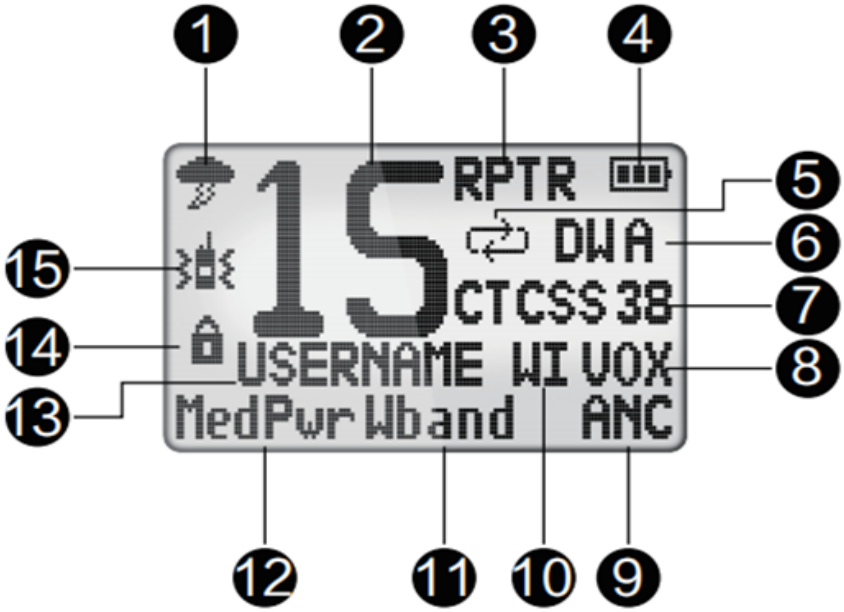
Apply for a license at the FCC's website http:www.fcc.gov/wireless/universal-license-system, and contact the FCC at 1-888-225-5322 if you have any questions.

Exposure To Radio Frequency Energy
Your Midland radio is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

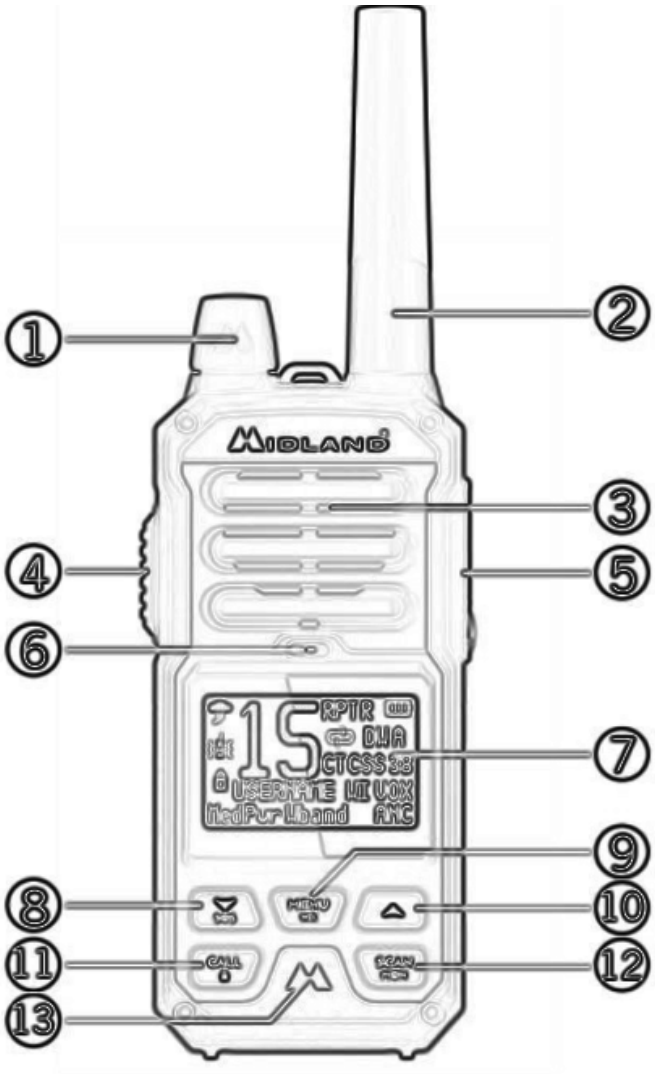
- United States Federal Communications Commission, Code of Federal Regulations: 47 CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE) C95, 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95,1999 Edition
- National 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.

LCD DISPLAY



1. **NOAA Weather (WX) ICON** – indicates when the radio is in Weather Band mode and Alert readiness status.
2. **CHANNEL NUMBER** – Indicates GMRS or Repeater channel number (1-99). In weather modes, indicates NOAA WX channel number (1-10).
3. **REPEATER ICON** – Indicates when the current channel is a Repeater channel.
4. **BATTERY METER** – Indicates battery level and battery-low status
5. **SCAN ICON** – Indicates when GMRS, Dual Watch Pro, or Weather channel scanning modes are active.
6. **DUAL WATCH ICON** – Indicates when Dual Watch Pro scanning active.
7. **PRIVACY ICON AND CODE** – Indicates Privacy Code type and number when CTCSS (1-38_ or DCS (1-104) is used on the channel. Also shows CODE and the number (0-142) to indicate Group Code.
8. **VOX ICON** – Indicates when VOX mode is active.
9. **NOISE CANCELATION ICON**: Indicates when microphone noise cancellation is active during transmissions.
10. **WHISPER ICON** – Indicates when the Whisper microphone amplification is active.
11. **BAND ICON** – Indicates whether the radio is operating with Wideband (W) or Narrow Band (N) Modulation.
12. **TRANSMIT (TX) POWER LEVEL ICON** – Indicates TX Power setting High, Medium, or Low (Hi/Med/Low).
13. **USERNAME** – Indicates user-define name for the current channel (configurable only through the PC interface).
14. **KEY LOCK ICON** – Indicates functions of some buttons are disabled.
15. **VIBRATE ALERT ICON** – Indicates when the Vibrate Call alerting is active.



CONTROLS AND INTERFACES

1. **POWER/VOLUME KNOB** – Turn clockwise to turn the power on and increase the volume level. Turn counter-clockwise to decrease the volume level and turn the power off
2. **ANTENNA**
3. **SPEAKER –** Build-in speaker
4. **PTT BUTTON –** Press and hold to transmit voice communications. Within menus, acts as a “Back” button to accept settings (if changed) and return to the prior menu level.
5. **EXTERNAL SPEAKER/MIC –** Accessory jack protected with a water and dust-proof cover.
6. **MIC –** Built-in microphone
7. **DOT-MATRIX LIQUID CRYSTAL DISPLAY (LCD)**
8. **DOWN/SOS SIREN BUTTON -**Use to scroll through Menu option. Press and hold for 3 seconds to activate the SOS Siren.
9. **MENU/WX/SCAN BUTTON** – Press access and advance “Forward” in menus. Press and hold for 3 seconds to enter NOAA Weather Radio modes and selections.
10. **UP/[arrow] BUTTON –** Use to scroll through Menu options.
11. **CALL/LOCK BUTTON –** Press to send a CALL Alert signal. Press and hold to turn KEY LOCK on/off.
12. **MONITOR/SCAN BUTTON –** Press to enter or exit SCAN mode. Press and hold to enter or exit MONITOR mode.
13. **TX/RX LED –** Indicates the radio is actively receiving (Green) or actively transmitting (Red).

INSTALLING THE BELT CLIP

To install the BELT CLIP, slide the clip down into the slot on the back of the radio until the BELT CLIP LATCH clicks. To remove the BELT CLIP, press the LOCK TABL down, then gently pull the belt clip up toward the top of the radio.

INSTALLING EXTERNAL ACCESSORIES

1. Remove the accessory jack cover and set it aside for safekeeping while using accessories.
2. Insert the accessory plug into the speaker/mic jack, making sure it is securely in place and has made a good connection.
3. Reinstall and tighten the accessory cover when finished using accessories.

[caution] Proper tightening of the accessory jack cover is necessary for maintaining the IP67 waterproof and dust-proof performance of the radio.

CHARGING THE BATTERY PACK

Your GXT67 series radio comes with a rechargeable internal battery that can be charged using the desktop charger or the vehicle power adapter. The desktop charger and USB-C cable are compatible with industry-standard PD (Power Delivery) and quick-charging USB-C AC Wall adapters.
The battery may be charged while the radio is either On or Off, but charging will take more time with the radio On.

Using the Desktop Charger

1. Connect one USB-C cable connector to a compatible AC wall adapter.
2. Connect the other USB-C cable connector to the Desktop charger.
3. Plug the AC wall adapter into a 110 Volt AC power outlet.
4. Insert the radio into the Desktop Charger. The LCD backlight will turn Red to indicate the radio is properly placed and charging.
5. Remove the radio from the charger when the LCD backlight turn GREEN, indicating it is fully charged.

Using the DC Vehicle Adapter

1. Plug the DC adapter into a DC vehicle power outlet. Make sure power is supplied to the outlet.
2. The LCD backlight will provide a Red indication while the radio is properly placed in the adapter, vehicle power is applied, and the battery is charging.
3. The LCD backlight will provide a Green indication while the radio is properly placed in the adapter, vehicle power is applied, and the battery is full.

BATTERY LEVEL INDICATOR

Your GXT67 has a BETTERY LEVEL METTER [icon] that shows the estimated remaining battery capacity (3 bars > 75%, 2 bars 50% to 74%, 1 bar 25% to 49%, shell only < 25%). When the battery level is low, the BATTERY SHELL icon will flash in the display indicating your battery needs to be recharged.

OPERATING YOUR RADIO

ABOUT RANGE

Your GXT67 radio is designed to give you a maximum range under optimum conditions.

[insert Midland range meter diagram]

Optimum Conditions are:

- Over water
- Open rural areas without obstructions
- Flat areas where you can see the other person.

To ensure you get maximum range:

- Be sure to use fresh or fully charged batteries – low batteries will cause low power conditions.
- Be sure you are on a GMRS channel
- Be sure to set your radio to use Hi power.

POWER ON/OFF AND VOLUME

1. Rotate the Power/Volume knob clockwise to turn on the radio and increase the volume.
    a. During power on, the radio will sound a power-up tone sequence (unless Silent mode is selected).
    b. The radio will return to the last channel used when powered on.
2. Rotate the Power/Volume knob counterclockwise to decrease the volume and turn off the radio.

VOICE COMMUNICATION

To communicate, radios must be set to the same channel and Privacy Code.

1. For maximum clarity, hold the radio 2 to 3 inches from your mouth.
2. Press and hold the PTT button and speak in a normal voice into the microphone. The TX indicator LED will be RED when your radio is receiving a transmission.

CHANNEL SELECTION

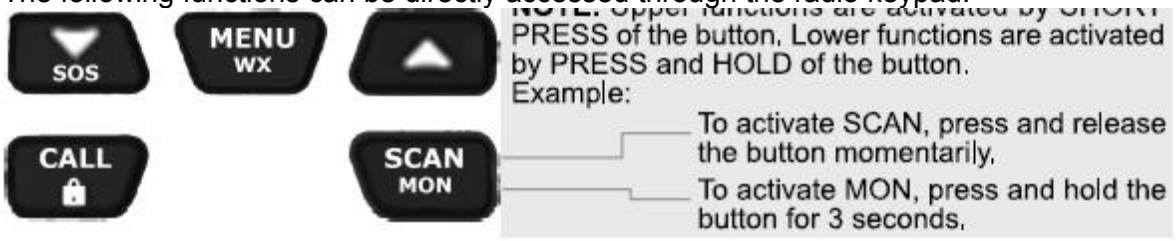
1. Briefly press the Menu button, then use the Up.Down arrow buttons to select one of the GMRS channels or Repeater channels (when enabled).
2. Press the PTT button to confirm the setting and resume normal radio operation.

DISPLAY ILLUMINATION

The display will automatically illuminate when the radio is first turned on, at the start of a new RX or TX activity, and when buttons are pressed. The display will automatically turn off.

KEYPAD FUNCTION

The following functions can be directly accessed through the radio keypad.



CALL ALERT

The GXT67 can send a “Call Tone” (direct call) to other radios to alert them you are about to transmit. Make sure Call Alert is turned on and a call tone is selected using the MENU function.

1. Briefly press the CALL/Lock button to transmit a CALL Alert.
2. The TX Icon will illuminate as the Call alert is transmitted.

KEYPAD LOCK

The Keypad can be locked to prevent accidental changes to the settings. You can transmit/receive voice transmissions, use Call Alert, activate the SOS Siren, and Monitor the channel while the keypad is locked.

1. Press and hold the CALL/Lock button for 3 seconds to lock/unlock the keypad.

MENU

See the sections below on how to access more features and configure the radio using the Menu button.

WEATHER

The GXT67 has a NOAA Weather Alert Radio built in. You can listen for current weather conditions or set it to automatically alert you to impending sever weather events or other civil emergencies. It also has Midland Advanced Weather Channel Scan that will scan all 10 weather channels and automatically stop on a Weather Channel with good broadcast signal.

- The radio must be set to a Weather Channel with good signal in your area for the Weather Alert feature to work correctly.
- Check with your local NWS office or go to the NWS website at https://www.weather.gov/nwr/station_listing to find your frequency. Use the chart to locate the Weather Channel setting number to be programmed into the radio. * Canadian Marine Frequencies

Channel	Frequency
1	162.550
2	162.400
3	162.475
4	162.425
5	162.450
6	162.500
7	162.525
8*	161.650
9*	161.775
10*	163.275

Weather Icon

When the WX icon is on, solid (not blinking) it indicates that the radio is prepared for receiving Alerts that are issued by tone-alert over NOAA Weather Radio (NWR). Regardless of the radio’s mode of operation, a WX icon that is on without blinking means that Weather Alert is enabled AND the currently selected Weather Channel’s signal is strong enough to receive Alerts.

In GMRS mode, a blinking WX icon means that Weather Alert is enabled, but the signal on the currently selected Weather Channel is NOT good enough to receive Alerts. During Weather modes, the WX icon will either remain on or blink, based upon whether or not the radio is prepared for receiving Alerts.

Weather Modes Navigation
[insert drawing of WX modes entry, navigation, & exit]

From GMRS mode, press and hold the Menu/WX [button graphic] button for 3 seconds to enter Weather Scan mode. Press Menu/WX again for Manual WX Channel Selection to set and listen to a selected Weather Channel. Press Menu/WX again to advance to Weather Alert On/Off Selection. Pressing Menu/WX will advance back to the start of Weather Modes (Weather Scan) and pressing PTT during Weather Alert selection will go "Back" (to Manual WX Channel Selection). Pressing PTT during Weather Scan and Manual WX Channel Selection exits "Back" to GMRS mode.

Weather Scan Mode
1. The radio will stop scanning on the first usable signal in your area and you will hear the NWR broadcast on that WX Channel.
2. The radio will automatically rescan if the Weather Channel signal becomes too weak. If you want to manually restart a Scan for a another Weather Channel signal, press the Up [button graphic] or Down [button graphic] button.

Manual WX Channel Selection
1. Use the Up [button graphic] or Down [button graphic] button to select the desired Weather Channel (see guidance for selecting a Weather Channel above). You will hear the NWR broadcast on that WX Channel.

Weather Alert On/Off Selection
1. Use the Up [button graphic] or Down [button graphic] button to select Weather Alert On (enabled) or Weather Alert Off (disabled).

Weather Alerts
When On / enabled, Weather Alerts can be received in both GMRS and Weather modes. Upon receiving a Weather Alert,
1. the radio will sound a Weather Alert notification tone sequence,
2. the WX icon will blink rapidly, and
3. the radio will switch to the Weather Channel display

Press any button to acknowledge the Weather Alert and stop the notification tones. After the Alert is acknowledged, the NWR broadcast will be heard. Use the PTT or Menu/WX buttons to exit or change the Weather modes.
If the Weather Alert is not acknowledged after about 20 seconds, the radio will automatically stop the notification tones and switch to the NWR broadcast but the Weather icon will continue blinking rapidly to indicate there has been a Weather Alert. Press any button to acknowledge the Alert, then use PTT or Menu/WX to exit or change Weather modes.

CHANNEL SCAN

1. Briefly press the Scan/Monitor button to turn Scan on or off.
2. The radio will rapidly scan through the selected channels stopping briefly on a channel in use to hear the conversation.

NOTE: Each Channel can be configured to include in Channel Scan or to skip when scanning.

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select SCAN SELECT in the RADIO OPTIONS menu, and press the MENU button.
3. There are two "bulk" operations available before proceeding to per-channel Scan/Skip selections.
   - Select SCAN ALL and press MENU if you want to scan all, or most, of the Channels. Then proceed to select SKIP for any Channels you want to exclude from scanning.
   - Select SKIP ALL and press MENU if you want to scan just a few Channels. Then proceed to select SCAN for the Channels you want to include in scanning. Note that Channel Scan will not be performed unless two or more channels are selected to Scan.
4. After doing SCAN ALL or SKIP ALL operations, or after pressing MENU with SELECT CHANNELS selected, Channel 1 is displayed with its current selection. For each Channel, press MENU to advance to the next Channel after selecting the SKIP or SCAN for the Channel. Press PTT to go "back" if you do not need to advance through all the remaining Channels.

3. You may join the conversation by pressing the **PTT** button and using the radio normally.
4. The radio will return to scanning after 5 seconds of inactivity.

MONITOR

1. Press and hold the Scan/Monitor button for 3 seconds to turn Monitor on or off.
   - Monitor is used to check for channel traffic before you transmit.

SOS SIREN

The GXT67 can sound a loud siren to alert others you need assistance.

1. Press and hold the Down Arrow/SOS button for 3 seconds to activate the SOS siren.

GENERAL MENU NAVIGATION GUIDE

From GMRS mode, pressing Menu provides for Channel Selection as described above. Pressing Menu again enters the top menu for advanced functions and radio configuration. Reception of transmissions from other radios and reception of Weather Alerts is inhibited during Menu operations.

[Add a simple graphic with three boxes and arrowed lines between them – GMRS mode; Channel Selection; Top Menu.]

Make menu and configuration selections using the buttons as follows:

1. The Menu [button graphic] button performs Forward / Next operations. Pressing Menu accepts and saves any changes and proceeds to the next menu level or the next selection item. If already at the lowest menu level or the last selected item, pressing Menu accepts any changes and returns to the prior menu level. One exception is with Dual Watch Pro, where pressing Menu after the last selection item exits menus to perform Dual Watch Pro scanning in GMRS mode.
2. The PTT button performs Back / Exit operations. Pressing PTT accepts and saves any changes and goes back to the prior menu level. At the top menu, PTT exits to GMRS mode.
3. The Up [button graphic] and Down [button graphic] buttons change the menu, function, or configuration option selection.

NOTE: If there is no button activity for about 10 seconds during Menu operation, changes to advanced feature or option selections will be saved and the Menu will automatically exit to GMRS mode.

GROUP MODE

In Group mode, you can set up groups of radio users so that you can do a Group Call alert to only one Group, or all Groups with the same Group Code. Voice communications are heard by all Groups using the same Group Code, but with Group Call you can identify yourself as the caller and alert the Group(s) you call that the communication is specifically meant for them.

1. Group Mode only works on channels 1-22.
2. To use Group mode, you must first
    1. Turn Group Mode operation on
    2. Set up a Group Code
    3. Set the radio's Group Number / Group ID
    4. Set the Group Caller ID
    5. Set the Group Ring Tone
3. While operating in Group Mode, the GROUP icon is displayed along with the Group ID number and Group Code number for easy reference.

- To communicate between radios in Group Mode, the radios must be set to the same Channel and Group Code selections.
- Make note of the settings used while setting up GROUP MODE so others can identify you and call your Group.
- **Leave GROUP MODE off** to keep the radio in normal "GMRS" mode and include radios without GROUP MODE.

SET THE RADIO TO GROUP MODE

1. Set the radio to a Channel between 1 and 22.
2. Select GROUP MODE from the Top Menu.
3. Use the Up/Down arrow to either turn Group mode ON or OFF.
4. Press MENU to advance to the next setting, GROUP CODE

SET A GROUP CODE

1. After selecting Group Mode On, press Menu to set the Group Code.
2. Use the Up/Down arrow button to select one of the 143 group codes (0 – 142).
3. Press MENU again to advance to the next setting, GROUP ID.

SET GROUP ID

1. Once the GROUP CODE is set, press menu to set the GROUP ID.
    a. "Id" will be shown on the display with the Code digits flashing to the right.
2. Use the UP/DOWN arrow to select one of the 10 Group Numbers / Group IDs.
3. Press MENU to advance to the next setting, Group Caller ID.

SET GROUP CALLER ID

1. After the GROUP ID is set, press Menu to set your Group CALLER ID.
    - CALLER ID will identify you as the caller when transmitting a Group Call.
    - CALLER ID is a 4-digit number selected by the user.
2. The first digit in the display will be flashing. Use the Up/Down arrow button to select the first digit of your CALLER ID.
3. Press the SCAN/MON button to advance to the next digit. Use the Up/Down arrow to make the selection.
4. Repeat step 3 until all 4 digits are set.
5. Press MENU to advance to the next setting, GROUP RING TONE

SET A GROUP RING TONE

1. After the CALLER ID is set, press Menu to set your RING TONE.
    - Your RING TONE will sound when you receive a Group Call.
2. Use the UP/DOWN arrow button to select one of the 5 Group Ring Tones.

MAKING A GROUP CALL

Group Call allows you to do a Group Call alert to only one Group, or all Groups with the same Group Code.

- You must be in Group Mode for Group Call to function.
- Only radios set to the same Channel and Group Code will receive your Group Call.

1. While in Group Mode, press the CALL/LOCK button.
2. Use the UP/DOWN arrow buttons to select a specific Group Number / Group ID to receive your call, or select "ALL" Groups to receive the call.
3. Press CALL/LOCK again to send the Call to only the selected Group.

REPEATER OPERATION

The GXT67 can access a national network of Repeaters that can extend the range of the radio when using Repeater Channels 15 - 22. Repeater Channels operate with different reception and transmission frequencies.

1. Select REPEATER from the Top Menu and press the MENU button.
2. Use Up/Down to select whether Repeater Channels will be available for use (Enabled) or not available for use (Disabled).
3. When MENU is pressed with Repeaters ENABLED, a sub-menu for configuring Repeater Channels is provided.

4. For each Repeater Channel (RPTR 15 through RPTR 22), separate Receive (RX) and Transmit (TX) Privacy Codes may be selected. Select the Repeater Channel you want to configure and press MENU, then select Privacy Codes as described in the SETTING PRIVACY CODES section - first for the RX Privacy Code, then for the TX Privacy Code.

SETTING PRIVACY CODES

When not in Group Mode and on a Channel that supports it, you can select from one of the 142 Privacy codes to increase privacy and reduce interference on a channel.

- You can only select a Privacy Code when GROUP MODE is off and for channels 1-22 or Repeater Channels 15 - 22.
  - Channels 23-50 have preset Privacy Codes that cannot be changed.
  - Group Mode settings supersede Privacy Code settings.
- Repeater channels provide for “Split Tones” – selection of separate Receive and Transmit Privacy Codes, which may be the same or different.
- Select from 38 CTCSS, 104 DCS codes or OFF for each channel.
  - Radio with Privacy codes Off will disable this function, increasing interference and reducing Privacy.
- The selected Privacy Code can be different for each channel.
- Radios must be using the same Privacy code and channel to work together.

BANDWIDTH

You can choose between using Wide or Narrow bandwidth on channels 1-7, 15-22, and Repeater 15 - 22. All other channels are preset to Narrow band.

- Narrow Band may reduce effects of interference in some situations
- Wideband may improve voice quality and is the setting used by most Repeaters.
- For best results, make sure transmitting and receiving radios both use the same bandwidth setting.

1. Select Channel Options (CHAN OPTIONS) from the Top Menu and press the MENU button.
2. Select BAND in the CHAN OPTIONS menu, and press the MENU button.
3. Press Menu to accept the setting and advance to the next setting.

TRANSMIT (TX) POWER

You can select from 3 power levels on channels 1-7, 15-33, 38-50, and Repeater 15 - 22. Channels 8-14 and 34-37 are preset to low power.

- Lower power will reduce range but increase battery life.
- Higher power will increase range but reduce battery life.

NOTE: If the battery charge level is not adequate for transmitting at the configured power level, the radio will automatically "fall back" to use a lower TX power level during transmission. The TX Power icon will blink and show the TX power level being used for the transmission.

1. Select Channel Options (CHAN OPTIONS) from the Top Menu and press the MENU button.
2. Select TX POWER in the CHAN OPTIONS menu, and press the MENU button.
3. Use the UP/Down Arrow to select between LOW, MEDIUM, or HIGH transmission power.
4. Press Menu to accept the setting and advance to the next setting.

VOX

Voice Operated Transmission ("VOX") provides for hands-free operation by transmitting when you speak into the microphone and without pressing the PTT button. You can select between 9 sensitivity levels for VOX. You can think of the VOX sensitivity number as "how loud I need to speak to activate transmission". The default VOX setting is Off ("of").

- The lower the sensitivity number, the easier the radio will respond to your voice, but will also increase background noise and accidental transmissions.
- The higher settings reduce the likelihood of an accidental transmission, but also require you to speak louder into the radio microphone to transmit.

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select VOX in the RADIO OPTIONS menu and press the MENU button.
3. Use the UP/Down Arrow to select between 4 sensitivity levels or "OFF"

SILENT OPERATION/BUTTON BEEPS

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select SILENT in the RADIO OPTIONS menu and press the MENU button.
3. Use the UP/Down Arrow to turn the Button Beeps ON or Off.
4. Press Menu to accept the setting and advance to the next setting.

ROGER BEEP

When Roger Beep is on, the radio will transmit a tone to other radios when you release the PTT to confirm you have ended your transmission and others may begin.

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select ROGER BEEP in the RADIO OPTIONS menu and press the MENU button.
3. Use the UP/Down Arrow to turn Roger Beep ON or Off.
4. Press Menu to accept the setting.

CALL ALERT TONE SELECTION

Select the Call Alert tones that you want to sound when you transmit a Direct Call.

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select CALL TONE in the RADIO OPTIONS menu and press the MENU button.
3. Use the UP/Down Arrow to select from one of the 10 different Call Tones.
4. Press Menu to accept the setting.

BACKLIGHT SELECTION and SCREEN COLOR SELECTION

VIBRATE ALERT

Vibrate Alert will vibrate the radio instead of sounding tones to alert you when receiving a Direct Call or Group Call from another radio that is compatible with your radio's Vibrate function. The other, calling radio does not need to be set for Vibrate in order for you to choose Vibrate alerting for your radio.

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select VIBRATE in the RADIO OPTIONS menu and press the MENU button.
3. Use the UP/Down Arrow to turn Vibrate Alert ON or Off.
    - The Vibrate Alert Icon will remain on when the function is activated.
4. Press Menu to accept the setting.

WHISPER MODE

Whisper Mode allows you to speak softly into your microphone but transmit at a higher voice volume level.

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select WHISPER in the RADIO OPTIONS menu and press the MENU button.
3. Use the UP/Down Arrow to turn Whisper Mode ON or Off.
    - The WI Icon will remain on when the function is activated.
4. Press Menu to accept the setting.

MICROPHONE NOISE CANCELLATION

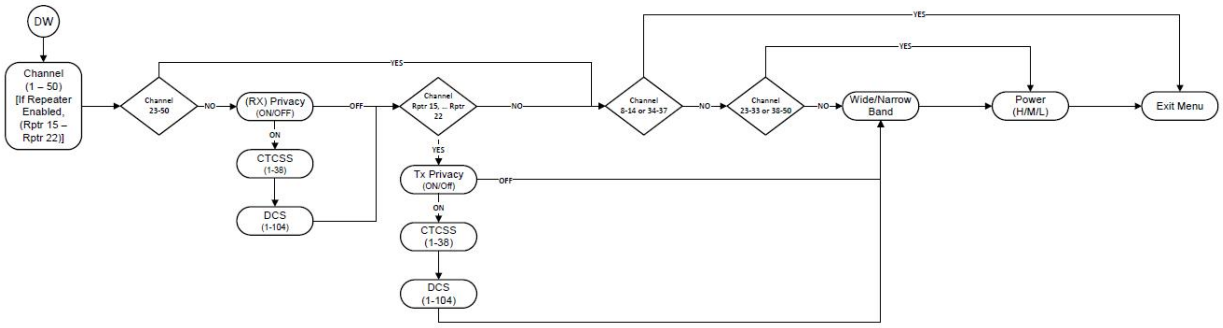
Active Noise Cancellation (ANC) can be applied to the sound detected by the microphone before transmitting it to other radios.

- When On, ANC works to 'keep' sounds with the characteristics of voice but suppress sounds interpreted as background noise. This is most helpful for keeping your voice understandable when you are in a loud or noisy environment. However, ANC may suppress desired sounds if you want receiving radios to hear other voices or sounds occurring around you.
- When Off, the radio will not suppress sounds detected by the microphone. This is most helpful when transmitting in a quiet environment or when you want receiving radios to hear other voices and sounds occurring around you. However, the background sounds may make it harder to understand what you are saying.

1. Select RADIO OPTIONS from the Top Menu and press the MENU button.
2. Select TX NOISE CANCEL in the RADIO OPTIONS menu, and press the MENU button.
3. Use Up/Down to select ANC as enabled (ON) or disabled (OFF)

DUAL WATCH PRO

Dual Watch Pro allows you to scan two channels for activity. The radio's current channel will be used as the starting Primary channel (A), and the Secondary channel (B) to be scanned will start with the channel set through the menu. Refer to the following flowchart for configuration from Dual Watch Pro menus.



1. Press the MENU button twice and increment to “DUAL WATCH PRO” then press the MENU button.
2. Use the UP/Down Arrow to turn Dual Watch ON and select the second channel to be scanned.
3. Once you have selected the primary channel, press the Menu button again to select the secondary channel.
4. Once you have selected the Secondary channel, press the Menu button again to accept the setting.

- Privacy codes can only be set on Channels 1-22.
- Note that Dual Watch Pro operation is not available while in Group Mode. Exit Group Mode in order to use Dual Watch Pro.

5. When in Dual Watch Mode:
   - The “DW” Icon will remain on.
   - The radio display will show the channel being scanned, A or B.
   - Pressing the PTT will transmit on the Primary (A) Channel.
   - You can swap which channels are Primary (A) and Secondary (B) by pressing the Up or Down arrow while scanning.
   - The radio will stop scanning when a transmission is received.
   - Press the PTT to join the conversation.
   - The radio will resume Dual Watch Pro scanning after 5 seconds of inactivity.
6. Press the SCAN button to turn Dual Watch Pro off and return to normal GMRS operation.

TROUBLESHOOTING GUIDE

PROBLEM	SOLUTION
No Power	- Check battery charge.
Cannot Receive Messages	- Confirm the radios have the same frequency and privacy code channel settings. - Make sure that you are within range of the other transceivers. - Buildings and other structures may interfere with your communication. ***(See ABOUT RANGE on Page 9)***
Radio is not responding to button presses	- Make sure key lock is not on ***(See KEYPAD LOCK on Page 11)***. - Radio might need to be reset. Turn radio off then on.
Display is dim	- Recharge or replace batteries.
Charger not functioning	- Contacts on the bottom of the radio may require cleaning. - Ensure the outlet where the charger is plugged in is functioning properly.

If you have a problem that you believe requires service, please call first and speak with a service technician at 816-241-8500. Many problems can be remedied over the phone without returning the unit for service.

IMPORTANT: Changes or modifications to this unit not expressly approved by MIDLAND RADIO CORP. could void your right to operate this unit. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the COMMUNICATOR to exceed those limitations. Any Adjustment to your radio must be made by qualified technicians.

USE AND CARE

1. Use a soft damp cloth to clean the radio.
2. Do not use alcohol or cleaning solutions to clean the radio.
3. Do not immerse the radio in water.
4. Dry the radio with a dry lint-free cloth should it get wet.

SPECIFICATIONS

Channels:

30 GMRS Channels
10 NOAA Weather (WX) Band Channels

Operating Frequency:

462.5500-462.7250MHz
462.5625-462.7125MHz
467.5500-467.7250MHz
467.5625-467.7125MHz

Power Source:

7.4V 2400mAh Li-ion Battery

Operation Frequency Detail:

Channel Type	Channel Number	Frequency (MHz)	Channel Type	Channel Number	Frequency (MHz)
462 MHz Main Channels	1	462.5500	467 MHz Main Channels	1	467.5500
	2	462.5750		2	467.5750
	3	462.6000		3	467.6000
	4	**462.6250**		4	**467.6250**
	5	462.6500		5	467.6500
	6	462.6750		6	467.6750
	7	462.7000		7	467.7000
	8	462.7250		8	467.7250
462 MHz interstitial channels	1	462.5625	467 MHz interstitial channels	1	467.5625
	2	462.5875		2	467.5875
	3	462.6125		3	467.6125
	4	**462.6375**		4	**467.6375**
	5	462.6625		5	467.6625
	6	462.6875		6	467.6875
	7	462.7125		7	467.7125

MIDLAND PRESET CHANNELS

Midland Preset Channel	Frequency	GMRS Channel	Privacy Code	Midland Preset Channel	Frequency	GMRS Channel	Privacy Code
Channel 23	462.5625	1	CTCSS 38	Channel 37*	467.7125	14	DCS 19
Channel 24	462.6125	3	CTCSS 35	Channel 38	462.5750	16	DCS 22
Channel 25	462.6625	5	CTCSS 32	Channel 39	462.6250	18	DCS 25
Channel 26	462.7125	7	CTCSS 29	Channel 40	462.6750	20	DCS 28
Channel 27	462.5500	15	CTCSS 26	Channel 41	462.7250	22	DCS 31
Channel 28	462.6000	17	CTCSS 23	Channel 42	462.5625	1	CTCSS 14
Channel 29	462.6500	19	CTCSS 20	Channel 43	462.6125	3	CTCSS 11
Channel 30	462.7000	21	CTCSS 17	Channel 44	462.6625	5	CTCSS 8
Channel 31	462.5875	2	DCS 1	Channel 45	462.7125	7	CTCSS 5
Channel 32	462.6375	4	DCS 4	Channel 46	462.5500	15	CTCSS 2
Channel 33	462.6875	6	DCS 7	Channel 47	462.6000	17	CTCSS 37
Channel 34*	467.5625	8	DCS 10	Channel 48	462.6500	19	CTCSS 34
Channel 35*	467.6125	10	DCS 13	Channel 49	462.7000	21	CTCSS 31
Channel 36*	467.6625	12	DCS 16	Channel 50	462.7250	2	DCS 2

GMRS REPEATER FREQUENCY CHART

Channel No.	TX Freq.	RX Freq.
RP15	467.5500	462.5500
RP16	467.5750	462.5750
RP17	467.6000	462.6000
RP18	467.6250	462.6250
RP19	467.6500	462.6500
RP20	467.6750	462.6750
RP21	467.7000	462.7000
RP22	467.7250	462.7250

NOAA WEATHER (WX) RADIO FREQUENCY CHART (MHz)

Channel No.	Channel Freq.	Channel No.	Channel Freq.
1	162.550	6	162.500
2	162.400	7	162.525
3	162.475	8	161.650
4	162.425	9	161.775
5	162.450	10	163.275

* Channel 8, 9 and 10 are designated Canadian Marine Frequencies

CTCSS PRIVACY CODES FREQUENCY CHART (Hz)

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

Note: Privacy Codes can only be programmed for use on Channels 1-22 and Repeater channels.

DCS PRIVACY CODE CHART

No.	CODE	No.	CODE	No.	CODE	No.	CODE
1	023	27	165	53	413	79	731
2	025	28	172	54	423	80	732
3	026	29	174	55	431	81	734
4	031	30	205	56	432	82	743
5	032	31	223	57	445	83	754
6	043	32	226	58	464	84	036
7	047	33	243	59	465	85	053
8	051	34	244	60	466	86	122
9	054	35	245	61	503	87	145
10	065	36	251	62	506	88	212
11	071	37	261	63	516	89	225
12	072	38	263	64	532	90	246
13	073	39	265	65	546	91	252
14	074	40	271	66	565	92	255
15	114	41	306	67	606	93	266
16	115	42	311	68	612	94	274
17	116	43	315	69	624	95	325
18	125	44	331	70	627	96	332
19	131	45	343	71	631	97	356
20	132	46	346	72	632	98	446
21	134	47	351	73	654	99	452
22	143	48	364	74	662	100	454
23	152	49	365	75	664	101	455
24	155	50	371	76	703	102	462
25	156	51	411	77	712	103	523
26	162	52	412	78	723	104	526

Note: Privacy Codes can only be programmed for use on Channels 1-22 and Repeater channels.

ACCESSORIES

Accessories can be purchased at midlandusa.com

AVP1 – Over the Ear Headsets
AVPH2 – Closed Face Helmet Headset
AVPH3 – Surveillance Headsets
AVPH4 – Wrap Around the Ear Headsets
AVPH5 – Behind the Head Headsets
AVPH7 – Camo Headsets with Boom Mic
AVP-H8 – Acoustic Throat Mic
AVPH10 - Should Speaker Mic

[Insert Mandatories]

The Radio is pre-configured with 8 GMRS repeater channels: 467.5500, 467.5750,467.6000, 467.6250, 467.6500, 467.6750, 467.7000, and 467.7250 MHz. In basic terms, a repeater is a device that is used to increase the range of two way radios.Repeaters will receive a transmission on one frequency and simultaneously rebroadcast that transmission on a different frequency. Repeaters are often set up in a fixed location and connected to an antenna that is mounted at a higher elevation to provide better range than is normally available with radio-to-radio (simplex) communications.

Using GMRS repeaters can significantly increase the range of your radio, but just tuning to one of the repeater channels isn't necessarily going to work. You first have to be sure there is a repeater listening on that channel's frequency, and you have to be within range of that repeater.

It is important to keep in mind that a GMRS repeater is not necessarily intended for public use. They are owned by individuals and are sometimes intended for private use or require permission to use. Before connecting to a GMRS repeater, be sure that you have permission or that the owner is fine with public use. The description on the myGMRS website usually indicates if permission is required and provides a way to get in touch with the owner.

FCC Statement:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

SAR tests are conducted using standard operating positions accepted by FCC with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is a available for sale to the public, it must be tested and certified to the FCC that is does not exceed the exposure limit established by the FCC. Tests for each product are performed in positions and locations as required by the FCC.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines when used with and accessory designated for this product or when used with and accessory that contains no metal.

To maintain compliance with FCC RF exposure guidelines hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face.

The equipment complies with FCC radiation exposure limits set forth for and uncontrolled environment. In order to comply with the FCC RF exposure requirement, the antenna installation must comply with following:

Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out radio frequency (RF) signals when the Push-to-Talk(PTT) button is pressed.

The device is authorized to operate at a duty factor not to exceed 50%.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.