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EFJ Call-Guard tone



chart

Compiled and HTML'd by Mike Morris WA6ILQ

E. F. Johnson company numbers their CTCSS tones, and you will find the tone numbers stamped on their tone elements, not the frequencies.

Here's the list from the pre-synthesized days when the frequency determining element was a small daughterboard that plugged onto the tone board.

Tone Freq (Hz)	Tone Code	Tone Number	
67.0	XZ	1	
69.3 *	(none)	39	
71.9	XA	2	
74.4	WA	3	
77.0	XB	4	
79.7	WB	5	
82.5	YZ	6	
85.4	YA	7	
88.5	YB	8	
91.5	ZZ	9	
94.8	ZA	10	
97.4	ZB	11	
97.4	ZB	11	
100.0	1Z	12	
103.5	1A	13	
107.2	1B	14	
110.9	2Z	15	

Tone Freq (Hz)	Tone Code	Tone Number
136.5	4Z	21
141.3	4A	22
146.2	4B	23
151.4	5Z	24
156.7	5A	25
162.2	5B	26
167.9	6Z	27
173.8	6A	28
179.9	6B	29
186.2	7Z	30
192.8	7A	31
203.5	M1	32
210.7	M2	33
218.1	M3	34
225.7	M4	35
233.6	M5	36
241.8	M6	37

114.8	2A	16
118.8	2B	17
123.0	3Z	18
127.3	3A	19
131.8	3B	20

250.3	M7	38
206.5	8Z	40
229.1	9Z	41
254.1	ØZ*	42

* ØZ: Thats a zero, then the letter "Z"

* The 69.3 Hz tone is a non-standard tone. The manufacturers that did make it available used 69.4, and in many cases the Johnson radios would be flaky or just not work with other manufacturers 69.4 equipment.

The programmable radios like the Challenger use a different tone numbering scheme... the 69.3 tone (tone 39) and the tones above 250.3 (40, 41 and 42) are dropped... (and tones 1-32 are identical to a TS-32):

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Tone Freq (Hz)	Tone Code	Tone Number		Tor Freq
67.0	XZ	1		131
71.9	XA	2		136
74.4	WA	3		141
77.0	XB	4		146
79.7	WB	5		151
82.5	YZ	6		156
85.4	YA	7		162
88.5	YB	8		167
91.5	ZZ	9		173
94.8	ZA	10		179
97.4	ZB	11		186
100.0	1Z	12		192
103.5	1A	13		203
107.2	1B	14		210

Tone Freq (Hz)	Tone Code	Tone Number
131.8	3B	20
136.5	4Z	21
141.3	4A	22
146.2	4B	23
151.4	5Z	24
156.7	5A	25
162.2	5B	26
167.9	6Z	27
173.8	6A	28
179.9	6B	29
186.2	7Z	30
192.8	7A	31
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110.9	2Z	15
114.8	2A	16
118.8	2B	17
123.0	3Z	18
127.3	3A	19

218.1	M3	34
225.7	M4	35
233.6	M5	36
241.8	M6	37
250.3	M7	38

Johnsons literature makes the point that subaudible tones above 200hz are not recommended due to the propensity for talk-off and falsing on lower pitched voices.

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Page created 10-Jul-2006 This page was last updated on 10-Apr-2010

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