

SPECIFICATION

JULY 17, 2000

1. TX POWER LEVEL.

*LESS THAN 50mV/meter AT 3.0 METER.

2. Frequency Hz

2.4-2478 GHz

3. DATA DEVIATION.

*FSK 1600 BPS.

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

4. CHANNEL.

*40 CHANNEL

5. CHANNEL SPACE.

*150 kHz.

6. FREQUENCY TABLE.

*REFER TO THE ATTACHED #1.

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A. Number of operating channel on RS43-3518 (ANALOG CORDLESS)

The operating channel between the base and handset is 40 channels.

The reference channel is defined by ID number which is generated automatically by CPU.

That means the first channel to communicate between base and handset is the reference channel.

B. Channel frequency (MHz)

Channel #	Base unit		Handset	
	Transmitter	Receiver	Transmitter	Receiver
1	2400.45	2472.45	2472.45	2400.45
2	2400.60	2472.60	2472.60	2400.60
3	2400.75	2472.75	2472.75	2400.75
4	2400.90	2472.90	2472.90	2400.90
5	2401.05	2473.05	2473.05	2401.05
6	2401.20	2473.20	2473.20	2401.20
7	2401.35	2473.35	2473.35	2401.35
8	2401.50	2473.50	2473.50	2401.50
9	2401.65	2473.65	2473.65	2401.65
10	2401.80	2473.80	2473.80	2401.80
11	2401.95	2473.95	2473.95	2401.95
12	2402.10	2474.10	2474.10	2402.10
13	2402.25	2474.25	2474.25	2402.25
14	2402.40	2474.40	2474.40	2402.40
15	2402.55	2474.55	2474.55	2402.55
16	2402.70	2474.70	2474.70	2402.70
17	2402.85	2474.85	2474.85	2402.85
18	2403.00	2475.00	2475.00	2403.00
19	2403.15	2475.15	2475.15	2403.15
20 (*note)	2403.30	2475.30	2475.30	2403.30
21	2403.45	2475.45	2475.45	2403.45
22	2403.60	2475.60	2475.60	2403.60
23	2403.75	2475.75	2475.75	2403.75
24	2403.90	2475.90	2475.90	2403.90
25	2404.05	2476.05	2476.05	2404.05
26	2404.20	2476.20	2476.20	2404.20
27	2404.35	2476.35	2476.35	2404.35
28	2404.50	2476.50	2476.50	2404.50
29	2404.65	2476.65	2476.65	2404.65
30	2404.80	2476.80	2476.80	2404.80
31	2404.95	2476.95	2476.95	2404.95
32	2405.10	2477.10	2477.10	2405.10
33	2405.25	2477.25	2477.25	2405.25
34	2405.40	2477.40	2477.40	2405.40
35	2405.55	2477.55	2477.55	2405.55
36	2405.70	2477.70	2477.70	2405.70
37	2405.85	2477.85	2477.85	2405.85
38	2406.00	2478.00	2478.00	2406.00
39	2406.15	2478.15	2478.15	2406.15
40	2406.30	2478.30	2478.30	2406.30
41	2406.45	2478.45	2478.45	2406.45

*note: this channel is used only in test mode for factory manufacture.

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C. Reference channel

The Reference channel is made by CPU as below

$$\text{Reference channel} = f(i) + 4 + 2f(i)/16$$

Where $f(i)$ is least significant 5 bits of ID code (0 ~ 31)

TABLE . Refence channel table

f(i)	Ref channel	f(i)	Ref channel	f(i)	Ref channel	f(i)	Ref channel
0	4	8	12	16	22	24	30
1	5	9	13	17	23	25	31
2	6	10	14	18	24	26	32
3	7	11	15	19	25	27	33
4	8	12	16	20	26	28	34
5	9	13	17	21	27	29	35
6	10	14	18	22	28	30	36
7	11	15	19	23	29	31	37

D. Channel scan by SCAN key manually.

1. After ID number is set between base and handset, as the result the first channel (Reference channel) is defined, and the RF link between base and handset is done.
2. The communication channel between base and handset is scanned (hopped) by hitting the SCAN key as below.

- In case of Reference channel is between channel 1 to channel 20

Ref channel $\rightarrow$ Ref channel +9 $\rightarrow$ Ref channel +18 $\rightarrow$

For example: Ref channel = 4

4 $\rightarrow$ 13 $\rightarrow$ 23 $\rightarrow$ 32 $\rightarrow$ 41 $\rightarrow$ 9 $\rightarrow$ 18 $\rightarrow$ 28 $\rightarrow$ 37 $\rightarrow$ 5 $\rightarrow$ 14 $\rightarrow$ 24 $\rightarrow$ 33 $\rightarrow$ 1 $\rightarrow$ 10
 $\rightarrow$ 19 $\rightarrow$ 29 $\rightarrow$ 38 $\rightarrow$ 6 $\rightarrow$ 15 $\rightarrow$ 25 $\rightarrow$ 34 $\rightarrow$ 2 $\rightarrow$ 11 $\rightarrow$ 21 $\rightarrow$ 30 $\rightarrow$ 39 $\rightarrow$ 7 $\rightarrow$ 16
 $\rightarrow$ 26 $\rightarrow$ 35 $\rightarrow$ 3 $\rightarrow$ 12 $\rightarrow$ 22 $\rightarrow$ 31 $\rightarrow$ 40 $\rightarrow$ 8 $\rightarrow$ 17 $\rightarrow$ 27 $\rightarrow$ 36 $\rightarrow$ 4

- In case of Reference channel is between channel 21 to channel 41

Ref channel $\rightarrow$ Ref channel - 9 $\rightarrow$ Ref channel - 18 $\rightarrow$

For example: Ref channel = 30

30 $\rightarrow$ 21 $\rightarrow$ 11 $\rightarrow$ 2 $\rightarrow$ 34 $\rightarrow$ 25 $\rightarrow$ 15 $\rightarrow$ 6 $\rightarrow$ 38 $\rightarrow$ 29 $\rightarrow$ 19 $\rightarrow$ 10 $\rightarrow$ 1 $\rightarrow$ 33
 $\rightarrow$ 24 $\rightarrow$ 14 $\rightarrow$ 5 $\rightarrow$ 37 $\rightarrow$ 26 $\rightarrow$ 18 $\rightarrow$ 9 $\rightarrow$ 41 $\rightarrow$ 32 $\rightarrow$ 23 $\rightarrow$ 13 $\rightarrow$ 4 $\rightarrow$ 36 $\rightarrow$ 27
 $\rightarrow$ 17 $\rightarrow$ 8 $\rightarrow$ 40 $\rightarrow$ 31 $\rightarrow$ 22 $\rightarrow$ 12 $\rightarrow$ 3 $\rightarrow$ 35 $\rightarrow$ 26 $\rightarrow$ 16 $\rightarrow$ 7 $\rightarrow$ 39 $\rightarrow$ 30

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SECURITY CODE

June 08, 2000

1. TOTAL DATA BITS LENGTH : 64BITS

2. DATA FORMAT.

START →

iiii	iiii	iilp	kkkk	cccc	cccc	xxup	kkkk	iiii	iiii	iilp	kkkk	dddd	dddd	zzup	kkkk
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

iiii : system (security) ID (20bits)

P : 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) ID = 20 bits (0~1048576)

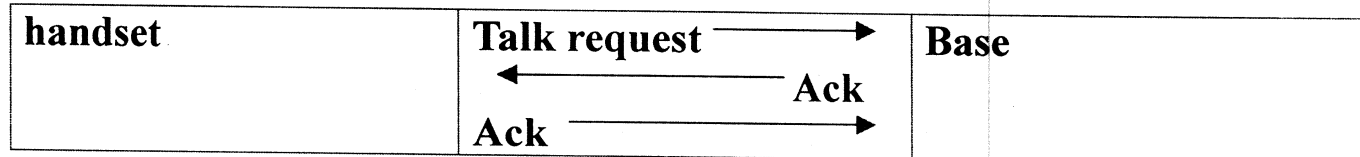
4. Security Code - Max : 1048576

- Type : Random

5. Link sequence.

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Talk



Ring

