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GMRS 2-way radios

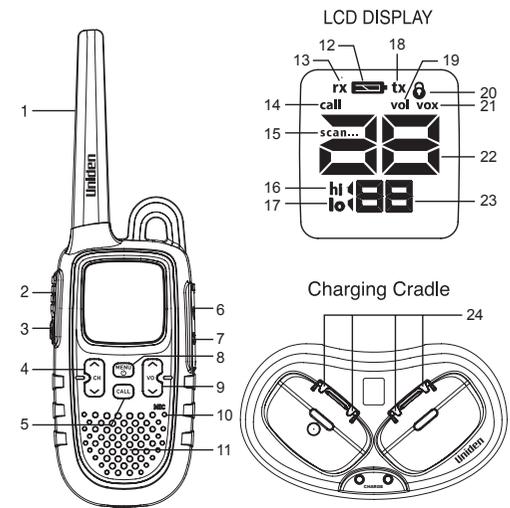
GMR2838-2CK

- 15 GMRS / 7 FRS Channels
- 121 Sub Codes (CTCSS Tone and DCS Code)
- Up to 28 Mile Range*
- Internal VOX Circuitry
- 5 Selectable Call Tone Alerts
- Backlit LCD Display
- Optional Headset Accessories
- Headset Jack
- Roger Beep
- Battery Charger
- Battery Level Meter
- Channel Monitor
- Channel Scan
- Keypad Lock
- DC IN 9V Jack



*Range may vary depending on environmental and/or topographical conditions.

GMR2838-2CK RADIO



- | | |
|-----------------------------|-----------------------------|
| 1 Antenna | 14 Call Indicator |
| 2 PTT (Push-To-Talk) Button | 15 Scan Indicator |
| 3 Monitor Button | 16 Hi Power Indicator |
| 4 Channel Up/Down key | 17 Low Power Indicator |
| 5 Call Key | 18 Transmit Indicator |
| 6 Headset Jack | 19 Volume Setting Indicator |
| 7 DC IN 9V | 20 Keypad Lock Indicator |
| 8 Menu/Power key | 21 VOX Indicator |
| 9 Volume Up/Down key | 22 Channel Indicator |
| 10 Microphone | 23 Sub Code Indicator |
| 11 Speaker | 24 Charging Contacts |
| 12 Battery Level Meter | |
| 13 Receive Indicator | |

Congratulations on your purchase of the Uniden GMR2838-2CK (General Mobile Radio Service) waterproof radio. This lightweight, palm-sized, radio is a state-of-the-art device, equipped with many valuable features. Use it at sporting events, to stay in contact with family and friends, hiking, skiing, outdoors, or in a neighborhood watch for vital communication - even outside by the pool!

Your radio complies with JIS4 water-proof standards, which means the radio is resistant to damage from light rain or water spray from all sides.

- The radio will only meet this rating if fully assembled and all rubber seals and the jack cover is well maintained and correctly fitted. This means that the Headset plug is not inserted, and the Headset jack cover and the battery pack are attached and securely fastened.

Note: If your radio is exposed to salt water, clean your radio thoroughly with a small amount of fresh water (do not submerge it), and dry it before turning it on.

PACKAGE CONTENTS

Your package contains two radios, two rechargeable NiMH battery packs (#BP40), one AC adapter (#AD-0001), one charging cradle (#RC1284), two belt clips and this reference guide. A NiMH battery pack powers your unit. To order the following optional accessories, visit our web site at www.uniden.com or call 1-800-554-3988 during regular business hours.

Use only Uniden accessories.

- NiMH Battery Pack - #BP40
- Charging Cradle - #RC1284
- Headset - #ZA-133
- AC Adapter - #AD-0001
- DC Adapter - #DC-1002

GMRS LICENSE

The radio operates on the General Mobile Radio Service (GMRS) frequencies when using Channels 1-7 and channels 15-22. You must have a GMRS license issued by the Federal Communications Commission to legally use these channels. For licensing information and application forms, visit the FCC online at: www.fcc.gov/wtb/uls or call the FCC hotline at 1-800-418-3676. If you have any questions, you can contact the FCC direct at 1-888-225-5322. No license is required for operation on channels 8-14 or operation on any channel in Canada.

INSTALL THE BATTERY

Your radio uses a supplied NiMH battery pack.

To install the NiMH battery pack:

- 1) Make sure your radio is OFF.
- 2) Release the battery latch at the bottom of the radio, and remove the cover.
- 3) Install the NiMH battery pack into the battery compartment. Be certain to follow the instructions written on the label on the battery pack. Installing the battery pack incorrectly will prevent the unit from operating.
- 4) Before placing the battery cover back on the radio, check the rubber seal around the battery compartment and the ribbon of the battery pack: make sure that the seal is in good condition and that there is no foreign matter under the seal.
- 5) Replace the battery compartment door.

Note: If the rubber seal appears worn, nicked, or dried out, replacement seals are available from www.uniden.com or call 1-800-554-3988 during business hours.

USING A HEADSET

You can use a headset (#ZA-133) for more private communications. To use a headset, lift the rubber cover from over the headset jack, then plug in the headset.

Important: Your radio is not waterproof when using a headset jack. When you remove the headset, be sure to fully press the jack cover into place to restore its waterproof capability.

BATTERY LEVEL AND LOW BATTERY ALERT

This unit has a battery level meter on the display to indicate the status of the batteries. When the battery in the unit is low, the battery level meter icon flashes. Recharge the NiMH battery pack immediately.

Warning! To avoid the risk of personal injury or property damage from fire or electrical shock, only use the Uniden accessories specifically designated for this product.

CHARGING THE RADIO

Your radio can be charged directly or by using the supplied charging cradle.

Make sure to turn the radio OFF before placing the radio in the charging cradle.

Charge by Using the Radio

- 1) Connect the optional DC adapter (#DC-1002) to DC IN 9V jack of the radio and to a cigarette lighter port.

- 2) Charge the battery pack for 16 hours until the battery indicator stops flashing.

Using the Charging Cradle

- 1) Connect the AC adapter (#AD-0001) to DC IN 9V jack and to a standard 120V AC wall outlet.
- 2) Set the charging cradle on the desk or tabletop, and place the radio in the charging cradle with the keypad facing forward.
- 3) Make sure that the LED illuminates. Charge the battery pack for 16 hours and remove the radio from the charging cradle after charging.

Note:

- For charging batteries directly without the cradle, use only the #DC-1002 Cigarette Lighter Adapter cord, available from www.uniden.com. Other power cords could damage your radio.

- DC IN 9V Jack of the radio is for charge only. Be sure to install the battery before charge.

- Use only the supplied battery and AC adapter or approved accessories from Uniden.

- Charge time may vary depending on the battery life remaining.

- For fastest charging, turn off the radio before charging.

- Battery must be installed for operation, even from external power.

- If battery power is low, you cannot operate the radio even using external power. Allow the batteries to charge before using. If you try to transmit while power is low, the radio will automatically turn off.

Warning!

- The charging cradle is not waterproof. If the charging cradle falls into water, unplug it before attempting to remove it from the water. Allow the cradle to dry completely before reconnecting the power.
- Wipe off dirt or shake water from your radio before placing in the charging cradle if your radio is soiled or wet.

USING THE RADIO

In order to get the most out of your new radio, read this reference guide completely before attempting to operate the unit.

Turning the Radio On and Adjusting the Volume

- 1) Press and hold the **MENU/** key to turn the radio ON, and increase the speaker volume by pressing the **VO** key. To decrease the volume, press the **VO** key.
- 2) Press and hold the **MENU/** key again to turn the radio OFF.

Adjusting the Sound (Key Beeps)

Your radio emits a beep each time one of the keys (except for the **PTT** button and **CALL** key) is pressed. To turn this sound OFF, press and hold the **CALL** key while turning ON the radio. Repeat this step to turn the sound ON.

Choosing a Channel

Your radio has 22 channels and 121 Sub codes you can use to talk to others. In order to speak to someone, each of you must be set to the same channel and Sub code.

To choose a channel:

- 1) Press **CH** or **▼** key to enter the channel select mode. The channel indicator flashes.
- 2) Then press **CH** or **▼** key to increase or decrease the channel number displayed.
- To change the channel continuously, press and hold **CH** or **▼** key for more than 1 second in channel select mode.
- 3) To set a desired channel, press **MENU/** key.

Note: Channels 1-7 have an typical range of up to 28 miles. Channels 8-14 have an typical range of up to 5 miles. Channels 15-22 have an typical range of up to 28 miles. You can know which GMRS or FRS channel is active by the icon. **hi** icon is displayed while scanning GMRS channels, and the **lo** icon is displayed while scanning FRS channels.

Choosing a Sub Code

Each of the channels 1-22 may have any one of the codes, OFF or 1-121 selected. Code **oF** (OFF) indicates no Sub code selected and your radio can receive a signal regardless of the code settings of the transmitting radio.

- 1) Press **MENU/** key.
- 2) Press the **CH** or **▼** key to increase or decrease the code number displayed. You can also select **oF** (OFF) at this stage.
- 3) Press **MENU/** key.

Channel Scan Feature

Your radio has a channel scan feature that allows you to easily scan all 22 channels. When an active channel is detected, the radio pauses on that channel until the channel is clear. Then, after a 2 second delay, the radio continues scanning. Pressing the **PTT** button while the scan is paused on a channel allows you to transmit on that channel.

To turn ON channel scan:

Press **MENU/** key twice. The **scan...** icon and **oF**(OFF) blink. Press **CH** key to select on, and then press **MENU/** key. The channel number changes as the radio rapidly cycles through the channels.

To turn OFF channel scan:

Press the **CALL, PTT, MENU/** key.

Talking on Your Radio

To talk to others using the radio:

- 1) Press and hold the **PTT** button and speak in a clear, normal voice about 2-3 inches away from the microphone. While you are transmitting, the **tx** icon appears on the display. To avoid cutting off the first part of your transmission, pause slightly after pressing the **PTT** button before you start talking.
- 2) When you have finished speaking, release the **PTT** button. You can now receive incoming calls. While receiving, the **rx** icon appears on the display.

Note: If **PTT** or **VOX** is continuously used, 1 minute after you start using the feature the transmission stops and you hear a timeout error tone.

Monitor Mode Feature

Your radio allows you to listen for weak signals on the current channel at the press of a key.

To turn ON the Monitor Mode:

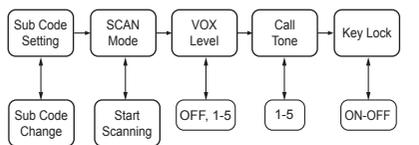
- For brief listening, press **MON** button. The **rx** icon blinks.
- Press and hold **MON** button for 2 seconds until two beeps sound for continuous listening. The receiver circuit stays open, letting both the noise and weak signals be heard.

To turn OFF Monitor Mode:

Press **MON** button to return to "Normal" mode, and the **rx** icon stops blinking and disappears.

Navigating through the Menu

Use the **MENU** key to access your radio's advanced functions.



- 1) To enter the Menu, press the **MENU/** key.
- 2) Additional presses of the **MENU/** key advance you through the Menu until exiting to "Normal" operating mode.
- 3) Other methods of exiting the Menu function are:
 - a. Press and hold the **MENU/** key again.
 - b. Press the **PTT, MON, or CALL** key
 - c. Wait 10 seconds until the unit automatically returns to "Normal" mode.

Voice Operated Transmission

Your radio is equipped with a user selectable Voice Operated Transmitter (VOX) that can be used for automatic voice transmissions. The VOX feature is designed to be used with a headset with a microphone. Transmission is initiated by speaking into the remote microphone instead of pushing the **PTT** button.

To select the VOX level:

- 1) Enter the Menu. Advance through the Menu until the **vox** icon appears on the display. The current level (OFF, 1-5) will be indicated. Level **oF** (OFF) disables VOX, while levels 1-5 set the sensitivity of the VOX circuit.
- 2) Press either the **CH** or **▼** key to the desired VOX sensitivity level. Use level 1 for increased sensitivity to voice in normally quiet environments, and use a higher level to reduce undesired activation in very noisy environments.

Transmitting a Call Tone

Your radio is equipped with 5 selectable call tones that are transmitted when the **CALL** key is pressed.

To select a call tone:

- 1) Enter the Menu. Advance through the Menu until the **call** icon appears on the display. The current call tone number (1-5) is indicated.
- 2) Press the **CH** or **▼** key to increase or decrease the number to the desired call tone. Each tone will be heard through the speaker.

To transmit the selected call tone, press the **CALL** key. The selected tone will automatically be transmitted for a fixed length of time. Call Tone will be cancelled when the **PTT** button is pressed.

Key Lock

To lock the keypad:

- 1) Enter the Menu. Advance through the Menu until the **lock** icon appears on the display. The current Key Lock status **oF** (OFF) blinks on the display.
- 2) To switch the Key Lock mode from **oF** (OFF) to **on**, press the **CH** key.
- 3) To confirm the setting, press the **MENU/** key. The radio returns to the "Normal" mode.

Note: If you exit the setting mode before confirming your selection by pressing the **MENU/** key, the Key Lock setting will be set to **oF** (OFF).

To unlock the keypad:

- 1) Press and hold the **MENU/** key to turn the radio OFF.
- 2) Press and hold the **MENU/** key again to turn the radio ON. The keypad is unlocked.

Note: While in keylock on mode, you can still use the radio to receive, transmissions, use call, **VO** or **▼, PTT, MON and MENU/** to turn on or off the radio.

Automatic Power Save Feature

Your radio has a unique circuit designed to dramatically extend the life of the batteries. If there is no transmission nor an incoming call within 3 seconds, your radio switches to the Power Save mode. The radio is still able to receive transmissions in this mode.

LCD Backlight

The LCD Backlight automatically turns ON when any key (except the **PTT** button) is pressed. The LCD illuminates for 10 seconds before turning OFF.

Roger Beep

Roger Beep is a BEEP that is sent to notify the end of transmission (both PTT and VOX transmission). Roger Beep can be heard through the speaker when both Roger beep and Key Beep are set to ON. When Roger beep is set to ON and Key Beep OFF, Roger Beep will not be heard from the speaker but it will be transmitted to your party. When Roger Beep is set to OFF, Roger Beep neither be heard nor transmitted.

To turn OFF Roger Beep:

Press and hold the **VO**  key while turning ON the radio.

To turn ON Roger Beep:

Press and hold the **VO**  key again while turning ON the radio.

SPECIFICATIONS

Channels	15 GMRS/7 FRS
Sub Codes	38 Sub-Audible Tones 83 DCS Codes
Operating Frequency	UHF 462.5500 - 467.7125 MHz
Power Source	NiMH Battery Pack (BP40)
Range	Channel 1-7 up to 28 miles Channel 8-14 up to 5 miles Channel 15-22 up to 28 miles
Battery Life	12 Hours typ. - NiMH Battery Pack (5/5/90 duty cycle)

Frequency Chart

Ch.	Freq.	Cross Ref.	Ch.	Freq.	Cross Ref.
1	462.5625	FRS & GMRS 1	12	467.6625	FRS 12
2	462.5875	FRS & GMRS 2	13	467.6875	FRS 13
3	462.6125	FRS & GMRS 3	14	467.7125	FRS 14
4	462.6375	FRS & GMRS 4	15	462.5500	GMRS 11
5	462.6625	FRS & GMRS 5	16	462.5750	GMRS 8
6	462.6875	FRS & GMRS 6	17	462.6000	GMRS 12
7	462.7125	FRS & GMRS 7	18	462.6250	GMRS 9
8	467.5625	FRS 8	19	462.6500	GMRS 13
9	467.5875	FRS 9	20	462.6750	GMRS 10
10	467.6125	FRS 10	21	462.7000	GMRS 14
11	467.6375	FRS 11	22	462.7250	GMRS 15

CTCSS Chart (Hz)

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

DCS Code List

Tone No.	Octal Code	Tone No.	Octal Code	Tone No.	Octal Code
39	023	67	174	95	445
40	025	68	205	96	464
41	026	69	223	97	465
42	031	70	226	98	466
43	032	71	243	99	503
44	043	72	244	100	506
45	047	73	245	101	516
46	051	74	251	102	532
47	054	75	261	103	546
48	065	76	263	104	565
49	071	77	265	105	606
50	072	78	271	106	612
51	073	79	306	107	624
52	074	80	311	108	627
53	114	81	315	109	631
54	115	82	331	110	632
55	116	83	343	111	654
56	125	84	346	112	662
57	131	85	351	113	664
58	132	86	364	114	703
59	134	87	365	115	712
60	143	88	371	116	723
61	152	89	411	117	731
62	155	90	412	118	732
63	156	91	413	119	734
64	162	92	423	120	743
65	165	93	431	121	754
66	172	94	432		

RBRC INFORMATION

As part of our commitment to protect the environment and conserve natural resources, Uniden voluntarily participates in an RBRC[®] industry program to collect and recycle used Ni-MH batteries within the US.

Please call 1-800-8-BATTERY for information on Ni-MH battery recycling in your area. (RBRC[®] is a registered trademark of the Rechargeable Battery Recycling Corporation.)



REGULATORY INFORMATION

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device. 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 radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians.

To be safe and sure:

- Never open your radio's case.
- Never change or replace anything in your radio except the batteries.

Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by moving your radio away from the receiver. If you cannot eliminate the interference, the FCC requires that you stop using the radio.

Hazardous Environments: Do not operate the radio in hazardous environments. Explosion or fire may result. Do not operate the radio near unshielded electrical blasting caps.

Under certain conditions, radios can interfere with blasting operations and may cause an explosion.

Turn your radio OFF to prevent accidental transmission when in a blasting area or in areas posted: "Turn off two-way radio." Construction crews often use remote control RF devices to set off explosives.

Care and Safety: To clean the radio, use a soft cloth dampened with water. Do not use cleaners or solvents because they can harm the body of the unit and leak inside, causing permanent damage. Use a dry, lint-free cloth to clean the battery contacts.

RF EXPOSURE INFORMATION

WARNING! Read this information before using the radio. In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters.

Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of the radio complies with the FCC guidelines and these international standards.

Never allow children to operate the radio without adult supervision and the knowledge of the following guidelines.

WARNING! It is up to the user to properly operate this radio transmitter to insure safe operation.

Please adhere to the following:

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the radio, or result in violation of FCC regulations.

Do not use the radio with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for a replacement antenna.

Hand-held Operation (Held-to-Face)

This device was evaluated for typical hand-held (held-to-face) operations with a 1 inch spacing from the front of the radio. For hand-held operation, the radio should be held 1 inch from the user's face in order to comply with FCC RF exposure requirements.

Body-worn Operation

This device was evaluated for body-worn operations with the supplied belt-clip accessory. In order to comply with FCC RF exposure requirements for body-worn operations, the radio should only be worn with the supplied belt-clip accessory or accessory which does not contain metallic components and provides a minimum of 3/5 inch separation distance between the back side of the radio and the user's body.

For more information about RF exposure, please visit the FCC web site at www.fcc.gov.

THREE YEAR LIMITED WARRANTY

Important: Evidence of original purchase is required for warranty service.

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden")

ELEMENTS OF WARRANTY: Uniden warrants, for three years, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect 36 months after the date of original retail sale. The warranty is invalid if the Product is: (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, sub-assemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit.

THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty

is void outside the United States of America and Canada.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). Disconnect the battery from the Product and separately secure the battery in its own separate packaging within the shipping carton. The Product should include all parts and accessories originally packaged with the Product. Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Service
4700 Amon Carter Blvd. Fort Worth, TX 76155
(800) 297-1023 during regular business hours (CST)
(See www.uniden.com for current hours of operation.)

Uniden[®]