

GMRS 2008

Operating Instructions for your **2Way Radio**



**462 Mhz/163Mhz[Weather band]
Portable Radio [GMRS 2003]**



CAUTION

IMPORTANT SAFETY INFORMATION

Your wireless hand-held portable transceiver contains a radio frequency transmitter. When the PTT button is pushed the transmitter sends out RF signals. The device is authorized to operate at a transmit duty factor not exceed 50% using alkaline "AA" size batteries to comply with Federal Communications Commissions(FCC)RF exposure safety level guidelines for hand-held wireless devices.

To maintain compliance with the FCC's RF exposure guidelines hold the transceiver at least 1 inches (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away. If you wear the transceiver on your body using the supplied belt clip, *do not transmit with this device in the body worn configuration*. Unauthorized antennas, modifications, or attachments could damage the transceiver and may violate FCC regulations.

GMRS License:

Use of GMRS radios within the United States require a FCC GMRS license. An individual 18 years of age or older, who is not a representative of a foreign government, is eligible to apply for a GMRS system license. You will need two forms from the FCC, FCC Form 159 and FCC Form 605 Main Form and Schedule F. You can find the forms online at <http://www.fcc.gov/formpage.html>, or call 1-800-418-3676.

Controls and Indicators

- ① Antenna (Not removable)
- ② Detachable Belt Clip
- ③ Push-To-Talk Button (PTT)
- ④ Monitor Button [M]
- ⑤ Function Button [F]
- ⑥ Battery Cover
- ⑦ Liquid Crystal Display(LCD)
- ⑧ Power on/off Button(PWR/Enter)
- ⑨ Down Key Button [▼]
- ⑩ Up key Button [▲]
- ⑪ Built-in Microphone
- ⑫ Built-in Speaker
- ⑬ External Microphone / Charge Jack (MIC/CHG)
- ⑭ External Speaker Jack (SPK)



Liquid Crystal Display



- ① Roger Tone Indicator
- ② Scan Indicator
- ③ Hi/Lo Output Power Indicator
- ④ Transmit Signal (Tx) Indicator
- ⑤ Receiving Signal (Rx) Indicator
- ⑥ Battery Level Indicator
- ⑦ Main Channel Indicator
- ⑧ Weather Band Icon
- ⑨ Lock Icon
- ⑩ CTCSS Tone/Weather channel Indicator
- ⑪ Volume Level Indicator
- ⑫ Vox Indicator
- ⑬ Vibration Alert Indicator Icon

INSTALL BATTERIES

- ① Pull lock tab down and lift door up (towards you) to remove battery cover.
- ② Insert four "AA" batteries. Position batteries according to polarity markings



OPERATION

UNIT POWER ON/OFF



1 Power on: Press **PWR** button longer than 1sec., all icons display on LCD for a while and the last channel used will be displayed.

(2) Power off: Press **PWR** button longer than 2sec., "Off" will be displayed for a while and power will be off.

VOLUME UP / DOWN



Up / Down button will control volume up and down when the unit is in stand by mode.

OPERATION

FUNCTION BUTTON OPERATION



To find the function you want , press the Function **F** Button as the following sequence:

- 1.Main channel selection
- 2.CTCSS tone channel selection
- 3.Weather band on/off and channel selection
- 4.Lock on/off
- 5.VOX on/off and level selection
- 6.Vibration Alert on/off
- 7.Roger tone on/off
- 8.Output(Tx) Power Hi/Low selection

★ Press Up / Down button to set or change the current flashing function and confirm by PWR(Enter) button. ★

MAIN CHANNEL CHANGE



1.Press **F** button until the Main channel number flashes.Pressing Up/Down button will change the channel 1to15.

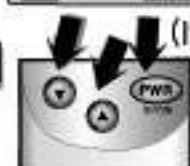
2.Press PWR(Enter) button to confirm the selected channel.

OPERATION

CTCSS TONE CHANNEL CHAGE



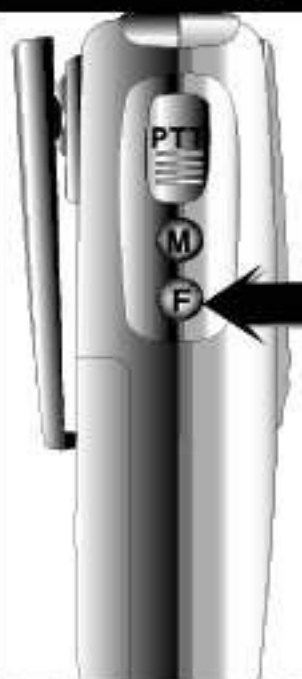
1. Press **F** Button until the Sub-Channel number flashes, Pressing Up / Down Button will change the channel 1 to 38.



(If CTCSS sub-channel is not needed, select channel 0)

2. Press PWR(Enter) Button to confirm the selected sub-channel.

WEATHER BAND ON/OFF AND WEATHER CHANNEL SELECTION



1. Press **F** button until the Weather band Icon flashes with "Of" display, pressing Up / Down button will change to "On".

2. As soon as the Weather Band "On" is confirmed by pressing PWR(Enter) button the last Weather channel is display (1-10)

3. To change the Weather Channel, press **F** button once more, the channel is flashing, change by Up / Down button and PWR(Enter) button confirm the selected channel.
(Weather Icon and channel display on LCD)

(Weather Icon and channel display on LCD)

4. Weather Band Mode OFF

(1) Press **F** button twice and Weather Icon flashes with "On" display.

(2) Press Up / Down button to "Of" display and press PWR(Enter) button to confirm Weather mode off.

(Weather Icon disappear and back to stand by mode)

OPERATION

LOCK ON/OFF



1. Press **F** button until the Lock Icon flashes with "Of" display, pressing Up / Down button will change to Lock "On" position.
2. Press PWR(Enter) button to confirm Lock on position. (Lock Icon display on LCD)
3. Lock will be OFF by pressing **F** button longer than 2 seconds. (Lock Icon disappear)

VOX ON/OFF AND LEVEL SELECTION

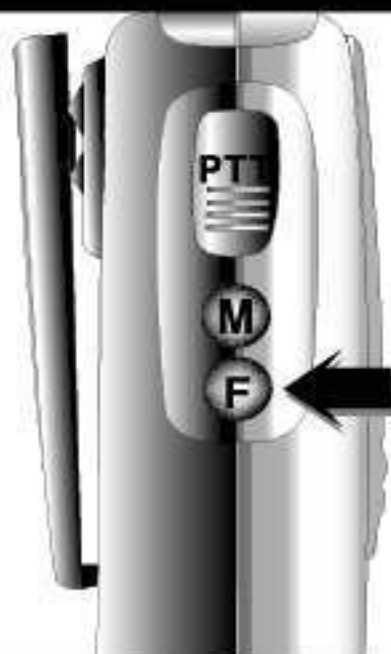


1. Press **F** button until VOX Icon flashes with "Of" or on level "1-3" display, pressing Up / Down button will change to VOX Off or On-level 1-3.
2. Press PWR(Enter) button to confirm VOX OFF or ON-level sensitivity 1 to 3. (VOX Icon disappear or display on LCD)

VOX(Voice Activated Transmission) on allows you that speaking without pressing the PTT Button activate the unit to transmit the conversation.

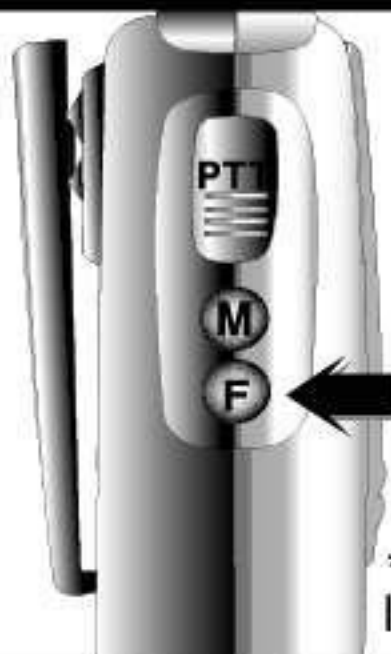
OPERATION

VIBRATION ALERT ON/OFF



1. Press **F** button until Vibration Icon flashes with "On" or "Of" display, pressing Up / Down button will change to on or off.
2. Press PWR(Enter) button to confirm. (Vibration Icon display on LCD or disappear)

ROGER TONE ON/OFF



1. Press **F** button until Roger Icon flashes with "On" or "Of" display, pressing Up / Down button will change to on or off.
2. Press PWR(Enter) button to confirm. (Roger icon display on LCD or disappear)

Roger Tone on condition will send audible tone to your listener when you release PTT button to alert you finish talk

OPERATION

OUTPUT POWER HI/LOW

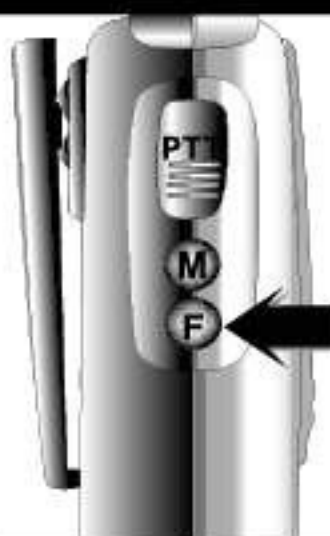


1. Press **F** button until the "H" or "L" icon flashes with "Po" display, pressing Up / Down button will change high or low power.

2. Press PWR(Enter) button to confirm.
(LCD display either H or L icon)

High is normal operation, but you can switch to Low Tx power to extend battery life when in close proximity to other party or clear weather condition.

RECEIVER(RX) CHANNEL SCAN



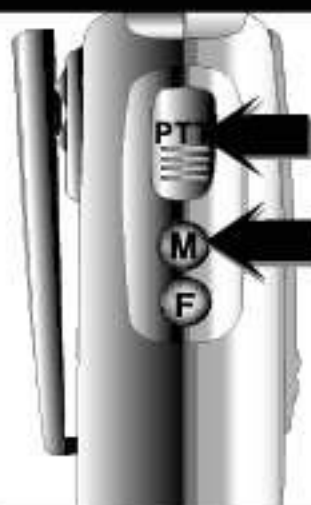
1. Scan for Rx channel will be start by pressing **F** button longer than 2 seconds.

2. Stop scanning by pressing **F** button once more.

Rx channel scan searches for action signals in an endless loop from 1 to 15 or from 15 to 1.
(LCD display Scan icon)

OPERATION

CALL ALERT



Press PTT and **M** (monitor) button same time to send Call Alert to nearby receivers set to the same main channel.
(LCD display Tx Icon)

PUSH-TO-TALK(PTT)BUTTON FOR TRANSMIT USE



Press and hold PTT button to talk and release PTT button to listen for response(LCD display Tx Icon)

OPERATION

MONITOR BUTTON USE FOR MAXIMUM RANGE EXTENDER



1. Furnished Auto Squelch can be temporarily removed by pressing Monitor **(M)** button longer than 5 seconds which will allow receive all the signals for the selected main channel.
(LCD display Rx Icon)
2. To return to normal operation (Auto squelch), press **(M)** button again.



Frequency Range

Channel Available	15 Channels
CTCSS Sub-channel	38 for each channel
Output Power (TX)	HI : 1.4 , LOW : 0.3 Watts (ERP)
Battery Life	26 hours(typical)
Range	Up to 5 Miles

GMRS Main channels

Main Channel	Frequency	Main Channel	Frequency
01	462.5625 MHZ	09	462.6250 MHZ
02	462.5875 MHZ	10	462.6750 MHZ
03	462.6125 MHZ	11	462.5500 MHZ
04	462.6375 MHZ	12	462.6000 MHZ
05	462.6625 MHZ	13	462.6500 MHZ
06	462.6875 MHZ	14	462.7000 MHZ
07	462.7125 MHZ	15	462.7250 MHZ
08	462.5750 MHZ		

Frequency Range

CTCSS SUB-CHANNELS

CTCSS Channel	Frequency	CTCSS Channel	Frequency
01	67.0 HZ	20	131.8HZ
02	71.9 HZ	21	136.5HZ
03	74.4 HZ	22	141.3HZ
04	77.0 HZ	23	146.2HZ
05	79.7 HZ	24	151.4HZ
06	82.5 HZ	25	156.7HZ
07	85.4 HZ	26	162.2HZ
08	88.5 HZ	27	167.9HZ
09	91.5 HZ	28	173.8HZ
10	94.8 HZ	29	179.9HZ
11	97.4 HZ	30	186.2HZ
12	100.0HZ	31	192.8HZ
13	103.5HZ	32	203.5HZ
14	107.2HZ	33	210.7HZ
15	110.9HZ	34	218.1HZ
16	114.8HZ	35	225.7HZ
17	118.8HZ	36	233.6HZ
18	123.0HZ	37	241.8HZ
19	127.3HZ	38	250.3HZ

Frequency Range

Weather Receiver Channels

Weather Channel	Frequency
01	162.550MHZ
02	162.400MHZ
03	162.475MHZ
04	162.425MHZ
05	162.450MHZ
06	162.500MHZ
07	162.525MHZ
08	162.650MHZ
09	162.775MHZ
10	162.275MHZ