



2-TONE CODING FORMAT INSTRUCTION MANUAL

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Some pagers perceive a group call to be when it receives an 8 second transmission of only Tone B. Thus, in this fashion, it is possible to make particular pagers part of a group by assigning Cap Codes such that all pagers are part of a Group have the same Tone B. Using our last example to make groups of ten pagers, each pager would have the same first letter and digit and the same last digit. The center digit would increment from 0 to 9. So our group of ten pagers would have Cap Codes of D401, D411, D421, D431, D441, D451, D461, D471, D481 and D491.

Another way group call is accomplished is with pagers capable of receiving a Tone A, Tone B and Tone C. These Dual Call pagers may be alerted by transmitting combinations of Tone A and Tone B or Tone A and Tone C. A long transmission of only Tone B or Tone C is used then for a group call.

The third method is dependent on the control center. This technique involves defining pagers as part of a group at the control center. When a group call is required, then the control center sends in rapid-fire style a succession of transmissions to each pager in the group. The only drawback to this technique is long duration of the transmission required. For a group of 50 pagers the transmission would last over two minutes, and of course there would be a two-minute delay between the alerting of the first pager and the alerting of the last pager part of the group.

Two-Tone Coding requires the use of the Nova programmer and software. This function may be performed by installing the software into a DOS based compatible computer and attaching the programming system interface box (cradle) to the hard drive. Depending on the computer, you may have to use MS-DOS prompts to open the software.

Table 2. Tone Groups

** TONE	Tone Group 1		Tone Group 2		Tone Group 3 (OR A)		Tone Group 4		Tone Group 5		Tone Group 6		Tone Group 10		Tone Group 11	
Number	Code	Freq. Hz.	Code	Freq. Hz.	Code	Freq. Hz.	Code	Freq. Hz.	Code	Freq. Hz.	Code	Freq. Hz.	Code	Freq. Hz.	Code	Freq. Hz.
1	111	349.0	121	600.9	138	288.5	141	339.6	151	584.8	191	1153.4	170	1472.9	200*	1930.2
2	112	368.5	122	634.5	108	296.5	142	358.6	152	617.4	192	1185.2	171	1513.5	201*	1989.0
3	113	389.0	123	669.9	139	304.7	143	378.6	153	651.9	193	1217.8	172	1555.2	202*	2043.8
4	114	410.8	124	707.3	109	313.0	144	399.8	154	688.3	194	1251.4	173	1598.0	203*	2094.5
5	115	433.7	125	746.8	160	953.7	145	422.1	155	726.8	195	1285.8	174	1642.0	204*	2155.6
6	116	457.9	126	788.5	130	979.9	146	445.7	156	767.4	196	1321.2	175	1687.2	205*	2212.2
7	117	483.5	127	832.5	161	1006.9	147	470.5	157	810.2	197	1357.6	176*	1733.7	206	2271.7
8	118	510.5	128	879.0	131	1034.7	148	496.8	158	855.5	198	1395.0	177*	1781.5	207	2334.6
9	119	539.0	129	928.1	162	1063.2	149	524.6	159	903.2	199	1433.4	178*	1830.5	208	2401.0
0	110	330.5	120	569.1	189	1092.4	140	321.7	150	553.9	190	1122.5	179*	1881.0	209	2468.2

***USE ONLY AS “TONE A” DO NOT USE AS “TONE B” OF PAGER CODE
ON PAGERS WITH “ALERT TONE LOCK-UP” RESTRICTIONS**

****Second or third digit of cap code**

Table 3. Letter Code Plan Table

LETTER	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	Y
1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	2 3	2 3	2 3	2 4	2 4	2 5	3 4	3 4	3 5	4 6	AA
2	2 2	2 2	2 2	2 2	1 3	1 3	1 3	1 4	1 4	1 5	2 2	2 2	2 2	2 2	2 2	2 2	4 3	4 3	5 3	6 4	BB
3	3 3	1 2	1 2	1 2	3 3	3 3	3 3	4 1	4 1	5 1	3 3	3 3	3 3	4 2	4 2	5 2	3 3	3 3	3 3	5 6	ZZ
4	1 2	4 4	1 5	2 1	4 4	3 1	3 1	4 4	4 4	1 6	4 4	3 2	3 2	4 4	4 4	2 6	4 4	4 4	3 6	4 4	AB
5	1 3	1 4	5 5	1 6	3 1	5 5	1 6	5 5	1 6	5 5	3 2	5 5	2 6	5 5	2 6	5 5	5 5	3 6	5 5	5 5	AZ
6	2 1	2 1	2 1	6 6	1 4	1 5	6 6	1 5	6 6	6 6	2 4	2 5	6 6	2 5	6 6	6 6	3 5	6 6	6 6	6 6	BA
7	3 1	4 1	5 1	6 1	4 1	5 1	6 1	4 5	6 1	6 1	4 2	5 2	6 2	4 5	6 2	6 2	4 5	6 3	6 3	4 5	ZA
8	2 3	2 4	2 5	2 6	3 4	3 5	3 6	5 4	4 6	5 6	3 4	3 5	3 6	5 4	4 6	5 6	5 4	4 6	5 6	5 4	BZ
9	3 2	4 2	5 2	6 2	4 3	5 3	6 3	5 1	6 4	6 5	4 3	5 3	6 3	5 2	6 4	6 5	6 3	6 4	6 5	6 5	ZB
0	2 4	XX	4 2	4 2	XX	XX	4 2	4 2	4 2	4 2	4 2	XX									

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