

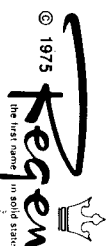
WHAMMO

Frequency Synthesized
Monitorradio/Scanner

FREQUENCY COMB PROGRAMMING DIRECTORY

For Model
ACT-W10

LOW VHF BAND—— 30 TO 50 MHz 440 AMATEUR BAND—440 TO 450 MHz
2M AMATEUR BAND—146 TO 148 MHz STANDARD UHF BAND—450 TO 470 MHz
HIGH VHF BAND——148 TO 174 MHz EXTENDED UHF BAND—470 TO 512 MHz



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7707 Records Street • Indianapolis, Indiana 46226

30—50

146—148

148—174

440—450

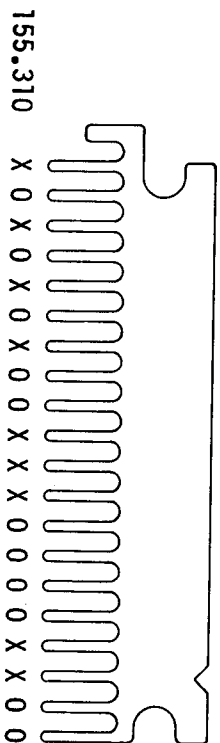
450—470

470—512

PRICE \$5.00

The Frequency Comb Programming Directory provides the ACT-W10 owner with a listing of 5,190 frequencies allocated by the Federal Communication Commission. Each of these frequencies can be easily transferred to a "Frequency Comb" that merely plugs into the back of the ACT-W10. Thus, a Frequency Comb not only tells the unit what frequency to receive, but it also provides it with a non-volatile type memory (a memory that is not affected by a power loss). Therefore, if power to the unit is lost momentarily, or even if the unit is turned off or unplugged for months, the frequency coding information is always available for instant use. This also means the unit can be moved from one location to another, such as from the house to the car, and it is not necessary to reprogram the memory (or have an internal battery).

To program a Comb for a specific frequency, first find that frequency in the Directory. Then place an unprogrammed (or a used one with enough "teeth" remaining) Comb over the associated row of X's and O's. Line up the teeth of the Comb so that the end with the small V-notch is on the right. See illustration below.



By using the small tool provided (or a pair of needle-nose pliers), break off each tooth that is on an X. **Do NOT remove any tooth that is on an O.** Type or write the frequency, and possibly its service or usage, on one of the small labels included with the Combs and affix the label to the Comb.

Insert the Comb in one of the channel connectors on the rear of the ACT-W10. The Comb must be installed with the V-notch

end UP. The short, wide tooth will then be between the lower end of the connector and the receiver's bottom cover. If the Comb is to be inserted in either Channel 1 or 2, be sure that it is installed with the short, wide tooth next to the receiver's bottom cover. The top receptacle in the Channel 1 and 2 connectors is only used by the DFS-5K cable (a 21-pin plug). It is recommended that any channel that does not have a Comb installed should be deactivated (switched OUT; see Owner's Instruction Manual).

To program a Comb for an unlisted receive frequency (one not included in this Directory), it is necessary to first convert the desired receive frequency to its respective "Comb Frequency." Then, by following a specific set of Programming Rules, some of the Comb's teeth are removed. At first glance, the procedure may appear to be quite lengthy and very complex, but by carefully reading through the examples and utilizing the simplified worksheets, no difficulties should be encountered. The procedure is as follows:

I. Receive Frequency Conversion to a "Comb Frequency"

A. Offset the Receive Frequency by 10.7 MHz

1. Lo VHF (30 to 50 MHz): Add 10.70 MHz to the Receive Frequency

EXAMPLE: $42.42 \text{ MHz} + 10.70 \text{ MHz} = 53.12 \text{ MHz}$

2. Hi VHF (146 to 174 MHz): Subtract 10.700 from the Receive Frequency

EXAMPLE: $154.205 \text{ MHz} - 10.700 \text{ MHz} = 143.505 \text{ MHz}$

3. UHF (440 to 512 MHz): Subtract 10.7000 from the Receive Frequency

EXAMPLE: $468.6375 \text{ MHz} - 10.7000 \text{ MHz} = 457.9375 \text{ MHz}$

- B. Record this offset or intermediate frequency in Step A) in the following format:

Band	Column								Acceptable Range*
	1	2	3	4	5	6	7	8	
Lo VHF	—	X	X.	X	X	—	—	—	40.70—60.69
Hi VHF	1	X	X.	X	X	X	—	—	135.3—163.295
UHF	—	X	X	X.	X	X	X	X	429.3—501.2875

***NOTE:** The intermediate frequency (the Receive Frequency properly offset by 10.7 MHz) MUST fall within one of these ranges for proper receiver operation. If it does not, either there is an error in the calculation of the intermediate frequency, or the Receive Frequency is not within one of the defined bands. In addition, there are several limitations that affect the value of the digit in Columns 6, 7 and 8. For a Hi VHF frequency, column 6 can only be a 0 or a 5 for proper operation. For UHF, columns 6, 7 and 8 respectively must be one of the following 3-digit combinations: 000, 125, 250, 375, 500, 625, 750 and 875. These limitations do not really restrict the ACT-W10's frequency coverage because virtually all of the FCC allocations or frequency assignments are within these designated combinations.

Examples using those frequencies from Step A:

Band	Column								Acceptable Range
	1	2	3	4	5	6	7	8	
Lo VHF	—	5	3.	1	2	—	—	—	40.70—60.69
Hi VHF	1	4	3.	5	0	5	—	—	135.3—163.295
UHF	—	4	5	7.	9	3	7	5	429.3—501.2875

- C. Convert each digit in Columns 2 through 5 to its respective 9's complement (9 minus the digit's value equals its 9's complement). Do NOT convert the digits in Columns 1, 6, 7 and 8.

Band	Columns							
	1	2	3	4	5	6	7	8
Lo VHF	—	9—X	9—X	9—X	9—X	—	—	—
Hi VHF	1	9—X	9—X	9—X	9—X	X	—	—
UHF	—	9—X	9—X	9—X	9—X	X	X	X

Digit's Value	9's Complement
0	9
1	8
2	7
3	6
4	5
5	4
6	3
7	2
8	1
9	0

Examples using Step B frequencies:

Band	Columns							
	1	2	3	4	5	6	7	8
Lo VHF	—	4	6.	8	7	—	—	—
Hi VHF	1	5	6.	4	9	5	—	—
UHF	—	5	4	2.	0	3	7	5

This last step (Step C) produces the "Comb Frequency," or the frequency that is to be actually programmed into the comb by selectively removing various teeth following specific rules established in the next section (Part II).

For those who have a pocket calculator (most any model will do), an easy and quick way of checking your conversion results, at least through the first four digits of a UHF or Lo VHF receive frequency and the first five digits of a Hi VHF receive frequency, is as follows:

Lo VHF: 89.29 minus the Receive Frequency (all 4 digits; XX.XX)
EXAMPLE: $89.29 - 42.42 = 46.87$

Hi VHF: 310.69 minus the Receive Frequency's first 5 digits (XXX.XX). EXAMPLE: $310.69 - 154.20 = 156.49$

UHF: 1010.6 minus the Receive Frequency's first 4 digits (XXX.X). EXAMPLE: $1010.6 - 468.6 = 542.0$

II. Programming a Comb

A. Programming Rules for removing specific teeth (each of the comb's 20 teeth has an assigned number).

1. No. 1 tooth always PRESENT (all bands, all frequencies).

2. (a) Lo VHF:

- No. 2 tooth always PRESENT
- No. 3 tooth always PRESENT
- No. 4 tooth always PRESENT
- No. 5 tooth always PRESENT

(b) Hi VHF:

- No. 2 tooth always PRESENT.
- No. 3 tooth REMOVED if column 6's digit is a ZERO.
- No. 3 tooth PRESENT if column 6's digit is a FIVE.
- No. 4 tooth always REMOVED.
- No. 5 tooth always PRESENT.

(c) UHF:

- No. 2 tooth always REMOVED.
- No. 3 tooth REMOVED if column 8's digit is a ZERO.
- No. 3 tooth PRESENT if column 8's digit is a FIVE.
- No. 4 tooth REMOVED if column 7's digit is a ZERO or a TWO.
- No. 4 tooth PRESENT if column 7's digit is a FIVE or a SEVEN.
- No. 5 tooth REMOVED if column 6's digit is a ZERO, ONE, TWO or THREE.
- No. 5 tooth PRESENT if column 6's digit is a FIVE, SIX, SEVEN or EIGHT.

3. Teeth No. 6 through No. 20 are REMOVED according to the BCD value for the digit within each column (2, 3, 4 and 5). The assigned tooth number and its respective BCD value are illustrated below. (Teeth No. 1 through 5 do not have a BCD value; their presence or removal is governed by Rules 1 and 2).

Column No.	1	2	3	4	5	6	7	8	—
Tooth No.	—	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3	2 1
Teeth		○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○	○	○	○ ○ ○
BCD Value		4 2 1	8 4 2 1	8 4 2 1	8 4 2 1	—	—	—	— — —

Not
Tables

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NOTE: The small V-notch on the top edge of the Comb is over tooth No. 3. As used in the Directory, this end of the Comb is considered to be the right end.

- (a) Column 1 is not associated with any teeth, it was merely used to help simplify the conversion format used in Part I.
- (b) Column 2 has only three teeth and their respective BCD values are 4, 2 and 1.
- (c) Columns 3, 4 and 5 have four teeth each and their respective BCD values are 8, 4, 2 and 1.
- (d) Some examples of teeth removal per BCD value:
(An X through a tooth indicates its removal)

Column No.	2	3	4	5
Comb Freq.	4	6	3	8
BCD Value	X ② ①	⑧ X ④ ①	⑧ ④ X X	X ④ ② ①
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6

Column No.	2	3	4	5
Comb Freq.	5	2	7	0
BCD Value	X ② X	⑧ ④ X ①	⑧ X X X	⑧ ④ ② ①
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6

Column No.	2	3	4	5
Comb Freq.	3	9	1	5
BCD Value	④ X X	X ④ ② X	⑧ ④ ② X	⑧ X ② X
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6

NOTE: Teeth are removed so that their assigned BCD value adds up to the digit's value in the respective column (2, 3, 4 or 5).

B. Simplified Worksheet Format and Its Usage

1. Record the Receive Frequency.
2. Calculate the Offset Frequency (add or subtract 10.7 MHz per rules).
3. Convert the digits in columns 2 through 5 to their 9's complement to arrive at the Comb Frequency.
4. Remove teeth No. 2 through 5 per Programming Rule No. 2. Draw an X through each tooth to be removed. See II, B 7 for an easy to follow chart of Rules 1 and 2.
5. Remove teeth No. 6 through 20 per the required BCD value for the Comb Frequency digits in columns 2 through 5. Again, draw an X through each tooth to be removed.

6. Some sample worksheets using Part I example frequencies.

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.	—	4	2 .	4	2	—	—	—	VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.	—	5	3 .	1	2	—	—	—	Lo VHF—add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.	—	4	6	8	7	—	—	—	9's complement in columns 2 thru 5
BCD Value		⊗ ② ①	⊗ ⊗ ⊗ ①	⊗ ④ ② ①	⊗ ⊗ ⊗ ⊗	○	○	○	"X" thru teeth to be removed. See Rules 1, 2 & 3.
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.	1	5	4 .	2	0	5	—	—	VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.	1	4	3 .	5	0	5	—	—	Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.	1	5	6	4	9	5	—	—	9's complement in columns 2 thru 5
BCD Value		⊗ ② ⊗	⊗ ⊗ ⊗ ①	⊗ ⊗ ② ①	⊗ ④ ② ⊗	○	⊗	○	"X" thru teeth to be removed. See Rules 1, 2 & 3
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.	—	4	6	8 .	6	3	7	5	VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.	—	4	5	7 .	9	3	7	5	Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.	—	5	4	2	0	3	7	5	9's complement in columns 2 thru 5
BCD Value		⊗ ② ⊗	⊗ ⊗ ② ①	⊗ ④ ⊗ ①	⊗ ④ ② ①	⊗	○	⊗	"X" thru teeth to be removed. See Rules 1, 2 & 3
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

7. Resume of Programming Rules 1, 2 and 3 (○ = tooth present; X = tooth removed).

Tooth No.	Lo VHF	Hi VHF Col. 6's Digit 5	UHF—Cols. 6, 7 & 8's Digits					
		000	125	250	375	500	625	750
1	○	○	○	○	○	○	○	○
2	○	○	○	X	X	X	X	X
3	○	X	○	X	○	X	○	○
4	○	X	X	X	○	X	X	○
5	○	○	○	X	X	○	○	○
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.							

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.	1	4	8	1	5	0			VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.	1	3	7	4	5	0			Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.	1	6	2	5	4	0		—	9's complement in columns 2 thru 5.
BCD Value		0 ①	⑧ ④ 0 ①	⑧ 0 ② 0	⑧ 0 ② ①	○	0	○ ○ ○	"X" thru teeth to be removed. See Rules below.
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3	

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NOTE: VHF Covers 30–50 MHz (Lo) and 146–174 MHz (Hi); UHF Covers 440–512 MHz

Tooth No.	Lo VHF	Hi VHF		UHF—Cols. 6, 7 & 8's Digits							
		Col. 6's Digit	5	000	125	250	375	500	625	750	875
1	○	○	○	○	○	○	○	○	○	○	○
2	○	○	○	X	X	X	X	X	X	X	X
3	○	X	○	X	○	X	○	X	○	X	○
4	○	X	X	X	X	○	○	X	X	○	○
5	○	○	○	X	X	X	X	○	○	○	○
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.										

COMB PROGRAMMING WORKSHEET

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.	1	6	6	6	1				VHF - D.P. in column 3; UHF - D.P. in column 4
Offset Freq.	1	5	5	9	1				Lo VHF - Add 10.7 MHz; Hi VHF, UHF - subtract 10.7
Comb Freq.	1	4	4	0	0				9's complement in columns 2 thru 5.
BCD Value		2 (1)	8 (2) (1)	8 (4) (2) (1)	8 (4) (2) (1)	0	0	0	"X" thru teeth to be removed. See Rules below.
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.	1	4	5	2	1	0			UHF - D.P. in column 3; UHF - D.P. in column 4
Offset Freq.	1	3	4	5	1	0			Lo VHF - Add 10.7 MHz; Hi VHF, UHF - subtract 10.7
Comb Freq.	1	6	5	4	8	0			9's complement in columns 2 thru 5
BCD Value		8 (1)	8 (2) (1)	8 (2) (1)	8 (4) (2) (1)	0	0	0	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.	1	4	5	4		0			VHF - D.P. in column 3; UHF - D.P. in column 4
Offset Freq.	1	3	4	2	2	0			Lo VHF - Add 10.7 MHz; Hi VHF, UHF - subtract 10.7
Comb Freq.	1	6	5	2	2	0			9's complement in columns 2 thru 5
BCD Value		8 (1)	8 (2) (1)	8 (4) (2) (1)	8 (4) (2) (1)	0	0	0	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

NOTE: VHF Covers 30-50 MHz (Lo) and 146-174 MHz (Hi); UHF Covers 440-512 MHz

BASIC PROGRAMMING RULES (O = Tooth Present; X = Tooth Removed)

Tooth No.	Lo VHF	Hi VHF Col. 6's Digit 5	000	125	250	375	500	625	750	875
1	O	O	O	O	O	O	O	O	O	O
2	O	O	X	X	X	X	X	X	X	X
3	O	X	X	O	X	O	X	O	X	O
4	O	X	X	X	O	O	X	X	O	O
5	O	O	X	X	X	X	O	O	O	O
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.									

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Back

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.		4	5	0	0	9	7	5	VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.		4	3	9	3	8	7	5	Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.		5	6	0	6			—	9's complement in columns 2 thru 5.
BCD Value		8 2 8	8 8 1	8 4 2 1	8 8 1	0	0	0	"X" thru teeth to be removed. See Rules below.
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

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PAGING
BKC

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.		4	1	6	4	0	0	0	UHF — D.P. in column 3; UHF — D.P. in column 4
Offset Freq.		4	0	5	7	0	0	0	Lo VHF — Add 10.7 MHz; Hi VHF, UHF — subtract 10.7
Comp Freq.		5	9	4	2				9's complement in columns 2 thru 5
BCD Value		0 2 0 0	0 4 2 0	0 0 2 1	0 4 0 1	0 0 0 0	0 0 0 0	0 0 0 0	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4 3 2 1			

468.75
NNNS

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.		4	6	8	8	3	7	5	VHF - D.P. in column 3; UHF - D.P. in column 4
Offset Freq.		4	5	8	1	0	0	0	Lo VHF - Add 10.7 MHz; HI VHF, UHF - subtract 10.7
Comb Freq.		5	4	1	8			-	9's complement in columns 2 thru 5
BCD Value		2 2	8 2	1 1	8 4	2 1	0 0	0 0	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4	3 2 1		

NOTE: VHF Covers 30–50 MHz (Lo) and 146–174 MHz (Hi); UHF Covers 440–512 MHz

BASIC PROGRAMMING RULES (O = Tooth Present; X = Tooth Removed)

Tooth No.	Lo VHF	Hi VHF		UHF—Cols. 6, 7 & 8's Digits							
		Col. 6's Digit 0	5	000	125	250	375	500	625	750	875
1	○	○	○	○	○	○	○	○	○	○	○
2	○	○	○	X	X	X	X	X	X	X	X
3	○	X	○	X	○	X	○	X	○	X	○
4	○	X	X	X	X	○	○	X	X	○	○
5	○	○	○	X	X	X	X	○	○	○	○
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.										

MOBILE
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544817

COMB PROGRAMMING WORKSHEET

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.		1	4	6	8				VHF - D.P. in column 3; UHF - D.P. in column 4
Offset Freq.									Lo VHF - Add 10.7 MHz; Hi VHF, UHF - subtract 10.7
Comb Freq.									9's complement in columns 2 thru 5.
BCD Value		4 2 1	8 2 2 1	8 2 2 1	8 4 2 1	0	0	0	"X" thru teeth to be removed. See Rules below.
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3	2 1

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.									UHF - D.P. in column 3; UHF - D.P. in column 4
Offset Freq.									Lo VHF - Add 10.7 MHz; Hi VHF, UHF - subtract 10.7
Comb Freq.									9's complement in columns 2 thru 5
BCD Value		4 2 1	8 4 2 1	8 4 2 1	8 4 2 1	0	0	0	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3	2 1

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.									VHF - D.P. in column 3; UHF - D.P. in column 4
Offset Freq.									Lo VHF - Add 10.7 MHz; Hi VHF, UHF - subtract 10.7
Comb Freq.									9's complement in columns 2 thru 5
BCD Value		4 2 1	8 4 2 1	8 4 2 1	8 4 2 1	0	0	0	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3	2 1

NOTE: VHF Covers 30-50 MHz (Lo) and 146-174 MHz (Hi); UHF Covers 440-512 MHz

BASIC PROGRAMMING RULES (O = Tooth Present; X = Tooth Removed)

Tooth No.	Lo VHF	Hi VHF Col. 6's Digit 0	000	125	250	375	500	625	750	875
1	O	O	O	O	O	O	O	O	O	O
2	O	O	X	X	X	X	X	X	X	X
3	O	X	O	X	O	X	O	O	X	O
4	O	X	X	X	X	O	X	X	O	O
5	O	O	X	X	X	X	O	O	O	O
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.									

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.									VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.									Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.									9's complement in columns 2 thru 5.
BCD Value		④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	○ ○	○ ○	○ ○	"X" thru teeth to be removed. See Rules below.
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4	3 2	1	

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.									UHF — D.P. in column 3; UHF — D.P. in column 4
Offset Freq.									Lo VHF — Add 10.7 MHz; HI VHF, UHF — subtract 10.7
Comp Freq.									9's complement in columns 2 thru 5
BCD Value		(4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	○	○	○	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3	2 1

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.									VHF — D.P. in column 3; UHF — D.P. in column 4
Offset Freq.								—	Lo VHF — Add 10.7 MHz; Hi VHF, UHF — subtract 10.7
Comb Freq.								—	9's complement in columns 2 thru 5
BCD Value		④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	○	○	○	"X" thru teeth to be removed. See Rules below
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5	4	3 2 1	

NOTE: VHF Covers 30–50 MHz (Lo) and 146–174 MHz (Hi); UHF Covers 440–512 MHz

BASIC PROGRAMMING RULES (O = Tooth Present; X = Tooth Removed)

Tooth No.	Lo VHF	Hi VHF Col. 6's Digit		UHF—Cols. 6, 7 & 8's Digits							
		0	5	000	125	250	375	500	625	750	875
1	○	○	○	○	○	○	○	○	○	○	○
2	○	○	○	X	X	X	X	X	X	X	X
3	○	X	○	X	○	X	○	X	○	X	○
4	○	X	X	X	X	○	○	X	X	○	○
5	○	○	○	X	X	X	X	○	○	○	○
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.										

COMB PROGRAMMING WORKSHEET

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.									VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.									Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.									9's complement in columns 2 thru 5.
BCD Value	(4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	"X" thru teeth to be removed. See Rules below.
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4 3 2 1				

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.									UHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.									Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.									9's complement in columns 2 thru 5
BCD Value	(4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	"X" thru teeth to be removed. See Rules below
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4 3 2 1				

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.									VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.									Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.									9's complement in columns 2 thru 5
BCD Value	(4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	(8) (4) (2) (1)	"X" thru teeth to be removed. See Rules below
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4 3 2 1				

NOTE: VHF Covers 30—50 MHz (Lo) and 146—174 MHz (Hi); UHF Covers 440—512 MHz

BASIC PROGRAMMING RULES (O = Tooth Present; X = Tooth Removed)

Tooth No.	Lo VHF	Hi VHF Col. 6's Digit 0	5	000	125	250	375	500	625	750	875
1	O	O	O	O	O	O	O	O	O	O	O
2	O	O	O	X	X	X	X	X	X	X	X
3	O	X	O	X	O	X	O	X	O	X	O
4	O	X	X	X	X	O	O	X	X	O	O
5	O	O	O	X	X	X	X	O	O	O	O
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.										

Column No.	1	2	3	4	5	6	7	8	Notes
Receive Freq.									VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.									Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.								—	9's complement in columns 2 thru 5.
BCD Value		④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	○	○	○	"X" thru teeth to be removed. See Rules below.
Tooth No.		20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4 3	2 1		

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.									— UHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.									— Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comp Freq.									— 9's complement in columns 2 thru 5
BCD Value	④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	○	○	○	— "X" thru teeth to be removed. See Rules below
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4 3 2 1				

Column No.	1	2	3 .	4 .	5	6	7	8	Notes
Receive Freq.									VHF—D.P. in column 3; UHF—D.P. in column 4
Offset Freq.									Lo VHF—Add 10.7 MHz; Hi VHF, UHF—subtract 10.7
Comb Freq.								—	9's complement in columns 2 thru 5
BCD Value	④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	⑧ ④ ② ①	○	○	○	"X" thru teeth to be removed. See Rules below
Tooth No.	20 19 18	17 16 15 14	13 12 11 10	9 8 7 6	5 4 3	2 1			

NOTE: VHF Covers 30–50 MHz (Lo) and 146–174 MHz (Hi); UHF Covers 440–512 MHz

BASIC PROGRAMMING RULES (0 = Tooth Present; X = Tooth Removed)

Tooth No.	Lo VHF	HI VHF Col. 6's Digit		UHF—Cols. 6, 7 & 8's Digits							
		0	5	000	125	250	375	500	625	750	875
1	○	○	○	○	○	○	○	○	○	○	○
2	○	○	○	X	X	X	X	X	X	X	X
3	○	X	○	X	○	X	○	X	○	X	○
4	○	X	X	X	X	○	○	X	X	○	○
5	○	○	○	X	X	X	X	○	○	○	○
6-20	Remove per BCD value for each comb frequency digit in Columns 2 thru 5.										

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[illegible]

FREQ.	COMB CODE
34.80	X 0 X 0 X 0 0 0 X 0 0 X 0 0 X 0 0 X 0 0 0 0 0 0
34.82	X 0 X 0 X 0 0 0 0 X 0 0 0 0 X 0 X 0 0 0 0 0 0
34.84	X 0 X 0 X 0 0 0 0 0 X 0 0 0 0 X 0 X 0 0 0 0 0 0
34.86	X 0 X 0 X 0 0 0 0 0 X 0 0 0 0 0 X 0 0 0 0 0 0
34.88	X 0 X 0 X 0 0 0 0 0 X 0 0 0 0 0 X 0 0 0 0 0 0
34.90	X 0 X 0 X 0 0 0 0 0 X 0 X 0 0 0 X 0 0 X 0 0 0 0
34.92	X 0 X 0 X 0 0 0 0 0 0 X 0 X 0 X 0 X 0 0 0 0 0 0
34.94	X 0 X 0 X 0 0 0 0 0 0 0 X 0 X 0 X 0 X 0 0 0 0 0
34.96	X 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 X 0 0 X 0 0 0 0
34.98	X 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 0 X 0 0 X 0 0 0 0
35.00	X 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 X 0 0 X 0 0 0 0 0
35.02	X 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 X 0 X 0 0 0 0 0
35.04	X 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 X 0 0 0 0 0 0 0
35.06	X 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 0 X 0 0 0 0 0 0
35.08	X 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 0 0 0 X 0 0 0 0 0
35.10	X 0 X 0 X 0 0 0 0 0 0 0 0 0 X 0 0 0 X 0 0 0 0 0 0
35.12	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 X 0 X 0 X 0 0 0 0 0
35.14	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 X 0 X 0 0 0 0 0 0
35.16	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 0 X 0 0 0 0 0 0 0
35.18	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0 X 0 0 0 0 0 0
35.20	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 0 X 0 0 X 0 0 0 0
35.22	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0 X 0 X 0 0 0 0
35.24	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0 X 0 0 0 0 0 0
35.26	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 X 0 0 0 0 0
35.28	X 0 X 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 X 0 0 0 0
35.30	X 0 X 0 0 0 X 0 X 0 0 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0
35.32	X 0 X 0 0 0 X 0 X 0 0 0 X 0 0 0 X 0 X 0 X 0 0 0 0 0
35.34	X 0 X 0 0 0 X 0 X 0 0 0 0 X 0 0 0 X 0 X 0 0 0 0 0
35.36	X 0 X 0 0 0 X 0 X 0 0 0 0 X 0 0 0 X 0 0 0 X 0 0 0 0
35.38	X 0 X 0 0 0 X 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0 0 0 0
35.40	X 0 X 0 0 0 X 0 X 0 0 0 0 0 X 0 0 0 X 0 0 0 0 0 0
35.42	X 0 X 0 0 0 X 0 X 0 0 0 0 0 0 X 0 X 0 0 0 0 0 0 0
35.44	X 0 X 0 0 0 X 0 X 0 0 0 0 0 0 0 X 0 X 0 0 0 0 0 0
35.46	X 0 X 0 0 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 0 0 0 0 0
35.48	X 0 X 0 0 0 X 0 X 0 0 0 0 0 0 0 0 0 X 0 0 0 0 0 0
35.50	X 0 X 0 0 0 X 0 X 0 0 X 0 X 0 X 0 0 X 0 0 0 0 0 0 0
35.52	X 0 X 0 0 0 X 0 X 0 0 X 0 X 0 X 0 X 0 0 0 0 0 0 0 0
35.54	X 0 X 0 0 0 X 0 X 0 0 X 0 X 0 X 0 X 0 0 0 0 0 0 0 0
35.56	X 0 X 0 0 0 X 0 X 0 0 X 0 X 0 0 X 0 0 0 0 0 0 0 0 0
35.58	X 0 X 0 0 0 X 0 X 0 0 X 0 X 0 0 0 X 0 0 0 0 0 0 0 0

FREQ.	COMB CODE
35.60	X O X O O X X O X X O X O X O O X O O O O O
35.62	X O X O O X X O X X O X X O X X O O O O O
35.64	X O X O O X X O X X O X X O X O X O O O O O
35.66	X O X O O X X O X X O X X O X O X O O O O O
35.68	X O X O O X X O X X O X O O O O X O O O O O
35.70	X O X O O X X O X O X O X O X O O O O O O
35.72	X O X O O X X O X O X O X O X X O O O O O
35.74	X O X O O X X O X O X O X O X O O O O O O
35.76	X O X O O X X O X O X O X O X O O O O O O
35.78	X O X O O X X O X O X O X O O O O O O O O
35.80	X O X O O X X O X O X O X O O X O O O O O
35.82	X O X O O X X O X O X O O O X X O O O O O
35.84	X O X O O X X O X O X O O O X O O O O O O
35.86	X O X O O X X O X O X O O O X X O O O O O
35.88	X O X O O X X O X O X O O O O O O O O O O
35.90	X O X O O X X O O O X X O X X O O X O O O O
35.92	X O X O O X X O O O X X O X X O X X O O O O
35.94	X O X O O X X O O O X X O X O X O O O O O O
35.96	X O X O O X X O O O X X O X O X O O O O O O
35.98	X O X O O X X O O O X X O O O X O O O O O O
36.00	X O X O O X X O O O X O X O X O O X O O O O
36.02	X O X O O X X O O O X O O X X X O O O O O
36.04	X O X O O X X O O O X O O X O X O O O O O
36.06	X O X O O X X O O O X O O X O O O X O O O O
36.08	X O X O O X X O O O X O O X O O O X O O O O
36.10	X O X O O X X O O O X X O O X O O X O O O O
36.12	X O X O O X X O O O X O O X O X X O O O O
36.14	X O X O O X X O O O X O O X O X O O O O O
36.16	X O X O O X X O O O X O O X O O X O O O O O
36.18	X O X O O X X O O O X O O O X O O X O O O O
36.20	X O X O O X X O O O O O X O O X O O X O O O
36.22	X O X O O X X O O O O O X X X O X O O O O O
36.24	X O X O O X X O O O O O O O X O X O O O O O
36.26	X O X O O X X O O O O O O O X X O O O O O O
36.28	X O X O O X X O O O O O O O O X O O O O O O
36.30	X O X O O X O X O O X O O X X O O X O O O O O
36.32	X O X O O X O X O O X O O X O X X O O O O O O
36.34	X O X O O X O X O O X O O X O X O X O O O O O
36.36	X O X O O X O X O O X O O X O O X O O O O O O
36.38	X O X O O X O X O O X O O X O O O X O O O O O

[illegible]

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FREQ-

40.40	X	O	O	X	O	O	O	X	O	O	O	O	X	O	O	X	O	O	X	O	O	O	O
40.42	X	O	O	X	O	O	O	X	O	O	O	O	X	O	O	X	X	O	X	X	O	O	O
40.44	X	O	O	X	O	O	O	X	O	O	O	O	X	O	O	X	O	X	X	O	O	O	O
40.46	X	O	O	X	O	O	O	X	O	O	O	O	X	O	O	X	X	O	X	X	O	O	O
40.48	X	O	O	X	O	O	O	X	O	O	O	O	X	O	O	X	O	O	X	O	O	O	O
40.50	X	O	O	X	O	O	O	X	X	O	X	X	O	X	O	X	O	O	X	O	O	O	O
40.52	X	O	O	X	O	O	O	X	X	O	X	X	O	X	X	O	X	X	O	O	O	O	
40.54	X	O	O	X	O	O	O	X	X	O	X	X	O	X	O	X	O	X	O	O	O	O	
40.56	X	O	O	X	O	O	O	X	X	O	X	X	O	O	X	X	O	X	O	O	O	O	
40.58	X	O	O	X	O	O	O	X	X	O	X	X	O	O	X	O	O	X	O	O	O	O	
40.60	X	O	O	X	O	O	O	X	X	O	X	X	O	X	O	X	O	X	O	O	O	O	
40.62	X	O	O	X	O	O	O	X	X	O	X	X	O	X	X	O	X	X	O	O	O	O	
40.64	X	O	O	X	O	O	O	X	X	O	X	X	O	X	X	O	X	X	O	O	O	O	
40.66	X	O	O	X	O	O	O	X	X	O	X	X	O	X	X	O	X	X	O	O	O	O	
40.68	X	O	O	X	O	O	O	X	X	O	X	X	O	X	X	O	X	X	O	O	O	O	
40.70	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	O	X	O	O	O	O	
40.72	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	O	X	O	O	O	O	
40.74	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
40.76	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	X	O	X	O	O	O	O	
40.78	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
40.80	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
40.82	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	X	O	X	X	O	O	
40.84	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	X	O	X	X	O	O	
40.86	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	X	O	X	X	O	O	
40.88	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	X	O	X	X	O	O	
40.90	X	O	O	X	O	O	O	X	X	X	O	X	O	X	O	X	O	X	O	O	O	O	
40.92	X	O	O	X	O	O	O	X	X	O	X	X	X	X	O	X	X	O	X	X	O	O	
40.94	X	O	O	X	O	O	O	X	X	O	X	X	O	X	O	X	O	X	O	O	O	O	
40.96	X	O	O	X	O	O	O	X	X	O	X	X	O	X	O	X	O	X	O	O	O	O	
40.98	X	O	O	X	O	O	O	X	X	O	X	X	O	X	O	X	O	X	O	O	O	O	
41.00	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
41.02	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	X	O	X	X	O	O	
41.04	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
41.06	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	X	O	X	X	O	O	
41.08	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
41.10	X	O	O	X	O	O	O	X	X	O	X	X	O	X	O	X	O	X	O	O	O	O	
41.12	X	O	O	X	O	O	O	X	O	X	X	O	X	X	O	X	X	O	X	O	O	O	
41.14	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
41.16	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	
41.18	X	O	O	X	O	O	O	X	O	X	X	O	X	O	X	O	X	O	X	O	O	O	

[illegible]

FREQ. COMB CODE _____

45.20	X	O	O	O	X	O	O	O	O	O	O	O	O	X	O	O	X	O	O	O	O
45.22	X	O	O	O	X	O	O	O	O	O	O	O	O	X	X	X	X	O	O	O	O
45.24	X	O	O	O	X	O	O	O	O	O	O	O	O	X	O	X	O	O	O	O	O
45.26	X	O	O	O	X	O	O	O	O	O	O	O	O	X	X	X	X	O	O	O	O
45.28	X	O	O	O	X	O	O	O	O	O	O	O	O	X	O	O	O	X	O	O	O
45.30	X	O	O	O	X	X	X	O	O	X	X	O	O	X	O	O	X	O	O	O	O
45.32	X	O	O	O	X	X	X	O	O	X	O	X	X	X	X	X	X	O	O	O	O
45.34	X	O	O	O	X	X	X	O	O	X	O	X	O	X	O	X	O	O	O	O	O
45.36	X	O	O	O	X	X	X	O	O	X	O	X	O	X	O	X	O	O	O	O	O
45.38	X	O	O	O	X	X	X	O	O	X	O	X	O	X	O	X	O	O	O	O	O
45.40	X	O	O	O	X	X	X	O	O	X	O	O	X	O	X	O	X	O	O	O	O
45.42	X	O	O	O	X	X	X	O	O	X	X	X	X	X	X	X	X	X	O	O	O
45.44	X	O	O	O	X	X	X	O	O	X	O	O	X	O	X	O	X	O	O	O	O
45.46	X	O	O	O	X	X	X	O	O	X	O	O	X	X	X	X	X	X	O	O	O
45.48	X	O	O	O	X	X	X	O	O	X	O	O	O	X	O	O	O	X	O	O	O
45.50	X	O	O	O	X	X	O	X	X	X	X	X	O	X	O	X	O	O	O	O	O
45.52	X	O	O	O	X	X	O	X	X	X	X	X	X	X	X	X	X	O	O	O	O
45.54	X	O	O	O	X	X	O	X	X	X	X	X	O	X	O	X	O	O	O	O	O
45.56	X	O	O	O	X	X	O	X	X	X	X	X	O	X	O	X	O	O	O	O	O
45.58	X	O	O	O	X	X	O	X	X	X	X	X	O	X	O	X	O	O	O	O	O
45.60	X	O	O	O	X	X	O	X	X	X	X	O	X	O	X	O	X	O	O	O	O
45.62	X	O	O	O	X	X	O	X	X	X	X	O	X	X	X	X	X	X	O	O	O
45.64	X	O	O	O	X	X	O	X	X	X	X	O	X	O	X	O	X	O	O	O	O
45.66	X	O	O	O	X	X	O	X	X	X	X	O	O	X	X	O	X	O	O	O	O
45.68	X	O	O	O	X	X	O	X	X	X	X	O	O	O	X	O	O	X	O	O	O
45.70	X	O	O	O	X	X	O	X	O	X	X	O	X	O	X	O	X	O	O	O	O
45.72	X	O	O	O	X	X	O	X	O	X	O	X	X	X	X	X	X	O	O	O	O
45.74	X	O	O	O	X	X	O	X	O	X	O	X	O	X	O	X	O	O	O	O	O
45.76	X	O	O	O	X	X	O	X	O	X	O	X	O	X	O	X	O	O	O	O	O
45.78	X	O	O	O	X	X	O	X	O	X	O	X	O	X	O	X	O	O	O	O	O
45.80	X	O	O	O	X	X	O	X	O	X	O	X	O	X	O	X	O	X	O	O	O
45.82	X	O	O	O	X	X	O	X	O	X	O	X	X	X	X	X	X	X	O	O	O
45.84	X	O	O	O	X	X	O	X	O	X	O	X	O	X	O	X	O	X	O	O	O
45.86	X	O	O	O	X	X	O	X	O	X	O	O	X	X	O	X	X	O	O	O	O
45.88	X	O	O	O	X	X	O	X	O	X	O	O	O	X	O	O	O	X	O	O	O
45.90	X	O	O	O	X	X	O	X	O	X	X	X	O	X	O	X	O	O	O	O	O
45.92	X	O	O	O	X	X	O	X	O	X	X	X	X	X	X	X	X	O	O	O	O
45.94	X	O	O	O	X	X	O	X	O	X	X	X	X	X	X	X	X	O	O	O	O
45.96	X	O	O	O	X	X	O	X	O	X	X	X	X	X	X	X	X	O	O	O	O
45.98	X	O	O	O	X	X	O	X	O	X	X	X	X	X	X	X	X	O	O	O	O

[illegible]

[illegible]

[illegible]

FREQ.	COMB CODE
49.90	0 X X X X 0 0 X 0 0 X X X X 0 0 X 0 0 0 0 0 0
49.92	0 X X X X 0 0 X 0 0 X X X 0 X X X 0 0 0 0 0 0
49.94	0 X X X X 0 0 X 0 0 X 0 0 X X X 0 X 0 0 0 0 0 0
49.96	0 X X X X 0 0 X 0 0 X 0 0 X 0 0 X X X 0 0 0 0 0 0
49.98	0 X X X X 0 0 X 0 0 X X X 0 0 0 X 0 0 0 0 0 0
50.00	0 X X X 0 0 X 0 0 X 0 0 X 0 0 X 0 0 0 0 0 0

[illegible]

COMB CODE

147.210	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.225	X	X	0	0	0	X	X	0	X	0	0	X	X	0	X	X	0	0
147.240	X	X	0	0	0	X	X	0	X	0	0	X	0	X	X	0	0	0
147.255	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.270	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.285	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.300	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.315	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.330	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.345	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.360	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.375	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.390	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.405	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.420	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.435	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.450	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.465	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.480	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.495	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.510	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.525	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.540	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.555	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.570	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.585	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.600	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.615	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.630	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.645	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.660	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.675	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.690	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.705	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.720	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.735	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.750	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.765	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0
147.780	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	X	0	0
147.795	X	X	0	0	0	X	X	0	X	0	0	X	0	0	X	0	0	0

COMB CODE

[illegible]

NOTE
148—
150.8

Frequencies within this range are not widely used and therefore are not included in the Directory. However, the ACT-W10 does operate properly for this frequency group. Use the worksheets provided to program a Comb if a desired frequency is in this range.

FREQ.	COMB CODE	FREQ.	COMB CODE
150.815	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.415	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.830	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.430	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.845	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.445	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.860	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.460	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.875	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.475	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.890	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.490	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.905	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.505	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.920	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.520	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.935	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.535	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.950	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.550	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.965	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.565	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.980	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.580	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
150.995	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.595	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.010	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.610	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.025	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.625	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.040	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.640	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.055	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.655	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.070	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.670	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.085	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.685	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.100	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.700	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.115	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.715	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.130	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.730	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.145	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.745	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.160	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.760	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.175	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.775	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.190	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.790	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.205	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.805	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.220	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.820	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.235	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.835	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.250	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.850	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.265	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.865	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.280	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.880	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.295	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.895	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.310	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.910	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.325	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.925	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.340	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.940	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.355	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.955	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.370	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.970	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.385	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	151.985	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0
151.400	X 0 X X 0 0 X X 0 0 X 0 0 0 0 X 0 0 0	152.000	X 0 X X 0 0 X 0 0 0 0 X 0 0 0 0 X 0 0 0

[illegible]

KCK FIRE

FREQ.

COMB CODE

KCKFD (F2)

3813

S-M FIRE DIST

SHAWNEE

FREQ.	COMB CODE
156.325	X 0 X 0 X 0 0 0 0 0 X X X 0 X X 0 X 0 0 0
156.350	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.375	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.400	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.425	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.450	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.475	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.500	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.525	X 0 X 0 X 0 0 0 0 0 X X 0 X X 0 X X 0 0 0 0
156.550	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0
156.575	X 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0 0 X X 0 0 0
156.600	X 0 X 0 X 0 0 0 0 0 X X 0 0 0 0 X X 0 X X 0 0
156.625	X 0 X 0 X 0 0 0 0 0 X X 0 0 0 0 X X 0 X 0 0 0
156.650	X 0 X 0 X 0 0 0 0 0 X X 0 0 0 0 X X 0 X 0 0 0
156.675	X 0 X 0 X 0 0 0 0 0 X X 0 0 0 0 X X 0 X 0 0 0
156.700	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 X 0 0 X 0 0 0
156.725	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X X 0 X 0 0 0 0
156.750	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
156.775	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X 0 0 0 0
156.800	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 X 0 X 0 0 0
156.825	X 0 X 0 0 0 0 X X X 0 0 0 X X X X 0 X X 0 X 0 0 0
156.850	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0
156.875	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0
156.900	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0
156.925	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X X 0 X X 0 X 0 0
156.950	X 0 X 0 0 0 0 X X X 0 0 0 X X X X 0 X 0 0 X X 0 0
156.975	X 0 X 0 0 0 0 X X X 0 0 0 X X X X 0 X 0 0 X X 0 0
157.000	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.025	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.050	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.075	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0
157.100	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0
157.125	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.150	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.175	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.200	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.225	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 X 0 0 X X 0 0 0
157.250	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0
157.275	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0
157.300	X 0 X 0 0 0 0 X X X 0 0 0 X X 0 0 0 0 X X 0 0 0

FREQ.	COMB CODE
159.180	X 0 X 0 0 0 X 0 X 0 X 0 0 0 X 0 X 0 0
159.195	X 0 X 0 0 0 X 0 X 0 X 0 0 0 0 0 X 0 0 0
159.210	X 0 X 0 0 0 X 0 X 0 0 0 X 0 0 0 0 X 0 0
159.225	X 0 X 0 0 0 X 0 X 0 0 0 0 0 X X 0 X 0 0 0
159.240	X 0 X 0 0 0 X 0 X 0 0 0 0 0 X 0 X 0 X 0 0
159.255	X 0 X 0 0 0 X 0 X 0 0 0 0 0 X 0 0 0 0 0 0
159.270	X 0 X 0 0 0 X 0 X 0 0 0 0 0 X 0 0 0 X 0 0
159.285	X 0 X 0 0 0 X 0 X 0 0 0 0 0 0 0 0 X 0 0 0
159.300	X 0 X 0 0 0 X 0 X 0 0 0 X X 0 0 0 X 0 0 0
159.315	X 0 X 0 0 0 X 0 0 0 X X 0 0 0 0 X 0 0 0
159.330	X 0 X 0 0 0 X 0 0 0 X X 0 X X 0 0 X X 0 0
159.345	X 0 X 0 0 0 X 0 0 0 X X 0 X 0 X 0 X 0 0 0
159.360	X 0 X 0 0 0 X 0 0 0 X X 0 0 X 0 X 0 X 0 0
159.375	X 0 X 0 0 0 X 0 0 0 X X 0 0 X 0 0 X 0 0 0
159.390	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0 0 0 X 0 0
159.405	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 0 0 0
159.420	X 0 X 0 0 0 X 0 0 0 X 0 0 X X 0 X X 0 X 0
159.435	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 0 X 0
159.450	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 0 X 0
159.465	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 0 X 0 0 0
159.480	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0 0 0 X X 0
159.495	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0 0 0 X 0 0
159.510	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0 0 0 X 0 0
159.525	X 0 X 0 0 0 X 0 0 0 X 0 0 0 X X 0 X 0 0 0
159.540	X 0 X 0 0 0 X 0 0 0 X 0 0 0 X 0 X 0 X 0 0
159.555	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 0 0 X 0 0
159.570	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 0 X 0
159.585	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 0 0 0
159.600	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 X 0 0
159.615	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0 0 0 X 0 0
159.630	X 0 X 0 0 0 X 0 0 0 X 0 0 0 X 0 0 X X 0 0
159.645	X 0 X 0 0 0 X 0 0 0 X 0 0 0 X 0 X 0 X 0 0
159.660	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 X X 0 X 0 0
159.675	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0 0 X 0 0 0
159.690	X 0 X 0 0 0 X 0 0 0 X 0 0 0 0 0 0 0 X 0 0
159.705	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 X 0 0
159.720	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X 0 X 0 0
159.735	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 X 0 X 0 X 0
159.750	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 0 X X 0 0
159.765	X 0 X 0 0 0 X 0 0 0 X 0 0 X 0 0 X X 0 X 0 0

[illegible]

Santa Fe

SANTA FE

[illegible]

[illegible]

FREQ.	COMB CODE
163.625	X 0 0 0 X X X 0 0 0 0 0 0 0 0 X 0 X 0 X 0 0 0
163.650	X 0 0 0 X X X 0 0 0 0 0 0 0 0 X 0 0 0 X X 0 0
163.675	X 0 0 0 X X X 0 0 0 0 0 0 0 0 X 0 0 0 X 0 0 0
163.700	X 0 0 0 X X X 0 0 0 0 0 X 0 0 0 X 0 0 X X 0 0
163.725	X 0 0 0 X X X 0 0 0 0 0 X 0 X 0 X 0 X 0 X 0 0
163.750	X 0 0 0 X X X 0 0 0 0 0 X 0 X 0 0 0 X 0 X 0 0
163.775	X 0 0 0 X X X 0 0 0 0 0 X 0 X 0 0 0 X 0 X 0 0
163.800	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 0 X 0 X 0 0
163.825	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 X 0 X 0 X 0 0
163.850	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 0 X 0 X 0 0
163.875	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 0 X 0 X 0 0
163.900	X 0 0 0 X X X 0 0 X X X 0 0 X 0 0 X 0 X 0 X 0 0
163.925	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 X 0 X 0 X 0 0
163.950	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 0 0 X 0 X 0 0
163.975	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 0 X 0 X 0 0
164.000	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 X 0 X 0 X 0 0
164.025	X 0 0 0 X X X 0 0 X X X 0 0 X 0 X 0 X 0 X 0 0
164.050	X 0 0 0 X X X 0 0 X X X 0 0 X 0 0 X 0 0 X 0 0
164.075	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 0 X 0 X 0 0
164.100	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 X 0 X 0 X 0 0
164.125	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 X 0 X 0 X 0 0
164.150	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 0 0 X 0 X 0 0
164.175	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 0 X 0 X 0 0
164.200	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 0 X 0 X 0 0
164.225	X 0 0 0 X X X 0 0 X X X 0 X 0 X 0 X 0 X 0 X 0 0
164.250	X 0 0 0 X X X 0 0 X 0 0 0 0 0 X 0 0 0 X 0 X 0 0
164.275	X 0 0 0 X X X 0 0 X 0 0 0 0 0 X 0 0 0 X 0 X 0 0
164.300	X 0 0 0 X X X 0 0 X 0 0 0 X 0 X 0 0 X 0 X 0 X 0 0
164.325	X 0 0 0 X X X 0 0 0 0 0 X 0 X 0 X 0 X 0 X 0 0
164.350	X 0 0 0 X X X 0 0 0 0 0 X 0 X 0 X 0 0 X 0 X 0 0
164.375	X 0 0 0 X X X 0 0 0 0 0 X 0 X 0 X 0 0 X 0 X 0 0
164.400	X 0 0 0 X X X 0 0 0 0 0 X 0 X 0 X 0 0 X 0 X 0 0
164.425	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 X 0 X 0 X 0 0
164.450	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 0 0 X 0 X 0 0
164.475	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 0 X 0 0 X 0 0
164.500	X 0 0 0 X X X 0 0 0 0 0 X 0 0 0 X 0 0 X 0 X 0 0
164.525	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 X 0 X 0 X 0 0
164.550	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 0 0 X 0 X 0 0
164.575	X 0 0 0 X X X 0 0 0 0 0 X 0 0 X 0 0 X 0 0 X 0 0
164.600	X 0 0 0 X X X 0 0 0 0 0 X 0 0 0 X 0 0 X 0 X 0 0

[illegible]

FREQ.	COMB CODE
165.625	X 0 0 0 X 0 X 0 0 0 0 0 0 0 X X X 0 0 0 0
165.650	X 0 0 0 X 0 X 0 0 0 0 0 0 0 X 0 0 0 X X 0 0
165.675	X 0 0 0 X 0 X 0 0 0 0 0 0 0 X 0 0 0 X 0 0 0
165.700	X 0 0 0 X 0 0 X 0 0 0 0 0 0 X X 0 0 X 0 X 0 0
165.725	X 0 0 0 X 0 0 X 0 0 0 0 0 X X 0 X X 0 X 0 0 0
165.750	X 0 0 0 X 0 0 X 0 0 0 0 0 X 0 X 0 0 0 X X 0 0
165.775	X 0 0 0 X 0 0 X 0 0 0 0 0 X 0 0 0 X 0 0 0 0
165.800	X 0 0 0 X 0 0 X 0 0 0 0 0 X 0 0 X 0 X 0 0 0
165.825	X 0 0 0 X 0 0 X 0 0 0 0 0 X X 0 X 0 X 0 0 0
165.850	X 0 0 0 X 0 0 X 0 0 0 0 0 X 0 0 0 X 0 X 0 0
165.875	X 0 0 0 X 0 0 X 0 0 0 0 0 X 0 0 0 X 0 X 0 0
165.900	X 0 0 0 X 0 0 X X X X X X X X X X X 0 0 0
165.925	X 0 0 0 X 0 0 X X X X X X X X X X X 0 0 0
165.950	X 0 0 0 X 0 0 0 0 0 X X X X X X 0 0 0 X X 0 0
165.975	X 0 0 0 X 0 0 0 0 0 X X X 0 0 0 X 0 0 X 0 0 0
166.000	X 0 0 0 X 0 0 0 0 0 X X 0 X 0 0 X 0 X 0 0 0
166.025	X 0 0 0 X 0 0 0 0 0 X X 0 0 X 0 X 0 X 0 0 0
166.050	X 0 0 0 X 0 0 0 0 0 X X 0 0 X 0 0 0 X X 0 0
166.075	X 0 0 0 X 0 0 0 0 0 X X 0 0 0 0 X 0 0 X 0 0 0
166.100	X 0 0 0 X 0 0 0 0 0 X X 0 X 0 0 0 X 0 X 0 0
166.125	X 0 0 0 X 0 0 0 0 0 X 0 X 0 X 0 X 0 X 0 0 0
166.150	X 0 0 0 X 0 0 0 0 0 X 0 0 X 0 X 0 0 0 X X 0 0
166.175	X 0 0 0 X 0 0 0 0 0 X 0 0 X 0 0 X 0 0 X 0 0 0
166.200	X 0 0 0 X 0 0 0 0 0 X 0 0 X 0 0 X 0 X 0 0 0
166.225	X 0 0 0 X 0 0 0 0 0 X 0 0 0 0 X X X 0 X 0 0 0
166.250	X 0 0 0 X 0 0 0 0 0 X 0 0 0 0 X 0 0 0 X X 0 0
166.275	X 0 0 0 X 0 0 0 0 0 X 0 0 0 0 X 0 0 X 0 0 0
166.300	X 0 0 0 X 0 0 0 0 0 X X X 0 0 X 0 X X 0 0 0
166.325	X 0 0 0 X 0 0 0 0 0 X X 0 X X 0 X 0 X 0 0 0
166.350	X 0 0 0 X 0 0 0 0 0 X X 0 X 0 0 0 X X 0 0
166.375	X 0 0 0 X 0 0 0 0 0 X X 0 0 X 0 0 X 0 0 0
166.400	X 0 0 0 X 0 0 0 0 0 X 0 X 0 0 X 0 X X 0 0 0
166.425	X 0 0 0 X 0 0 0 0 0 X 0 0 X 0 X 0 X 0 0 0
166.450	X 0 0 0 X 0 0 0 0 0 X 0 0 X 0 0 0 X X 0 0
166.475	X 0 0 0 X 0 0 0 0 0 X 0 0 0 X 0 0 X X 0 0
166.500	X 0 0 0 X 0 0 0 0 0 X X 0 0 X 0 0 X X 0 0
166.525	X 0 0 0 X 0 0 0 0 0 X 0 X X X 0 X X 0 0 0
166.550	X 0 0 0 X 0 0 0 0 0 X 0 X 0 0 0 X X 0 0 0
166.575	X 0 0 0 X 0 0 0 0 0 X 0 0 X 0 0 X 0 0 X 0 0
166.600	X 0 0 0 X 0 0 0 0 0 X 0 0 0 0 X 0 X 0 X X 0 0

КСМО-КАИ919

[illegible]

FREQ.	COMB CODE
173.625	0 X 0 X X X 0 0 0 0 X X 0 X 0 0 0
173.650	0 X X 0 X X X 0 0 0 0 X 0 0 X 0 0
173.675	0 X X 0 X X X 0 0 0 0 X 0 0 X 0 0
173.700	0 X X 0 X X X 0 0 X 0 0 X 0 X 0 0
173.725	0 X X 0 X X X 0 0 X 0 X X 0 X 0 0
173.750	0 X X 0 X X X 0 0 X 0 0 0 0 X 0 0
173.775	0 X X 0 X X X 0 0 X 0 0 X 0 X 0 0
173.800	0 X X 0 X X X 0 0 X 0 0 X 0 X 0 0
173.825	0 X X 0 X X X 0 0 X 0 0 X 0 X 0 0
173.850	0 X X 0 X X X 0 0 X 0 0 X 0 X 0 0
173.875	0 X X 0 X X X 0 0 X 0 0 X 0 X 0 0
173.900	0 X X 0 X X X 0 0 X X 0 0 X 0 X 0 0
173.925	0 X X 0 X X X 0 0 X X 0 0 X 0 X 0 0
173.950	0 X X 0 X X X 0 0 X X 0 0 X 0 X 0 0
173.975	0 X X 0 X X X 0 0 X X 0 0 X 0 X 0 0
174.000	0 X X 0 X X X 0 0 X X 0 0 X 0 X 0 0

[illegible]