

Gmrs Frequency Cheat Sheet

FRS/GMRS Radio Quick Reference Card

Phonetic Alphabet			Range Calculator					FRS/GMRS Channels		
Letter	Word	Pronunciation	Advised Range	Urban Terrain	Suburban Terrain	Open (Rural) Terrain	Elevated Terrain	Channel	Bandwidth*	Frequency
A	Alpha	al-fah	10 miles	2-3 blocks	500-600 feet	0.5-1 mile	Up to 10 miles (peak)	1 (F15-F22)	(FRS/GMRS)	(MHz)
B	Brown	bro-uhn	20 miles	2-3 blocks	0.1-0.5 mile	1-3 miles	Up to 20 miles (peak)	2	12.5/20 kHz	462.5625
C	Charlie	char-lee	20 miles	3-4 blocks	0.4-0.5 mile	3-4 miles	Up to 20 miles (peak)	3	12.5/20 kHz	462.5675
D	Delta	dell-tah	30 miles	4-6 blocks	0.8-1.0 mile	4-5 miles	Up to 30 miles (peak)	4	12.5/20 kHz	462.5725
E	Echo	ek-oh	30 miles	0.5-0.75 mile	0.7-1 mile	~8 miles	Up to 30 miles (peak)	5	12.5/20 kHz	462.5775
F	Footnot	fack-toot						6	12.5/20 kHz	462.5825
G	Guft	guff						7	12.5/20 kHz	462.5875
H	Hutal	huh-tul						8	12.5/20 kHz	462.5925
I	India	in-dee-ah						9	12.5/20 kHz	462.5975
J	Juliet	jra-lee-ett						10	12.5/20 kHz	462.6025
K	Kilo	kee-loh						11	12.5/12.5 kHz	462.5625
L	Lima	lee-mah						12	12.5/12.5 kHz	462.5675
M	Mike	muh-ee						13	12.5/12.5 kHz	462.5725
N	November	nuh-ven-ber						14	12.5/12.5 kHz	462.5775
O	Oscar	oss-ah						15	12.5/12.5 kHz	462.5825
P	Papa	peh-pah						16	12.5/12.5 kHz	462.5875
Q	Quebec	keh-deck						17	12.5/12.5 kHz	462.5925
R	Romeo	row-mee-oh						18	12.5/12.5 kHz	462.5975
S	Sierra	see-ee-ah						19	12.5/12.5 kHz	462.6025
T	Tango	tang-go						20	12.5/20 kHz	462.5500
U	Uniform	yoo-neen-form						21	12.5/20 kHz	462.5750
V	Victor	vik-tah						22	12.5/20 kHz	462.6000
W	Whiskey	wee-kee								
X	Xray	eks-ray								
Y	Yankee	yong-kee								
Z	Zulu	zoo-loo								
Number	Word	Pronunciation								
0	Zero	zee-ro	12	0721	24	1555	36	2451	48	2644
1	One	wun								
2	Two	too								
3	Three	tree								
4	Four	fow-er								
5	Five	fife								
6	Six	sh								
7	Seven	shv-en								
8	Eight	ait								
9	Nine	niner								
Power Limit (Wattage)										
Channels	FRS	GMRS								
1-7	2 W	5 W								
8-14	0.5 W	0.5 W								
15-22	2 W	50 W								

Source: FCC Rules and Regulations in Title 47 of the Code of Federal Regulations, §95.1751 GMRS station identification.

Each GMRS station must be identified by transmission of its FCC-assigned call sign at the end of transmissions and at periodic intervals during transmissions except as provided in paragraph (c) below. A unit number may be included after the call sign in the identification.

The GMRS station call sign must be transmitted:

- (1) Following a single transmission or a series of transmissions; and,
- (2) After 15 minutes and at least once every 15 minutes thereafter during a series of transmissions lasting more than 15 minutes;
- (3) The call sign must be transmitted using voice in the English language or international Morse code telegraphy using an audible tone.
- (4) Any GMRS repeater station is not required to transmit station identification if:
 - (i) It retransmits only communications from GMRS stations operating under authority of the individual license under which it operates; and,
 - (ii) The GMRS stations whose communications are retransmitted are properly identified in accordance with this section.

*Authorized Bandwidth

GMRS Repeater Channels		
Channel (R15-R22)	Tx Freq. (MHz)	Rx Freq. (MHz)
R15	467.5500	462.5500
R16	467.5750	462.5750
R17	467.6000	462.6000
R18	467.6250	462.6250
R19	467.6500	462.6500
R20	467.6750	462.6750
R21	467.7000	462.7000
R22	467.7250	462.7250

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GMRS frequency cheat sheet is an essential resource for anyone interested in utilizing the General Mobile Radio Service (GMRS). This service is particularly popular among outdoor enthusiasts, families, and individuals looking for reliable communication over short to medium distances. Understanding GMRS frequencies and their regulations can help you make the most of your GMRS devices. In this article, we will delve into the GMRS frequency cheat sheet, covering frequency ranges, channels, regulations, and tips for effective communication.

What is GMRS?

GMRS stands for General Mobile Radio Service, a licensed radio service in the United States that allows individuals to communicate over short distances using two-way radios. GMRS is particularly popular for personal and family use, providing a reliable means of communication during outdoor activities such as hiking, camping, and off-roading.

GMRS Frequency Ranges

GMRS operates within specific frequency ranges, which are divided into channels. Understanding these channels is critical for effective communication. Here are the key frequency ranges associated with GMRS:

- Frequency Range: 462.550 MHz to 467.725 MHz
- Channel Numbers: 1 to 22

GMRS Channels Breakdown

The GMRS frequency spectrum consists of 22 channels, with channels 1 to 7 designated for GMRS use and channels 8 to 22 primarily used for Family Radio Service (FRS). Here is a breakdown of the GMRS channels:

1. **Channel 1:** 462.550 MHz
2. **Channel 2:** 462.575 MHz
3. **Channel 3:** 462.600 MHz
4. **Channel 4:** 462.625 MHz
5. **Channel 5:** 462.650 MHz
6. **Channel 6:** 462.675 MHz
7. **Channel 7:** 462.700 MHz
8. **Channel 8:** 467.225 MHz
9. **Channel 9:** 467.250 MHz
10. **Channel 10:** 467.275 MHz
11. **Channel 11:** 467.300 MHz
12. **Channel 12:** 467.325 MHz
13. **Channel 13:** 467.350 MHz
14. **Channel 14:** 467.375 MHz

- 15. **Channel 15:** 467.400 MHz
- 16. **Channel 16:** 467.425 MHz
- 17. **Channel 17:** 467.450 MHz
- 18. **Channel 18:** 467.475 MHz
- 19. **Channel 19:** 467.500 MHz
- 20. **Channel 20:** 467.525 MHz
- 21. **Channel 21:** 467.550 MHz
- 22. **Channel 22:** 467.575 MHz

GMRS Licensing Requirements

One of the significant differences between GMRS and other radio services is that GMRS requires a license for operation. The Federal Communications Commission (FCC) regulates this service, and obtaining a GMRS license is relatively straightforward. Here are the key points regarding GMRS licensing:

- **License Requirement:** A GMRS license is required for individuals who wish to operate on GMRS frequencies.
- **Family License:** A single license covers the entire family, allowing all immediate family members to use GMRS radios.
- **License Duration:** GMRS licenses are valid for ten years and can be renewed.
- **Application Process:** Applications are submitted through the FCC's Universal Licensing System (ULS).
- **Fee:** There is a nominal fee associated with obtaining a GMRS license.

GMRS vs. FRS: Key Differences

While GMRS and Family Radio Service (FRS) may seem similar, they have distinct differences that users should be aware of:

- **Licensing:** GMRS requires a license, while FRS does not.
- **Power Output:** GMRS radios can transmit at higher power levels (up to 50 watts) compared to FRS radios (maximum of 2 watts).
- **Channels:** GMRS has dedicated channels (1-7) that allow for higher power transmission, while FRS shares channels with GMRS (8-22) but is limited in power.
- **Usage:** GMRS is often used for longer-range communications, while FRS is more suitable for short-range, casual use.

Tips for Effective GMRS Communication

To maximize the effectiveness of GMRS communication, consider the following tips:

- **Use Repeaters:** Many GMRS users utilize repeaters to extend their communication range. Familiarize yourself with local repeaters in your area.
- **Practice Good Radio Etiquette:** Be respectful and concise in your communications. Use clear language and avoid unnecessary chatter.
- **Choose the Right Channel:** Avoid congested channels and select the least used channel for clearer communication.
- **Monitor Battery Life:** Ensure your devices are charged and ready for use, especially during outdoor activities.
- **Stay Informed:** Keep yourself updated on local GMRS regulations to ensure compliance and avoid fines.

Conclusion

In summary, a **GMRS frequency cheat sheet** is a valuable tool for anyone looking to engage in GMRS communication. Understanding the frequency ranges, licensing requirements, and effective communication strategies will enhance your experience and ensure you make the most of your GMRS radios. Whether you're using GMRS for recreational purposes or safety during outdoor adventures, being informed will lead to more effective and enjoyable communication.

Frequently Asked Questions

What is GMRS?

GMRS stands for General Mobile Radio Service, a licensed radio service that uses narrowband FM channels for two-way communication.

What frequencies are used in GMRS?

GMRS operates on 462 MHz and 467 MHz frequencies, with 22 channels available, including both repeater and simplex channels.

Do I need a license to operate on GMRS frequencies?

Yes, a GMRS license is required for individuals to operate on GMRS frequencies, which is issued by the FCC in the United States.

What is the difference between GMRS and FRS?

GMRS allows for higher power output and longer range compared to FRS. GMRS requires a license, while FRS does not.

What is a GMRS frequency cheat sheet?

A GMRS frequency cheat sheet is a quick reference guide that lists GMRS frequencies, including channel numbers, frequencies, and their uses, making it easier for users to operate.

Can GMRS channels be used for emergency communication?

Yes, GMRS channels can be utilized for emergency communication, and users are encouraged to assist during emergencies, respecting channel etiquette.

How can I find the GMRS frequencies for my area?

You can find GMRS frequencies for your area by checking the FCC database, local amateur radio clubs, or GMRS frequency resources online.

What is the maximum power output for GMRS radios?

GMRS radios can operate with a maximum power output of 50 watts, depending on the specific channel and equipment used.

Are there any restrictions on GMRS frequency usage?

Yes, GMRS users must adhere to specific regulations, including no commercial use, proper identification, and avoiding interference with other licensed users.

Where can I find a printable GMRS frequency cheat sheet?

Printable GMRS frequency cheat sheets can often be found on radio enthusiast websites, GMRS forums, or by searching for GMRS frequency charts online.

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