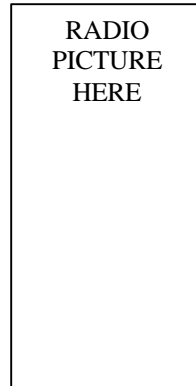# GMRS520 – User Instruction Guide – Content Draft

BUTTONS AND CONTROLS

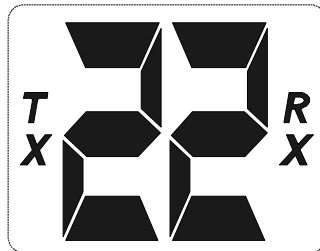1) **On/Off/Mode** Control
2) **PTT** Button
3) **Up** Key
4) **Down** Key
5) **Call** Key

RADIO
PICTURE
HERE

LCD DISPLAY

1) Channel Indicator
2) Tx/Rx Indicators

INTRODUCTION

Congratulations on your purchase of the Uniden GMRS520 Family Radio Service radio. *[add marketing description of product]*. This state-of-the-art device is equipped with the following features:

o   22 FRS Channels
o   Up to 2 mile range*
o   LCD Display
o   Call Tone Alert
o   Channel Scan

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

PACKAGE CONTENTS

o   Your package contains the GMRS520 radio, this reference guide, and a product registration card. You may operate each unit using 3 AAA Alkaline batteries (not included).

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INSTALL THE BATTERIES

Your GMRS520 radio uses 3 AAA Alkaline batteries.

To install Alkaline batteries:
1) Make sure your radio is OFF.
2) Remove the battery compartment door by pressing the top and sliding it down allowing the door to be removed.
3) Install 3 AAA Alkaline batteries (not included) into the battery compartment. Be certain to follow the + and – symbols in the compartment. Installing the batteries incorrectly will prevent the unit from operating.
4) Replace the battery compartment door.

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 Volume

1) Press and hold the **on/off/mode** key for 2 seconds to turn the unit ON.

2) Press and hold the **on/off/mode** for 2 seconds to turn the unit OFF.

Adjusting the Sound (Key Beeps)

Your radio emits a beep each time one of the buttons is pressed or a Call tone is generated. To turn the sound OFF, press the **Call** button while turning on the radio. Repeat this step to turn the sound ON.

Choosing a Channel

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

To choose a channel:
Press and release the **on/off/mode** key to change the mode from volume control to channel control. Press the **Up** or **Down** button to increment or decrement the channel number displayed.

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Talking on Your Radio

To talk to others using the radio **PTT** button:

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 transmit icon **TX** will be shown 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 are finished speaking, release the **PTT** button. You can now receive incoming calls. While receiving, the receive icon **RX** will be shown on the display.

CALL *Transmitting a Call Alert Tone:*

Your GMRS520 radio is equipped with a call tone that will be transmitted when the **Call** button is pressed.
To transmit the call alert tone, press the **Call** button. The tone will automatically be transmitted for a fixed length of time.

SCAN *Channel Scan Feature*

Your GMRS520 radio has a channel scan feature that allows you to easily scan all 22 channels. When an active channel is detected, the unit will pause on that channel until the channel is clear. Then after a 4 second delay, the unit will continue scanning.   Pressing **PTT** while the scan is paused on a channel will allow you to transmit on that channel.

To turn on channel scanning:

Press and hold either the **Up** or **Down** button until the radio has moved through 14 channels. The channel number on the display will be rapidly cycling through the channels.

To turn off channel scanning:
Press and release either the **Up** or **Down** button.

Auto Squelch Feature

The radio is equipped with an automatic squelch system, which shuts off weak transmissions and unwanted noise due to terrain conditions or if you have reached your range limit.

Automatic Power Save Feature

Your radio has a unique circuit designed to dramatically extend the life of the batteries. If there is no transmission within 5 seconds, your radio switches to the Power Save mode. The radio is still able to receive transmissions in this mode.

FCC LICENSING INFORMATION

The GMRS520 radio operates on Family Radio Service (FRS) as well as General Mobile Radio Service (GMRS) frequencies and is subject to the Rules and Regulations of the Federal Communications Commission (FCC). The FCC requires that all operators using the GMRS frequencies obtain a radio license before operating their equipment

For licensing information and applications forms, visit the FCC online at www.fcc.gov/wtb/uls or call the FCC Hotline at: 1-800-418-FORM. If you have any questions regarding the license application you can contact the FCC direct at 1-888-CALL-FCC.

SPECIFICATIONS

Description

Channels	22 FRS/GMRS
Operating Frequency	UHF 462.5500-467.7125 MHz
Power Source	3 AAA Alkaline Batteries
Output Power	500mW ERP maximum
Battery Life	55 Hours – (5/5/90 duty cycle)

Channel Frequency Chart (MHz)

Ch No	Frequency MHz	Cross Reference
1	462.5625	GMRS & FRS 1
2	462.5875	GMRS & FRS 2
3	462.6125	GMRS & FRS 3
4	462.6375	GMRS & FRS 4
5	462.6625	GMRS & FRS 5
6	462.6875	GMRS & FRS 6
7	462.7125	GMRS & FRS 7
8	467.5625	FRS 8
9	467.5875	FRS 9
10	467.6125	FRS 10
11	467.6375	FRS 11
12	467.6625	FRS 12
13	467.6875	FRS 13
14	467.7125	FRS 14
15	462.5500	GMRS 11
16	462.5750	GMRS 8
17	462.6000	GMRS 12
18	462.6250	GMRS 9
19	462.6500	GMRS 13
20	462.6750	GMRS 10
21	462.7000	GMRS 14
22	462.7250	GMRS 15

FCC 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Important: Changes or modifications to this unit not expressly approved by Uniden could void your authority 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 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.

SAFETY GUIDELINES

- Audio Accessories: Do not operate the radio with audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use. Always make sure the radio is turned off before plugging audio accessories into the accessory jack.
- 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 radios." 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. Do not submerge the unit in water. If the unit gets wet, turn it off and remove the batteries immediately. Dry the battery compartment with a soft cloth to minimize potential water damage. Leave the battery compartment cover off overnight to ensure complete drying. Do not use the radio until the unit is completely dry.