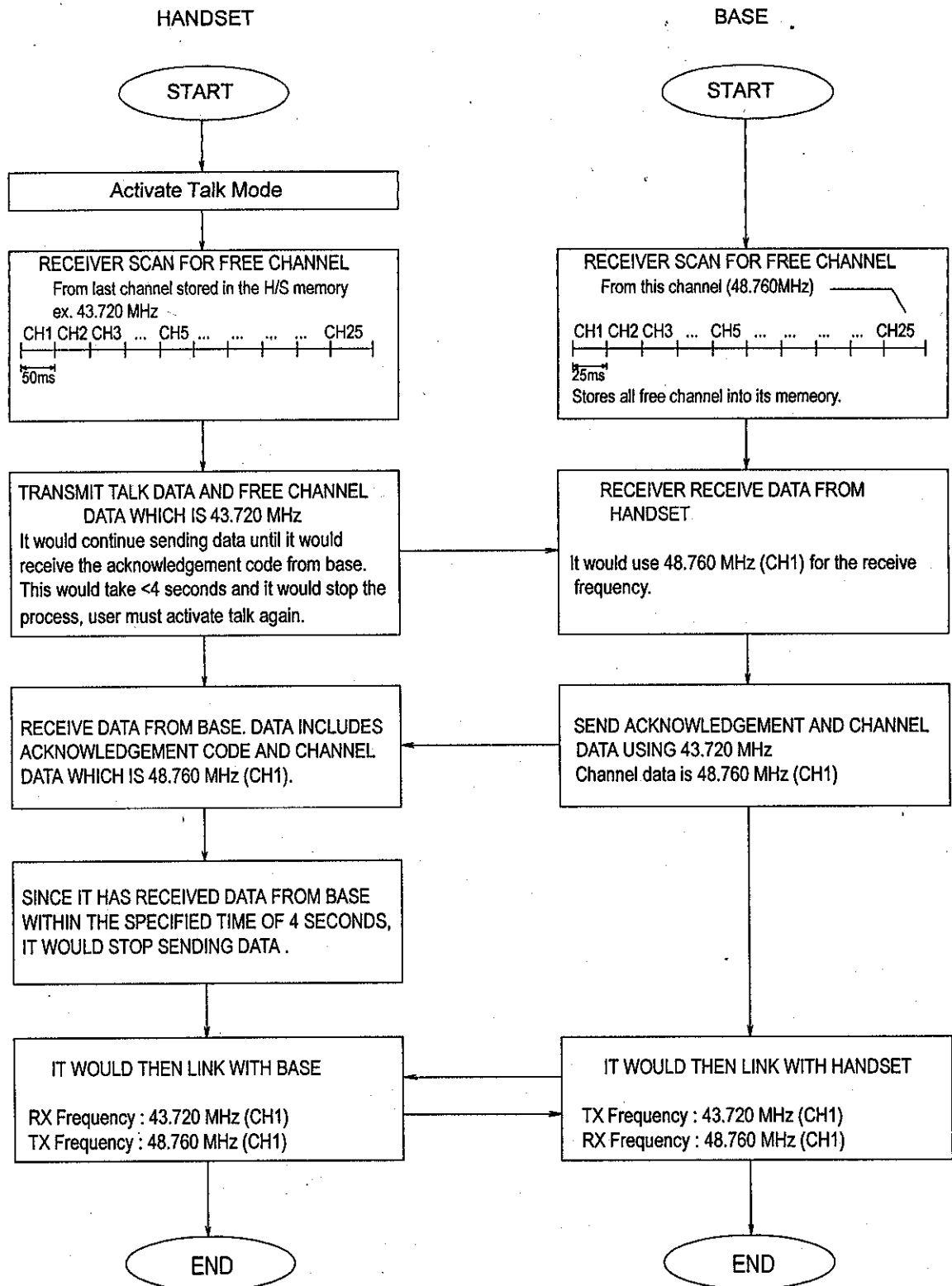


# TITLE : Model BE-25FA Automatic Channel Selection Mechanism

## TALK MODE

CONDITION 1 : All channels are unoccupied (Free channel)



# TITLE : Model BE-25FA Automatic Channel Selection Mechanism

## TALK MODE

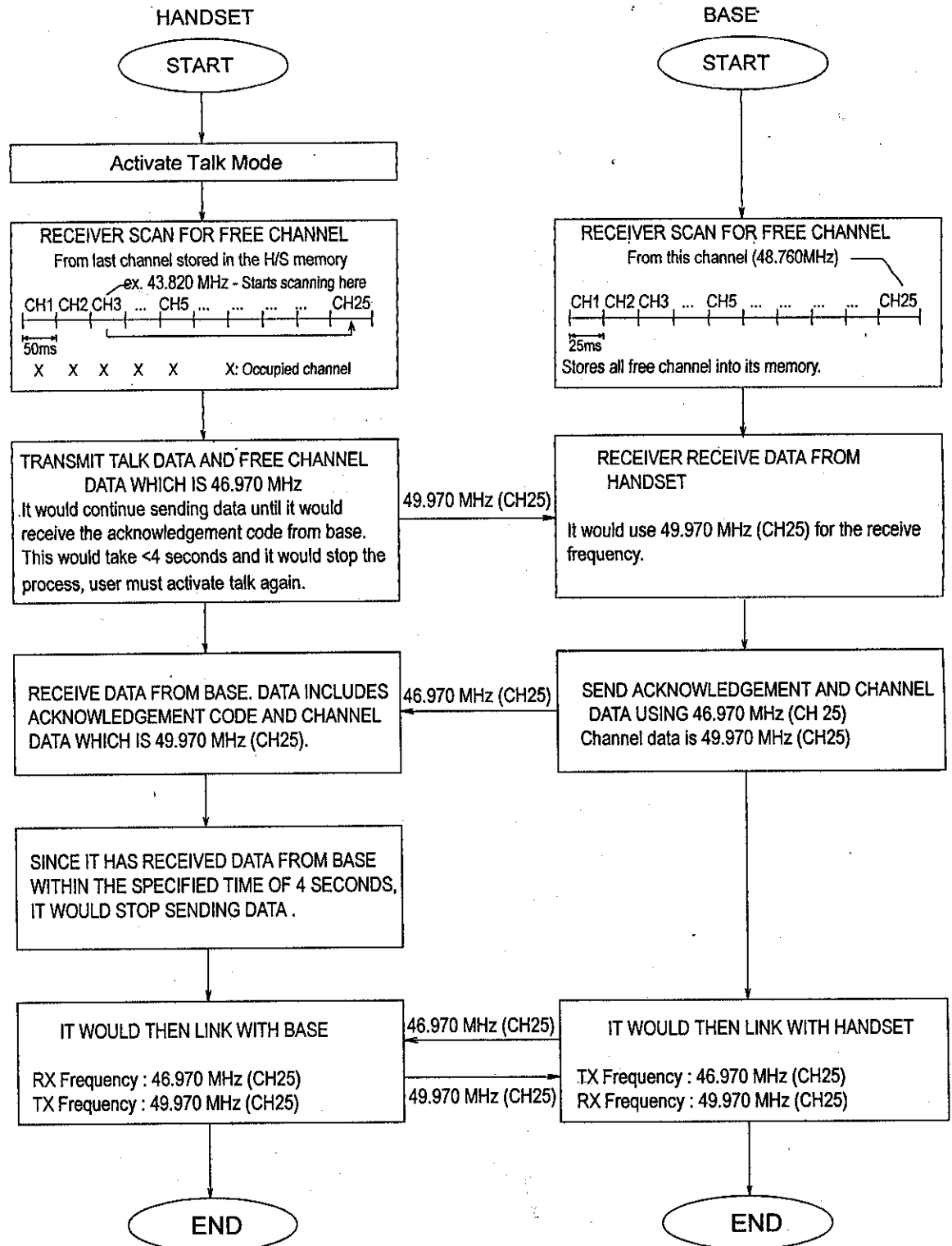
CONDITION 2 : Multi channel on the base TX frequency are occupied.

Ex. CH 1: 43.720 MHz CH 4: 43.840 MHz

CH 2: 43.740 MHz CH 5: 43.920 MHz

CH 3: 43.820 MHz

CH 3: 43.820 MHz - Stored channel during the last link in handset memory



# TITLE : Model BE-25FA Automatic Channel Selection Mechanism

## TALK MODE

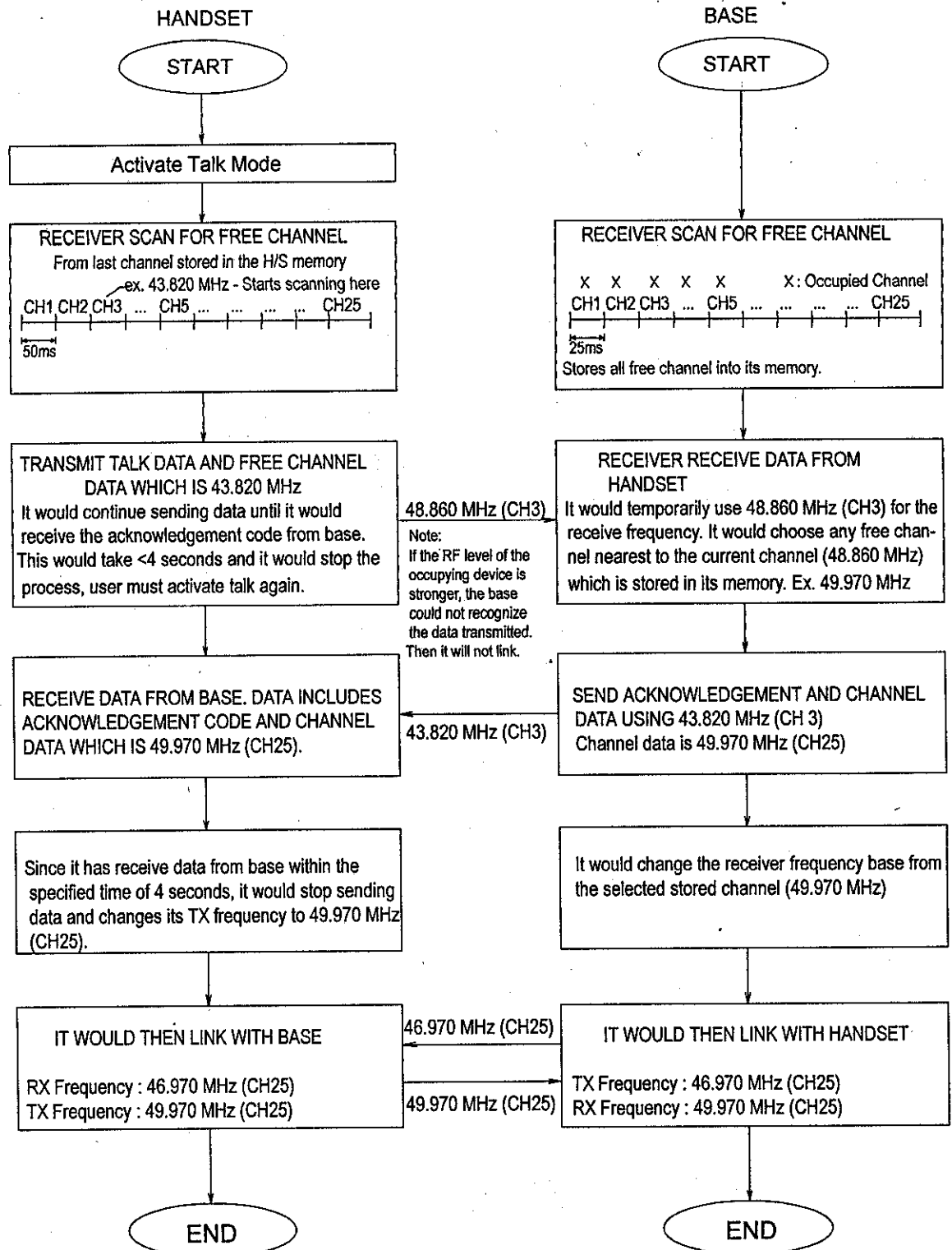
CONDITION 3 : Multi channel on the Handset TX frequency are occupied.

Ex. CH 1: 48.760 MHz CH 4 : 48.920 MHz

CH 2: 48.840 MHz CH 5 : 48.020 MHz

CH 3: 48.860 MHz

CH 3: 43.820 MHz - Stored channel during the last link in handset memory

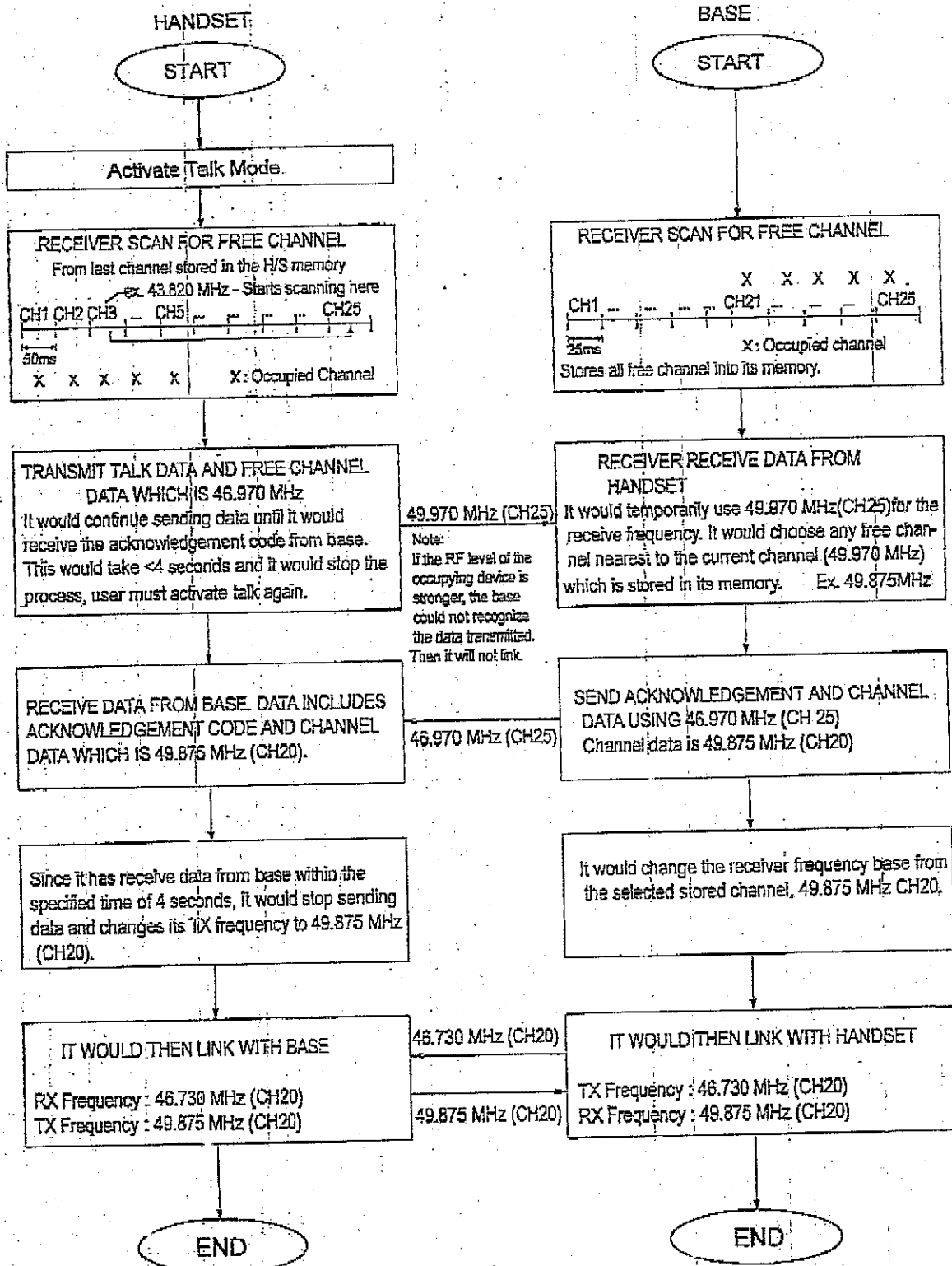


## TALK MODE

**CONDITION 4** : Multi channel on the Base TX and Handset TX frequency are occupied.

Ex. CH 1: 48.760 MHz	CH 4: 48.920 MHz	CH 21: 49.830 MHz	CH 24: 49.990 MHz
CH 2: 48.840 MHz	CH 5: 48.020 MHz	CH 22: 49.890 MHz	CH 25: 49.970 MHz
CH 3: 48.860 MHz		CH 23: 49.930 MHz	

CH 3: 43.820 MHz - Stored channel during the last link in handset memory

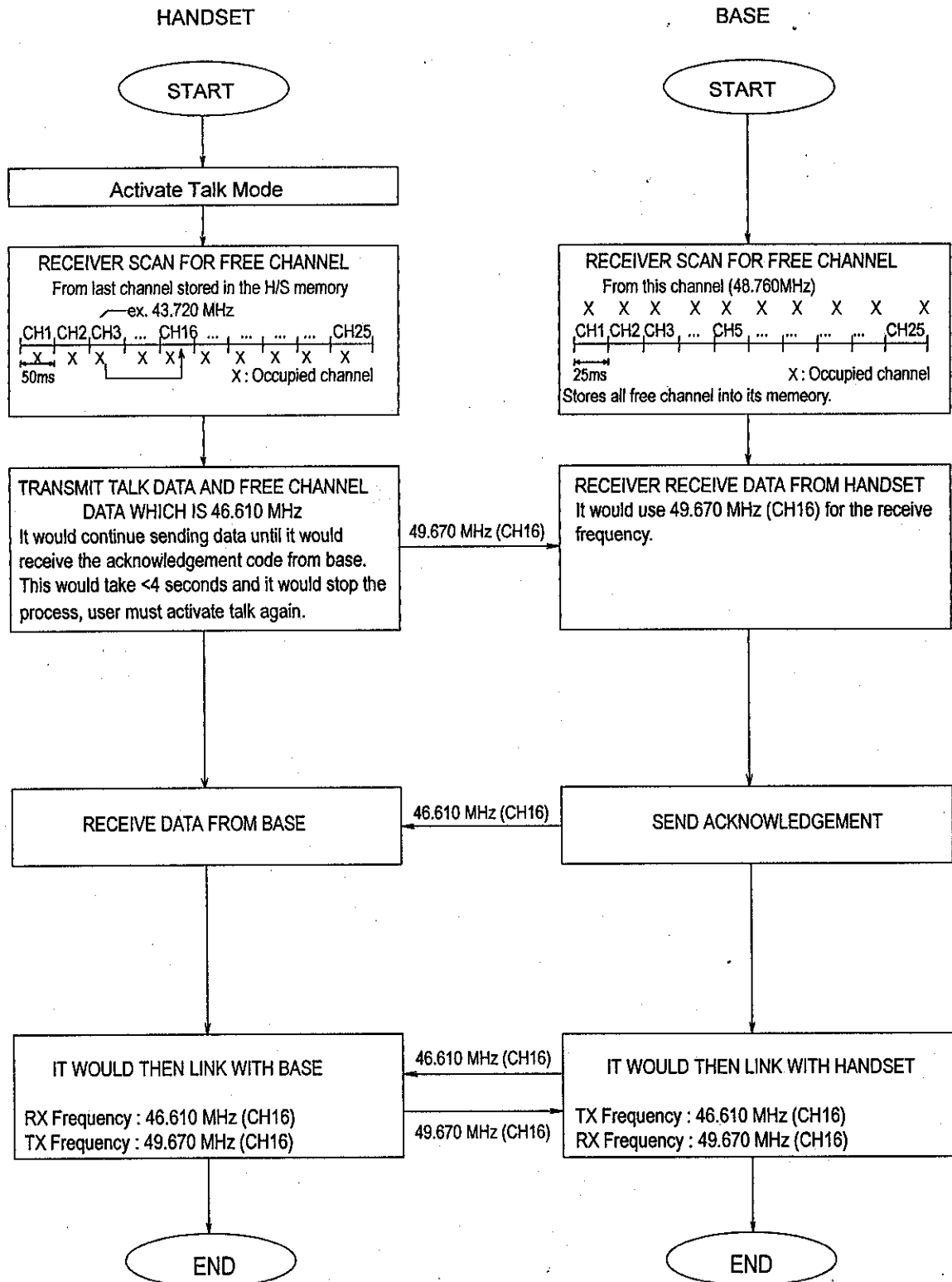


## TITLE : Model BE-25FA Automatic Channel Selection Mechanism

### TALK MODE

CONDITION 5 : All TX channels of Handset and Base are occupied (All Busy)

CH3 : 43.820 MHz - Stored channel during the last link in Handset memory.



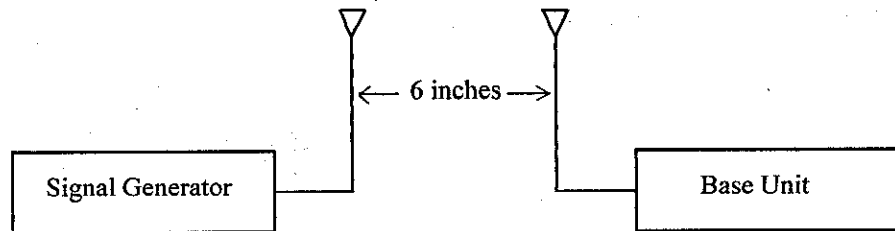
## **BE-25FA AUTOMATIC CHANNEL SELECTION**

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

### **Equipment Used to Perform Tests**

- JUNGJIN JSG-1051B Signal Generator  
Interference Signal 1KHz, 5KHz deviation

### **Test Set-Up**



### **Test Procedures**

1. Set signal generator at a certain channel (e.g. channel 1), then turn the generator off.
2. Turn on the phone, set the phone at the same channel as in step 1, then turn off the phone.
3. Turn on the signal generator.
4. Turn on the phone, investigate and record the locked channel. If scan functions correctly, it will lock to any channel, but not the one in step 1.
5. Repeat Step 1-4 for 25 channels

**TITLE : Model CT 420 Automatic Channel Selection Mechanism**

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**Test Results**

INTERFERENCE CHANNEL AT	PHONE PRE-SET CHANNEL AT	PHONE AUTO-SCAN TO CHANNEL AT -13 dBm
1	1	2
2	2	3
3	3	4
4	4	5
5	5	7
6	6	7
7	7	8
8	8	9
9	9	10
10	10	11
11	11	12
12	12	14
13	13	14
14	14	15
15	15	16
16	16	17
17	17	18
18	18	19
19	19	20
20	20	22
21	21	22
22	22	23
23	23	24
24	24	25
25	25	1

**Summary**

The phone under test has an automatic selection mechanism that will prevent establishment of a link on any occupied frequency channel.

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