Wedgefield CERT Team
Programming the Motorola MS350 FRS/GMRS Radio

Important Controls

The graphic above indicates the important controls required for successfully programming the features required for proper operation. For the purposes of this document, the important information that outside agencies may require is:

- The Frequency used for this setup is: FRS Channel 9 or 467.5875 MHz .
- The interference eliminator code is code 0 (Disabled per CERT recommendation).

Note: This radio may revert to an "unprogrammed" state if the batteries are removed or if the radio has been unused for a long period of storage. This will be indicated by the display window showing Channel #1 (the large number) and Interference code # 1 (the lower ,smaller number).

Let's begin by turning the radio on.

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Turning the Radio On and Off

Press and hold for 3 seconds to turn the radio on. Press and hold for 3 seconds to turn the radio off. In the ON position, the radio chirps and briefly shows all feature icons available on the radio. The display screen then shows the current channel, code and all features that are enabled.

Setting the Volume

Press and hold for 3 seconds, then press + the or - keys until you reach a comfortable listening level. The MS350 has 16 volume levels controlled by the keys. Level 10 is a typical setting.

1. Press + to increase volume.
2. Press - to decrease volume.
3. Hold or to rapidly increase volume.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear. Normal volume is setting # 10.

Selecting the Channel (the LARGE NUMBER)

This radio has 22 simplex channels plus 8 repeater duplex channels. Channels are shared by other radio users and channel selection will vary based on your location. Select a channel that is not being used from the 22 available simplex channels. Channels 8-14 are low power (FRS 0.5 watt). All other channels are GMRS channels requiring a GMRS license to use.

When the radio is on a FRS 0.5 watt channel, displays.
When the radio is on a GMRS 1.5 watt channel, displays.

The 8 GMRS repeater duplex channels 15R – 22R are disabled by default.

1. Press (MENU) The current channel setting flashes.
2. Press + or - and select the channel. (Our teams use channel #9)
3. Press to store the channel setting or to continue set up.

Selecting the Interference Eliminator Code (the SMALL NUMBER).

This radio has 121 Interference Eliminator Code settings. When a channel is in use by 2 or more groups, this feature blocks the reception of signals that do not carry the matching tone or code.

There are 121 privacy codes. 0 is the off position, no codes are enabled, and all users of that channel will be heard. We have selected code #0 (disabled) to be used within our teams.

1. Press (MENU) until the code (SMALL NUMBER) starts to flash.
2. Press + or - to select code # 0.
3. Press to save the channel setting or to continue set up.

You can set a different code for each channel using this procedure. An extended press of or allows you to scroll rapidly so you can quickly reach the code you want more quickly.

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Locking your settings.

Press and hold MENU until icon displays. To unlock press and hold MENU until extinguishes. Locking prevents inadvertent changes to the settings and is suggested once you have completed programming. Many other settings are available using the MENU button, but these are the most critical ones, all the other are "nice to have" features.

Frequency Table

FRS / GMRS SIMPLEX CHANNELS AND FREQUENCIES					
CHANNEL	FREQ (MHz)	TYPE	CHANNEL	FREQ (MHz)	TYPE
1	462.5625	GMRS/FRS	12	467.6625	FRS
2	462.5875	GMRS/FRS	13	467.6875	FRS
3	462.6125	GMRS/FRS	14	467.7125	FRS
4	462.6375	GMRS/FRS	15	462.5500	GMRS
5	462.6625	GMRS/FRS	16	462.5750	GMRS
6	462.6875	GMRS/FRS	17	462.6000	GMRS
7	462.7125	GMRS/FRS	18	462.6250	GMRS
8	467.5625	FRS	19	462.6500	GMRS
9	467.5875	FRS	20	462.6750	GMRS
10	467.6125	FRS	21	462.7000	GMRS
11	467.6375	FRS	22	462.7250	GMRS

Interference Eliminator Code Tables

INTERFERENCE ELIMINATOR TONE / CODE VALUES					
CODE	(Hz)	CODE	(OCTAL)	CODE	(OCTAL)
1	67.0	39	023	81	315
2	71.9	40	025	82	331
3	74.4	41	026	83	343
4	77.0	42	031	84	346
5	79.7	43	032	85	351
6	82.5	44	043	86	364
7	85.4	45	047	87	365
8	88.5	46	051	88	371
9	91.5	47	054	89	411
10	94.8	48	065	90	412
11	97.4	49	071	91	413
12	100.0	50	072	92	423
13	103.5	51	073	93	431
14	107.2	52	074	94	432
15	110.9	53	114	95	445
16	114.8	54	115	96	464
17	118.8	55	116	97	465
18	123.0	56	125	98	466
19	127.3	57	131	99	503
20	131.8	58	132	100	506
21	136.5	59	134	101	516
22	141.3	60	143	102	532
23	146.2	61	152	103	546
24	151.4	62	155	104	565
25	156.7	63	156	105	606
26	162.2	64	162	106	612
27	167.9	65	165	107	624
28	173.8	66	172	108	627
29	179.9	67	174	109	631
30	186.2	68	205	110	632
31	192.8	69	223	111	654
32	203.5	70	226	112	662
33	210.7	71	243	113	664
34	218.1	72	244	114	703
35	225.7	73	245	115	712
36	233.6	74	251	116	723
37	241.8	75	261	117	731
38	250.3	76	263	118	732
		77	265	119	734
		78	271	120	743
		79	306	121	754
		80	311		