

FRS and GMRS Frequencies and Privacy Codes

What your radio calls a “privacy code” is a CTCSS tone or DCS code — and the number is not the same on every brand

Tables compiled by N0TFU — June 2026 revision. Reproduced with credit as a reference sheet for Fortune Favors the Prepared, COM-05 ICS-205 Communications Plan.

Why this sheet exists.

Consumer FRS and GMRS radios almost never show you the actual tone. They show a number, and they call it a privacy code, an interference eliminator code, or a sub-channel. Two things follow, and both bite.

1. It is not privacy. A CTCSS tone or DCS code only controls when *your own* speaker opens. Everyone else on that frequency still hears every word you say, whatever code you set. It is a squelch convenience, not security of any kind.

2. The number is not portable. Code numbers are assigned by each manufacturer and they do not agree. On Baofeng, Retevis, Radioddity, Cherokee 465 or Radio Shack code 3 is 71.9 Hz; on Backcountry Access, Cobra, Midland, Motorola TalkAbout, Rocky Talkie, Uniden or Rugged Radios code 3 is 74.4 Hz. Set one household to “channel 17, code 3” and another to the same words on a different brand and they will not hear each other, and nothing will look wrong on either radio.

What to write down. Record the tone in hertz (67.0 to 254.1) or the DCS code as its three-digit number — never the menu position. On an ICS-205 the RX Tone and TX Tone columns want the actual value, because that is the only form of it that means the same thing on every radio your plan has to work with.

How to use these tables

Find your radio's brand column, find the code number the radio displays, and read across to the left-hand column for the real value. That value is what goes on your communications plan and what you give anyone outside your group. Working the other way — from a tone somebody gave you to the number to dial into a bubble-pack radio — use the same row in reverse.

A blank cell means that brand does not offer that tone or code at all. This matters: a plan built on 69.3 Hz cannot be programmed into a Cobra or a Midland, because those radios do not have it.

The channel table on the next page carries the current post-2017 allocation. The eight unnumbered 467 MHz entries there are the GMRS repeater inputs — what a handheld transmits on when working through a repeater, and what belongs in the TX Freq column of an ICS-205.

FRS and GMRS channels

Channels 1–7 are shared FRS and GMRS. Channels 8–14 are low power on both services. Channels 15–22 are GMRS only at up to 50 W. The eight unnumbered 467 MHz entries at the bottom are the GMRS repeater *inputs*, paired with channels 15–22.

Channel	Frequency	FRS Power	GMRS Power	Bandwidth
01	462.5625	2 W	5 W	25 kHz
02	462.5875	2 W	5 W	25 kHz
03	462.6125	2 W	5 W	25 kHz
04	462.6375	2 W	5 W	25 kHz
05	462.6625	2 W	5 W	25 kHz
06	462.6875	2 W	5 W	25 kHz
07	462.7125	2 W	5 W	25 kHz
08	467.5625	0.5 W	0.5 W	12.5 kHz
09	467.5875	0.5 W	0.5 W	12.5 kHz
10	467.6125	0.5 W	0.5 W	12.5 kHz
11	467.6375	0.5 W	0.5 W	12.5 kHz
12	467.6625	0.5 W	0.5 W	12.5 kHz
13	467.6875	0.5 W	0.5 W	12.5 kHz
14	467.7125	0.5 W	0.5 W	12.5 kHz
15	462.55	2 W	50 W	25 kHz
16	462.575	2 W	50 W	25 kHz
17	462.6	2 W	50 W	25 kHz
18	462.625	2 W	50 W	25 kHz
19	462.65	2 W	50 W	25 kHz
20	462.675	2 W	50 W	25 kHz
21	462.7	2 W	50 W	25 kHz
22	462.725	2 W	50 W	25 kHz
	467.55		50 W	
	467.575		50 W	
	467.6		50 W	
	467.625		50 W	
	467.65		50 W	
	467.675		50 W	
	467.7		50 W	
	467.725		50 W	

CTCSS tones by manufacturer

Tone frequency in hertz on the left; the code number each brand displays across the row. Motorola PL uses two-letter designators rather than numbers. An asterisk marks a brand that maps two adjacent tones to the same displayed code.

Tone Freq (Hz)	Black	country Access	Cobra	Midland	Motorola	TalkAbout	Rocky Talkie	Uniden	Rugged Radios	Baofeng	Retevis	Radioddity	Cherokee 465	Motorola PL	Motorola Sport	Radio Shack
62.5									39							
67	1		1	1	1	1	1	1	1	1	1	1	1	XZ		1
69.3									40	2	2	2	2	WZ		
69.4																2
71.9	2		2	2	2	2	2	2	2	3	3	3	3	XA		3
74.4	3		3	3	3	3	3	3	3	4	4	4	4	WA		4
77	4		4	4	4	4	4	4	4	5	5	5	5	XB	A	5
79.7	5		5	5	5	5	5	5	5	6	6	6	6	WB		6
82.5	6		6	6	6	6	6	6	6	7	7	7	7	YZ		7
85.4	7		7	7	7	7	7	7	7	8	8	8	8	YA		8
88.5	8		8	8	8	8	8	8	8	9	9	9	9	YB	B	9
91.5	9		9	9	9	9	9	9	9	10	10	10	10	ZZ		10
94.8	10		10	10	10	10	10	10	10	11	11	11	11	ZA		11
97.4	11		11	11	11	11	11	11	11	12	12	12	12	ZB	C	12
100	12		12	12	12	12	12	12	12	13	13	13	13	1Z		13
103.5	13		13	13	13	13	13	13	13	14	14	14	14	1A		14
107.2	14		14	14	14	14	14	14	14	15	15	15	15	1B	D	15
110.9	15		15	15	15	15	15	15	15	16	16	16	16	2Z		16
114.8	16		16	16	16	16	16	16	16	17	17	17	17	2A		17
118.8	17		17	17	17	17	17	17	17	18	18	18	18	2B	E	18
123	18		18	18	18	18	18	18	18	19	19	19	19	3Z		19
127.3	19		19	19	19	19	19	19	19	20	20	20	20	3A	F	20
131.8	20		20	20	20	20	20	20	20	21	21	21	21	3B		21
136.5	21		21	21	21	21	21	21	21	22	22	22	22	4Z	G	22
141.3	22		22	22	22	22	22	22	22	23	23	23	23	4A		23
146.2	23		23	23	23	23	23	23	23	24	24	24	24	4B		24
151.4	24		24	24	24	24	24	24	24	25	25	25	25	5Z		25

Tone Freq (Hz)	Backcountry Access	Cobra	Midland	Motorola TalkAbout	Rocky Talkie	Uniden	Rugged Radios	Baofeng	Retevis	Radioddity	Cherokee 465	Motorola PL	Motorola Sport	Radio Shack
156.7	25	25	25	25	25	25	25	26	26	26	26	5A		26
159.8							41	27	27	27	27			27
162.2	26	26	26	26	26	26	26	28	28	28	28	5B		28
165.5							42	29	29	29				29
167.9	27	27	27	27	27	27	27	30	30	30	29	6Z		30
171.3							43	31	31	31				31
173.8	28	28	28	28	28	28	28	32	32	32	30	6A		32
177.3							44	33*	33	33				33
177.8								33*						
179.9	29	29	29	29	29	29	29	34	34	34	31	6B		34
183.5							45	35	35	35	32			35
186.2	30	30	30	30	30	30	30	36	36	36	33	7Z		36
189.9							46	37	37	37	34			37
192.8	31	31	31	31	31	31	31	37	38	38	35	7A		38
196.6							47	39	39	39	36			
199.5							48	40	40	40	37			
203.5	32	32	32	32	32	32	32	41	41	41	38	M1		
206.5							49	42	42	42	39	8Z		
210.7	33	33	33	33	33	33	33	43	43	43	40	M2		
218.1	34	34	34	34	34	34	34	44	44	44	41	M3		
225.7	35	35	35	35	35	35	35	45	45	45	42	M4		
229.1							50	46	46	46	43	9Z		
233.6	36	36	36	36	36	36	36	47	47	47	44	M5		
241.8	37	37	37	37	37	37	37	48	48	48	45	M6		
250.3	38	38	38	38	38	38	38	49	49	49	46	M7		
254.1							51	50	50	50	47	0Z		

CTCSS tones, grouped

The same data with brands that share an identical numbering scheme collapsed into one column. Use this if your brand is listed below; use the full table if it is not.

Azure — Backcountry Access, Cobra, Midland, Motorola TalkAbout, Rocky Talkie, Uniden

Indigo — Rugged Radios

Crimson — Retevis, Radioddity, and Baofeng with three exceptions (Baofeng shows 33 for both 177.3 and 177.8 Hz, and 37 rather than 38 at 192.8 Hz)

Tone Freq (Hz)	Azure	Indigo	Crimson
62.5		39	
67	1	1	1
69.3		40	2
69.4			
71.9	2	2	3
74.4	3	3	4
77	4	4	5
79.7	5	5	6
82.5	6	6	7
85.4	7	7	8
88.5	8	8	9
91.5	9	9	10
94.8	10	10	11
97.4	11	11	12
100	12	12	13
103.5	13	13	14
107.2	14	14	15
110.9	15	15	16
114.8	16	16	17
118.8	17	17	18
123	18	18	19
127.3	19	19	20
131.8	20	20	21
136.5	21	21	22

Tone Freq (Hz)	Azure	Indigo	Crimson
141.3	22	22	23
146.2	23	23	24
151.4	24	24	25
156.7	25	25	26
159.8		41	27
162.2	26	26	28
165.5		42	29
167.9	27	27	30
171.3		43	31
173.8	28	28	32
177.3		44	33
177.8			
179.9	29	29	34
183.5		45	35
186.2	30	30	36
189.9		46	37
192.8	31	31	38
196.6		47	39
199.5		48	40
203.5	32	32	41
206.5		49	42
210.7	33	33	43
218.1	34	34	44
225.7	35	35	45
229.1		50	46
233.6	36	36	47
241.8	37	37	48
250.3	38	38	49
254.1		51	50

DCS codes by manufacturer

Digital coded squelch. The three-digit DCS code on the left is the portable value; the alternate column gives the normal-polarity long form used by programming software.

DCS Code	Alternate	Backcountry Access	Motorola	Rocky Talkie	Uniden	Cobra	Midland	Rugged Radios	Baofeng	Retevis	Radioddity GM-30	Radioddity DB40-G
023	D023N	39	39	39	39	1	1	1	1	1	1	1
025	D025N	40	40	40	40	2	2	2	2	2	2	2
026	D026N	41	41	41	41	3	3	3	3	3	3	3
031	D031N	42	42	42	42	4	4	4	4	4	4	4
032	D032N	43	43	43	43	5	5	5	5	5	5	5
036	D036N						84	84	6	6	6	6
043	D043N	44	44	44	44	6	6	6	7	7	7	7
047	D047N	45	45	45	45	7	7	7	8	8	8	8
051	D051N	46	46	46	46	8	8	8	9	9	9	9
053	D053N						85	85	10	10	10	10
054	D054N	47	47	47	47	9	9	9	11	11	11	11
065	D065N	48	48	48	48	10	10	10	12	12	12	12
071	D071N	49	49	49	49	11	11	11	13	13	13	13
072	D072N	50	50	50	50	12	12	12	14	14	14	14
073	D073N	51	51	51	51	13	13	13	15	15	15	15
074	D074N	52	52	52	52	14	14	14	16	16	16	16
114	D114N	53	53	53	53	15	15	15	17	17	17	17
115	D115N	54	54	54	54	16	16	16	18	18	18	18
116	D116N	55	55	55	55	17	17	17	19	19	19	19
122	D122N						86	86	20	20	20	20
125	D125N	56	56	56	56	18	18	18	21	21	21	21
131	D131N	57	57	57	57	19	19	19	22	22	22	22
132	D132N	58	58	58	58	20	20	20	23	23	23	23
134	D134N	59	59	59	59	21	21	21	24	24	24	24
143	D143N	60	60	60	60	22	22	22	25	25	25	25
145	D145N						87	87	26	26	26	26
152	D152N	61	61	61	61	23	23	23	27	27	27	27

DCS Code	Alternate	Backcountry Access	Motorola	Rocky Talkie	Uniden	Cobra	Midland	Rugged Radios	Baofeng	Retevis	Radioddity GM-30	Radioddity DB40-G
155	D155N	62	62	62	62	24	24	24	28	28	28	28
156	D156N	63	63	63	63	25	25	25	29	29	29	29
162	D162N	64	64	64	64	26	26	26	30	30	30	30
165	D165N	65	65	65	65	27	27	27	31	31	31	31
172	D172N	66	66	66	66	28	28	28	32	32	32	32
174	D174N	67	67	67	67	29	29	29	33	33	33	33
205	D205N	68	68	68	68	30	30	30	34	34	34	34
212	D212N						88	88	35	35	35	35
223	D223N	69	69	69	69	31	31	31	36	36	36	36
225	D225N						89	89	37	37	37	37
226	D226N	70	70	70	70	32	32	32	38	38	38	38
243	D243N	71	71	71	71	33	33	33	39	39	39	39
244	D244N	72	72	72	72	34	34	34	40	40	40	40
245	D245N	73	73	73	73	35	35	35	41	41	41	41
246	D246N						90	90	42	42	42	42
251	D251N	74	74	74	74	36	36	36	43	43	43	43
252	D252N						91	91	44	44	44	44
255	D255N						92	92	45	45	45	45
261	D261N	75	75	75	75	37	37	37	46	46	46	46
263	D263N	76	76	76	76	38	38	38	47	47	47	47
265	D265N	77	77	77	77	39	39	39	48	48	48	48
266	D266N						93	93	49	49	49	49
271	D271N	78	78	78	78	40	40	40	50	50	50	50
274	D274N						94	94	51	51	51	51
306	D306N	79	79	79	79	41	41	41	52	52	52	52
311	D311N	80	80	80	80	42	42	42	53	53	53	53
315	D315N	81	81	81	81	43	43	43	54	54	54	54
325	D325N						95	95	55	55	55	55
331	D331N	82	82	82	82	44	44	44	56	56	56	56
332	D332N						96	96	57	57	57	57

DCS Code	Alternate	Backcountry Access	Motorola	Rocky Talkie	Uniden	Cobra	Midland	Rugged Radios	Baofeng	Retevis	Radioddity GM-30	Radioddity DB40-G
343	D343N	83	83	83	83	45	45	45	58	58	58	58
346	D346N	84	84	84	84	46	46	46	59	59	59	59
351	D351N	85	85	85	85	47	47	47	60	60	60	60
356	D356N						97	97	61	61	61	61
364	D364N	86	86	86	86	48	48	48	62	62	62	62
365	D365N	87	87	87	87	49	49	49	63	63	63	63
371	D371N	88	88	88	88	50	50	50	64	64	64	64
411	D411N	89	89	89	89	51	51	51	65	65	65	65
412	D412N	90	90	90	90	52	52	52	66	66	66	66
413	D412N	91	91	91	91	53	53	53	67	67	67	67
423	D423N	92	92	92	92	54	54	54	68	68	68	68
431	D431N	93	93	93	93	55	55	55	69	69	69	69
432	D432N	94	94	94	94	56	56	56	70	70	70	70
445	D445N	95	95	95	95	57	57	57	71	71	71	71
446	D446N						98	98	72	72	72	72
452	D452N						99	99	73	73	73	73
454	D454N						100	100	74	74	74	74
455	D455N						101	101	75	75	75	75
462	D462N						102	102	76	76	76	76
464	D464N	96	96	96	96	58	58	58	77	77	77	77
465	D465N	97	97	97	97	59	59	59	78	78	78	78
466	D466N	98	98	98	98	60	60	60	79	79	79	79
503	D503N	99	99	99	99	61	61	61	80	80	80	80
506	D506N	100	100	100	100	62	62	62	81	81	81	81
516	D516N	101	101	101	101	63	63	63	82	82	82	82
523	D523N						103	103	83	83	83	83
526	D526N						104	104	84	84	84	84
532	D532N	102	102	102	102	64	64	64	85	85	85	85
546	D546N	103	103	103	103	65	65	65	86	86	86	86
565	D565N	104	104	104	104	66	66	66	87	87	87	87

DCS Code	Alternate	Backcountry Access	Motorola	Rocky Talkie	Uniden	Cobra	Midland	Rugged Radios	Baofeng	Retevis	Radioddity GM-30	Radioddity DB40-G
606	D606N	105	105	105	105	67	67	67	88	88	88	88
612	D612N	106	106	106	106	68	68	68	89	89	89	89
624	D624N	107	107	107	107	69	69	69	90	90	90	90
627	D627N	108	108	108	108	70	70	70	91	91	91	91
631	D631N	109	109	109	109	71	71	71	92	92	92	92
632	D632N	110	110	110	110	72	72	72	93	93	93	93
645	D645N								94	94	94	
654	D654N	111	111	111	111	73	73	73	95	95	95	94
662	D662N	112	112	112	112	74	74	74	96	96	96	95
664	D664N	113	113	113	113	75	75	75	97	97	97	96
703	D703N	114	114	114	114	76	76	76	98	98	98	97
712	D712N	115	115	115	115	77	77	77	99	99	99	98
718												
723	D723N	116	116	116	116	78	78	78	100	100	100	99
731	D731N	117	117	117	117	79	79	79	101	101	101	100
732	D732N	118	118	118	118	80	80	80	102	102	102	101
734	D734N	119	119	119	119	81	81	81	103	103	103	102
743	D743N	120	120	120	120	82	82	82	104	104	104	103
754	D754N	121	121	121	121	83	83	83	105	105	105	104

DCS codes, grouped

Amber — Backcountry Access, Motorola, Rocky Talkie, Uniden

Lime — Cobra

Jade — Midland, Rugged Radios

Lilac — Baofeng, Retevis, Radioddity GM-30. The Radioddity DB40-G runs one number lower from code 654 upward and omits 645, so check it against the full table.

DCS Code	Alternate	Amber	Lime	Jade	Lilac
023	D023N	39	1	1	1
025	D025N	40	2	2	2
026	D026N	41	3	3	3
031	D031N	42	4	4	4
032	D032N	43	5	5	5
036	D036N			84	6
043	D043N	44	6	6	7
047	D047N	45	7	7	8
051	D051N	46	8	8	9
053	D053N			85	10
054	D054N	47	9	9	11
065	D065N	48	10	10	12
071	D071N	49	11	11	13
072	D072N	50	12	12	14
073	D073N	51	13	13	15
074	D074N	52	14	14	16
114	D114N	53	15	15	17
115	D115N	54	16	16	18
116	D116N	55	17	17	19
122	D122N			86	20
125	D125N	56	18	18	21
131	D131N	57	19	19	22
132	D132N	58	20	20	23
134	D134N	59	21	21	24

DCS Code	Alternate	Amber	Lime	Jade	Lilac
143	D143N	60	22	22	25
145	D145N			87	26
152	D152N	61	23	23	27
155	D155N	62	24	24	28
156	D156N	63	25	25	29
162	D162N	64	26	26	30
165	D165N	65	27	27	31
172	D172N	66	28	28	32
174	D174N	67	29	29	33
205	D205N	68	30	30	34
212	D212N			88	35
223	D223N	69	31	31	36
225	D225N			89	37
226	D226N	70	32	32	38
243	D243N	71	33	33	39
244	D244N	72	34	34	40
245	D245N	73	35	35	41
246	D246N			90	42
251	D251N	74	36	36	43
252	D252N			91	44
255	D255N			92	45
261	D261N	75	37	37	46
263	D263N	76	38	38	47
265	D265N	77	39	39	48
266	D266N			93	49
271	D271N	78	40	40	50
274	D274N			94	51
306	D306N	79	41	41	52
311	D311N	80	42	42	53
315	D315N	81	43	43	54

DCS Code	Alternate	Amber	Lime	Jade	Lilac
325	D325N			95	55
331	D331N	82	44	44	56
332	D332N			96	57
343	D343N	83	45	45	58
346	D346N	84	46	46	59
351	D351N	85	47	47	60
356	D356N			97	61
364	D364N	86	48	48	62
365	D365N	87	49	49	63
371	D371N	88	50	50	64
411	D411N	89	51	51	65
412	D412N	90	52	52	66
413	D412N	91	53	53	67
423	D423N	92	54	54	68
431	D431N	93	55	55	69
432	D432N	94	56	56	70
445	D445N	95	57	57	71
446	D446N			98	72
452	D452N			99	73
454	D454N			100	74
455	D455N			101	75
462	D462N			102	76
464	D464N	96	58	58	77
465	D465N	97	59	59	78
466	D466N	98	60	60	79
503	D503N	99	61	61	80
506	D506N	100	62	62	81
516	D516N	101	63	63	82
523	D523N			103	83
526	D526N			104	84

DCS Code	Alternate	Amber	Lime	Jade	Lilac
532	D532N	102	64	64	85
546	D546N	103	65	65	86
565	D565N	104	66	66	87
606	D606N	105	67	67	88
612	D612N	106	68	68	89
624	D624N	107	69	69	90
627	D627N	108	70	70	91
631	D631N	109	71	71	92
632	D632N	110	72	72	93
645	D645N				94
654	D654N	111	73	73	95
662	D662N	112	74	74	96
664	D664N	113	75	75	97
703	D703N	114	76	76	98
712	D712N	115	77	77	99
718					
723	D723N	116	78	78	100
731	D731N	117	79	79	101
732	D732N	118	80	80	102
734	D734N	119	81	81	103
743	D743N	120	82	82	104
754	D754N	121	83	83	105

Pre-2017 FRS and GMRS channel numbering

Radios sold before the 2017 FCC rule change numbered these channels differently. If your group has older hardware in service, this is where the channel numbers stop agreeing between an old radio and a new one on the same frequency — another reason a plan records the frequency rather than the channel number.

Frequency	FRS Channel	GMRS Channel	Channel on most radios	Baofeng GMRS-V1 Channel
462.5625	FRS 1	GMRS 9	1	2
462.5875	FRS 2	GMRS 10	2	4
462.6125	FRS 3	GMRS 11	3	6
462.6375	FRS 4	GMRS 12	4	8
462.6625	FRS 5	GMRS 13	5	10
462.6875	FRS 6	GMRS 14	6	12
462.7125	FRS 7	GMRS 15	7	14
467.5625	FRS 8		8	
467.5875	FRS 9		9	
467.6125	FRS 10		10	
467.6375	FRS 11		11	
467.6625	FRS 12		12	
467.6875	FRS 13		13	
467.7125	FRS 14		14	
462.55		GMRS 1	15	1
462.575		GMRS 2	16	3
462.6		GMRS 3	17	5
462.625		GMRS 4	18	7
462.65		GMRS 5	19	9
462.675		GMRS 6	20	11
462.7		GMRS 7	21	13
462.725		GMRS 8	22	15
467.55		GMRS 1 in		16
467.575		GMRS 2 in		17
467.6		GMRS 3 in		18
467.625		GMRS 4 in		19
467.65		GMRS 5 in		20
467.675		GMRS 6 in		21
467.7		GMRS 7 in		22
467.725		GMRS 8 in		23

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