

DATA FORMAT

MODEL: 36248/36258/ MPH 7895

June 08, 2000

1. TOTAL DATA BITS LENGTH: 64BITS

2. DATA FORMAT.

START		kkkk iiii	iiii	iilp	kkkk	dddd	dddd	zzup	kkkk
iii iiii iilp kkkk cccc iiii : system (security) ID (20bits)	cece xxup	KKKK IIII	1111	<u> </u>					
et : parity									
kkkk: check sum									
U : unit (base =1, handset =0)									
cccc : channel number									
dddd: command data					•				
xx : sequence of data									
zz : sub data									
3. System (Security) II			18576))	K	Send and	3 E		L
4. ID CODE NUMBER	R: 1048	576							
Link sequence.									
Talk									
handset	Talk	request -	— A	→ ck	Base	•			
	Ack		1.7	->					

Ring		I
handset	Ring commnad	Base
	Ack	
	Ring off	
	Ack →	

SPECIFICATION

MODEL: 36248/36258/17PH 7895

June 08, 2000

1.TX POWER LEVEL.



*LESS THAN 50mV/meter AT 3.0 METER.

LEVEL. **SPURIOUS** 2. TX

*30~88 Mb

: LESS THAN 100 μ V/m.

*88~216 Mb

: LESS THAN 150 \(\mu \rightarrow m.\)

*216 ~ 960 Mb : LESS THAN 200 μ V/m.

*ABOVE 960 Mb : LESS THAN 500 μ V/m.

3. DATA DEVIATION.

*FSK 1600 BPS.

*DEVIATION: ± 10 版 (TOLERANCE ± 1.0 版)

4. CHANNEL.

*40 CHANNEL

SPACE. 5. CHANNEL

*150 klb.

6. FREQUENCY TABLE.

*REFER TO THE ATTACHED #1.

AUTOMATIC CHANNEL SELECTION MECHANISM MODEL 36240/36247/36248/36258/ MPH/7875

During the activation of Talk, the Handset receiver scans for free channels from its Default channel (about 80ms for channel) and stores the status to its memory. Once a free channel is found, the Handset transmits the Talk instruction to Base.

Likewise, the Base receiver continuously scans for free channels from its Default channel (about 120ms per channel) and stores the status to its memory. Once the Base receiver received the instruction from the Handset, it will stop from scanning and transmits the acknowledgement data.

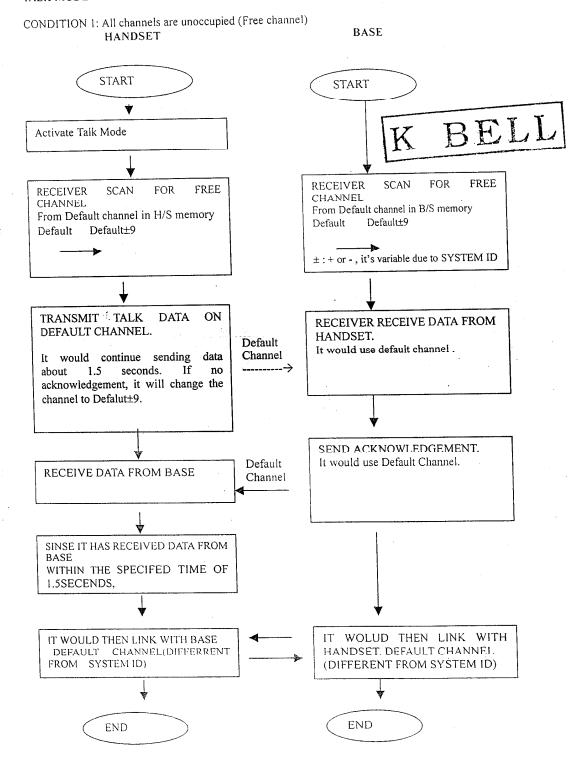
Each unit has a different Default Channel . it is generated from the unit's ID.

If all of transmit channels of Handset and Base are occupied (all busy), Handset and Base will link on the Default channel.

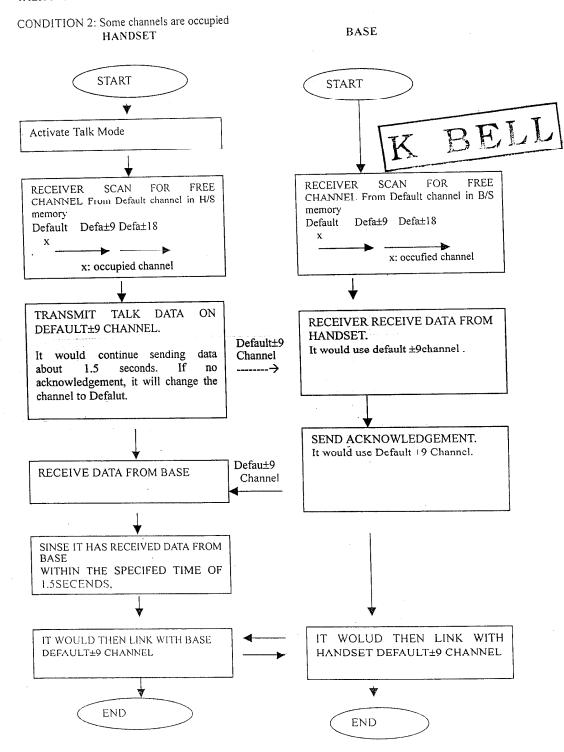
т	BASE		HAN	DSET	В	ASE		HANI	OSET
CH	TX	RX	TX	RX	CH	TX	RX	TX	RX
Cn	2400.45	2472.45	2472.45	2400.45	20	2403.45	2475.45	2475.45	2403.45
1	2400.43	2472.43	2472.60	2400.60	21	2403.60	2475.60	2475.60	2403.60
2	2400.00	2472.75	2472.75	2400.75	22	2403.75	2475.75	2475.75	2403.75
3	2400.73	2472.73	2472.90	2400.90	23	2403.90	2475.90	2475.90	2403.90
4	2400.90	2472.90	2473.05	2401.05	24	2404.05	2476.05	2476.05	2404.05
5	2401.03	2473.03	2473.20	2401.20	25	2404.20	2476.20	2476.20	2404.20
6	2401.20	2473.25	2473.35	2401.35	26	2404.35	2476.35	2476.35	2404.35
7_		2473.50	2473.50	2401.50	27	2404.50	2476.50	2476.50	2404.50
8	2401.50	2473.50	2473.50	2401.65	28	2404.65	2476.65	2476.65	2404.65
9	2401.65	2473.80	2473.83	2401.80	29	2404.80	2476.80	2476.80	2404.80
10	2401.80		2473.95	2401.95	30	2404.95	2476.95	2476.95	2404.95
11	2401.95	2473.95	2473.93	2401.93	31	2405.10	2477.10	2477.10	2405.10
12	2402.10	2474.10		2402.10	32	2405.25	2477.25	2477.25	2405.25
13	2402.25	2474.25	2474.25			2405.25	2477.40	2477.40	2405.40
14	2402.40	2474.40	2474.40	2402.40	33		2477.55	2477.55	2405.55
15	2402.55	2474.55	2474.55	2402.55	34	2405.55			
16	2402.70	2474.70	2474.70	2402.70	35	2405.70	2477.70	2477.70	2405.70
17	2402.85	2474.85	2474.85	2402.85	36	2405.85	2477.85	2477.85	2405.85
18	2403.00	2475.00	2475.00	2403.00	37	2406.00	2478.00	2478.00	2406.00
19	2403.15	2475.15	2475.15	2403.15	38	2406.15	2478.15	2478.15	2406.15
*	2403.30	2475.30	2475.30	.2403.30	39	2406.30	2478.30	2478.30	2406.30
			-		40	2406.45	2478.45	2478.45	2406.45

^{*} channel is used for TEST MODE only.

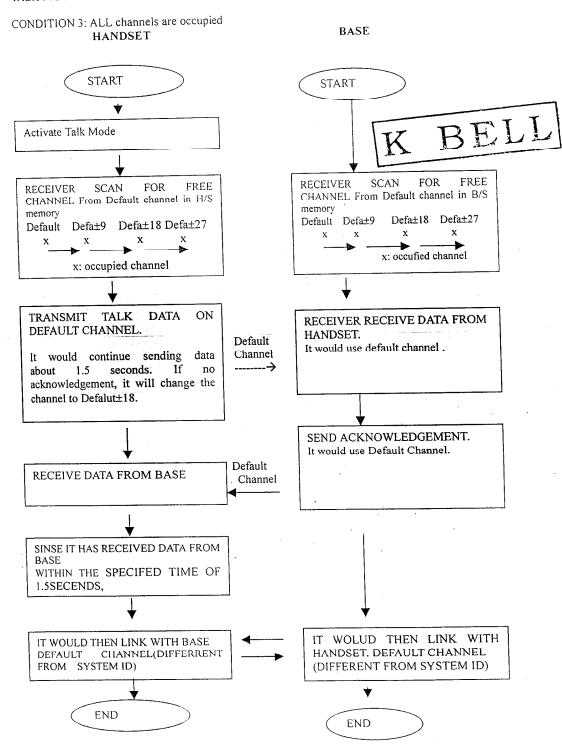
TALK MODE



TALK MODE



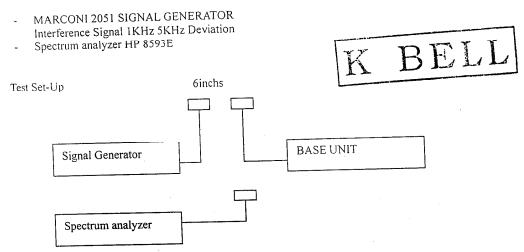
TALK MODE



AUTOMATIC CHANNEL SELECTION

The following tests were performed to show the incorporation of automatic channel selection.

Equipment used to perform Tests



Test procedures

- 1. Set signal generator at a certain channel then turn the generator off.
- 2. Turn on the phone and charge.
- 3. Lift the handset and try to talk, and Read the frequency of BASE UNIT from the SPECTRUM ANALYZER. And off link.
- 4. Set SIGNAL GENERATOR to reading frequency of STEP3 and turn on.
- 5. Try to talk, and read the frequency.
- 6. Press the SCAN key to change the DEFAULT CHANNEL.
- 7. Repeat the STEP 3 -6 for 40 CHANNELS.

Test Result

SYSTEM ID LSB 5bits $0 \sim 1$: Interference channel at	Phone preset channel at	Phone auto scan to channel at - 13dBm
1		10
	2	11
2	3	12
3	3 4	13
4	5	14
5		15
6	6 7	15
7	8	17
8	9	18
9		
10	10	T 1 20
11	11 1	21
12	12	22
13	13	23
14	14	23
15	15	25
16	16	
17		26
18	18	27
19	19	28
-4-yagan 20	20	29
21	21	30
22	. 22	31
23	23	32
24	24	33
25	25	- 34
26	26	35
27	27	36
28	28 .	37
29	29	38
30	30	. 39
. 31	31	40
32	32	1
33	33	2
34	34	3
35	35	4
36	36	5
37	37	: 6
38	38	7
39	39	8
40	40	9

	2. SYSTEM ID LSB 5bits 16 ~ . Interference channel at	Phone preset channel at	Phone auto scan to channel at - 13dBm		
F			32		
-	2	2	33		
-	3	3	34		
-	4	4	35		
		5	36		
	5	6	37		
	6 7	7	38		
	8	8	39		
		9	40		
	9	10	1		
	10	11	2		
	11	12	3		
	12	13			
	13	14	- T T		
	14		FFL		
	15	15			
	16	16	8		
	17	17			
	18	10	10		
	19	19	11 % 37 5 5 5		
	20	20	12		
* *	21	21			
	22	22	13		
	23	23	14		
	24	. 24	15		
	25	25	16		
	26	26	17		
	27	27	18		
	28	28	19		
	29	29	20		
	30	30	21		
	31	31	22		
	32	32	23		
	33	33	24		
	34	34	25		
	35	35	26		
	36	36	27		
	37	37	28		
	38	38	29		
	39	39	30		
	40	40	31		

A. BASE UNIT.

1. TEST MODE SETTING

WHILE THE PAGE/PH AND PLAY/STOP KEY IS PRESSED TOGETHER, PUT THE ADAPTOR PLUG TO UNIT. AFTER THE KEYS ARE PRESSED ABOUT 2.0 sec, PLEASE RELEASE THE PAGE/PH AND PLAY/STOP KEY. THEN YOU CAN HEAR THE LONG BEEP.

• DEFAULT CHANNEL IS 20CH.

2. CHANNEL SETTING

- 2-1 CHANNEL-UP (CH21 ~ CH40)
 TO INCREASE THE CHANNEL FROM 20CH, HIT THE TAD ON/OFF KEY (>>), THEN THE CHANNEL MOVE UP ONE CHANNEL PER ONE HIT.
- 2-2 CHANNEL DOWN (CH19 ~ CH1)

 TO DECREASE THE CHANNEL FROM 20CH, HIT THE OGM KEY (4), THEN THE CHANNEL MOVE DOWN ONE CHANNEL PER ONE HIT.

B. HANDSET.



1. TEST MODE SETTING

WHILE THE KEY O & KEY 5 IS PRESSED TOGETHER. PUT THE BATTERY PLUG TO BATTERY JACK OF HANDSET WHICH IS LOCATATED ON BACK SIDE, AND THEN HIT THE BUTTON 9,8,7,6 SEQUENCELY.

- * AFTER TEST MODE IS SETTED, YOU CAN HEAR THE LONG BEEP.
- AFTER TEST MODE IS SETTED, YOU CAN SEE THE "20 RTX" ON LCD WITHIN 2.0 sec.
- THE DEFAULT CHANNEL IS 20CH.

2. CHANNEL SETTING

• HIT THE TWO DIGITS DIAL BUTTON AS BELOW.

Ex) CHANNEL 02 - HIT THE DIAL BUTTON 0, AND THEN HIT THE DIAL BUTTON 2.

CHANNEL 39 - HIT THE DIAL BUTTON 3, AND THEN HIT THE DIAL BUTTON 9.

Note: THE VOLUME SETTING IS AT THE MIDDLE POSITION BASED ON TEST MODE CONDITION.