Thank you for purchasing the Wouxun KG-905G portable GMRS radio.

Your feedback makes our products better. Please share your thoughts.

feedback@buytwowayradios.com
www.buytwowayradios.com

Contents

Safety Information

The KG-905G is an electrical apparatus, as well as a generator of RF (Radio Frequency) energy, and you should exercise all safety precautions as are appropriate for this type of device.

Please read the suggestions and warnings below before using the transceiver.

- ⚠ Keep the transceiver and accessories out of the reach of children.
- ⚠ Do not disassemble the transceiver.
- ⚠ Only use the supplied battery pack and charger or genuine Wouxun branded replacements purchased from an authorized dealer. Using improper batteries and charging accessories can damage the transceiver.
- ⚠ The supplied antenna is tuned for the frequencies supported by this transceiver. Using an aftermarket antenna can damage the transceiver.
- ⚠ Do not leave the transceiver exposed to direct sunlight or in overheated areas for an extended period of time.
- ⚠ Keep the transceiver away from dusty or humid areas.

Safety Information

⚠ The transceiver should be cleaned with mild detergents and a soft brush or cloth. Avoid cleaning with agressive chemicals.

⚠ NEVER transmit without a properly connected antenna.

⚠ If an abnormal odor or smoke is detected from the transceiver, power it off immediately, then remove the battery pack. Contact your dealer for further assistance.

Notice

- These tips are important for safe operation of your KG-905G radio and its accessories. If the transceiver does not function normally, please get in touch with your dealer immediately.
- If you use components or accessories not produced by the Wouxun Company, Wouxun will not guarantee the safety and usability of the transceiver.

Caution

Please read this manual before using the radio, as it includes important instructions for the safe handling, use and operation of your radio.

FCC Compliance

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.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND US FEDERAL LAW.

Radio Operation and EME Exposure

Use only an antenna designed for use with this radio and its operating frequencies. Unauthorized modifications or attachments may damage the radio and violate FCC rules.

DO NOT hold the antenna while the radio is in use.

DO NOT attempt to use the radio with a damaged antenna.

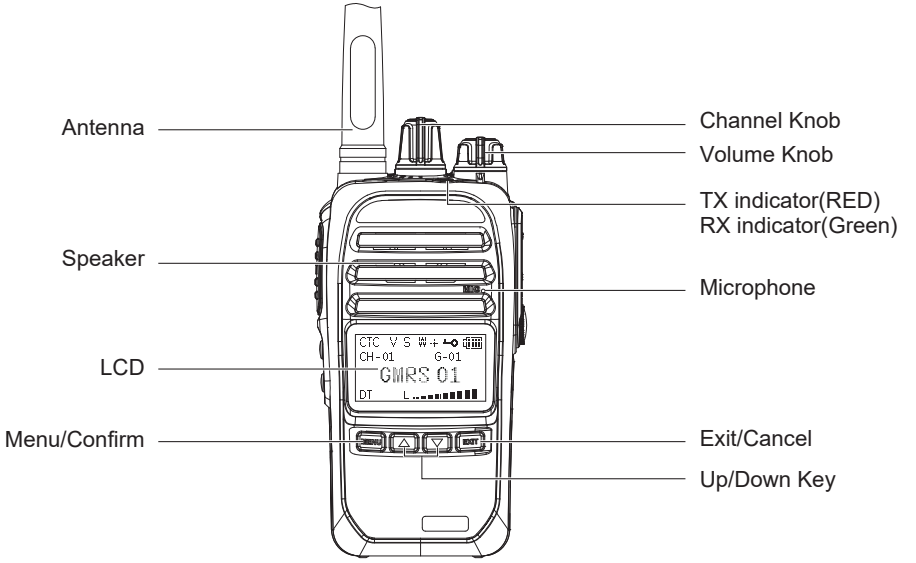
FCC Licensing Information

The Wouxun KG-905G is FCC Part 95E type accepted for use on the GMRS. The KG-905G operates on General Mobile Radio Service (GMRS) frequencies according to the Federal Communications Commission (FCC) Rules in the United States. As such, a GMRS license is required to transmit on these frequencies. To obtain an FCC license for the GMRS, please go to the FCC's web site and complete the online application or request FCC Form 605.

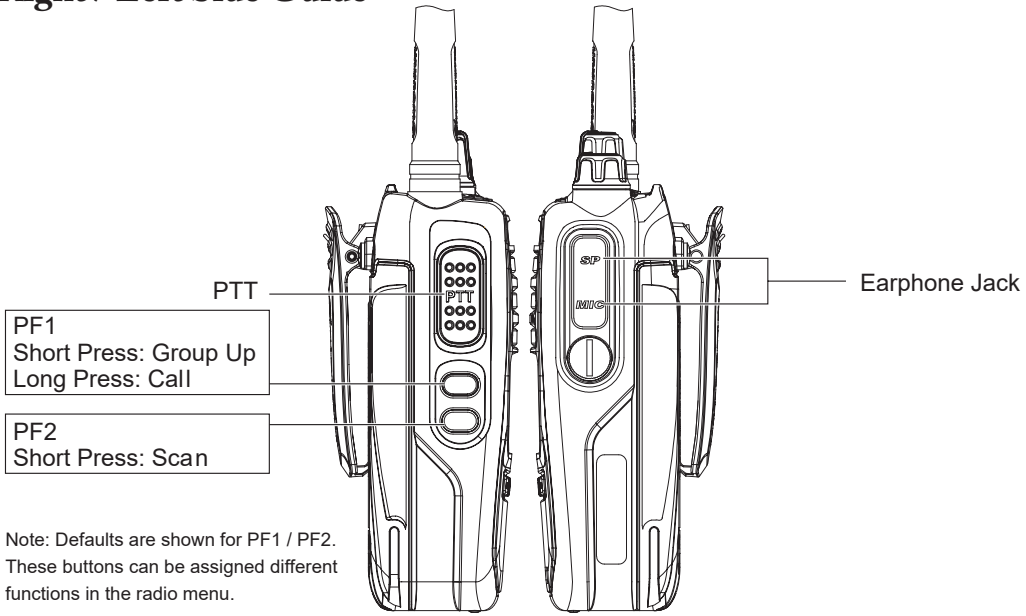
Feature Summary

- 30 GMRS Channels
- 8 Built-In GMRS Repeater Channels
- Up to 5 Watts Output Power
- IP66 Waterproof
- Easy-To-Read Text Display
- 16 Channel Groups
- Up to 256 Custom Channels
- Display Channel Name, Number, or Frequency
- CTCSS/DCS Tone Scan
- Split CTCSS/DCS Tone Support
- Standard and Non-Std CTCSS/DCS
- High/Low Power Selectable
- 2 Configurable Side Keys
- English Voice Guide
- PC Programming Software Support
- Channel Scan
- Priority Channel Scanning
- Single Tone Pulse Frequency
- Stopwatch Timer
- Receive (RX) Frequency Range:
  400-479.995 MHz
- Transmit (TX) Frequency Range:
  462.550-462.725MHz (GMRS Channels 1-7 and 15-22)
  467.550-467.725MHz (GMRS Channels 8-14 & Repeater 23-30)

Front Panel Guide

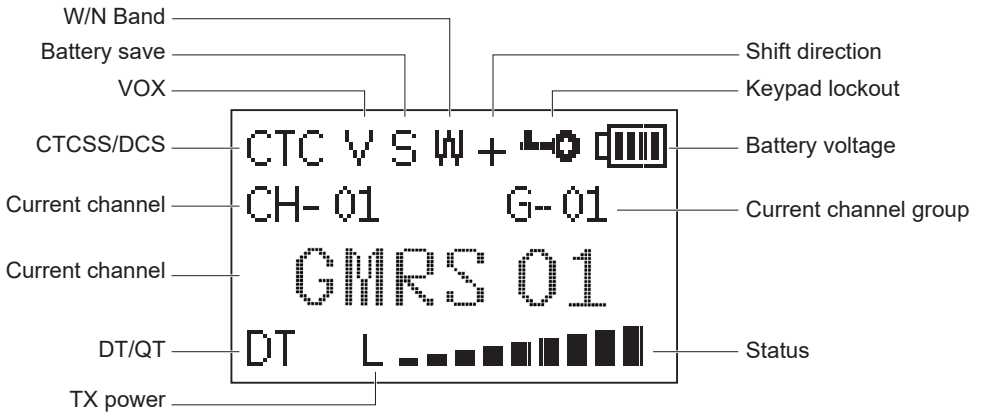


Right / Left Side Guide



Note: Defaults are shown for PF1 / PF2. These buttons can be assigned different functions in the radio menu.

Display Guide



Introducing GMRS and the KG-905G

The General Mobile Radio Service (GMRS) is a two way radio service that offers some powerful benefits. Users are allowed to transmit at high power, up to 50 watts, and use advanced equipment, such as repeaters that enable you to transmit over large areas. The GMRS requires the user to purchase a license, and a single license covers the user and their extended family for 10 years.

The KG-905G was designed to allow you to take advantage of all that GMRS has to offer and more. Right out of the box this radio is configured to allow you to transmit on the 15 high powered GMRS simplex channels and 8 low powered simplex channels, as well as the 8 repeater channels.

Read this chapter to learn the basics of using your new KG-905G radio, such as selecting a channel, transmitting and receiving, and scanning.

Power On/Off and Adjusting Volume

Rotate the volume knob clockwise to power on the radio. To power off the radio, rotate the volume knob counter-clockwise until a click is felt.

To adjust the volume, use the volume knob when the radio is powered on. Turning the knob clockwise increases the volume, counter-clockwise decreases it.

Your First Transmit

Selecting a Channel

When you power on your KG-905G for the first time, the display will likely show "GMRS01" in the center with "CH-01" and "G-01" just above. GMRS01 is the name of the currently selected channel. G-01 is the currently selected channel group, and CH-01 is the channel number within the group. Turn the Channel Knob or the [UP] / [DOWN] arrow keys to navigate through the list of channels.

As a licensed GMRS user you are allowed to use any of the channels. The channel you choose isn't as important as making sure it's the same channel the rest of your group is

using. Be sure the channel you select is also supported by the equipment everyone else in your group is using.

Most rules for GMRS are the same for all channels, but there are a few differences, particularly concerning output power. The KG-905G divides the GMRS channels into 4 groups, with the following differences:

- Group 01: Standard GMRS channels 1-7. These channels are limited to 5 watts of output power.
- Group 02: Standard GMRS channels 8-14 are limited to a half watt of output power and are for use on Low power only. Prior to FCC changes made in 2017, these channels were part of the FRS service only and were not available for GMRS.
- Group 03: Standard GMRS channels 15-22. These channels are authorized for up to 50 watts of output power. Prior to FCC changes made in 2017, this group was exclusive to GMRS (not part of FRS).
- Group 04: This is the repeater group. These channels correspond to the channels in group 03, but transmit on a special offset frequency set aside for repeaters. See page

20 for more information about using the KG-905G with repeaters.

Transmitting and Receiving

With a channel selected, the radio is actively "listening" for an incoming signal on that channel. When a signal is detected, the transmission will be heard through the radio's speaker. Please note, the Squelch setting (page 33) determines how strong a signal needs to be in order to be detected.

To transmit, first be sure the channel is clear and then hold the radio a few inches from your mouth. Hold down the PTT button on the side while talking and release the PTT when finished.

Channels and Channel Groups

The KG-905G supports channel groups, which allow you to essentially categorize channels for easier access. By default the 30 built-in channels are divided into 4 channel groups, described in the Selecting a Channel section (page 16).

The transceiver is configured out of the box to function similar to typical radios that do

not support channel groups. Using the Channel Knob or the [UP] / [DOWN] keys will move to the next/previous channel. Once you reach the last assigned channel in the current group, moving to the next channel will automatically move to the first channel of the next group.

By default the [PF1] side key is assigned to the [Group-Up] function. Pressing [PF1] will move to the first channel of the next group. If currently on the highest group number with assigned channels, the radio will move back to the first channel of the first group (G-01).

Channel groups are a great tool for power users, particularly those managing a large number of channels or who operate in various regions. Groups allow you to skip more quickly to the channel that you need. Groups also allow selective scanning. Use the [SCN-GP] menu option (page 41) to adjust the scan function to only scan a specific group number.

The KG-905G supports 16 groups with 16 channels per group. Channels can be added, deleted or reordered via the PC programming software.

Using the Repeater Channels

The KG-905G is pre-configured with 8 GMRS repeater channels. The channels are in Group 04 and are named RPT-15 through RPT-22.

What is a Repeater?

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.

Locating a Repeater

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 frequency, and you have to be within range of that repeater.

The best resource for locating GMRS repeaters is the website www.myGMRS.com. This site has an extensive database of GMRS repeaters throughout the United States. 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.

KG-905G Repeater Channels

Group 04 channels (RPT-15 through RPT-22) have the same receive frequency as Group 03 channels (GMRS-15 through GMRS-22). However, the transmit frequency for these channels is assigned to a frequency specifically designated as a GMRS repeater input frequency. The following chart lists the default frequencies for these channels.

Number	Channel	Receive Frequency	Transmit Frequency
G4-1	RPT-15	462.5500	467.5500
G4-2	RPT-16	462.5750	467.5750
G4-3	RPT-17	462.6000	467.6000
G4-4	RPT-18	462.6250	467.6250
G4-5	RPT-19	462.6500	467.6500
G4-6	RPT-20	462.6750	467.6750
G4-7	RPT-21	462.7000	467.7000
G4-8	RPT-22	462.7250	467.7250

Channel Scan

By default the [PF2] key is assigned to the SCAN function. In standby, press the [PF2] key to initiate a channel scan. The radio will scan each channel for activity, starting from the current channel. Pressing the [UP] / [DOWN] keys while scanning will change the direction of the scan from low to high ([UP]) or high to low ([DOWN]). Press any

other key to stop the scan. Refer to the Scan Method menu item (p 37) for more information on the types of scans available.

Priority Channel Scan

The KG-905G supports Priority Channel Scanning. With this feature, a priority channel can be specified that is scanned much more frequently than other channels. This helps prevent missing all or part of a transmission when you are primarily concerned with a single channel.

Priority Channel Scanning works by scanning your priority channel in between all other channels. For example, if your priority channel is 3 the radio would scan your channel list in the following order:

1 ▸ 3 ▸ 2 ▸ 3 ▸ 3 ▸ 3 ▸ 4 ▸ 3 ▸ 5 ▸ 3 ▸ ...

To set a priority channel, use the Priority Channel menu item (p 38). To activate the Priority Channel Scanning feature, use the Priority Scan menu item (p 39).

Scan can be configured to scan all channel groups (default), or any specific channel

group. Refer to the Scan Group menu item (p 41) to adjust this setting.

Individual channels can be added or removed from the scan list using the Scan Add menu item (p 40).

Scanning CTCSS / DCS Codes

The KG-905G is equipped with the ability to scan an incoming signal for a CTCSS or DCS tone and update the current channel's tone settings once the tone is identified.

To activate CTCSS / DCS scan, press the [MENU] key and navigate to the SCN-CD menu item. Press [MENU] again to enter the menu item and you will see "SEEK QT" on the screen.

The scan will begin when a signal is received. The scan will stop when the signal ends and resume from where it left off the next time the signal is received, until it identifies the correct tone. Use the [UP]/[DOWN] arrow keys to scan in a different direction. Use the [PF2] side key to toggle between scanning the standard CTCSS, positive DCS, and negative DCS tone list.

See the SCN-CD menu item (p 41) for more information.

Key Lock

The keys on the KG-905G can be locked to prevent them from being accidentally pressed. When the Key Lock is enabled, keys chosen in the LOCK-M function (page 42) will be disabled.

To activate the Key Lock, press and long press the [EXIT] key. The LOCK? prompt will appear on the display. Continue to hold down the [EXIT] key for two seconds. The key icon will appear at the top of the display. The buttons are now disabled.

To disable the Key Lock, press and hold the [EXIT] key for three seconds. The key icon will disappear from the top of the display. The buttons should now be enabled.

The KG-905G also has an Auto Lock feature. When activated, it will automatically lock the keypad after a specified period of time. The AU-LOCK option is located in the menu (page 42).

Keypad Function Keys

The keypad includes 4 function keys to perform specific operations on the radio and control various functions. The chart below lists the keys and what they do.

Key	Function
MENU	Enter Area menu, select options and save selection
EXIT	Short Press: Exit the menu or cancel a function Long Press: Lock/unlock keypad (page 25)
UP	Goes to the next channel, frequency or menu item
DOWN	Goes to the previous channel, frequency or menu item

Programmable Function Keys

The KG-905G has two programmable keys called [PF1] and [PF2] located on the left side of the radio below the PTT key. Each key can perform two different functions, one activated with a short press and one with a long press. These functions can be assigned to the [PF1] and [PF2] keys from the menu (pp. 43-44). They can also be assigned

via the programming software.

Default Key	Function	Description
	OFF	Disable the Function Key press
	ALARM	Transmit alarm (page 28)
PF1 Long	CALL	Sends a call ID (page 29)
	GRP-DO	Move down to previous channel group (p 18)
PF1 Short	GRP-UP	Move up to next channel group (p 18)
	LAMP	Activate backlight (page 29)
PF2 Long	MONITOR	Monitor channel (page 28)
PF2 Short	SCAN	Scan function (page 22)
	SOS	Transmit SOS (page 28)
	TALK-A	Activate talkaround (page 29)
	TXPOW	Transmit power level (page 32)
	VOX	Activate VOX (page 32)

SOS

The radio can transmit an SOS alarm to other stations on the same channel. When SOS is activated, the radio will emit an oscillating alarm. After 5 seconds, the radio will transmit the alarm to other radios on the same channel. To activate the SOS function, it must first be assigned to the [PF1] or [PF2] key (pp. 43-44).

Alarm

The radio features an alarm function with a Call ID code. When activated, the radio will emit an oscillating alarm and transmit a Call ID code plus the numbers "110" on the active channel for 5 seconds, after which the alarm will repeat. Press any key to de-activate the alarm. To activate the alarm function, it must first be assigned to the [PF1] or [PF2] key (pp. 43-44).

Monitor

The MONITOR function opens squelch on the current channel or frequency. This is useful when listening for weak transmissions. The MONITOR function is permanently assigned to a long press of the [PF2] key and cannot be changed.

Lamp

The KG-905G allows you to activate the backlight for the display using a programmable key. When activated, the backlight will remain on for the duration of the time set in the ABR menu option (page 31). It can be assigned to the [PF1] or [PF2] key from the menu (pp. 43-44).

Talk Around

The Talk Around function allows the radio to transmit and receive on the output frequency of a repeater, essentially letting you bypass the repeater. This feature is useful when the repeater is nearly out of range, is not operational, or if you are in range of other stations and would prefer to contact them via simplex. The Talk Around function can be assigned to the [PF1] or [PF2] key from the menu (pp. 43-44).

Call

The KG-905G provides a way to send pre-configured Call Codes via a programmable function key. The programming software allows the defining of up to 20 Call Codes. Each channel can be assigned a Call Code via the programming software. Call tones are

3 to 6 digits. Pressing the assigned CALL key will transmit the Call ID tone defined for the channel. There is no need to hold the PTT while pressing the CALL key. To activate the Call function, it must first be assigned to the [PF1] or [PF2] key from the menu (pp. 43-44).

Stopwatch Timer

The KG-905G has a built-in stopwatch timer. It can be enabled using the SECOND menu option (page 43). Once enabled, Press [EXIT] on the radio to activate the timer. Press the [MENU] key to pause the timer. When paused, press the [MENU] key to resume the timer or press the [UP], [DOWN], [EXIT] or PTT key to deactivate the timer and return to standby mode.

When the timer is activated, it will appear on the display in place of the current channel information. The menu is not accessible while the timer is active.

[01: ABR] Backlight

Function: Sets the timeout of the LCD display backlight while the radio is in standby. The timer can be set from 1-30 seconds in one second increments. It can also be set to turn off immediately or always remain on.
Options: OFF/1-30S
Default: 10 Seconds

[02: SAVE] Battery Saver

Function: Activate the battery saver feature. When active, the radio will scan less frequently for signals, improving battery life.
Options: ON/OFF
Default: ON

[03: W-N] Bandwidth

Function: Sets the bandwidth for the current channel.
Options: WIDE/NARROW
Default: (Varies by channel)

[04: TXPOW] Output Power

Function: Sets the transmit power of the radio. High power is 5 watts, Low power is one half watt. Note, the transmit power for GMRS channels 8-14 (channel group 2) are restricted by the FCC to 0.5 watts and can be used on low power only.
Options: HIGH/LOW
Default: (Varies by channel)

[05: VOX] Voice Activated Transmit

Function: The VOX function allows you to transmit without pressing the PTT key. The VOX function will detect that you are speaking into the microphone and then automatically begin transmitting. VOX gain levels of 1-9 are provided to allow you to adjust the voice detection sensitivity. Use the VOX Delay menu option (menu 5) to adjust the time to wait to turn off transmit after a VOX transmission begins.
Options: OFF/1-9 (level)
Default: OFF

[06: VOX-DLY] VOX Delay

Function: Set the number of seconds to delay turning off transmit after the VOX function no longer detects audio.
Options: OFF/1-5 (seconds)
Default: OFF

[07: SQL] Squelch

Function: The squelch function mutes the speaker when no signal is detected. Adjusting the squelch sensitivity allows you to control how strong of a signal is required in order to unmute the speaker. Selecting a lower number will allow weaker signals to be heard, higher numbers require a stronger signal. Selecting [0] will unmute the speaker at all times.
Options: 0-9
Default: 5

[08: ROGER] Roger Beep

Function: Enables an audible roger beep prompt during transmission.

Options: OFF/BOT/EOT/BOTH
Default: OFF
BOT: Sets the roger beep prompt at the beginning of transmission
EOT: Sets the roger beep at the end of transmission
BOTH: Sets the roger beep at the beginning and end of transmission

[09: TOT] Transmit Overtime Timer

Function: When the transmission time exceeds the time set by the Transmit Overtime Timer, the unit will emit an error prompt and stop transmitting.
Options: 15-900 seconds (15 second increments)
Default: 60 seconds

[10: TOA] Transmit Overtime Alarm

Function: The Transmit Overtime Alarm warns when the Transmit Overtime Timer (TOT) is about to be exceeded. The red TX indicator LED (top of the radio) flashes to indicate an alarm. The alarm can be set to a maximum time limit of 10 seconds and indicates the amount of time prior to the Transmit Overtime Timer expiring that the warning will begin.

Options: OFF/1S-10S
Default: 5S

[11: VOICE] Voice Guide

Function: Disable or select language for voice prompts.
Selectable: OFF/ENGLISH/CHINESE
Default: ENGLISH

[12: BEEP] Button Beeps

Function: Enables an audio prompt to alert the operator of a key press, input or fault.
Selectable: ON/OFF
Default: ON

[13: BCL] Busy Channel Lockout

Function: Enabling Busy Channel Lockout prevents the transceiver from transmitting on a selected channel while another station or group is transmitting on it.
Options: ON/OFF
Default: ON

[14: RX-DTC] Receive CTCSS/DCS Tone

Function: Sets the receiving CTCSS or DCS code for the selected channel. Use the arrow keys to select your preferred code and then MENU to confirm. Once the menu option is selected, use the PF2 side key to toggle between the standard CTCSS, positive DCS, and negative DCS tone list.
Options: OFF/CTCSS/DCS+/DCS-
Default: OFF

[15: TX-DTC] Transmit CTCSS/DCS Tone

Function: Sets the transmitting CTCSS or DCS code for the selected channel. Use the arrow keys to select your preferred code and then [MENU] to confirm. Once the menu option is selected, use the [PF2] side key to toggle between the standard CTCSS, positive DCS, and negative DCS tone list.
Options: OFF/CTCSS/DCS+/DCS-
Default: OFF

Note

- Use the PF2 side key to toggle between CTCSS and DCS tone lists.
- Non-standard CTCSS/DCS codes can be assigned using the PC programming software.

[16: SC-REV] Scan Method

Function: Scan mode settings
Options: TO/CO/SE
Default: TO
TO: When a signal is detected, scanning stops. Scan will pause to wait for further activity and will then resume if no operation is carried out within 5 seconds. Pressing PTT will transmit on the currently selected channel.
CO: When a signal is detected, scanning stops and resumes immediately after the signal is lost. Pressing PTT will transmit on the currently selected channel.
SE: When a signal is detected, scanning stops. Pressing PTT will transmit on the channel where the signal was detected.

[17: CH-NAME] Channel Name

Function: Allows you to edit the name for a channel. To edit a channel name, press the [UP] and [DOWN] keys to select a character. Use the [PF2] side key to move to the next character. The [PF1] side key will move to the previous character. When you finish editing the name, press [MENU] to save.
Options: 6 Characters
Default: None

[18: PRI-CH] Priority Channel

Function: Selects the priority channel. This is used during scanning when the Priority Scan (menu option 19) feature is enabled. To select a priority channel, use the [UP] and [DOWN] keys to select a channel number and the channel knob to select the channel group. Note, "NULL" will be shown to the right of non-assigned channels.
Options: 16 channels in 16 groups
Default: CHGP: 01, CH: 01

[19: PRI-SCN] Priority Scan

Function: Activates scanning of the Priority Channel (menu option 18). During scan, the priority channel will be scanned more frequently. Read the "Channel Scan" section on page 22 to learn more.
Options: ON/OFF
Default: OFF

[20: S-TONE] Single Tone Pulse Transmission

Function: Activates the tone alert. Some relay systems used for single-tone pulse transmissions need a single-tone pulse signal to activate. To send the tone, press the [PF1] side key while holding down [PTT].
Options: 1000Hz/1450Hz/1750Hz/2100Hz
Default: 1750Hz

[21: SC-QT] CTCSS/DCS Scan Save Options

Function: This item determines how a CTCSS or DCS tone is saved after a CTCSS/DCS scan.

Options: R-CT/T-CT/RT-CT
Default: R-CT
R-CT: Saves the scanned tone to the RX-DTC setting
T-CT: Saves the scanned tone to the TX-DTC setting.
RT-CT: Saves the scanned tone to both.

[22: PONMSG] Power On Message

Function: Select the item displayed when the radio is powered on.
Options: WELCOM/BATT-V
Default: WELCOM
WELCOM: A customizable message. It is set to “KG-905G“ by default, and can be customized in the programming software.
BATT-V: Battery voltage

[23: SCN-ADD] Scan Add / Delete

Function: Add or remove a channel to/from the list of channels to scan.
Options: ADD/DEL
Default: Repeater channels (channel group 4) are removed from the scan list by default.

Other channels are added to the list.

[24: SCN-GP] Scan Group

Function: Allows selection of a specific channel group for scan, or all groups. When a group number is selected, only channels in that group will be scanned when the Scan feature is activated.
Options: ALL/1-16
Default: ALL

[25: SCN-CD] CTCSS/DCS Scanning

Function: Scans the incoming signal for CTCSS or DCS tones to identify or confirm the correct tone. This function must be activated while receiving a signal.
Options: None. Choose the function and press [MENU] to activate the scan.
Note: The scan will stop when the signal ends and resume from where it left off the next time the signal is received, until it identifies the correct tone. Use the [UP]/[DOWN] arrow keys to scan in a different direction. Use the [PF2] side key to toggle between the standard CTCSS, positive DCS, and negative DCS tone list.

Note

- Use the [UP]/[DOWN] arrow keys to scan in a different direction.
- Use the PF2 side key to toggle between CTCSS and DCS tone lists.

[26: AU-LOCK] Auto Lock

Function: Automatically locks the keypad after a specified number of seconds.
Options: OFF/10-60 seconds (10 second increments)
Default: OFF
Note: To unlock the radio, hold the [EXIT] key for 3 seconds.

[27: LOCK-M] Lock Mode

Function: Select which keys are disabled when the radio is locked.
Options: KEY/KEY+PTT/KEY+ENC/ALL
Default: KEY
KEY: Locks the front keypad and [PF1] and [PF2] side keys.
KEY+PTT: Locks the front keypad, [PF1] and [PF2] side keys, and [PTT].

KEY+ENC: Locks the front keypad, [PF1] and [PF2] side keys, and channel knob.
ALL: Locks the front keypad, [PF1] and [PF2] side keys, [PTT], and channel knob.
Note: Lock Mode affects [PF2] short press only. [PF2] Long Press remains enabled.

[28: SECOND] Stopwatch Timer

Function: Activates the radio's stopwatch feature. If ON, activate the stopwatch by pressing [EXIT] from the main screen.
Options: ON/OFF
Default: OFF

[29: PF1] Side Key PF1 Assignment

Function: Assigns a function to the [PF1] side key. A function can be assigned to both a short and a long button press.
Options: OFF/SCAN/LAMP/VOX/TXPOW/CALL/ALARM/SOS/TALK-A/GRP-UP/GRP-DO
Default: GRP-UP (Short), CALL (Long)

[30: PF2] Side Key PF2 Assignment

Function: Assigns a function to the [PF2] side key.
Options: OFF/SCAN/LAMP/CALL/ALARM/SOS/TALK-A/GRP-UP/GRP-DO
Default: SCAN

[31: RPT-RCT] Repeater Reception Confirmation

Function: Provide a reception confirmation when the receiving repeater is offline.
Options: ON/OFF
Default: OFF

[32: DC-VLT] Battery Voltage Display

Function: Provides the current battery voltage.
Options: None
Default: None

[33: QT-SW] Tone Scanning Compatibility Check

Function: Check that the detected tones are compatible when scanning.

Options: ON/OFF
Default: OFF

[34: CH-MDF] Channel Display Mode

Function: Select how a channel is displayed on the main screen.
Options: CH/NAME/CHFREQ
Default: NAME
CH: Display only the internal radio channel number (Example: CH-01)
NAME: Display the name assigned to the channel (Example: GMRS01)
CHFREQ: Display the receive frequency (Example: 462.56250)

[35: RESET] Factory Reset

Function: Resets the transceiver to factory defaults.
Options: ALL
Default: ALL
ALL: Resets all of the function settings and channel parameters to factory defaults.

Troubleshooting

Before assuming your KG-905G is defective, please check the following list of possible problems and solutions. The RESET option provided in the menu can be used to restore factory standard settings and programming, and will often solve issues.

Problem	Solution
Receive indicator is on but no sound is heard.	■ Check volume level. ■ Disable CTCSS/DCS or be sure setting matches incoming transmission. ■ Check squelch settings.
Keypad is unresponsive	■ Check if keypad has been locked. ■ Check if other keys are currently pressed
Unwanted interference is being received	■ Enable CTCSS or DCS tone to filter out unwanted transmissions. ■ Use a different channel
Transceiver transmits without PTT being pressed	Check if the VOX hands-free mode is active. If intentionally using VOX mode, adjust the sensitivity level.

Problem	Solution
Cannot power on	■ Check that the battery pack is attachecd correctly. ■ Check that the battery pack is fully charged.
Battery life lower than expected	■ Be sure the charger indicates the battery is fully charged. ■ The battery pack capacity will naturally diminish over a number of charge cycles. This is the case with all lithium batteries.

Specifications

Entire Radio	
Frequency Range	RX: 400-470 MHz / TX: GMRS Frequencies
Memory Channels	256
Work Mode	F2D / F3E
Work Temperature	-20°C~40°C / -4°F~104°F
Antenna Impedance	50Ω
Power Supply	7.4VDC
Weight	12oz / 340g
Size	5.25 × 2.5 × 1.5 (in) / 132 × 62 × 37(mm)

Receiver	*Wide Band*	*Narrow Band*
Adjacent Channel Selectivity	≤70dB	≤60dB
Inter-modulation	≤65dB	≤60dB
Spurious Response	≤70dB	≤70dB
Audio Response	+1~3dB (0.3~3KHz)	+1~3dB (0.3~2.55KHz)
Squelch Rate	≥45dB	≥40dB
Audio Distortion	≤5%	
Output Power	≤500mW	
Sensitivity	UHF : 0.25μV (12dB SINAD)	

Transmitter	*Wide Band*	*Narrow Band*
Modulation	16K F3E	11K F3E
Adjacent Channel Power	≥70dB	≥60dB
Spurious	≥60dB	≥60dB
Audio Response	+1~3dB (0.3~3KHz)	+1~3dB (0.3~2.55KHz)
Max Frequency Offset	±5KHz	±2.5KHz
Frequency Stability	±2.5ppm	
Audio Distortion	≤5%	

Standard CTCSS and DCS Tones

The following is a list of the standard CTCSS and DCS tones supported by the KG-905G. Many FRS or GMRS radios display a number instead of a specific tone. The number to the left of the tone matches what is used by most manufacturers.

CTCSS

1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91 5	20	127 3.	30	167.9	40	199.5	50	254.1

DCS										76	D454N	92	D624N
1	DN017	16	D072N	31	D156N	46	D252N	61	D346N	77	D455N	93	D627N
2	D023N	17	D073N	32	D162N	47	D255N	62	D351N	78	D462N	94	D631N
3	D025N	18	D074N	33	D165N	48	D261N	63	D356N	79	D464N	95	D632N
4	D026N	19	D114N	34	D172N	49	D263N	64	D364N	80	D465N	96	D645N
5	D031N	20	D115N	35	D174N	50	D265N	65	D365N	81	D466N	97	D654N
6	D032N	21	D116N	36	D205N	51	D266N	66	D371N	82	D503N	98	D662N
7	D036N	22	D122N	37	D212N	52	D271N	67	D411N	83	D506N	99	D664N
8	D043N	23	D125N	38	D223N	53	D274N	68	D412N	84	D516N	100	D703N
9	D047N	24	D131N	39	D225N	54	D306N	69	D413N	85	D523N	101	D712N
10	D050N	25	D132N	40	D226N	55	D311N	70	D423N	86	D526N	102	D723N
11	D051N	26	D134N	41	D243N	56	D315N	71	D431N	87	D532N	103	D731N
12	D053N	27	D143N	42	D244N	57	D325N	72	D432N	88	D546N	104	D732N
13	D054N	28	D145N	43	D245N	58	D331N	73	D445N	89	D565N	105	D734N
14	D065N	29	D152N	44	D246N	59	D332N	74	D446N	90	D606N	106	D743N
15	D071N	30	D155N	45	D251N	60	D343N	75	D452N	91	D612N	107	D754N

Default GMRS Channels and Frequencies

Simplex Channels

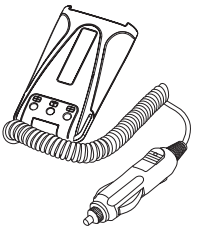
Ch.	Name	Frequency	Power
G1-1	GMRS01	462.5625	5W
G1-2	GMRS02	462.5875	5W
G1-3	GMRS03	462.6125	5W
G1-4	GMRS04	462.6375	5W
G1-5	GMRS05	462.6625	5W
G1-6	GMRS06	462.6875	5W
G1-7	GMRS07	462.7125	5W
G2-1	GMRS08	467.5625	.5W
G2-2	GMRS09	467.5875	.5W
G2-3	GMRS10	467.6125	.5W
G2-4	GMRS11	467.6375	.5W

Ch.	Name	Frequency	Power
G2-5	GMRS12	467.6625	.5W
G2-6	GMRS13	467.6875	.5W
G2-7	GMRS14	467.7125	.5W
G3-1	GMRS15	462.5500	5W
G3-2	GMRS16	462.5750	5W
G3-3	GMRS17	462.6000	5W
G3-4	GMRS18	462.6250	5W
G3-5	GMRS19	462.6500	5W
G3-6	GMRS20	462.6750	5W
G3-7	GMRS21	462.7000	5W
G3-8	GMRS22	462.7250	5W

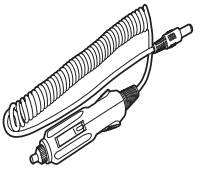
Repeater Channels

Ch.	Name	Receive Frequency	Transmit Frequency	Max Power
G4-1	RPT-15	462.5500	467.5500	5 Watts
G4-2	RPT-16	462.5750	467.5750	5 Watts
G4-3	RPT-17	462.6000	467.6000	5 Watts
G4-4	RPT-18	462.6250	467.6250	5 Watts
G4-5	RPT-19	462.6500	467.6500	5 Watts
G4-6	RPT-20	462.6750	467.6750	5 Watts
G4-7	RPT-21	462.7000	467.7000	5 Watts
G4-8	RPT-22	462.7250	467.7250	5 Watts

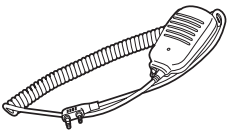
Optional Accessories



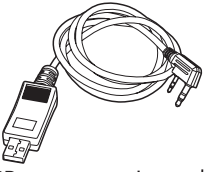
Eliminator



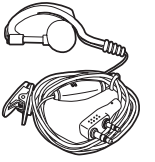
Car charger



Speaker/Mic



USB programming cable



Headset

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We warrant this product against defects in material and workmanship as follows:

Radio and its original primary components for a period of one (1) year from date of purchase.

Accessories (including battery, charger, belt clip, antenna and adapter) for a period of six (6) months from date of purchase.

This warranty is limited to the repair and replacement of the defective components and is not valid if the radio has been tampered with, misused, abused, used with unapproved accessories, subjected to unauthorized disassembly, unauthorized repair, replacement of unauthorized parts, unavoidable conditions, human destruction, water damage or environmental damage. This warranty is void if the serial number is defaced or altered.

If service, repair or replacement is required within the warranty period, such repair or replacement will be made free of charge by the dealer through whom the equipment was purchased. If the owner requires any service or repair from any dealer through whom the equipment was not purchased, the cost of repair must be made by the owner.

This warranty is valid for the original purchaser or owner of the product and is not

transferable.

THIS LIMITED WARRANTY IS THE ENTIRE WARRANTY FOR THIS PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF ANY DAMAGES, INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES RELATED TO THE USE OF THIS PRODUCT. Some states do not allow this exclusion or limitation of damages so the above limitation or exclusion may not apply to you. This warranty is valid only within the United States of America.

Note: Product features, specifications and warranty terms are subject to revision by the manufacturer without notice. We are not responsible for unintentional errors or omissions on product packaging.

Version: KG-905G-2409-V2.0