



For _____

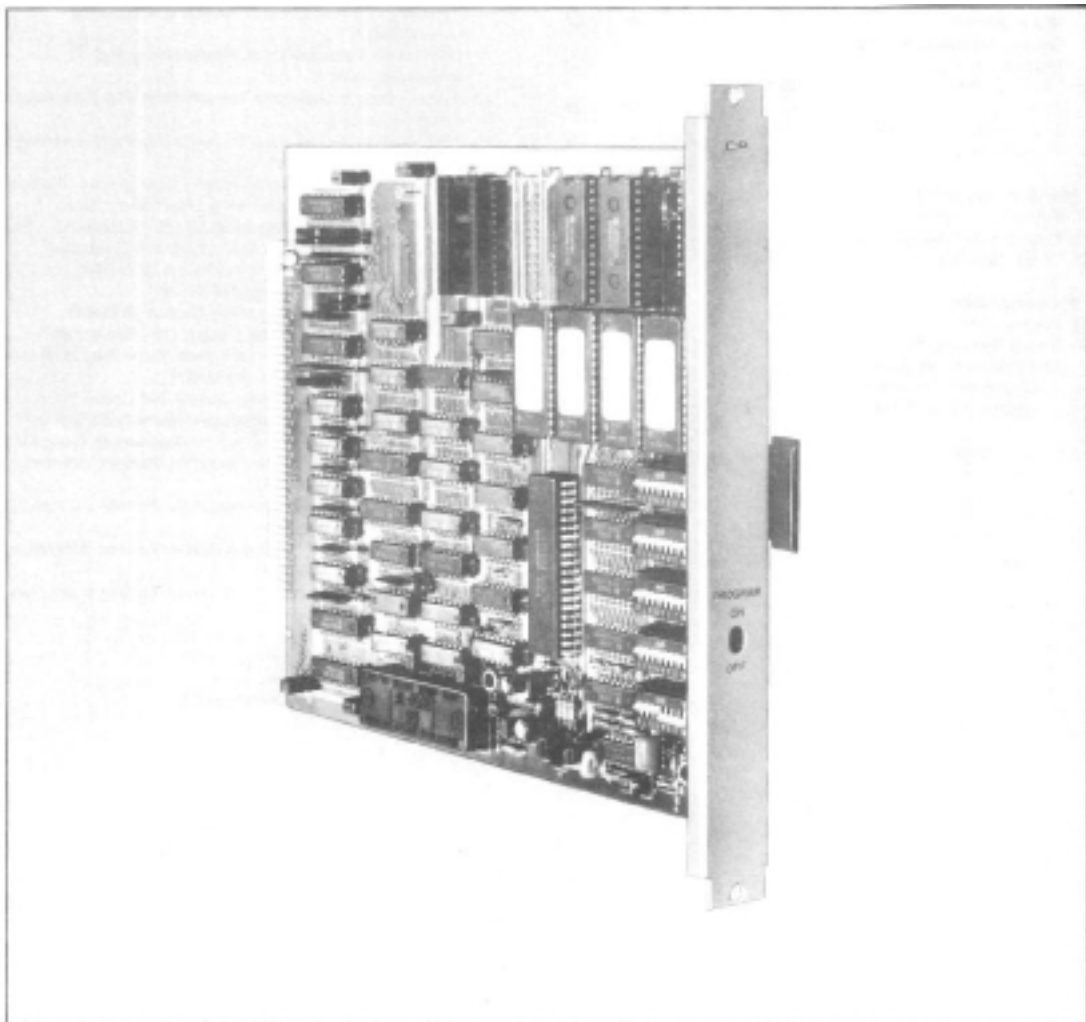
INTERCOM SYSTEM

TOA EXES-6000 INTERCOM SYSTEM

Central Processing Unit for
Single Exchange System or Tie-line System

CP-66

INSTALLATION HAND BOOK



CONTENTS

- INTRODUCTION TO THE INSTALLATION MANUAL FOR EXES-6000 1
- PART 1. TIE-LINE SYSTEM -
- TIE-LINE CONNECTION OF THE EXCHANGES 2
- WIRING FOR THE TIE-LINE CONNECTION OF THE EXCHANGES 4
- PART 2. OPERATING OF CP UNIT AND NO. 200 PROGRAMMING-
- 1. Precautions for Installation of CP-66 9
- 2. Initial CP-66 set up 10
- 3. Trouble Shooting 11
- 4. CP-66 DIP Switches for Function Selection 14
- 5. Function Code Table for Station No. 200 Programming 16
- 6. Station No. 200 Programming for Each Function

[Function Group A]	FUNCTION CODE
6-1 Executive Priority (Highest Executive Priority).....	50 ... 21
6-2 Continuous Calling Tone	51 ... 22
6-3 Stations Allowed Access to All Call	52 ... 23
6-4 Stations Allowed Access to Conference	53 ... 24
6-5 Automatic Access to Paging	54 ... 25
6-6 Stations Allowed Access to One-shot Make Output	56 ... 27
6-7 Stations Allowed Access to Make/Break Output	57 ... 28
6-8 Stations Allowed Access to 8 Selectable (One-shot Make) or Decimal Output.....	58 ... 29
6-9 Station Allowed Access to 4 Decimal Digits Output.....	59.....30

6-10 Secretary Transfer.....	60 ... 31
6-11 Master/Sub Relationship	61 ... 32
6-12 Group Hunting	62 ... 33

6-13 Paging Zone	70 ... 34
6-14 Group Blocking 1: Establishment of each Group	71 ... 35
6-15 Calling Party/Conversation partner Indication (Lamp Type).....	72 ... 36

6-16 Combination Paging	80 ... 37
6-17 Group Blocking 2: Allowed Calls among Groups.....	81 ... 38
6-18 Group Blocking 3: Allowed Group Access to Paging	82 ... 39

6-19 Programmable Station Numbering	
A. Programming of Single Station Number.....	90 ... 40
B. Programming of Serial Station Number.....	90 ... 41

[Function Group F]	FUNCTION CODE
External interface	42
6-20 Rented line allocation for OD-600	23 ... 43
6-21 Rented line allocation for LD-600	24 ... 44
6-22 Telephone line allocation for CB-600	25 ... 45
6-23 Rented line allocation for TI-600	26 ... 46
6-24 Telephone line allocation to station group	27 ... 47
6-25 To register telephone line for city pager	28 ... 48
6-26 Fixed speed dialling	29 ... 49

[Function Group G]	
6-27 Handset station	30 ... 50
6-28 Stations Allowed Access to outgoing phone call	31 ... 51
6-29 Stations Allowed Access to incoming phone call	32 ... 52
6-30 Automatic pager transfer.....	34 ... 53
6-31 Door station.....	35 ... 54
6-32 Stations Allowed to refuse voice call.....	36 ... 55
6-33 Stations Allowed to refuse priority interruption	37 ... 56
6-34 Stations Allowed Access to zone paging	38 ... 57
6-35 Stations Allowed to refuse station paging	39 ... 58
7. Programming Data Table	
● Initial Programming	59
● Function table for the System	60
● Function Table for Stations	61
● Paging Response Table.....	62

- PART 3. FUNCTION SELECTION FOR DATA TRANSMITTING AND RECEIVING UNITS-
- 8. Setting of Channel Select Switch of Transmitting Unit (DT-E60) and Word Select Switch of Receiving Unit (DR-B61)
- 9. DIP Switch Table for Data Transmitting and Receiving Units.....
- 10. System Diagram of Data Transmitting and Receiving Units (Single Exchange)
- 11. System Diagram of Data Transmitting and Receiving Units (Tie-line System)
- 12. Explanation of Data Transmitting Unit Output Channels
- 13. Explanation of Data Receiving Unit Output Data
 - CH-1 Make/Break Output (512/100 Contacts).....
 - CH-2 One-shot Make Output (500/50 Contacts)
 - CH-3 (1) 4 Decimal Digits Output (9 Units)
 - (2) Decimal Output (9 Units)
 - (3) 8-Selectable Make Output (9 Units).....
 - (4) Pager Control Output (100 Contacts)
 - (5) 8-Selectable One-shot Make Output (9 Units)
 - CH-4 Decimal Output (99 Units)
 - CH-5 8-Selectable Make Output (64 Units)
 - CH-6 Calling Party Indication (Numerical Type) (1).....
 - CH-7 Calling Party Indication (Numerical Type) (2).....
 - CH-8 Calling Party/Conversation Partner Indication (Lamp Type) (1)
 - CH-9 Calling Party/Conversation Partner Indication (Lamp Type) (2)
 - CH-10 Calling Party/Conversation Partner Indication (Lamp Type) (3)
 - CH-11 Calling Party/Conversation Partner Indication (Lamp Type) (4)
 - CH-12 Destination Indication (1)
 - CH-13 Destination Indication (2)
 - CH-14 IN-OUT Annunciation (1)
 - CH-15 IN-OUT Annunciation (2)

● INTRODUCTION TO THE INSTALLATION MANUAL FOR EXES-6000

This manual forms part of the Installation Manual for TOA INTERCOM SYSTEM EXES-6000.

You may add the CP-66 to your TOA INTERCOM SYSTEM EXES-6000, according to your specific needs, to obtain various other functions. Correct operation of these additional functions is **not performed by simply connecting the additional equipments /devices.** Provision of such additional function requires the following:

- (1) Connection of the additional equipment, as required.
- (2) Selection of functions which satisfy your needs and setting up these functions in the respective equipment.

There are certain minimum installation requirements to be met even though you may not need many additional functions or additional equipment, **it is still necessary to read "2. Initial CP-66 Set Up."** When you may use only some of the additional functions or equipments, it is not necessary to read instructions on unrequired functions. Make sure, however, that careful study of the necessary parts of this booklet should be done before proceeding further.

PART 1. TIE-LINE SYSTEM

● TIE-LINE CONNECTION OF THE EXCHANGES

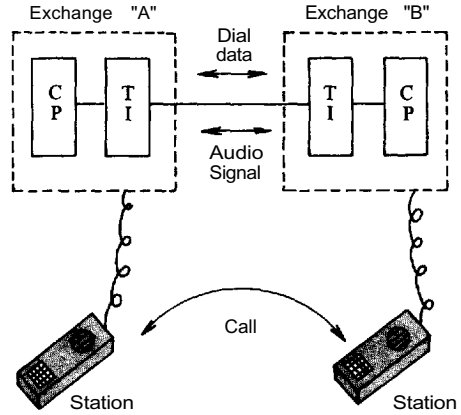
1. Functions of the Central Processing Unit CP-66 and Tie-line Interface Unit TI-62

To make communications between exchanges possible in the EXES-6000 system, the CP-66 and the Tie-line Interface Unit TI-62 are required in addition to the exchange.

The TI-62 is the interface unit for transmitting and receiving audio signals and dial data signals between the exchanges.

After receiving dial signals from the station, the CP-66 transmits the dial data signals to the TI-62 and instructs it to make calls to the other exchange. The CP-66 also receives the dial data signals from the other exchange through the TI-62 and calls the station which is instructed to call by the other exchange.

Overall functions of the system using the Tie-line function are determined by programming made in the CP-66.



2. Number of stations, paging zones and links

Composition of exchange		Maximum number of links within one's own exchange	Number of links between Tie-lined exchanges	Number of exchanges	Maximum number of paging zones	Maximum number of stations in each exchange	
						Without paging	With paging
① Without Tie-line Single exchange EX-1	EX-610	12	—	1	All station calls + 7 zones	56	48
	EX-620	16	—	1	All station calls + 7 zones	120	112
	EX-630	16	—	1	All station calls + 31 zones	256	256
② 2 exchanges Tie-lined Exchange A — Exchange B EX-2A EX-2B	EX-610	12 ^{*1}	8	2	All station calls + 14 zones ^{*4}	112	96
	EX-620	16 ^{*1}	8	2	All station calls + 14 zones ^{*4}	240	224
	EX-630	16 ^{*1}	16 ^{*2}	2	All station calls + 30 zones ^{*4}	512	512
③ 3 exchanges Tie-lined Exchange A — Exchange B — Exchange C EX-3A EX-3C EX-3B	EX-610	12 ^{*1}	4 per Tie line	3	All stations calls + 21 zones ^{*4}	168	144
	EX-620	16 ^{*1}	4 per Tie line	3	All stations calls + 21 zones ^{*4}	360	336
	EX-630	16 ^{*1}	8 per Tie line ^{*3}	3	All stations calls + 45 zones ^{*4}	768	768

*1 The links within one's own exchange are used for communication between Tie-line exchanges.

*2 One (8 links) or two Tie-line units (TI-62) are required per exchange.

*3 Two Tie-line units (TI-62) are required per exchange.

*4 All-station paging is equivalent to all-zone paging in exchanges connected by Tie-lines.

*5 Mixed Tie-line of EX-610/620/630 is also available.

3. Numbering schedule for station and paging zones

① Standard plan (when personal Nos. are provided)

Type of exchange	System	Numbering for stations		Numbering for paging zones	
		Without paging	With paging	Paging zones/exchange	
				All station calls	Zones
EX-1 (Single)	EX-610	200~263	200~255(247)* ¹	00	01~07(15)* ¹
	EX-620	200~327	200~319(311)* ¹		01~07(15)* ¹
	EX-630	200~455	200~455		01~07(31)* ¹
A EX-2A/EX-3A	EX-610	200~247, 256~263	200~247		01~07
	EX-620	200~311, 320~327	200~311		01~07
	EX-630	200~455	200~455		01~15
B EX-2B/EX-3B	EX-610	470~517, 526~533	470~517		08~14(16~22)* ²
	EX-620	470~581, 590~597	470~581		08~14(16~22)* ²
	EX-630	470~725	470~725		16~30
C EX-3C	EX-610	740~787, 796~803	740~787	15~21(31~37)* ²	
	EX-620	740~851, 860~867	740~851	15~21(31~37)* ²	
	EX-630	740~995	740~995	31~45	

*1 When the following are specified in the pager dialing operation;

*2 When the Tie-line system consists of either the EX-610 and EX-630, or the EX-620 and EX-630.

② When no personal Nos. are provided

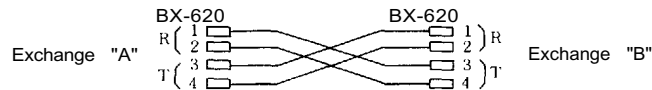
Type of exchange	System	Numbering for stations		Numbering for paging zones	
		Without paging	With paging	Paging zones/exchange	
				All station calls	Zones
EX-1 (Single)	EX-610	100~163	100~155(147)* ¹	00	01~07(15)* ¹
	EX-620	100~227	100~219(211)* ¹		01~07(15)* ¹
	EX-630	100~355	100~355		01~07(31)**
A EX-2A/EX-3A	EX-610	100~147, 156~163	100~47		01~07
	EX-620	100~211, 220~227	100~211		01~07
	EX-630	100~355	100~355		01~15
B EX-2B/EX-3B	EX-610	400~447, 456~463	400~447		08~14(16~22)* ²
	EX-620	400~511, 520~527	400~511		08~14(16~22)* ²
	EX-630	400~655	400~655		16~30
C EX-3C	EX-610	700~747, 756~763	700~747	15~21(31~37)* ²	
	EX-620	700~811, 820~827	700~811	15~21(31~37)* ²	
	EX-630	700~955	700~955	31~45	

*1 When the following are specified in the pager dialing operation;

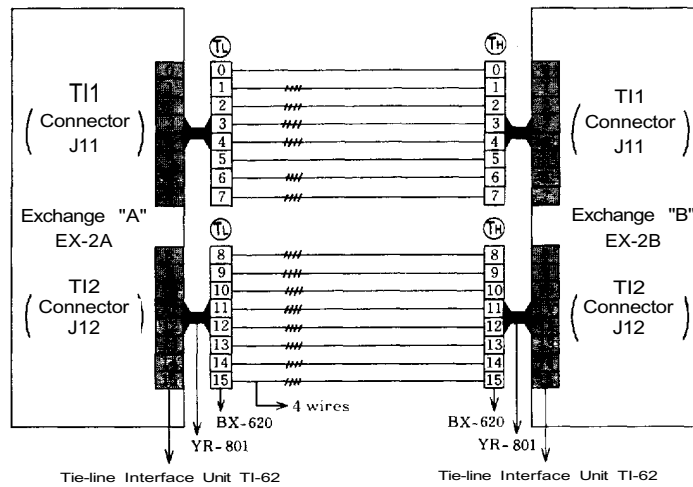
*2 When the Tie-line system consists of either the EX-610 and EX-630, or the EX-620 and EX-630.

● WIRING FOR TIE-LINE CONNECTION OF THE EXCHANGES

- Each exchange can be connected by means of a cable with diameter of 0.65mm (25.6 mils.) for distance of up to 2km (5600 ft).
 - Regarding the tieline links which are not used, turn off the DIP switch of each unused tieline link inside the Tie-line Unit TI-62.
 - Connect "T" line (2 wires) of the 4 wires of each link to "R" line (2 wires) of the other exchange.
 - The 2 wires of the "T" line and "R" line have no polarity.
- If the BX-620 is used, its terminals No.1 and 2 are for the "R" line and No.3 and 4 are for the "T" line.

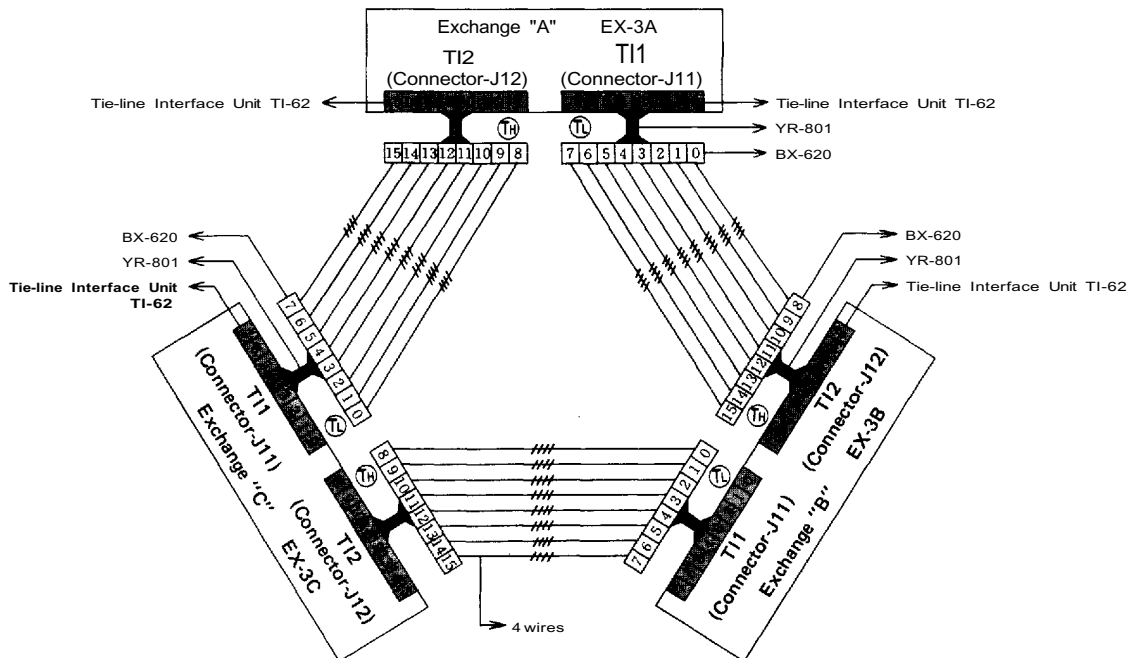


1. Wiring for tie-line connection of 2 exchanges



- Note 1. Any combination of tie-line links between exchanges "A" and "B" is possible.
- Note 2. Mount only one Tie-line Interface unit when the number of tie-line links is within 8.

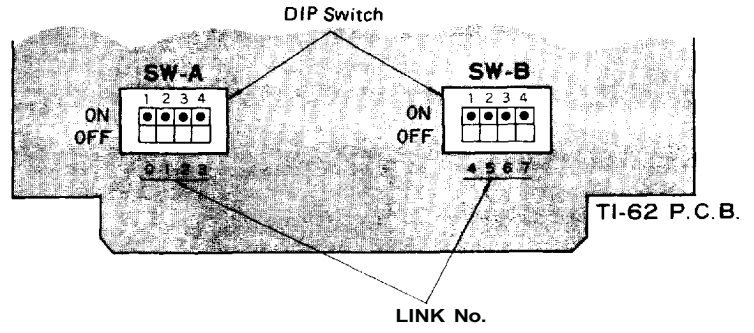
2. Wiring for tie-line connection of 3 exchanges



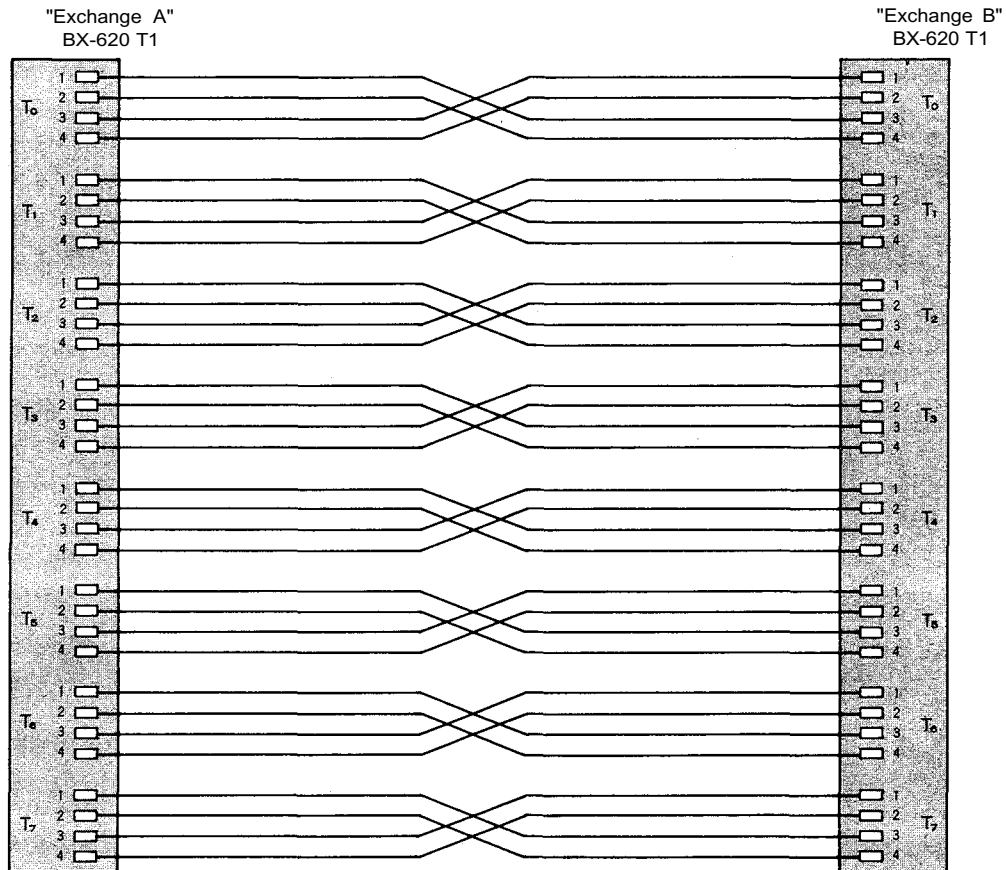
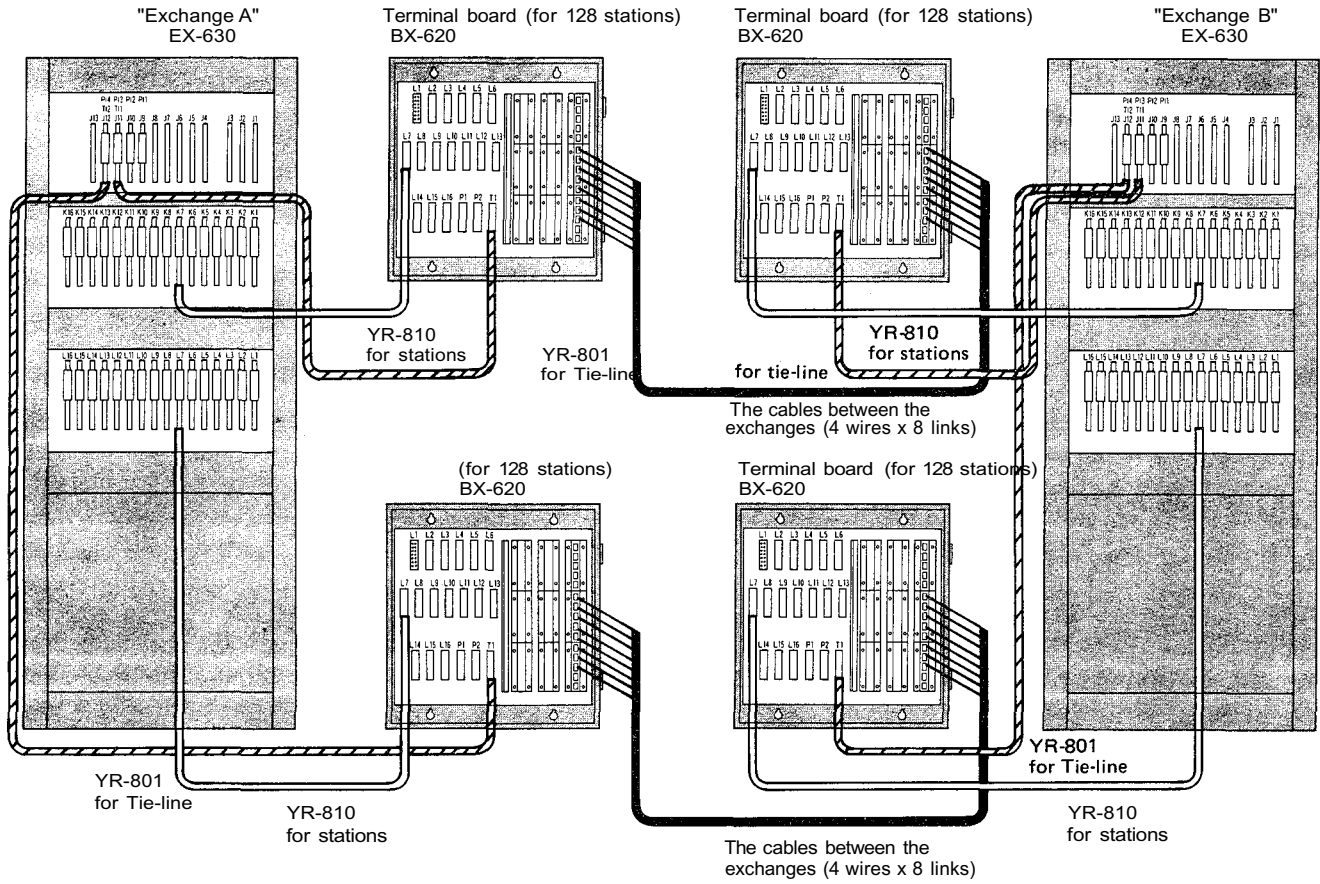
- Note 1. TI-62 (T11) (connector J11) is the left-hand unit and TI-62 (T12) (connector J12) is the right-hand unit, when viewed from the front.
- Note 2. Be sure to connect connector T11(J11) to T12(J12) between the exchanges. Connection of T11 (J11) to T11(J11) or T12(J12) to T12(J12) will lead to failure of proper operation of the system.

3. DIP Switch selection

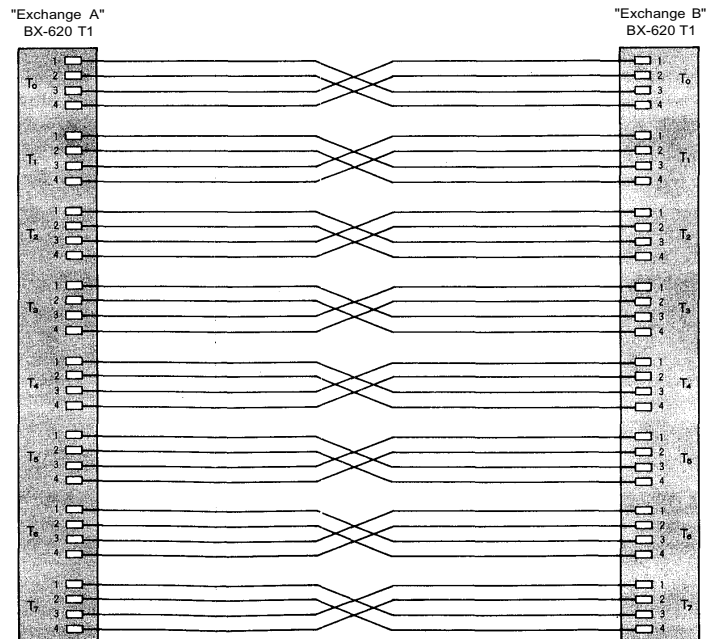
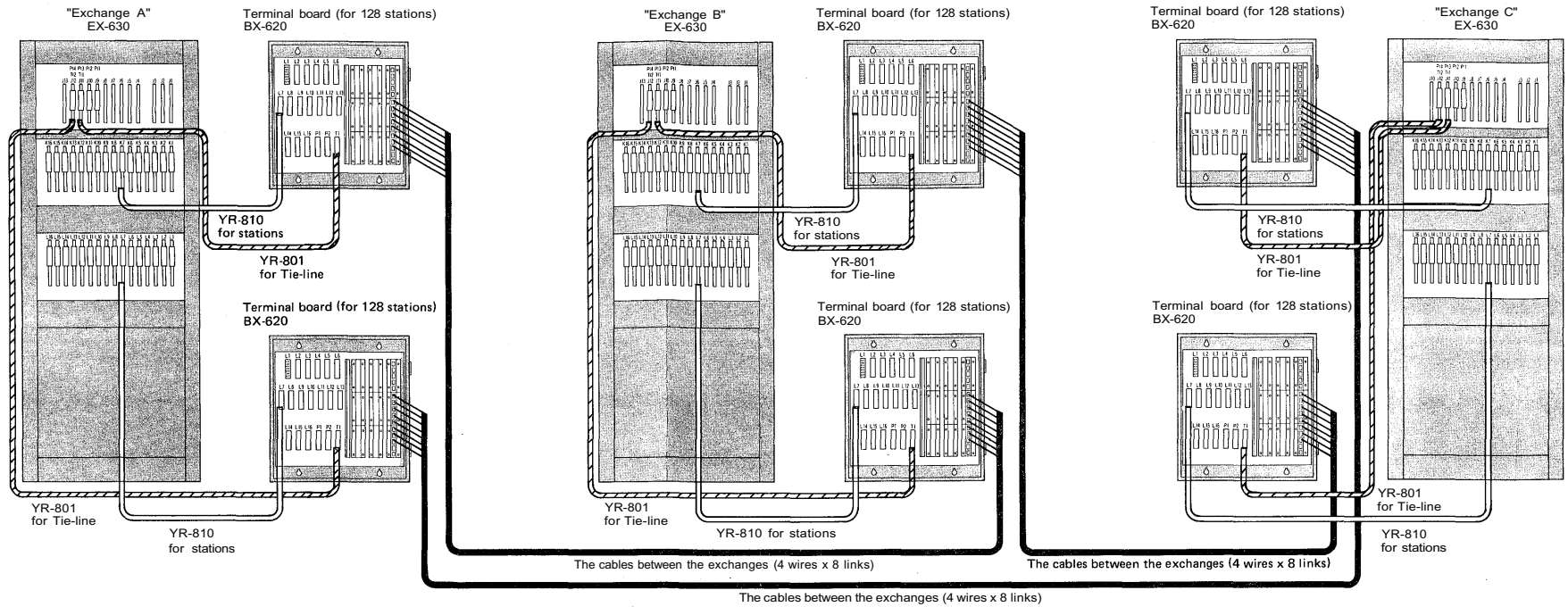
1. Set DIP switches of each CP to E1, E2, and E3 to determine the type of exchange (EX-1, EX-2A/28, EX-3A/3B/3C). (See "4. CP-66 DIP switches for Function Selection" P14.)
2. If some tie-line links are left idle, set the corresponding DIP switch(es) to OFF.



4. Example of connection of two EX-630 exchanges



5. The Example of connection of three EX-630 exchanges



PART 2. OPERATING OF CP UNIT AND NO. 200 PROGRAMMING

1. PRECAUTIONS FOR INSTALLATION OF CP-66

Please read following instructions carefully to ensure proper operation of the CP-66

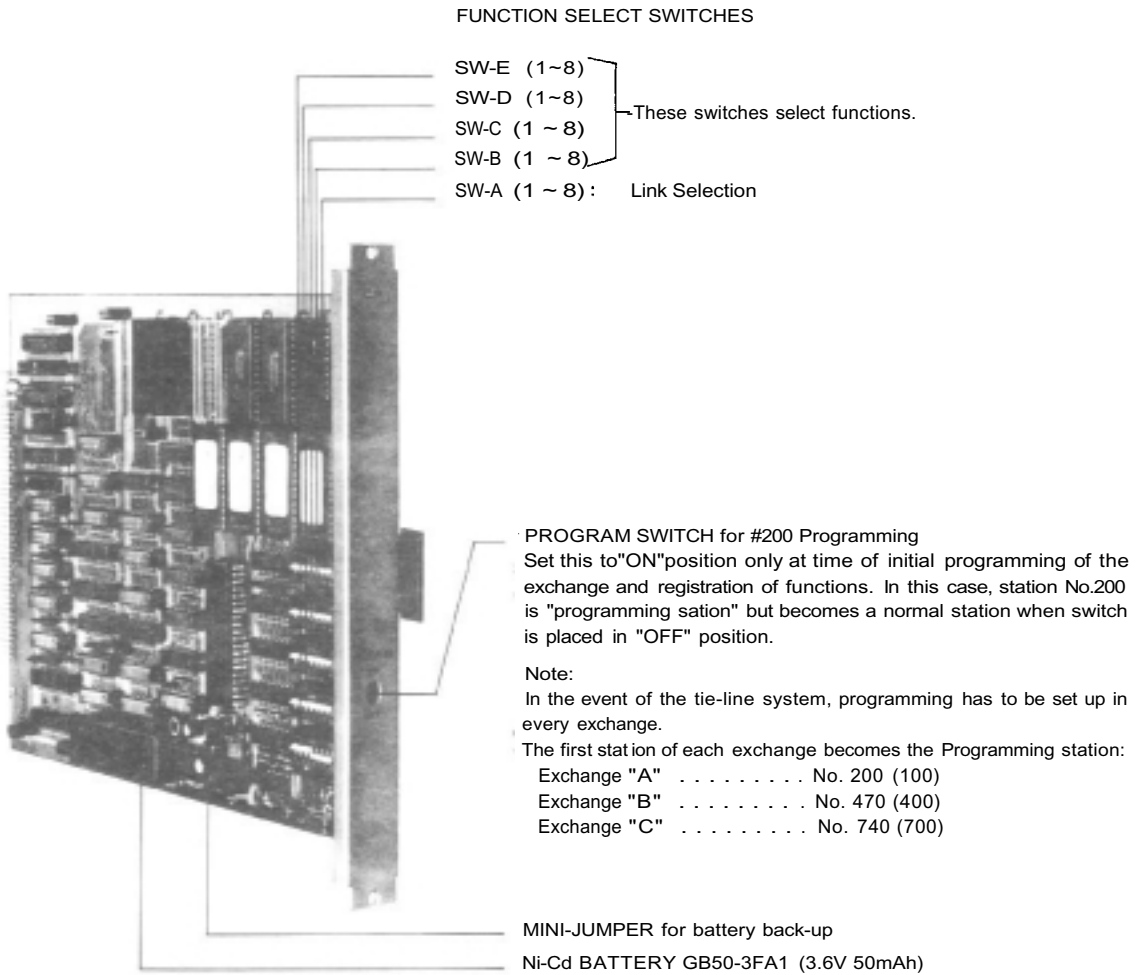
1. Be careful about damage by static electricity as the CP-66 incorporates CMOS IC's. Do not touch components and connectors.
2. Turn off the AC power switch when you take out or insert the CP-66 unit, or any other unit.
3. Always insert the CP-66 unit into the "CP" slot. Otherwise, there is a danger that the unit will be damaged.
4. Make sure mini-jumper for battery back-up is always placed in ON position each time it is used.
5. Incorrect setting of function select switches may lead to incorrect performance.
6. Even if you do not need programming functions, be sure to carry out initial programming and registration at station No.200 when you install the new unit. Otherwise, some other functions may not work properly.
7. The Ni-Cd battery GB50-3FA1 is capable of saving important memory registration data even at times of power failure. To keep the battery fully charged, do not cut the power off for long hours during the first 8 days after new installation. The CP-66 unit is capable of maintaining the programmed data for the period of 4 weeks after fully charged even in the event of long hours of power failure.
(About 4 weeks (25°C), About 8 days (40°C))

8. We suggest you replace the soldered button battery GB50-3FA1 (115-42-031 -9) with the new one according to the following list that shows an expected life span of the battery.
Be sure to make the station No.200 programming after replacement of the battery.

● Expected Life Span of small Ni-Cd Battery

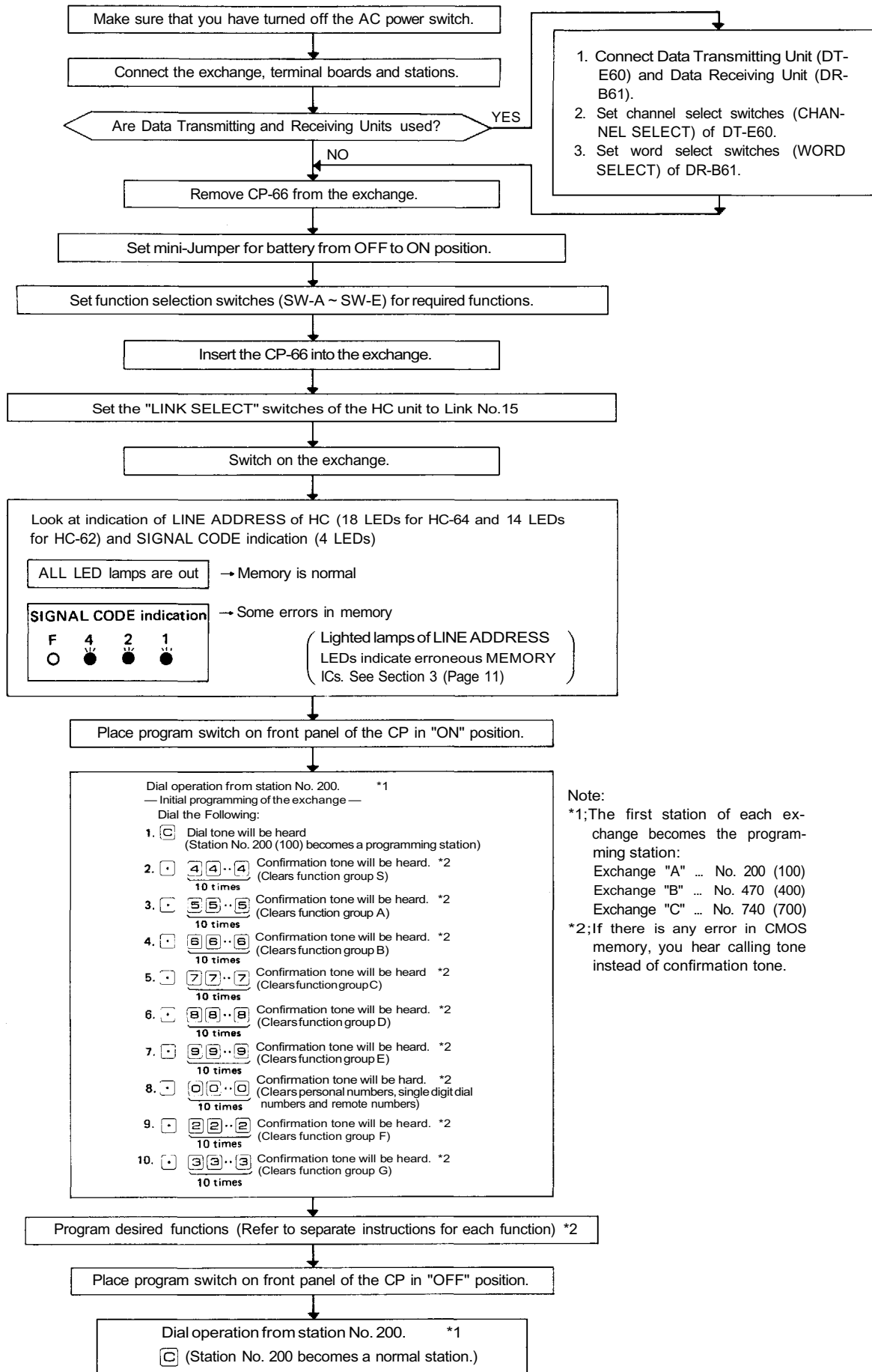
Ambient temperature of exchange	Ambient temperature of battery	Life span
0° C	10° C	About 5 years
25° C	35° C	About 4 years
40° C	50° C	About 2 years

9. When shipping the CP-66 unit independently, place the mini-jumper for battery back-up in "OFF" position. Cover the CP back with cardboard, wrap connector section in aluminium foil and put it in a conductive bag.



2. INITIAL CP-66 SET UP

For the tie-line system, programming has to be set up in every exchange.



3. TROUBLE SHOOTING

3-1 Check of ROM & CMOS-RAM - No calls on the system.

1. HC-64 (when EX-630 is used)

- (1) Set the "LINK SELECT" switches of the HC to F (between E and 0) and switch on the AC power of the exchange.
- (2) If there is no error, the indication lamps will not light.
- (3) In the event of a memory error, the lamps may light as shown in the example of Fig. 1.
- (4) The error indications will remain on until you use Link No. 15 for communications.

2. HC-62 (when EX-610 or EX-620 is used)

- (1) Lift 4 Link Select switches (Link No. 15 Select) and then set the exchange power switch to ON.
- (2) The indicators remain lit if there is no error.
- (3) The indicators light as shown in Fig. 2 if there is a memory error.
- (4) The indicators remain lit till the link No. 15 is used for conversation.

3-2 Confirming of the CP normal working

If the CP, OC and HC are working normally, the HC's indication lamps of LINE BUSY, LINE ADDRESS and SIGNAL CODE go out.

When any of the lamps remains lit, it is possible that any of the CIP, OC or HC is faulty.

Check first that the CLOCK lamp of the HC is lighting, then confirm that the CP is working normally by hearing the clicking sound of the PI unit's relay which is produced when the relay is activated through dial operation of the paging.

If the CP is found working normally, chances are that the HC is faulty, followed by the OC.

3-3 Check of CMOS-RAM (Programmed data memory)

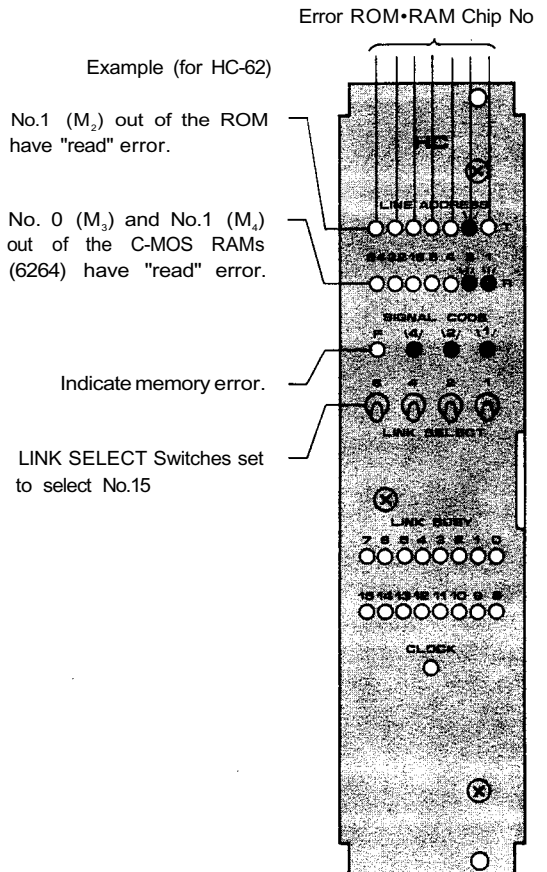
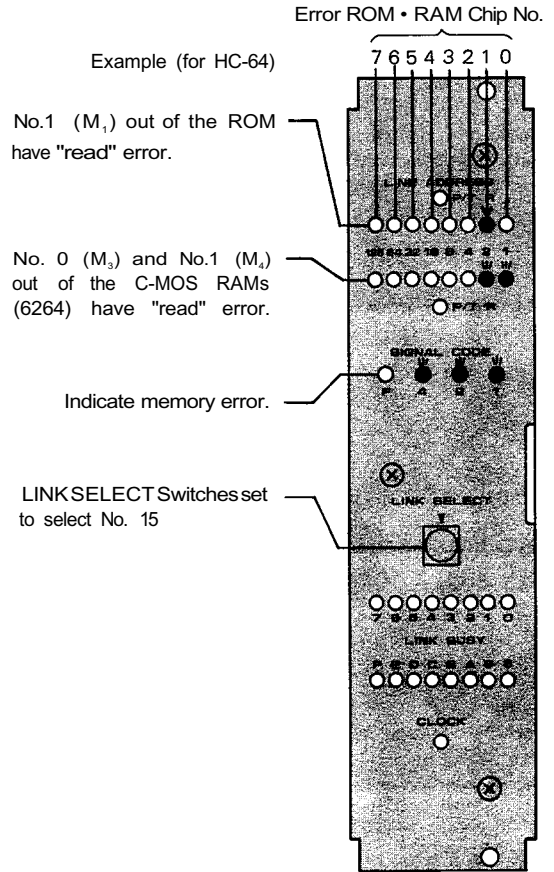
You hear calling tone instead of confirmation tone, if there is CMOS memory error at the time of initial programming and registration using station No. 200, or at the time of registration to Single Digit Number or Personal Number or Remote Number.

3-4 The order of link usage.

After power is on, links are used in numerical order for each communication. Remember this to help you when problems are found with specific links.

Remarks:

1. Be sure to avoid mistake at the time of DIP switch installation and No. 200 Programming since such mistake can lead to later troubles.
2. Be sure to make "No. 200 Programming" after "Programming Data Table" (attached to this manual) is filled out. Keep the finished "Programming Data Table" (Initial Checking Sheet for the System) as a part of complete drawings for each installation.



3-5 The order of Tie-line link usage

The Tie-line Link Number which is used in calls between exchanges is not directly indicated, but you can possibly get it from the link number which is indicated on the HC-64 or HC-62.

When one Tie-line Link brings up some problems which cause the system not to work properly, try to find which link number is causing the problems from the indication on the HC-64 of the exchange making the call.

As Fig. 1 and Fig. 2 show, in the exchanges which make calls, the DL Link Number corresponds with TI Tie-line Link Number.

In the exchange which is called, the Tie-line Link Number of the TI Unit is fixed by connection between exchanges.

DL Links are used in numerical order.

1. Tie-line for 2 exchanges

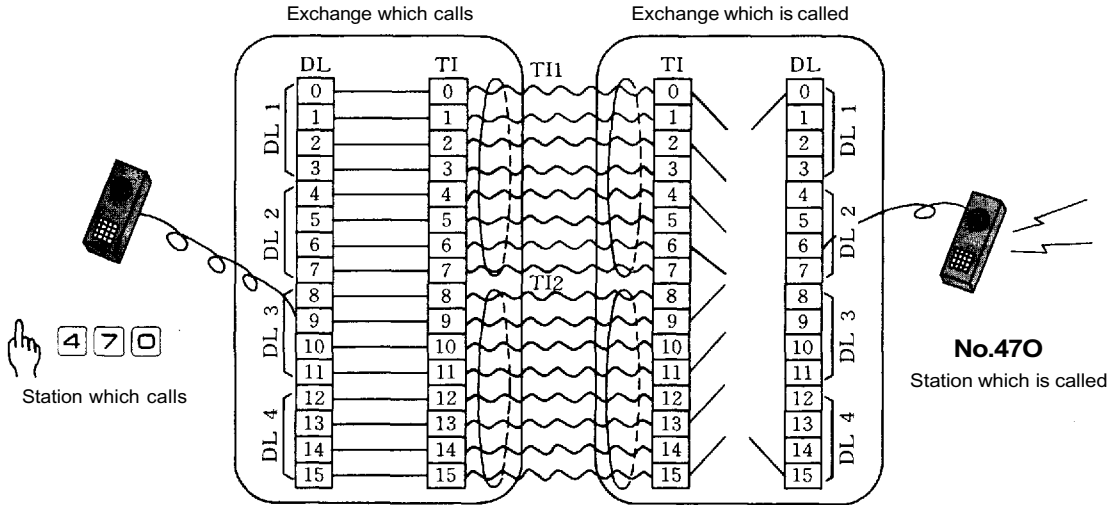


Fig. 1

2. Tie-line for 3 exchanges

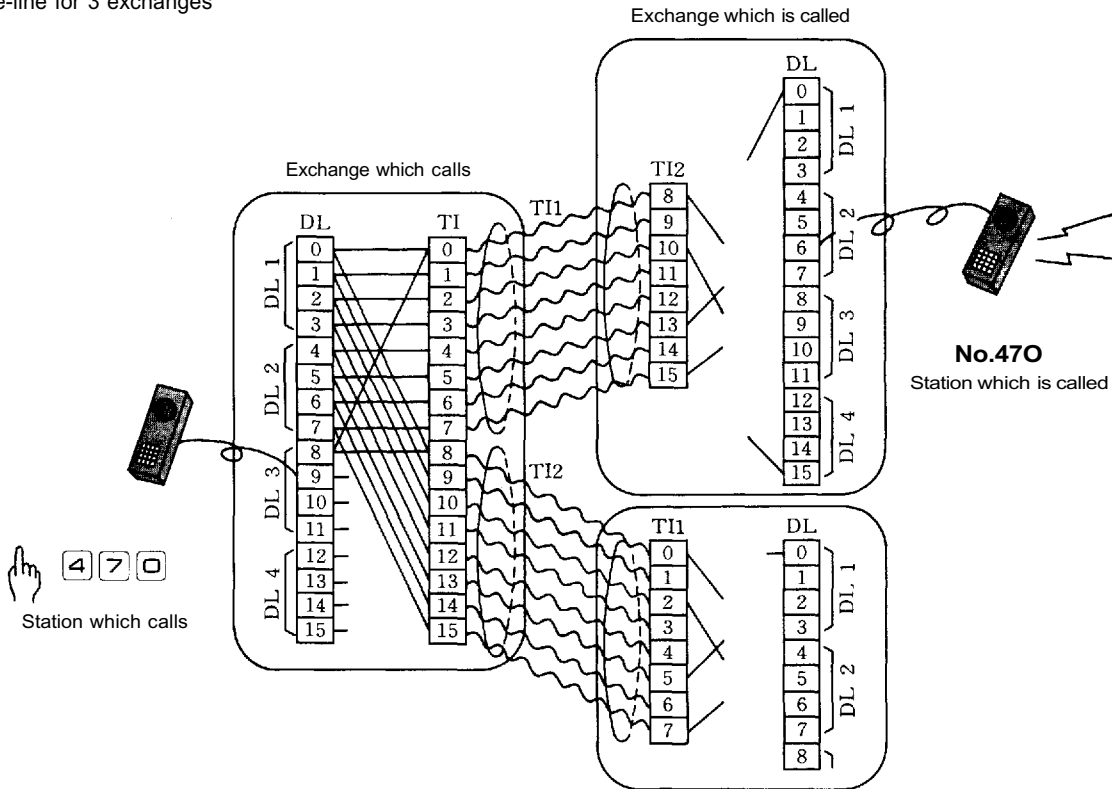


Fig. 2

Reference for Connection Link Number between DL and TI Link

Exchange which calls				Exchange which is called	
DL Link No	TI Tie-line Link Number			TI Tie-line Link Number	DL Link Number
	2 Tie-lines		3 Tie-lines		
	To TI1, TI2	To TI1	To TI2		
0	0	0	8	Fixed by Cable Connection between Exchanges	After power switch is on. Links are used in numerical order
1	1	1	9		
2	2	2	10		
3	3	3	11		
4	4	4	12		
5	5	5	13		
6	6	6	14		
7	7	7	15		
8	8	0	8		
9	9	1	9		
10	10	2	10		
11	11	3	11		
12	12	4	12		
13	13	5	13		
14	14	6	14		
15	15	7	15		

Note.

If the TI Tie-line Link which corresponds with the DL Link No. is already busy, then the next Tie-line Link is automatically used.

4. CP-66 DIP SWITCHS FOR FUNCTION SELECTION

		Functions			Switch OFF	Switch ON
SW-A	OFF ON ● □ 1	Link Selection; Link No. 0 ~ 3			Unavailable	Available
	● □ 2	Link Selection; Link No. 4 ~ 7			Unavailable	Available
	● □ 3	Link Selection; Link No. 8 ~ 11			Unavailable	Available
	● □ 4	Link Selection; Link No. 12 ~ 15			Unavailable	Available
	● □ 5	PTT Control			Unavailable	Available
	● □ 6	Idle			(OFF)	—
	● □ 7	OFF	OFF		ON	
	● □ 8	OFF	ON		ON	
		EX-610	EX-620	EX-630		
Exchange type setting						
SW-B	OFF ON ● □ 1	Conference unit selection No. 1			DL	CL
	● □ 2	Conference unit selection No. 2			DL	CL
	● □ 3	Conference unit selection No. 3			DL	CL
	● □ 4	Conference unit selection No. 4			DL	CL
	● □ 5	Priority / Executive priority / Highest executive priority			Unavailable	Available
	● □ 6	Priority or Highest executive priority setting			Priority	Highest executive priority
	● □ 7	General purpose control			Unavailable	Available
	● □ 8	General purpose control operation			Less digit in length	Greater digit in length
SW-C	OFF ON ● □ 1	Paging			Unavailable	Available
	● □ 2	Emergency all-call paging			Unavailable	Available
	● □ 3	Priority station paging			Unavailable	Available
	● □ 4	Paging zone selection (21 or 45)			45	21
	● □ 5	Paging dial operation			□ ⊗ ⊗	□ ⊗ ⊗ ⊗
	● □ 6	Personal number paging or call			Call	Paging
	● □ 7	Paging response dial operation			□ ⊗ (⊗) ⊗	□ ⊗
	● □ 8	Paging amp delay remote operation			Unavailable	Available
SW-D	OFF ON ● □ 1	Calling party indication or conversation partner indication			Calling party indication	Conversation partner indication
	● □ 2	Calling party indication memory			Unavailable	Available
	● □ 3	2-digit dialling			3 digits	2 digits
	● □ 4	4-digit dialling			3 digits	4 digits
	● □ 5	Numbering schedule			Standard schedule	Programmable
	● □ 6	Call transfer / paging transfer			Unavailable	Available
	● □ 7	Absence transfer			Unavailable	Available
	● □ 8	Function operation			□	⊗
SW-E	OFF ON ● □ 1	1 x Exchange			3 x Exchange	
	● □ 2	EX-1	EX-2 Exchange		EX-3 A	EX-3B
	● □ 3	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3C
	● □ 4	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3B
	● □ 5	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3C
	● □ 6	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3B
	● □ 7	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3C
	● □ 8	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3B
	● □ 9	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3C
	● □ 10	EX-1	EX-2 A	EX-2B	EX-3 A	EX-3B
		In-house pager			Unavailable	Available
		Pager type setting			Tone only	with voice and indication
		Speech message remote hearing			Unavailable	Available
		Idle			(OFF)	—
		Selection of continuous call tone or privacy function when privacy switch is on.			Privacy	Continuous call tone
		Functions			Switch OFF	Switch ON

Note: CP DIP SWITCHES FOR FUNCTION SELECTION

*1 Be sure to place the SW-C-1 (Paging) switch in the ON position when paging and its allied functions are used.

*2 To perform the "Highest Executive Priority" function in Tie-line system, place this switch of each exchange in the ON position.

*3 Turn on this switch of each exchange even if not all the exchanges require paging function in Tie-line system. Otherwise, the exchange with this switch off can not perform all-call paging.

*4 If the small-digit number is selected, the function can be operated without pressing the figure enclosed in parenthesis () in the following example.

Example: ()

*5 Standard (SW-D-5 OFF):

Exchange	A	B	C
Hardwired station number	200~455	470~725	740~995

Programming (SW-D-5 ON):

The first station number of each exchange in order of the exchanges. A, B and C can be set as any of the following numbers:

100/200/300/400/500/600/700/800/900

(Hardwired station number)

For the personal number call, use the station number of 100s.

5. FUNCTION CODE TABLE FOR STATION NO. 200 PROGRAMMING

A. Clearance at one time

Function Group	Function	Function Code	Clearance of Function	Function Registration on All Stations	Clearance of Function by Function Group
S	Numbering schedules of Tie-line system	40	[4] [0] [0] Confirmation tone	X	
	Call tone selection	41	[4] [1] [2] Confirmation tone (Trill tone 0.3 second)		
	Selection of Paging Pre-announcement Tone duration	42	[4] [2] [2] Confirmation tone (Pre- announcement tone 2 seconds)		
	Single-digit dialling key selection	430	[4] [3] [0] Confirmation ([0]) tone		
	Selection of 1st digit of 4-digit dialling	431	[4] [3] [1] Confirmation tone (none)		
	Time-out of Conversation	45	[4] [5] [0] [0] Confirmation tone (No time-out)		
	Time-out of Paging Call	46	[4] [6] [0] [0] Confirmation tone (No time-out)		
	Pager call output digit selection	470	[4] [7] [0] Confirmation tone (2 digits)		
	Pager call function code output mode selection	471	[4] [7] [1] Confirmation tone (output before pager number)		
	Pre-pause time selection	48	[4] [8] [0] Confirmation tone (0.6 second)		
	Number of SM-600 units connected	490	[4] [9] [0] Confirmation tone (No unit connected)		
	Message recording hurry-up tone mode selection	491	[4] [9] [1] Confirmation tone (Hurry-up tone is transmitted)		
	A	Executive Priority	50		
Continuous Calling Tone		51			
Station Allowed Access to All Call		52			
Stations Allowed Access to Conference		53			
Automatic Access to Paging		54			
Stations Allowed Access to One Shot Make Output		56			
Stations Allowed Access to Make/Break Output		57			
Stations Allowed Access to 8 Selectable/Decimal Output	58				
Stations Allowed Access to 4 Decimal Digits Output	59				
B	Secretary Transfer	60	[6] [X] [0] [0] [0] [0] Confirmation tone x : 0, 1, 2 10 times	X	[6] [6] [6] Confirmation tone 10 times (Clears function group B)
	Master/Sub	61			
	Group Hunting	62			
C	Paging Response, Paging Priority	70	[7] [X] [0] [0] [0] [0] Confirmation tone x : 0, 1, 2 10 times	X	[7] [7] [7] Confirmation tone 10 times (Clears function group C)
	Group Blocking of Each Group	71			
	Group of Calling Party Indication	72			

Function Group	Function	Function Code	Clearance of Function	Function Registration on All Stations	Clearance of Function by Function Group	
D	Combination Paging	80		X		
	Group Blocking: Allowing Calls Among Groups	81	 X : 0, 1, 2		 Confirmation tone (Clears function group D)	
	Group Blocking: Allowing Access to Paging Zones	82				
E	Programable Station Numbering	90	 Confirmation tone	X	 Confirmation tone (Clears function group E)	
F	OD-600 Rented line allocation	23	 X : 3~9		X	 Confirmation tone (Clears function group F)
	LD-600 Rented line allocation	24				
	CB-600 Telephone line allocation	25				
	TI-600 Rented line allocation	26				
	CB-600 Telephone line allocation to station group	27				
	Telephone line allocation to city pager	28				
	Fixed speed dialling	29				
G	Handset station	30	 X : 0~2 4~9	X	 Confirmation tone (Clears function group G)	
	Stations Allowed Access to outgoing phone call	31				
	Stations Allowed Access to incoming phone call	32				
	Automatic pager transfer	34				
	Door station	35				
	Stations Allowed to refuse voice call	36				
	Stations Allowed to refuse priority interruption	37				
	Stations Allowed Access to zone paging	38				
Stations Allowed to refuse station paging	39					
*	Personal Number Single Digit Dialing Remote Response	—	X	X	 Confirmation tone (Clears functions of Personal No., Single Digit Dialing and Remote Response)	

B. Programming of System

Function Group	Function	Function Code	Remarks	Operating for Programming	Initially Programmed Mode													
S	Numbering Schedules of Tie-line System Selectable first station number of each exchange	40	The following standard station numbering schedules of the exchanges A, B and C are obtainable. (Hardwired station number)	<table border="1"> <tr> <td>SW-D-5</td> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>OFF</td> <td>200~455</td> <td>470~725</td> <td>740~995</td> </tr> <tr> <td>ON</td> <td>200~455</td> <td>500~755</td> <td>800~999</td> </tr> </table>	SW-D-5	A	B	C	OFF	200~455	470~725	740~995	ON	200~455	500~755	800~999		Standard Station Numbering A/B/C= 200/470/740 (SW-D-5 OFF) or A/B/C= 200/500/800 (SW-D-5 ON)
			SW-D-5		A	B	C											
	OFF	200~455	470~725	740~995														
	ON	200~455	500~755	800~999														
	The first station number of each exchange in order of the exchanges, A, B and C can be set as any of the following numbers: 100/200/300/400/500/600/700/800/900 (Hardwired station number)	First Station No. of Exchange "A" 1-9 (First digit) First Station No. of Exchange "B" 2-9 (First digit) First Station No. of Exchange "C" 3-9 (First digit)																
	Call tone selection	41	Two different calling tones, single note tone or trill note tone, are available in selection for the Hands-free system except the continuous calling tone.	 0: Without Calling Tone 1: Single Note Tone (0.2 sec.) 2: Trill note Tone (0.3 sec.)	Trill note Tone (0.3 sec.)													
	Selection of Paging Pre-announcement Tone Duration	42	You can select the length of time of paging pre-announcement tone.	 0: Without Paging pre-announcement Tone 1: Paging Pre-announcement Tone (1 sec.) 2: Paging Pre-announcement Tone (2 sec.)	Paging Pre-announcement Tone (2 sec.)													
	Single-digit dialling key selection	430	It is possible to operate the single-Digit Dialling with any other dial key than .	 0: 5~9: ~														
	Selection of 1st digit of 4-digit dialling	431	Program the 1st digit for a local exchange under 4-digit dialling, choosing from among the following schedules: 2000/3000/4000/5000/6000/7000/8000/9000	 2~9: ~	---													
	Time-out Conversation	45	Programming is possible so that stations can be disconnected automatically from the speech path in the unit of Minute and the Hurry-up Signal Tone can be heard 10 seconds before the disconnection.	 00: Without Time-out function 01-99: Length limited (minute)	Without Time-out													
Time-out Paging Call	46	Programming is possible so that stations can be disconnected automatically from the Paging circuit in the unit of Minute and the Hurry-up Signal Tone can be heard 10 seconds before the disconnection.	 00: Without Time-out function 01-99: Length limited (minute)	Without Time-out														
Pager call output digit selection	470	The number of digits in length may be selected to call a pager.	 0: 2 digits 1: 3 digits 2: 4 digits	2 digits														
Pager call function code output mode selection	471	Function code transmission order may be selected according to the type of pager.	 0: Output before pager number 1: Output after pager number 2: No output	Output before pager number														
Pre-pause time setting	48	It is possible to set pre-pause time of OD-600, LD-600 and CB-600.	 0: 0.06 sec., 1: 1 sec., 2: 1.5 sec., 3: 2 sec., 4: 2.5 sec., 5: 3 sec., 6: 3.5 sec., 7: 4 sec., 8: 4.5 sec., 9: 5 sec	0.6 sec.														
Number of SM-600 units connected	490	Program the number of the SM-600 units to be connected.	 0: No unit connected 1~4: Number of units connected	No unit connected														
Message recording hurry-up tone mode selection	491	A Hurry-up tone may be transmitted 2 seconds before the programmed recording time in up.	 0: Hurry-up tone is transmitted 1: No Hurry-up tone	Hurry-up tone is transmitted														

C. Programming of each Function

Function Group	Function	Function Code	1st Parameter	2nd Parameter	3rd Parameter	4th Parameter	OPERATING FOR PROGRAMMING	
A	Executive Priority	50	Station No.	ON/OFF (1/0)	X	X	<p>x: 0~4 6~9</p> <p>Station No. (1st) Station No. (2nd)</p> <p>Repeat Repeat</p>	
	Continuous Calling Tone	51	Station No.	ON/OFF (1/0)				
	Station Allowed Access to All Call	52	Station No.	ON/OFF (1/0)				
	Stations Allowed Access to Conference	53	Station No.	ON/OFF (1/0)				
	Automatic Access to Paging	54	Station No.	ON/OFF (1/0)				
	Stations Allowed Access to One Shot Make Output	56	Station No.	ON/OFF (1/0)				
	Stations Allowed Access to Make/Break Output	57	Station No.	ON/OFF (1/0)				
	Stations Allowed Access to 8 Selectable (One Shot Make)/Decimal Output	58	Station No.	ON/OFF (1/0)				
Stations Allowed Access to 4 Decimal Digits Output	59	Station No.	ON/OFF (1/0)					
B	Secretary Transfer	60	Executive Station No.	Secretary Station No.	X	X	<p>x: 0, 1, 2</p> <p>Station No. (1st) Station No. (2nd)</p> <p>Repeat Repeat</p>	
	Master/Sub	61	Sub Station No.	Master Station No.				
	Group Hunting	62	Main station No.	Transferred Station No.				
C	Paging Zone	70	Zone No. (01-15)	The First Station No. of the Zone	The Last Station No. of the Zone	X	X	<p>x: 0, 1, 2</p> <p>Zone No. 01~45 The 1st Station No. The Last Station No. Zone No. 01~45 The 1st Station No. The Last Station No.</p> <p>Group No. 1~8 Group No. 1~8</p> <p>Repeat Repeat</p>
	Group Blocking: Establishment of Each Group	71	Group No. (1-8)	The First Station No. of the Group	The Last Station No. of the Group			
	Group of Calling Party Indication	72	Group No. (1-8)	The First Station No. of the Group	The Last Station No. of the Group			
D	Combination Paging	80	Combination Zone No. (90-99)	Zone No. (s) (01~31) (Plural)	X	X	<p>x: 0, 1</p> <p>Combination Paging No. 90~99 Zone No. (s) 01~31 Group No. of Calling Group Group No. (s) of Called Group Partes 1~8</p> <p>Repeat Repeat</p>	
	Group Blocking: Allowing Calls Among Groups	81	Calling Group No. (1-8)	Called Group No.(s) (1-8) (Plural)				
	Group Blocking: Allowing Access to Paging Zones	82	Paging Zone No. of Paged Group (00-15, 90-99)	Paing Group No.(s) (Plural) (1-8)				
E	Programmable Station Numbering	90	Hardwired Station No. *2	Programmed Station No. *2	X	X	<p>Hardwired Station No. Programmed Station No.</p> <p>Repeat Repeat</p>	
			The First Hardwired Station No. *1	The Last Hardwired Station No. *1				The First Programmed Station No. *2

*1 Station No.'s except Programmed Station No.'s are Hardwired Station No.'s No.100~/200~/300~/400~/470~/500~/600~/700~/740~/800~/900~. 2 digits in the event of 2-digit dialling.

*2 Programmed Station No.: s are No.200~999/No. 100~999. 2 digits in the event of 2-digit dialling.

Function Group	Function	Function Code	1st parameter	2nd parameter	3rd parameter	4th parameter	Dial key operation for programming
F	OD-600 rented line allocation	23	Trunk seizure operation	First subscriber line No.	Last subscriber line No.		
	LD-600 rented line allocation	24	Trunk seizure operation	First subscriber line No.	Last subscriber line No.		
	CB-600 telephone line allocation	25	Trunk seizure operation	Incoming call catch operation	First subscriber line No.	Last line No.	
	TI-600 rented line allocation	26	Trunk seizure operation	First subscriber line No.	Last subscriber line No.		
	CB-600 telephone line allocation to station group	27	Paging zone No. (01 to 45)	First subscriber line No.	Last subscriber line No.	Ringing tone transmission mode (0/1)	
	Telephone line allocation to city pager	28	Trunk seizure operation	Subscriber line No.			
	Fixed speed dialling	29	Speed dial (20~99)	Phone No. registered for this function (up to 40 digits)			
G	Handset station	30	Station No.	ON/OFF (1/0)			
	Restricted outgoing call	31	Station No.	ON/OFF (1/0)			
	Restricted incoming call	32	Station No.	ON/OFF (1/0)			
	Automatic pager transfer	34	Station No.	ON/OFF (1/0)			
	Door station	35	Station No.	ON/OFF (1/0)			
	Restricted PTT call	36	Station No.	ON/OFF (1/0)			
	Restricted PTT call	37	Station No.	ON/OFF (1/0)			
	Restricted zone paging	38	Station No.	ON/OFF (1/0)			
	Restricted priority station paging	39	Station No.	ON/OFF (1/0)			

*1. Unless otherwise stated, the station No. is the hardwired station No.100~200~300~400~470~500~600~700~740~800~900~ (2 digits in the event of 2-digit dialling).

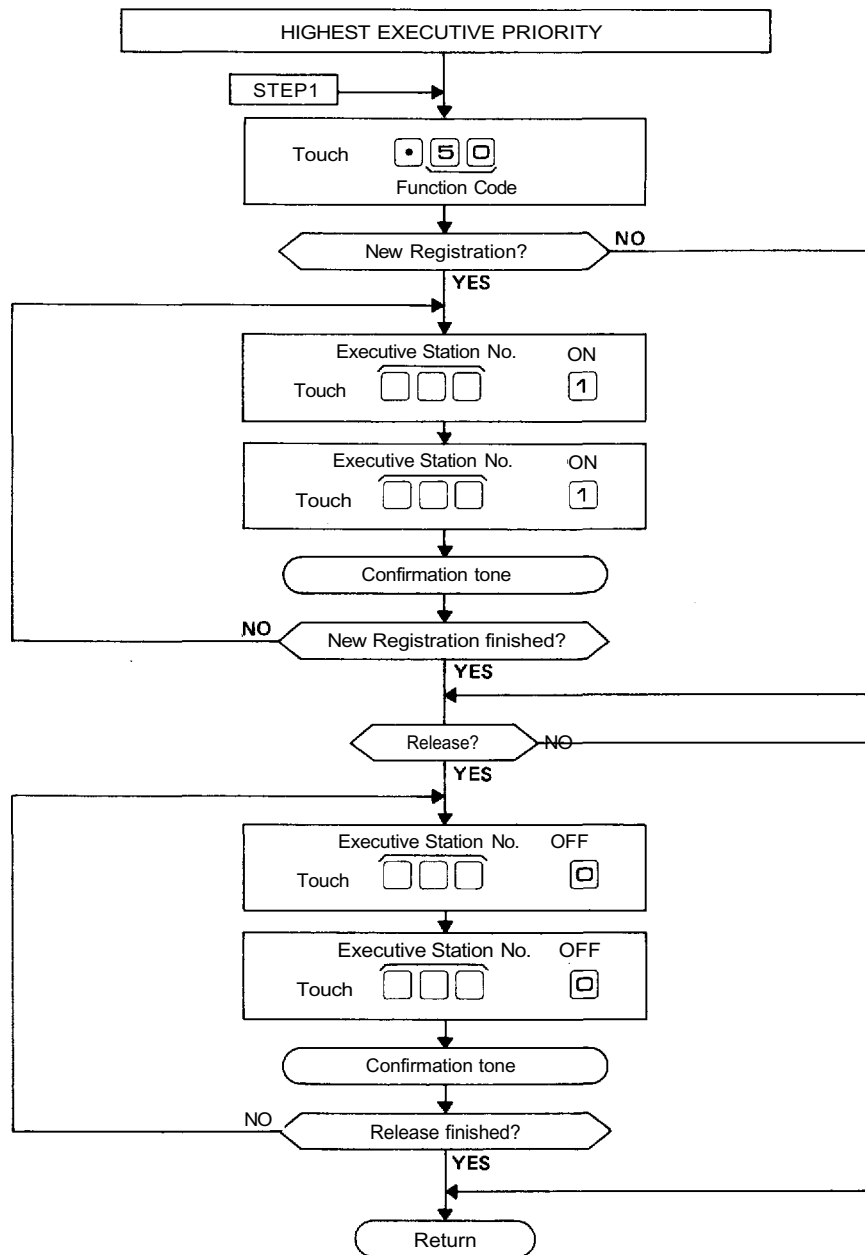
*2. The programmed station No. is No.200 to No.999/No.100 to No.999. (2 digits in the event of 2-digit dialling)

*3. Unless otherwise stated, the number available for trunk seizure operation and incoming call catch operation is 0, 2 to 9, and 20 to 99. To achieve both operations by dialling a single digit, press **X** (PTT). (x : 0 and 2 to 9)

*4. The subscriber line No. is 0 to 15 (0 to 7 for EX-610).

6. STATION NO. 200 PROGRAMMING FOR EACH FUNCTION

6-1 EXECUTIVE PRIORITY (HIGHEST EXECUTIVE PRIORITY)-(FUNCTION CODE 50)



NOTES

- To allow all the stations to have this function,

Touch (Confirmation tone will be heard.)
10 times

Be sure to depress the key steadily.

- To release at one time the data programmed into all the stations for this function,

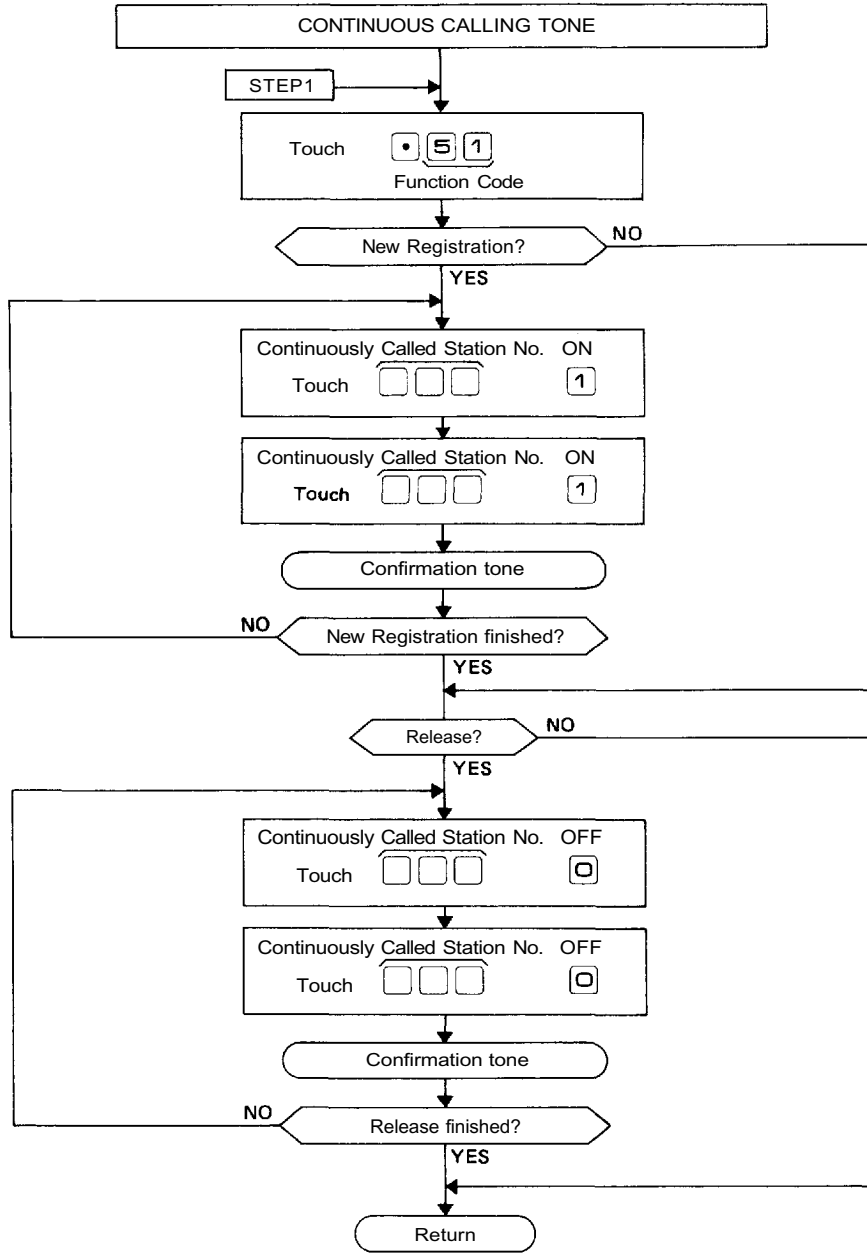
Touch (Confirmation tone will be heard.)
10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- CP DIP switch B-5 must be "ON" to employ this function.

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-2 CONTINUOUS CALLING TONE (FUNCTION CODE 51)



NOTES

- To allow all the stations to have this function,

Touch * 5 1 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to depress the PTT key steadily.

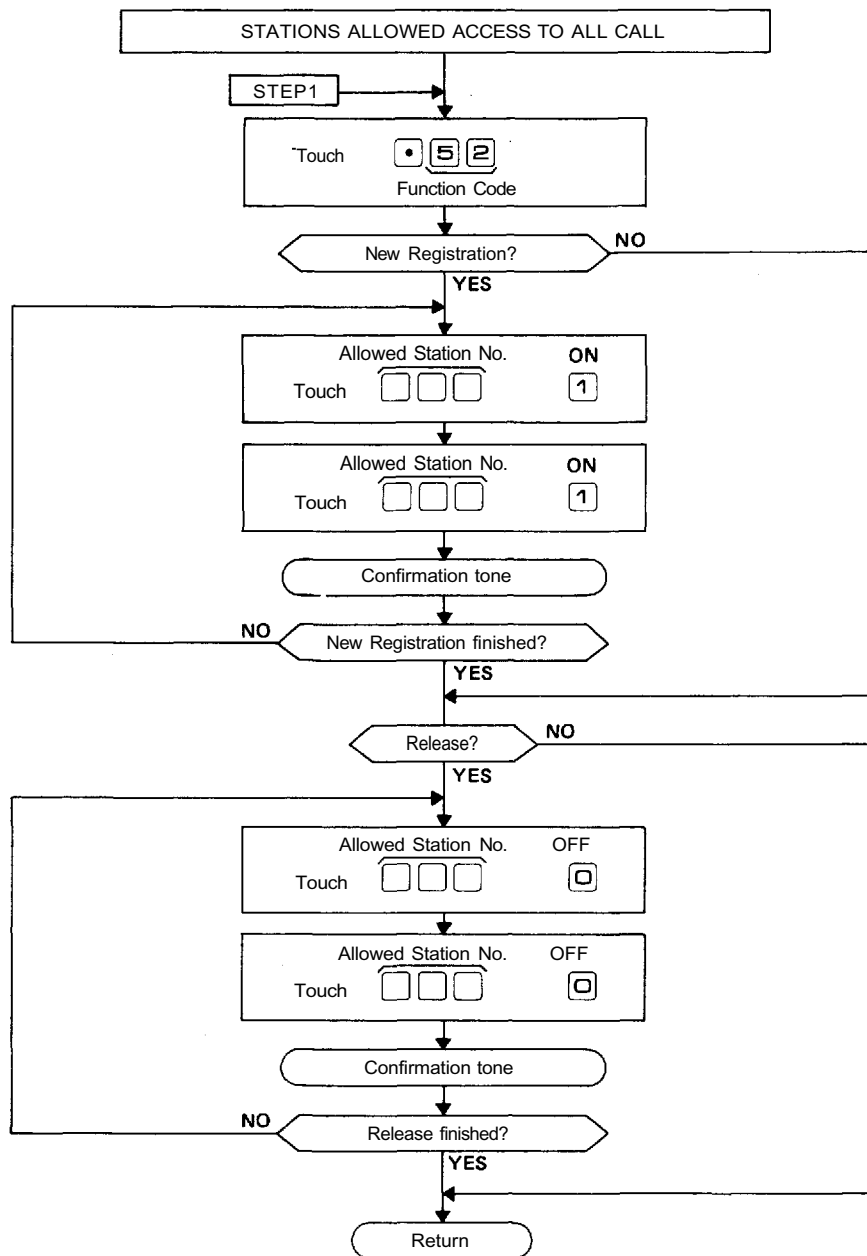
- To release at one time the data programmed into all the stations for this function,

Touch * 5 1 0 0 ... 0 (Confirmation tone will be heard.)
10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-3 STATIONS ALLOWED ACCESS TO ALL CALL (FUNCTION CODE 52)



NOTES

1. To allow all the stations to have this function,

Touch [5][2] [PTT][PTT]...[PTT] (Confirmation tone will be heard.)
10 times

Be sure to depress the [PTT] key steadily,

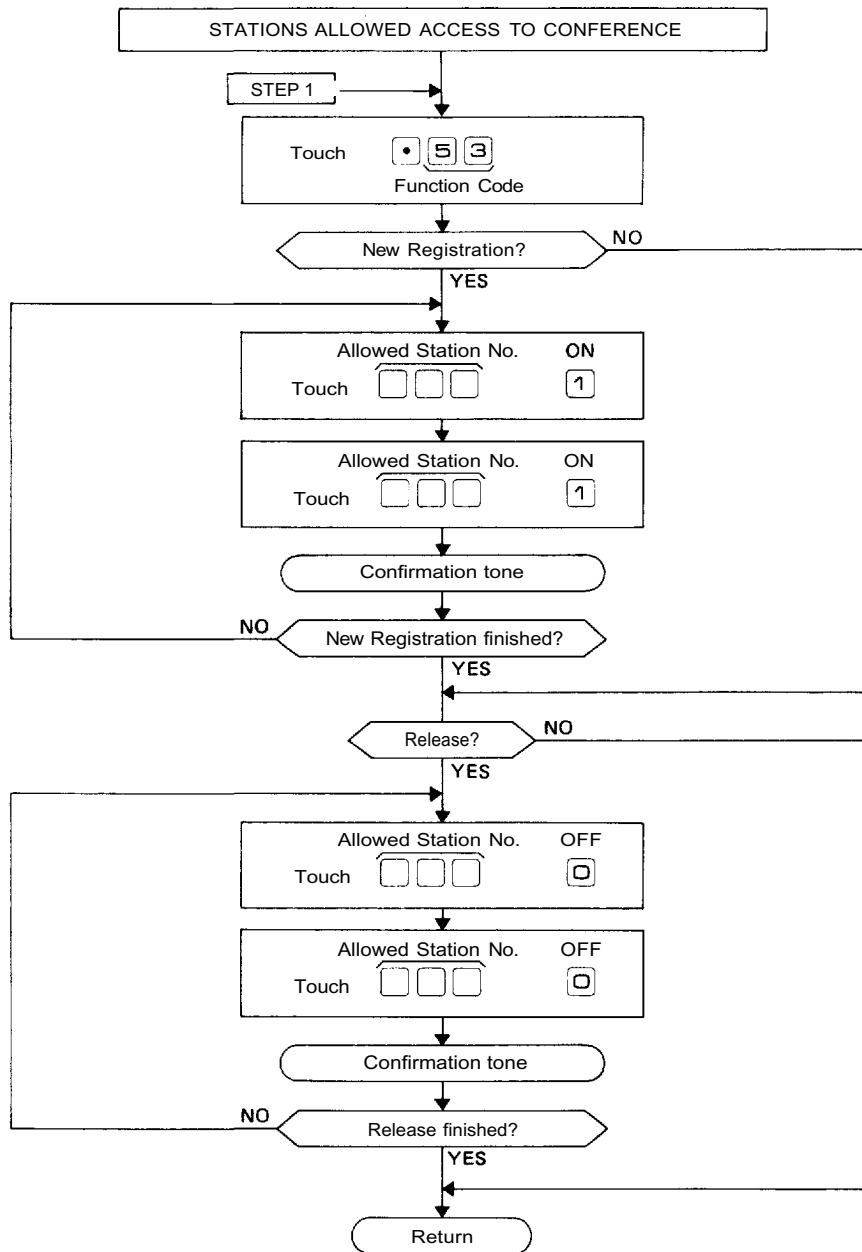
2. To release at one time the data programmed into all the stations for this function,

Touch [5][2][0][0]...[0] (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-4 STATIONS ALLOWED ACCESS TO CONFERENCE (FUNCTION CODE 53)



NOTES

- To allow all the stations to have this function,

Touch 5 3 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to depress the PTT key steadily.

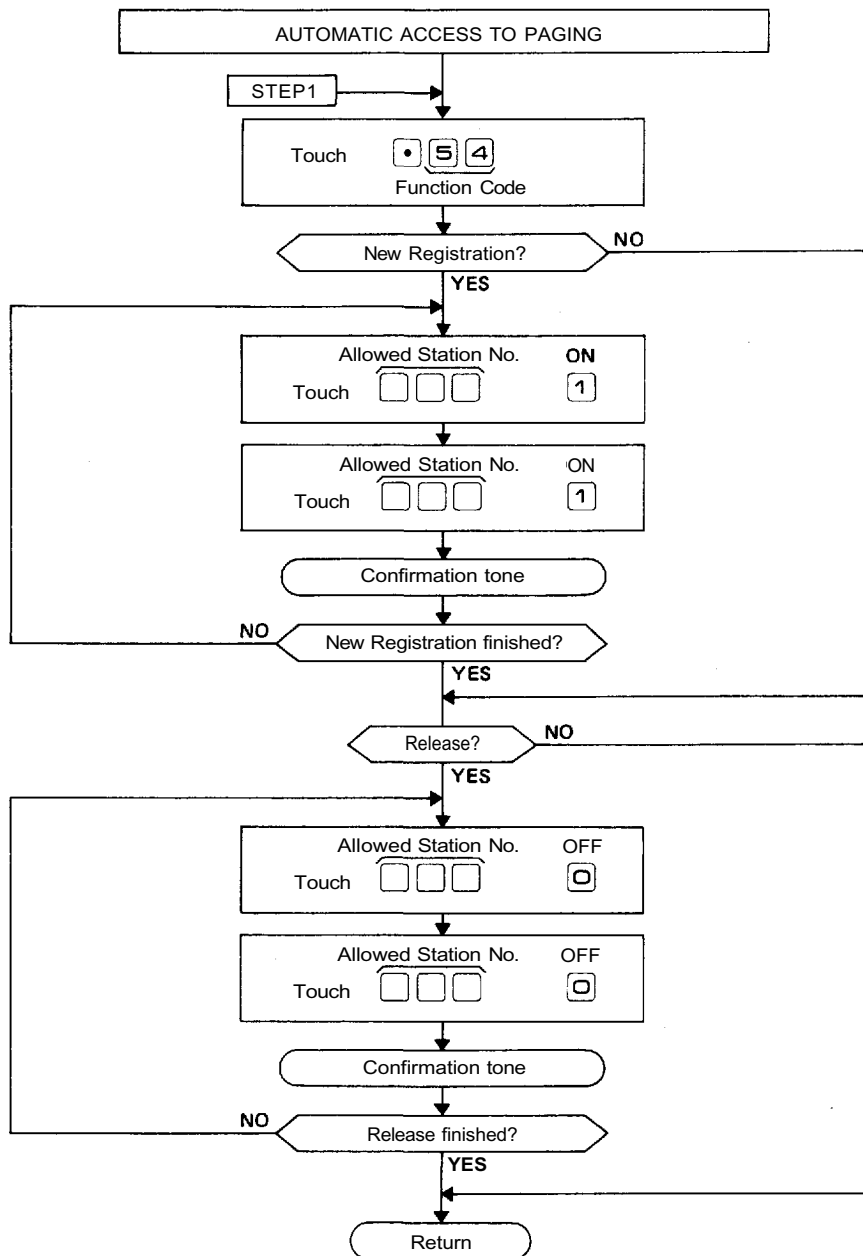
- To release at one time the data programmed into all the stations for this function,

Touch 5 3 0 0 ... (Confirmation tone will be heard.)
10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-5 AUTOMATIC ACCESS TO PAGING (FUNCTION CODE 54)



NOTES

1. To allow all the stations to have this function,

Touch 5 4 PTT PTT ... PTT
10 times (Confirmation tone will be heard.)

Be sure to depress the PTT key steadily.

2. To release at one time the data programmed into all the stations for this function,

Touch 5 4 0 0 ... 0
10 times Confirmation tone will be heard.)

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

COMPLEMENTARY NOTES

(1) Automatic Access to Paging

This function facilitates Paging / Paging response from a Substation TL-600S. Just picking up the Handset of Substation automatically activates Paging or Paging Response mode.

(2) Required Programming for Automatic Access to Paging from Handset Substation.

- 2-1) First, connect a Master Station HF-200 or TL-600M in place of a Substation TL-600S.
- 2-2) Register at that station such functions as Paging, Paging Response, Personal number call, etc. desired to be operated under Single Digit Dialing.
- 2-3) Then, replace the Master Station with a Substation TL-600S.
- 2-4) Program "Automatic Access to Paging from Handset Substation (Function Code 54)" at the Station No. 200 according to the programming instructions.

(3) Single Digit Dialing and Automatic Access to Paging

Single digit of a station call, personal call, paging or paging response can be accomplished by one-touch dialing from any master station registered for this function. To accomplish Automatic Access to Paging by simply lifting the handset, station No.200 programming for Function Code 54 is required.

(4) Call to Master Station from Handset Station or from Hands free/Handset Station

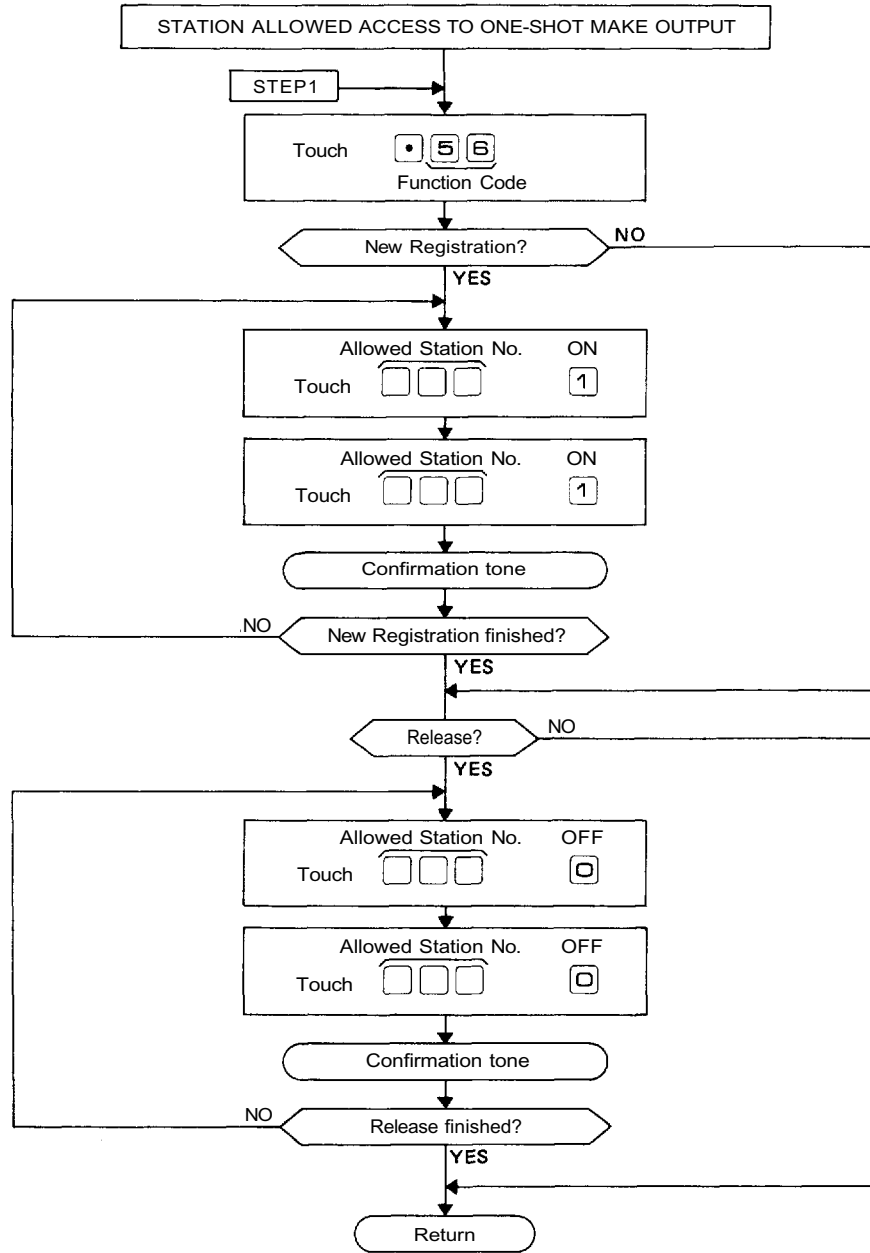
The TL-600S handset or handsfree/handset substation can be registered for Master/Sub Relationship. Once this relationship has been established, the substation can be connected to its designated master station by either one-touch dialing or by merely lifting the handset. If the HF-600S station is used and it is desirable that it can call the master station by simply lifting the handset, set its Privacy switch to ON.

(5) Call by Dialing & Picking up the Handset

Function	Necessary Programming	Call to Master Station		Paging Call, Paging Response or Personal Number Call	
		By dialing <input type="checkbox"/>	By picking up Handset	By dialing <input type="checkbox"/>	By picking up Handset
Single Digit Dialing *1	Single Digit Registration at Station	(O)	X	O	X
Master/sub Relationship *2	Programming at Station No. 200 (Function Code 61)	O	O	X	X
Automatic Access to Paging (or Calling) from Handset Substation *1	1. Single Digit Registration at Station 2. Programming at Station No.200 (Function Code 54)	(O)	(O)	O	O

- Note. O : Possible
 X : Impossible
 (O) : Possible but usually Not to be used
 *1 : Possible across the tie-lined exchange.
 *2 : Impossible across the tie-lined exchange.

6-6 STATIONS ALLOWED ACCESS TO ONE-SHOT MAKE OUTPUT (FUNCTION CODE 56)



NOTES

1. To allow all the stations to have this function,

Touch 5 6 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to depress the PTT key steadily.

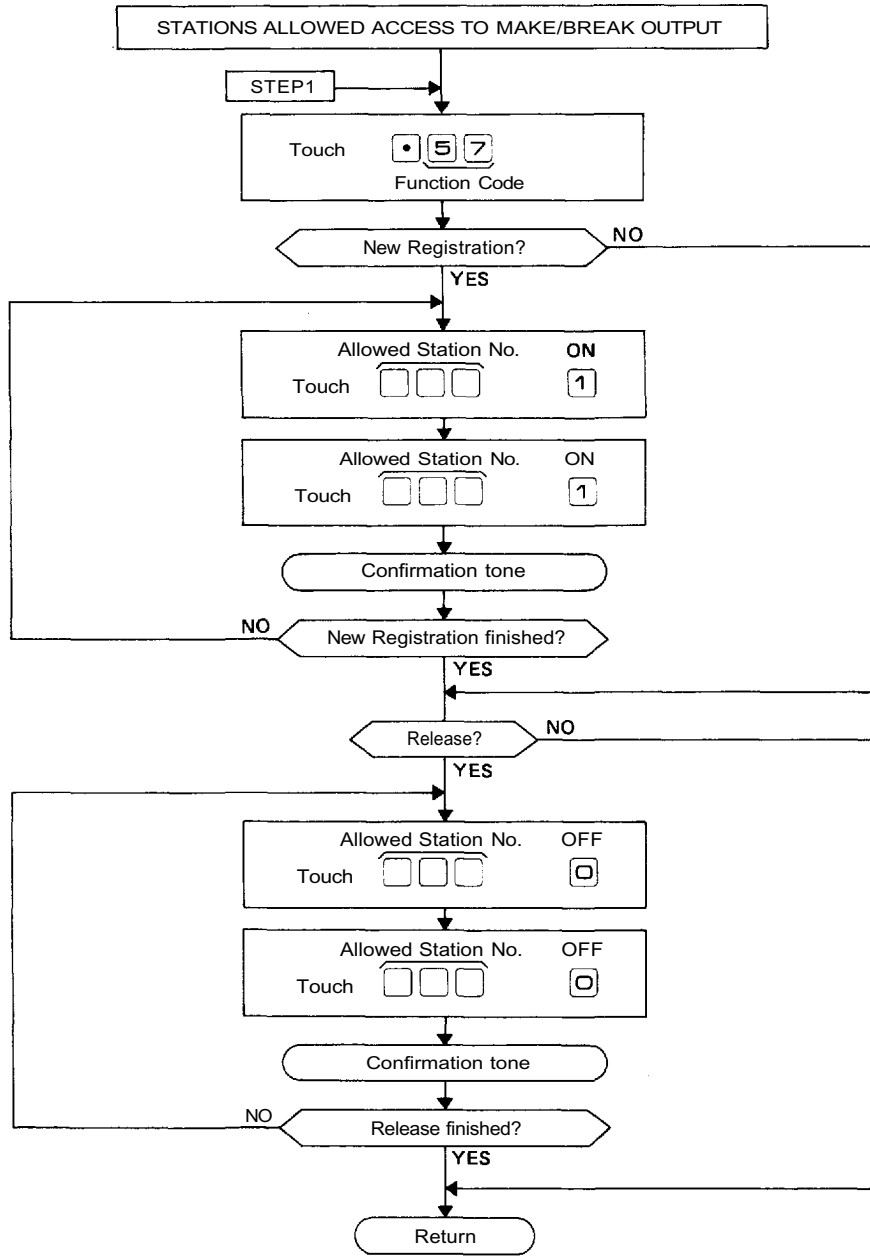
2. To release at one time the data programmed into all the stations for this function,

Touch 5 6 0 0 ... 0 (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-7 STATIONS ALLOWED ACCESS TO MAKE/BREAK OUTPUT (FUNCTION CODE 57)



NOTES

- To allow all the stations to have this function,

Touch 5 7 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to depress the PTT key steadily.

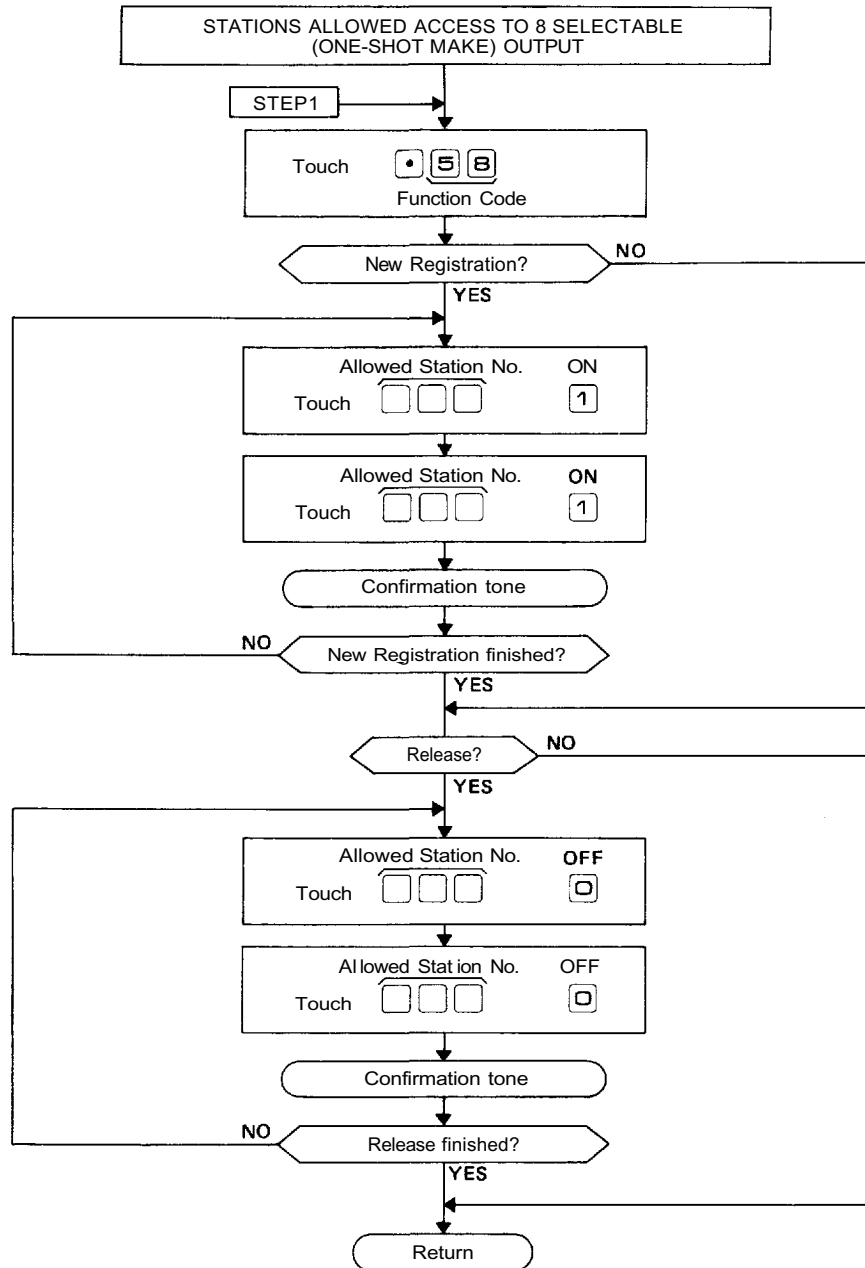
- To release at one time the data programmed into all the stations for this function,

Touch 5 7 0 0 ... 0 (Confirmation tone will be heard.)
10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-8 STATIONS ALLOWED ACCESS TO 8 SELECTABLE (ONE-SHOT MAKE) OR DECIMAL OUTPUT (FUNCTION CODE 58)



NOTES

- To allow all the stations to have this function,

Touch [5][8] [PTT][PTT] ... [PTT] (Confirmation tone will be heard.)
10 times

Be sure to depress the [PTT] key steadily.

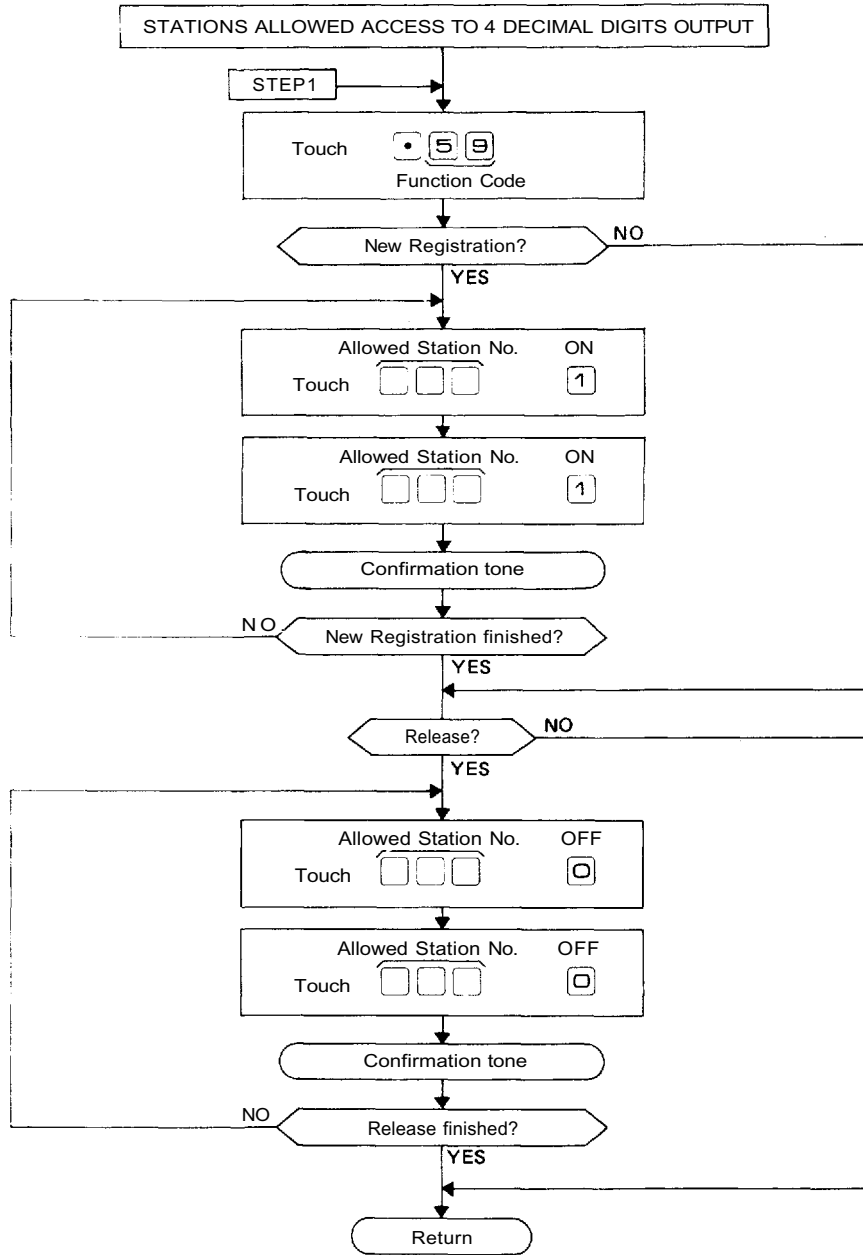
- To release at one time the data programmed into all the stations for this function,

Touch [5][8][0][0] ... [0] (Confirmation tone will be heard.)
10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-9 STATIONS ALLOWED ACCESS TO 4 DECIMAL DIGITS OUTPUT (FUNCTION CODE 59)



NOTES

- To allow all the stations to have this function,

Touch • 5 9 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to decrease the PTT key steadily.

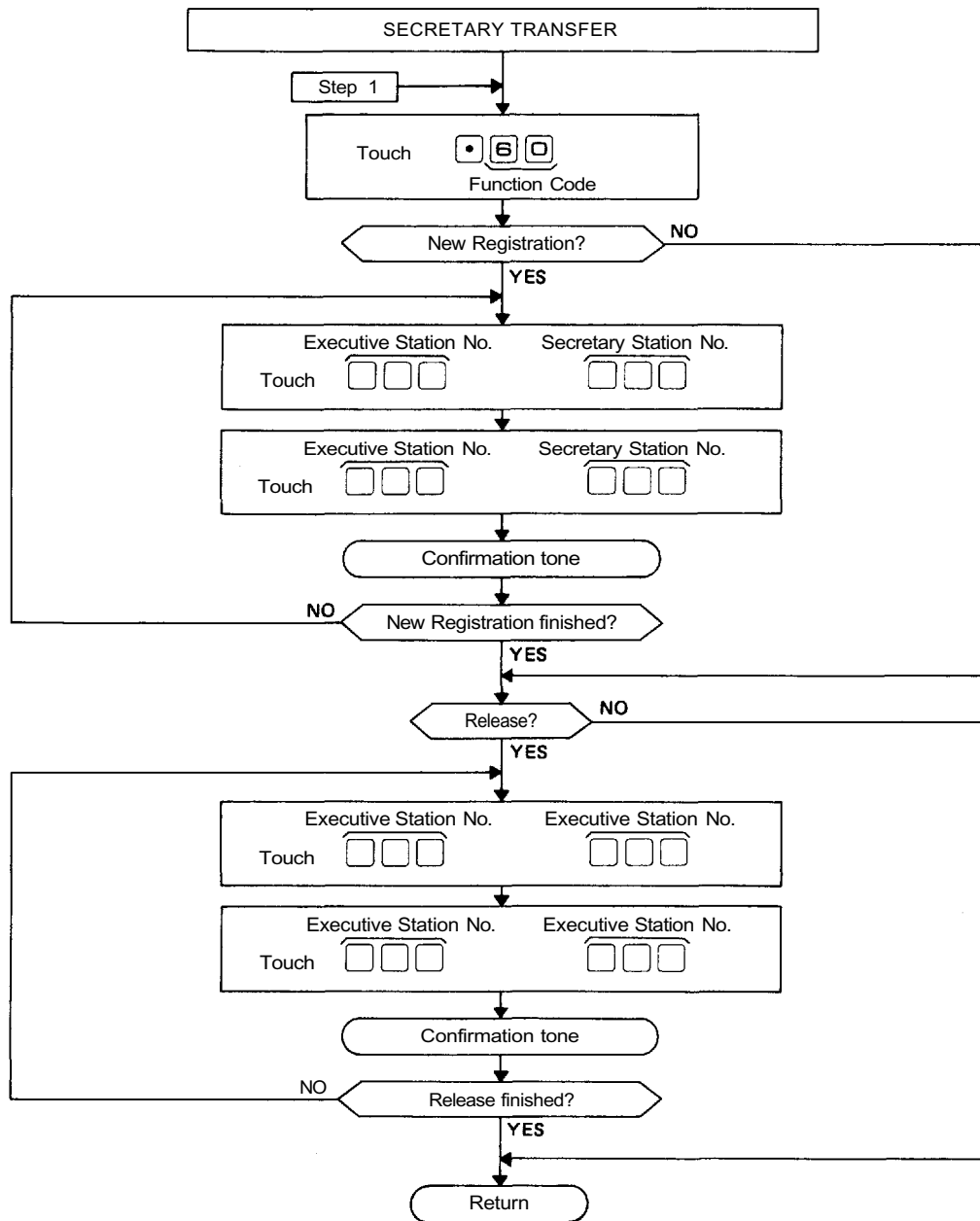
- To release at one time the data programmed into all the stations for this function,

Touch • 5 9 0 0 ... 0 (Confirmation tone will be heard.)
10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-10 SECRETARY TRANSFER (FUNCTION CODE 60)



NOTES

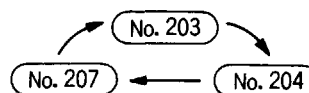
- To release at one time the data programmed into all the stations for this function,

Touch [•][6][0][0][0]... [] (Confirmation tone will be heard.)
 10 times

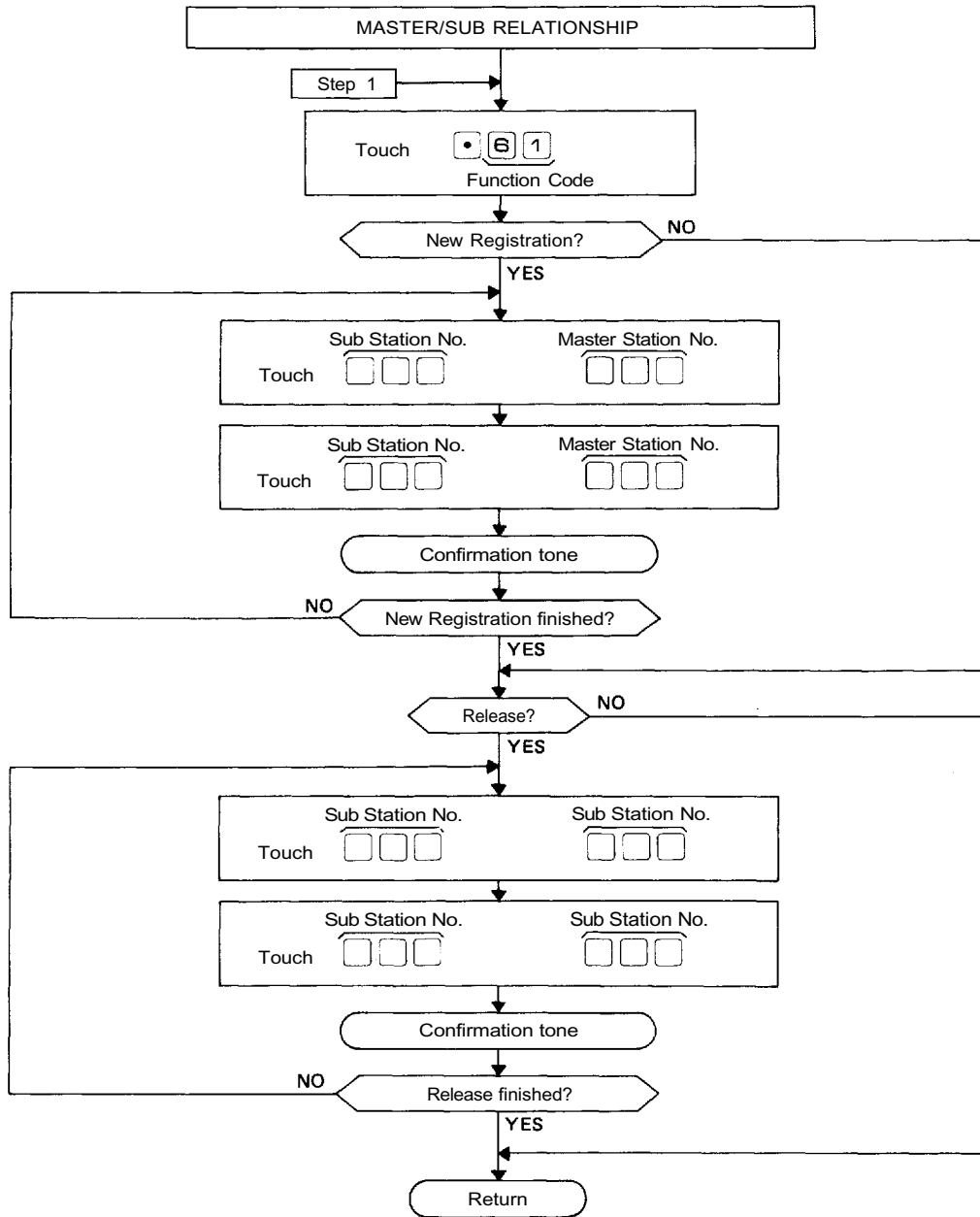
- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

- Programming of Secretary Transfer can be made in a daisy chain method. For their examples, refer to the following sketch.



6-11 MASTER/SUB RELATIONSHIP (FUNCTION CODE 61)



NOTES

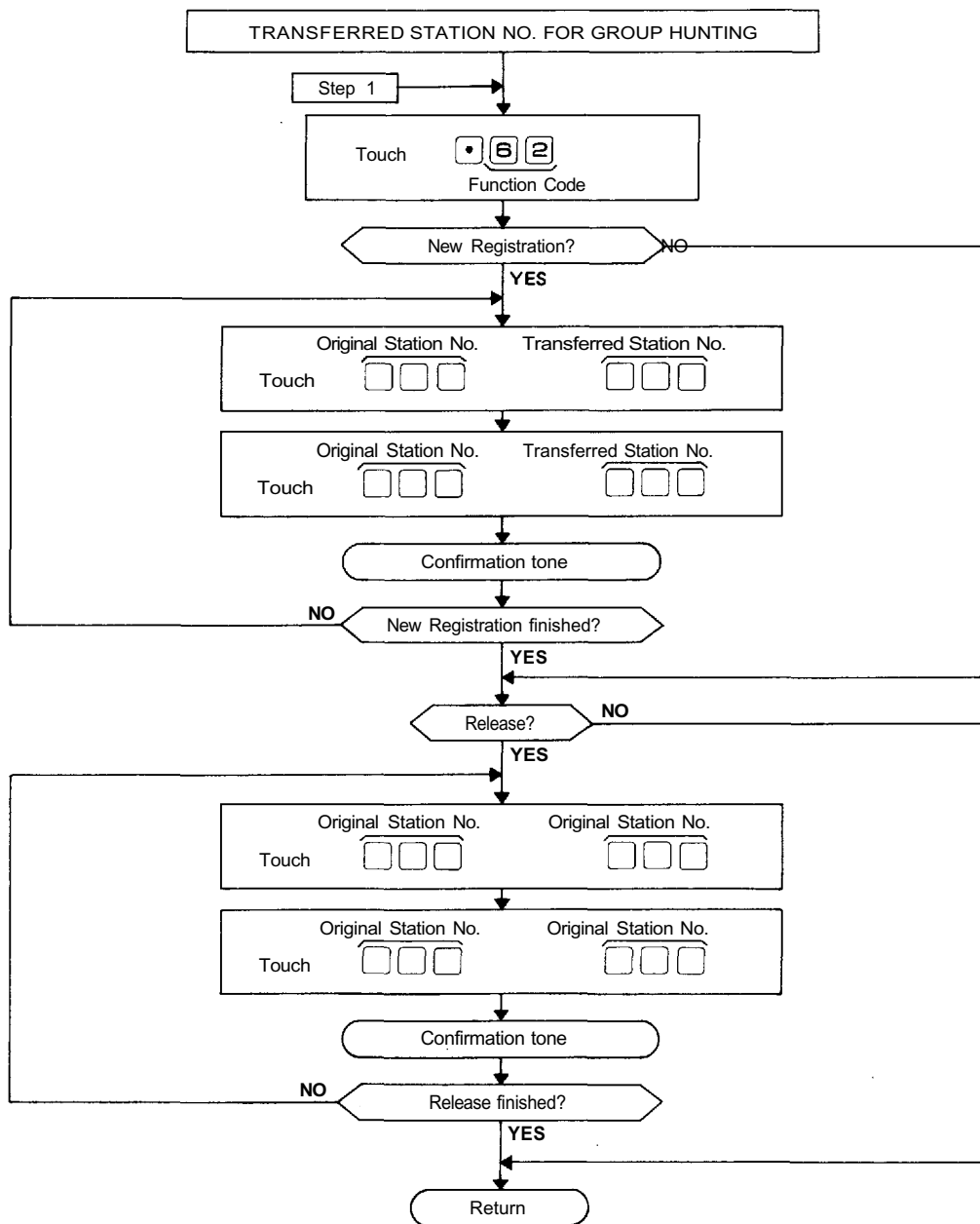
1. To release at one time the data programmed into all the stations for this function,

Touch • 6 1 0 0 ... 0 (Confirmation tone will be heard.)
10 times

2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

3. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-12 GROUP HUNTING (FUNCTION CODE 62)



NOTES

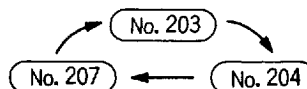
1. To release at one time the data programmed into all the stations for this function,

Touch [6] [2] [0] [0] ... [0] (Confirmation tone will be heard.)
10 times

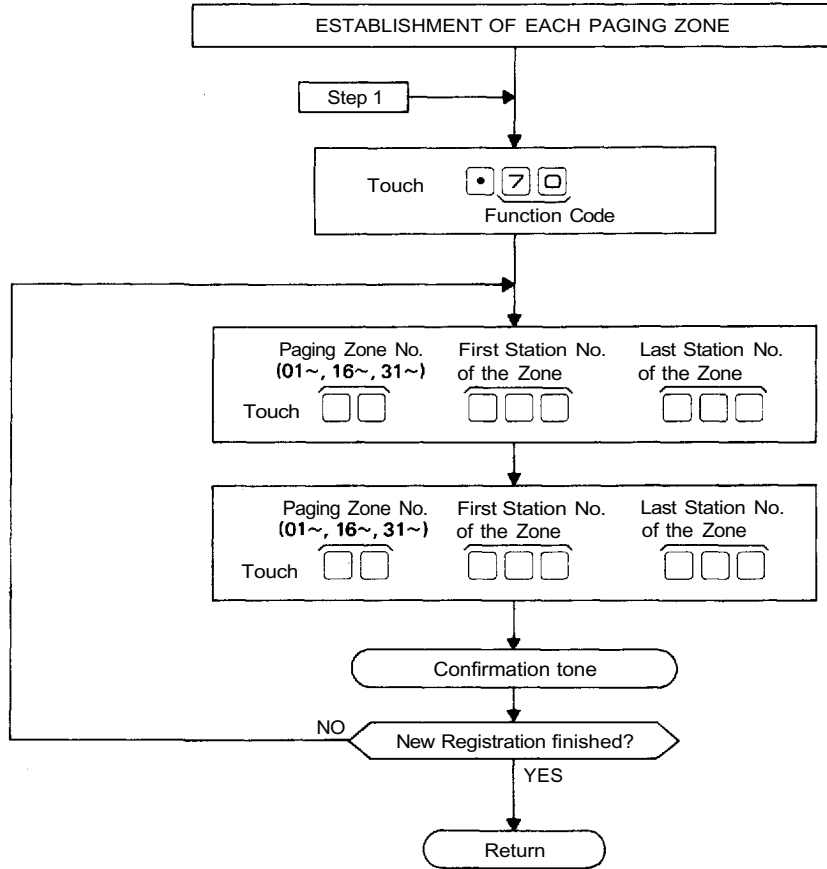
2. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

3. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

4. Programming of Group Hunting can be made in a daisy chain method. For their examples, refer to the following sketch.



6-13 PAGING ZONE (FUNCTION CODE 70)



NOTES

- To release at one time the data programmed into all the Zones for this function,

Touch [•] [70] [] [] [] [] [] (Confirmation tone will be heard.)
10 times

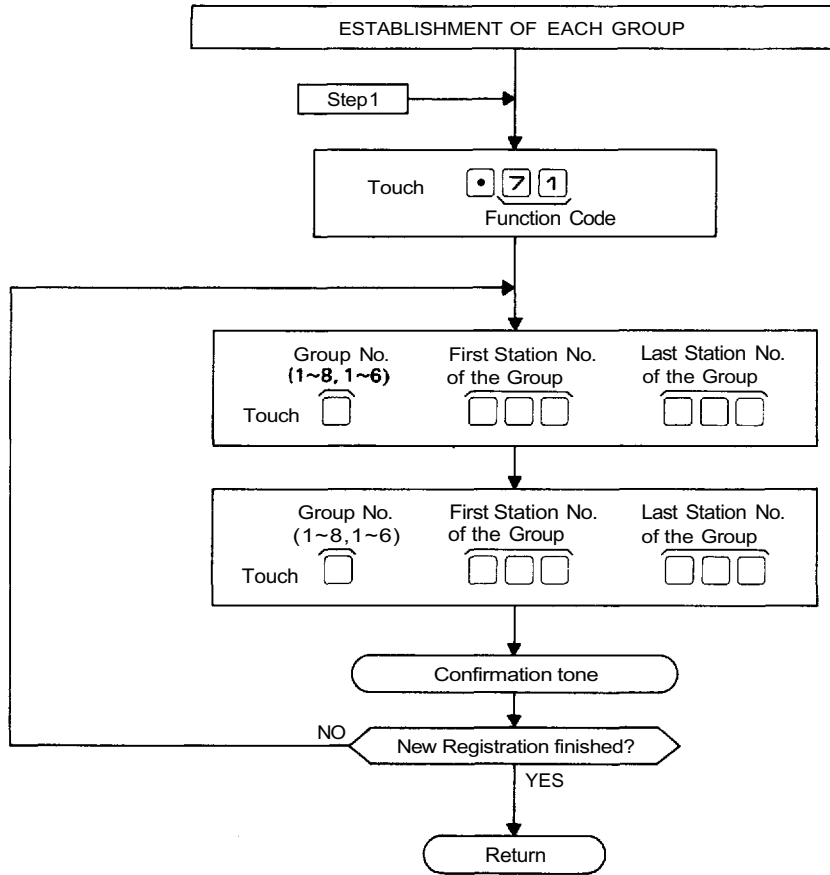
- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- Switch C-1 must be "ON" to employ this function.
- Also dial 2 digits (01 to 07) to programme the system having paging zones 1 to 7.
Ex. Zone No.7. [] [7]

- When "Paging Response Without Zone Number" mode ([•] [] , [•] []) is selected by the DIP Switch SW-C-7, this registration is essential.

- When "Paging Priority" function is adopted by the DIP Switch SW-C-3, this registration should be made for each Paging Zone of No.01 to No.31.
- The programming is required for zones 01 to 31 when the telephone line interface is in use.
- Zone numbers of each exchange in Tie-line system.
Exchange "A" ----- No.01~15
Exchange "B" ----- No.16~30
Exchange "C" ----- No.31~45
- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-14 GROUP BLOCKING 1 : ESTABLISHMENT OF EACH GROUP (FUNCTION CODE 71)

GROUP BLOCKING 1



NOTES

- 1. To release at one time the data programmed into all the groups for this function,

Touch 7 1 0 0 0 (Confirmation tone will be heard.)
10 times

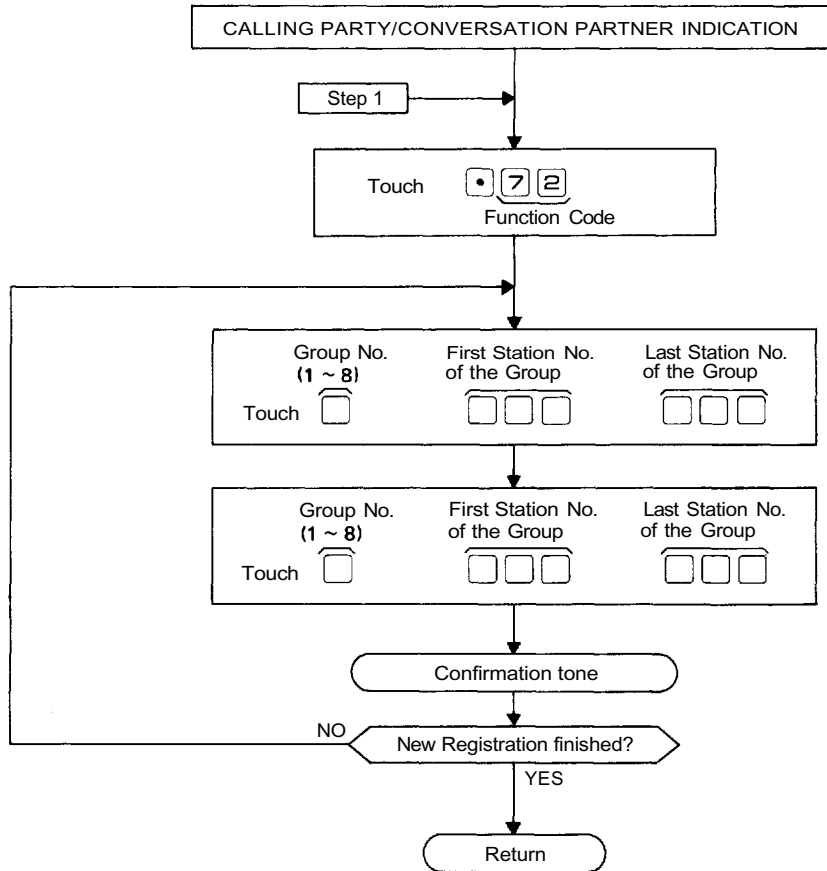
- 2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

- 3. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

- 4. Group No.
Single exchange No.1 ~8
Tie-line exchange No.1 ~6

6-15 CALLING PARTY/CONVERSATION PARTNER INDICATION (LAMP TYPE) (FUNCTION CODE 72)

Registration of station number(s) having indication panel.



NOTES

1. To release at one time the data programmed into all the groups for this function,

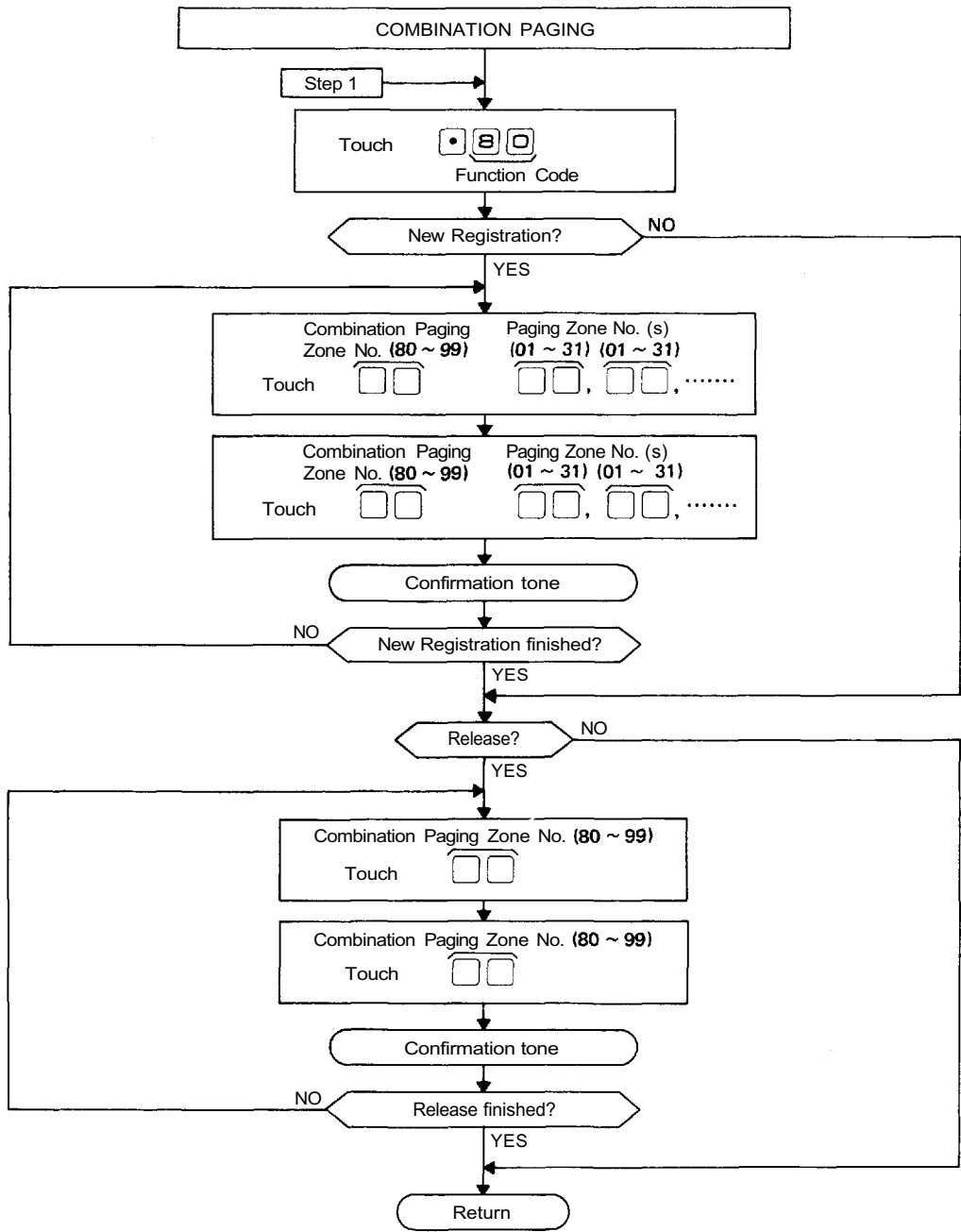
Touch *72 [] [] ... [] (Confirmation tone will be heard.)
10 times

2. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

3. When the Indication Panel is set up only for one (1) station, you should write the station number in both "First Station No." and "Last Station No." columns.

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-16 COMBINATION PAGING (FUNCTION CODE 80)



NOTES

1. To release at one time the data programmed into all the Zones for this function,
3. CP DIP switch C-1 must be "ON" to employ this function.

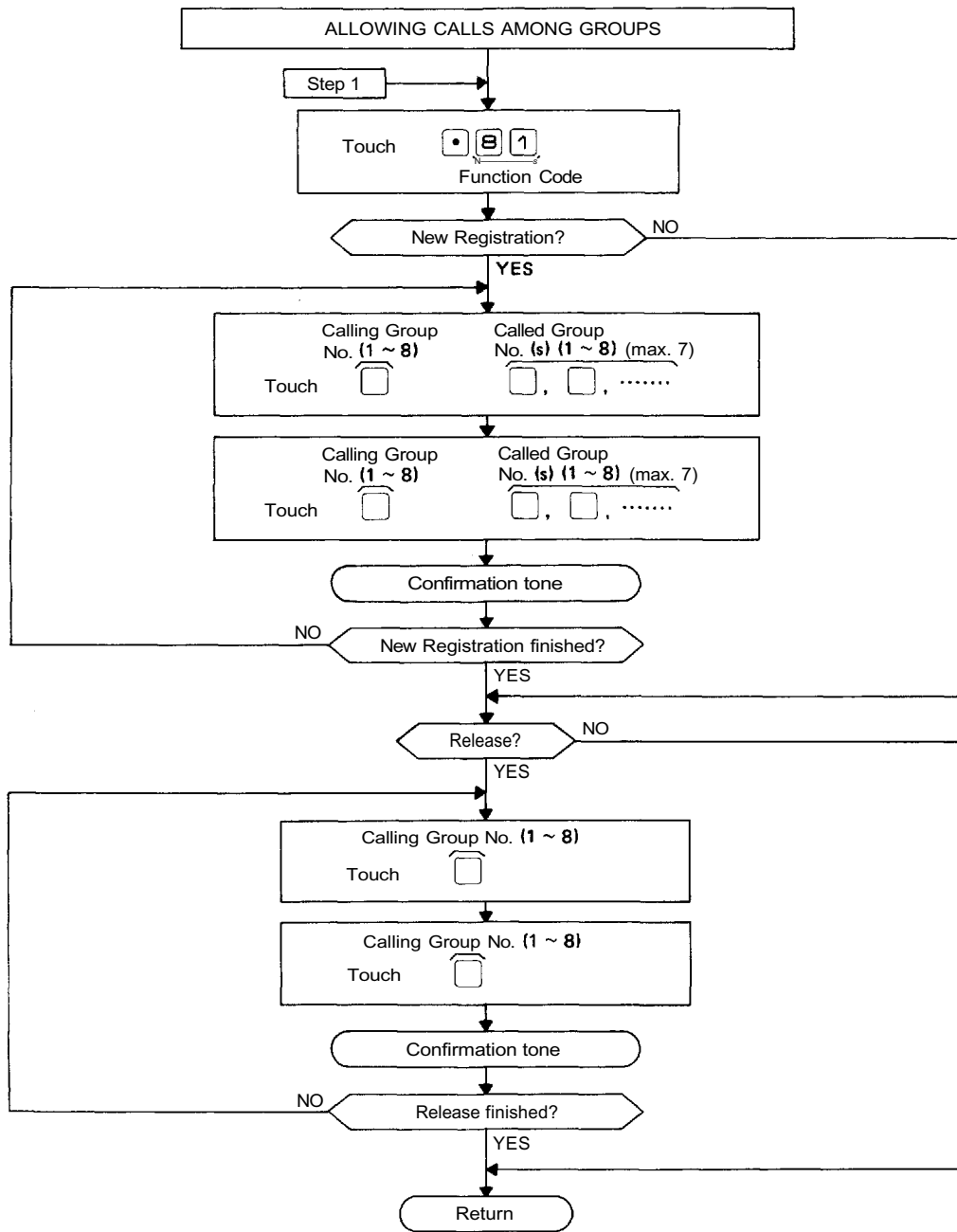
Touch • 8 0 0 0 0 0 (Confirmation tone will be heard.)

10 times

2. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

6-17 GROUP BLOCKING 2 : ALLOWING CALLS AMONG GROUPS (FUNCTION CODE 81)

GROUP BLOCKING 2



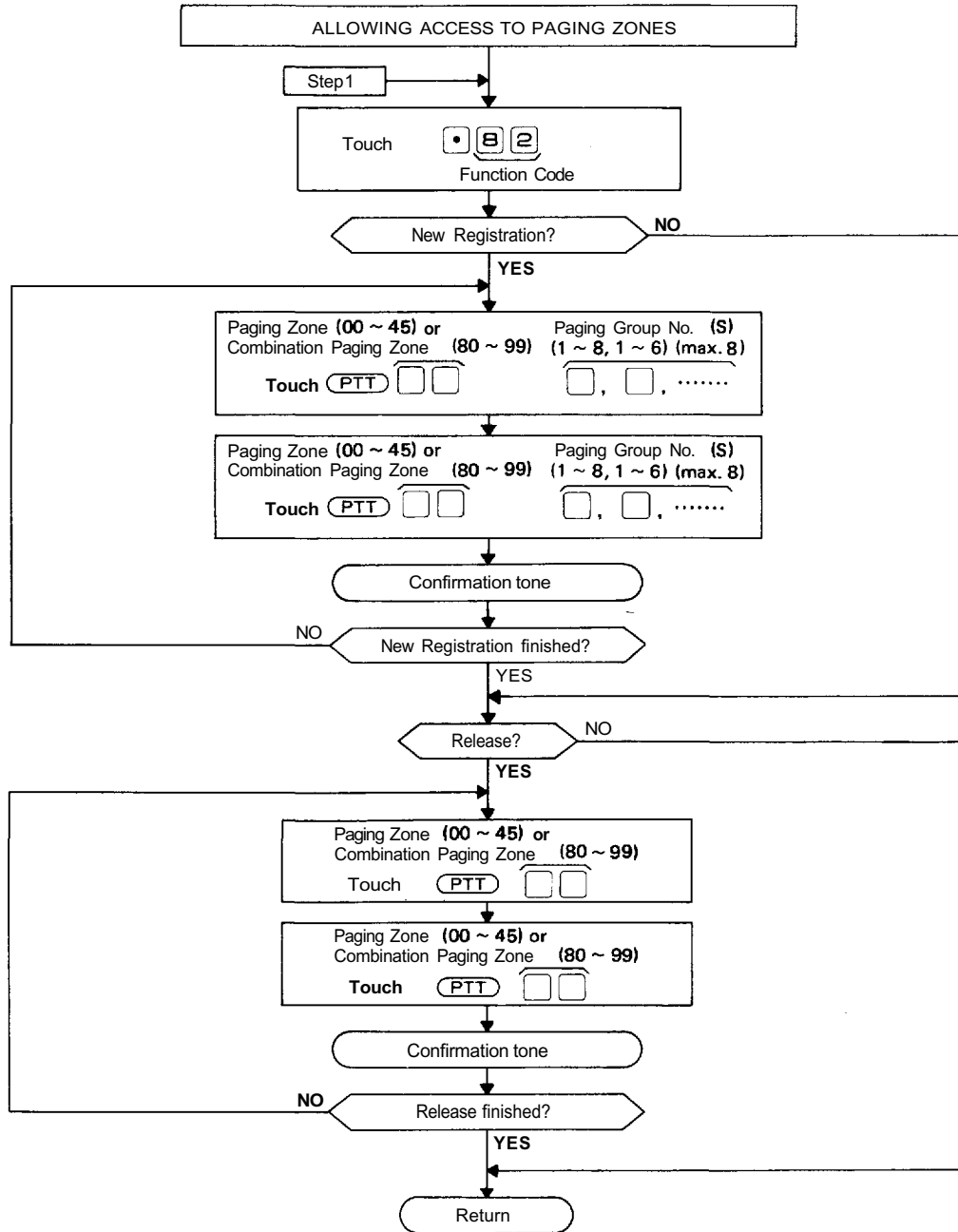
NOTES

- 1. To release at one time the data programmed into all the groups for this function,
- 2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)
- 3. Do not assign the same group to both the calling and called groups.

Touch [* 8 1] [] [] ... [] (Confirmation tone will be heard.)
10 times

6-18 GROUP BLOCKING 3 : ALLOWING GROUP ACCESS TO PAGING (FUNCTION CODE 82)

GROUP BLOCKING 3



NOTES

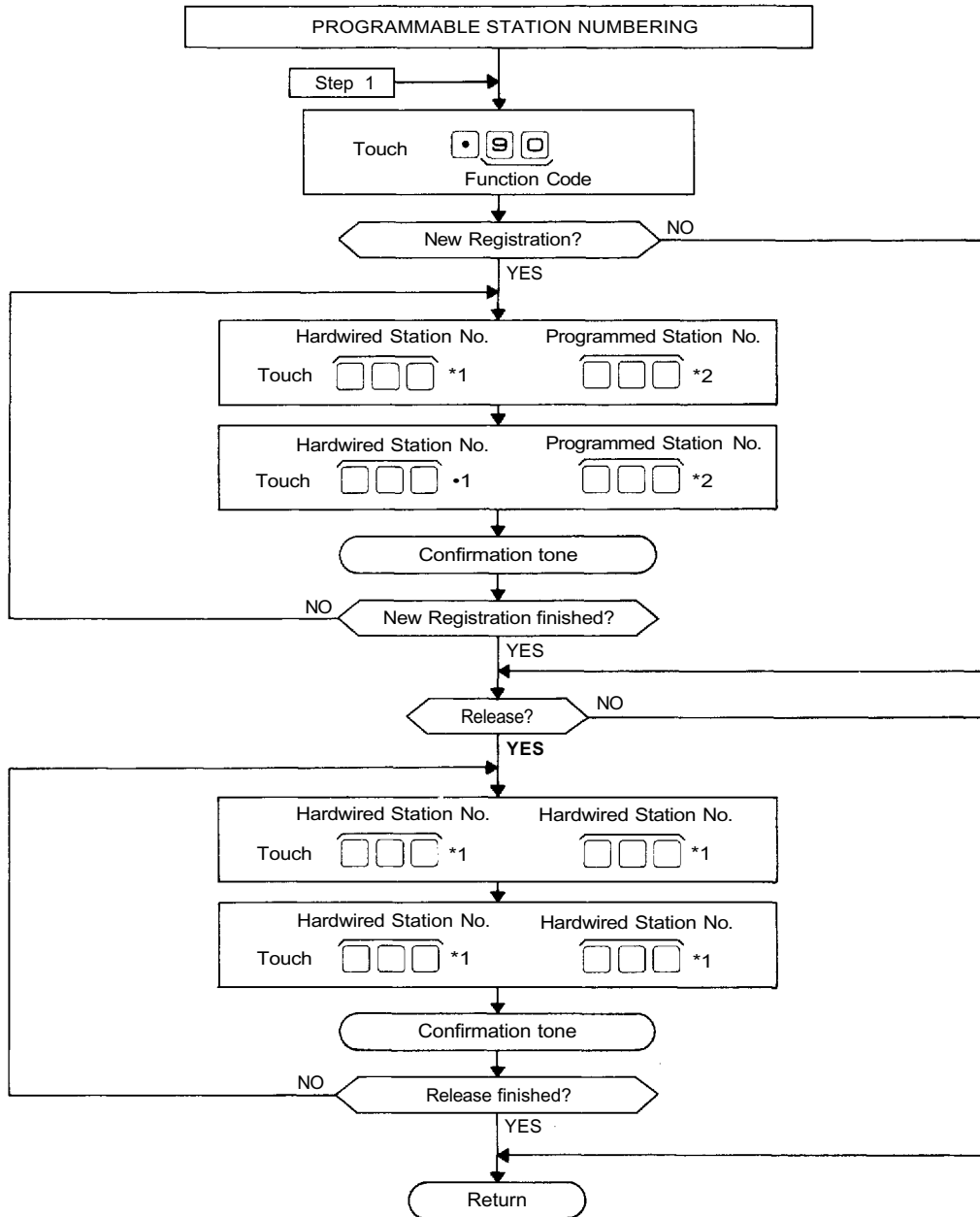
1. To release at one time the data programmed into all the groups for this function,

Touch (Confirmation tone will be heard.)
10 times

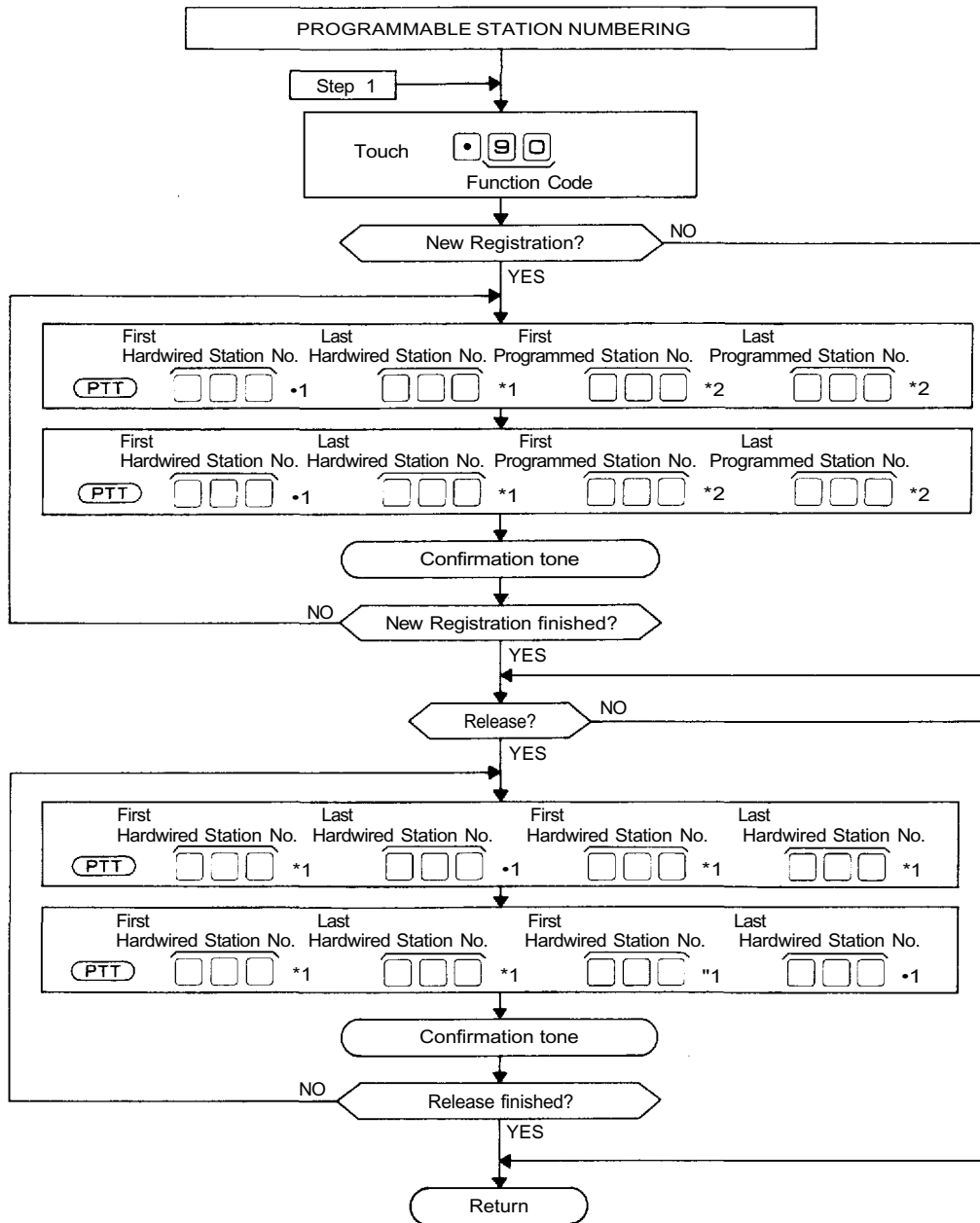
3. Group No.
Single exchange No.1 ~ 8
Tie-line exchange No.1 ~ 6

2. Re-start at Step 1 when mis-dialing occurs
(All other registrations remain valid.)

6-19 PROGRAMMABLE STATION NUMBERING (FUNCTION CODE 90)
A. Programming of Single Station Number



B. Programming of Consecutive Station Numbers



NOTES

- To release all registered Programmed Station No.'s at one time.
 - Any one Programmed Station No. cannot be assigned to more than one Hardwired Station.
 - Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.
- Touch ... (Confirmation tone will be heard.)
10 times

C. Limitation of change of station numbering

It is possible to change station numbering within a range of station numbering programmed for exchanges A, B, and C in the head number establishment of tie-line numbering schedule (p17).

Restriction of station numbers (*1) and (*2)

<Example 1> With personal number (Standard)

Exchange	Hardwired Station No.	Programmed Station No.
A	200~455	200~469
B	470~725	470~739
C	740~995	740~999

<Example 2> Without personal number

Exchange	Hardwired Station No.	Programmed Station No.
A	100~355	100~399
B	400~655	400~699
C	700~955	700~999

<Example 3>

Exchange	Hardwired Station No.	Programmed Station No.
A	200~455	200~499
B	500~755	500~799
C	800~999	800~999

<Functions and Operating Procedures of External Interface System>

External interfaces

1. Types of external interfaces

The external interfaces are classified into four types: OD interface, LD interface, CB interface, and Tie-line interface (depending upon their external equipment).

- (1) The OD interface is connected to an OD trunk of PBX via 4 wires.
- (2) The LD interface is connected to an LD trunk of PBX via 2 wires.
- (3) The CB interface is connected to PBX extension lines or to telephone lines.
- (4) The tie-line interface connects more than one intercom exchange via rented lines.

2. Features of interfaces

(1) OD interface

When mounted on the EXES-6000 series exchange (EX-610/620/630) and connected to the remote PBX, the OD interface provides the system with mutual paging and calling functions via the PBX extension telephones of a distant area.

(2) LD interface

When mounted on the EXES-6000 series exchange (EX-610/620/630) and connected to a nearby PBX, the LD interface provides the system with mutual paging and calling functions via the PBX extension telephones.

(3) CB interface

When mounted on the EXES-6000 series exchange (EX-610/620/630) and directly connected to the PBX extensions, the CB interface provides the system with direct calling and call answering functions via telephone lines.

Use this interface when you wish to directly linkup with a telephone line.

In addition, you can use the CB-600 lines in order to interface with pagers and to page/answer city pagers.

(4) Tie-line interface

When mounted on the EXES-6000 series exchange (EX-610/620/630) and connected to the remote extension system, the Tie-line interface provides the system with mutual paging, calling, and conversation functions.

3. Numbering schedule external interfaces

Before the external interfaces can function, they first need to be registered. The calling procedure to the respective interface line (selected number) should be registered through station No. 200. (For the details of registration, refer to the Installation Manual for the CP-66).

(1) OD interface

When using the OD interface, program the line number to be used into the line seizure operation (1 digit or 2 digits) according to the OD-600 line registration (Function Code 23 of No. 200 programming). If the OD line is divided into more than one group and each group is registered in separate line seizure operations, the interface can be connected to more than one PBX.

(2) LD interface

Similarly, the LD line number to be used has to be registered when using the interface. (See LD-600 line registration of Function Code 24 of No. 200 programming.) By dividing the line into more than one group and registering each group in separate line seizure operation, the interface can be connected to more than one PBX.

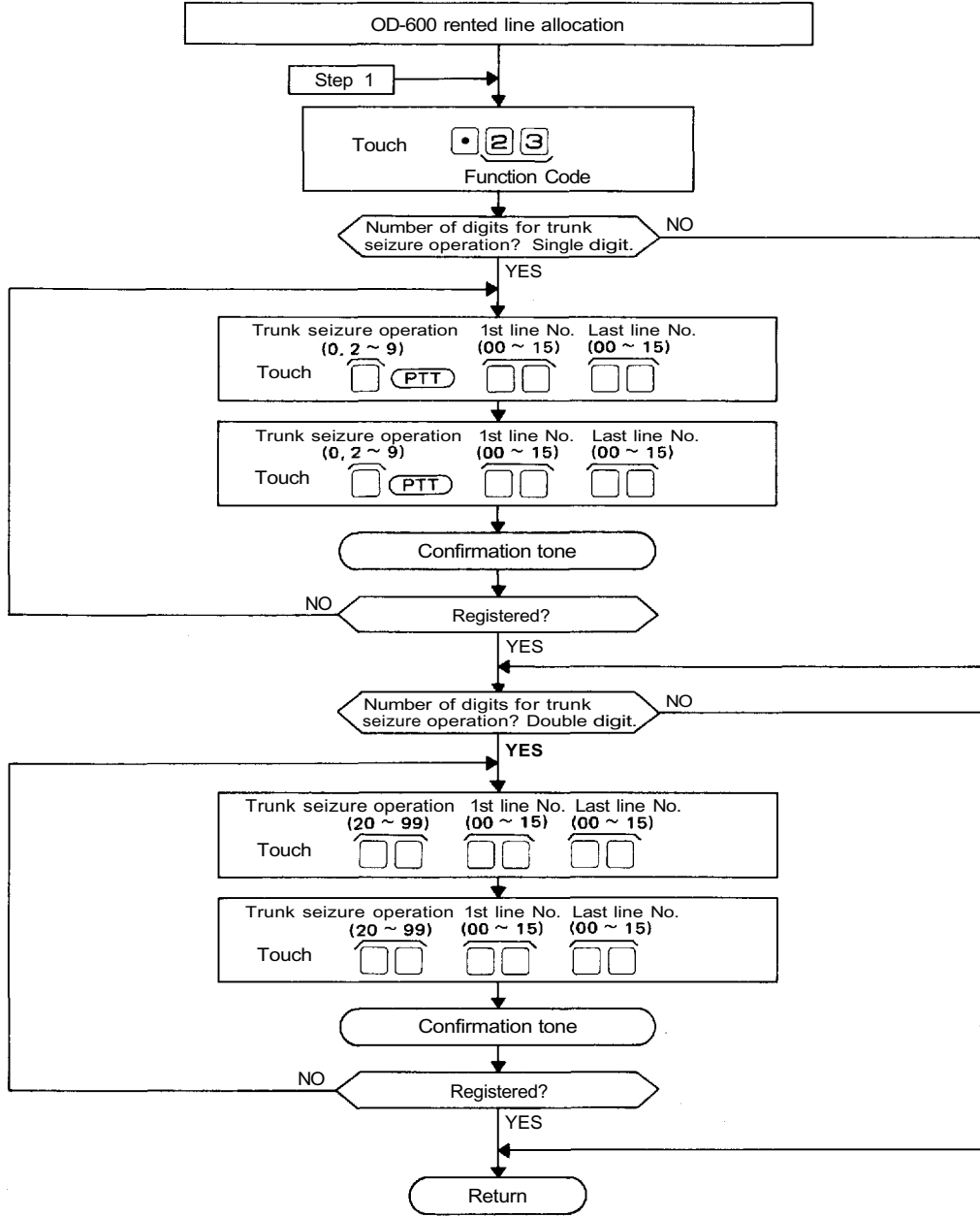
(3) CB interface

Similarly, the line number to be used has to be registered when using the interface. Also register the group number of stations which ring when there are incoming telephone calls and from which the calls are answered.

(4) Tie-line interface

Similarly, the line number to be used has to be registered when using the Tie-line interface. Dividing the line into more than one group and registering each group in separate line seizure operations allow the interface to be connected to more than one PBX.

6-20 <OD-600 Rented line allocation> (FUNCTION CODE 23)



NOTES

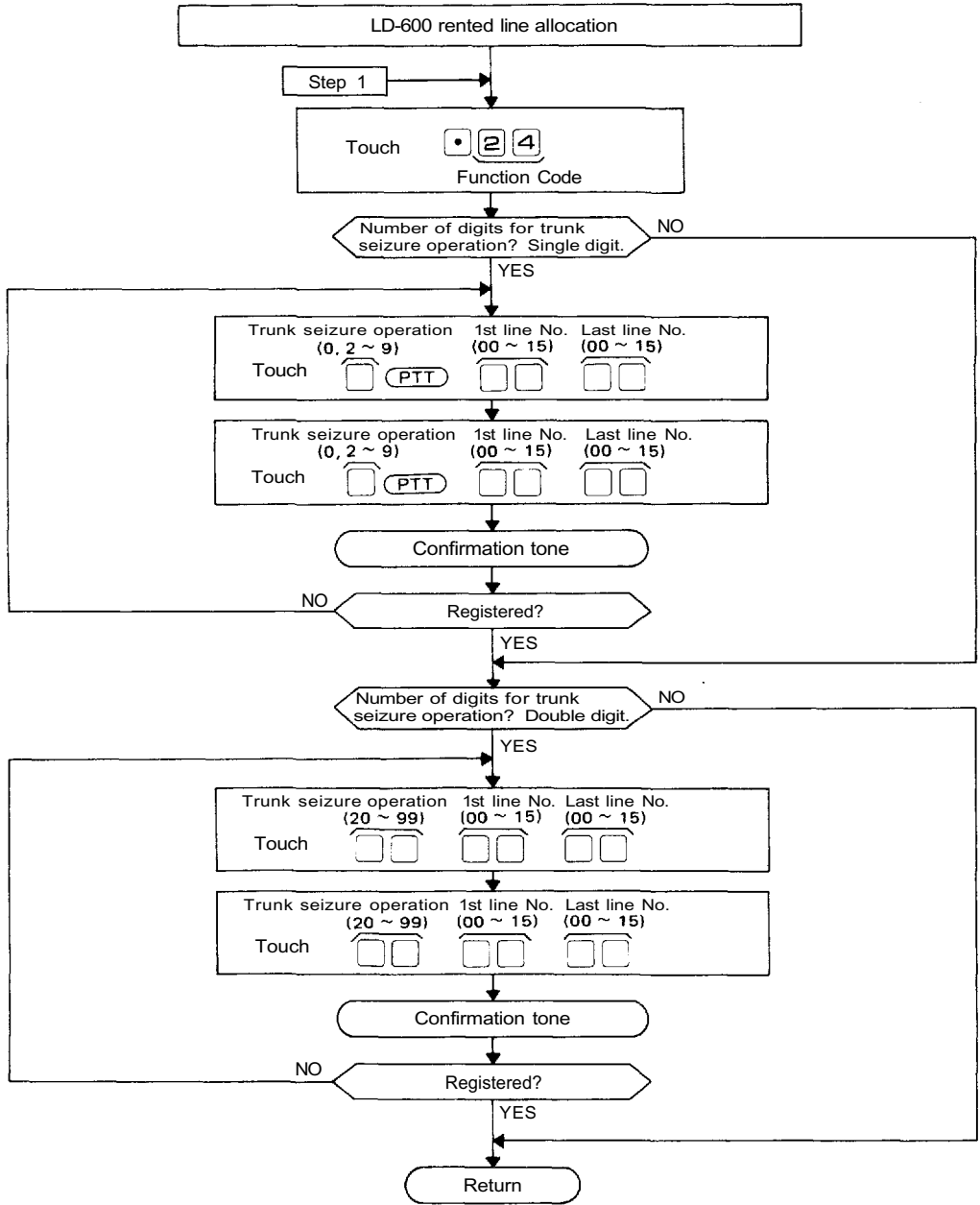
1. To clear registration on all rented lines

2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

Touch ... (Confirmation tone
will be heard.)
10 times

3. Rented line No.: 00-07 for EX-610.

6-21 <LD-600 Rented line allocation> (FUNCTION CODE 24)



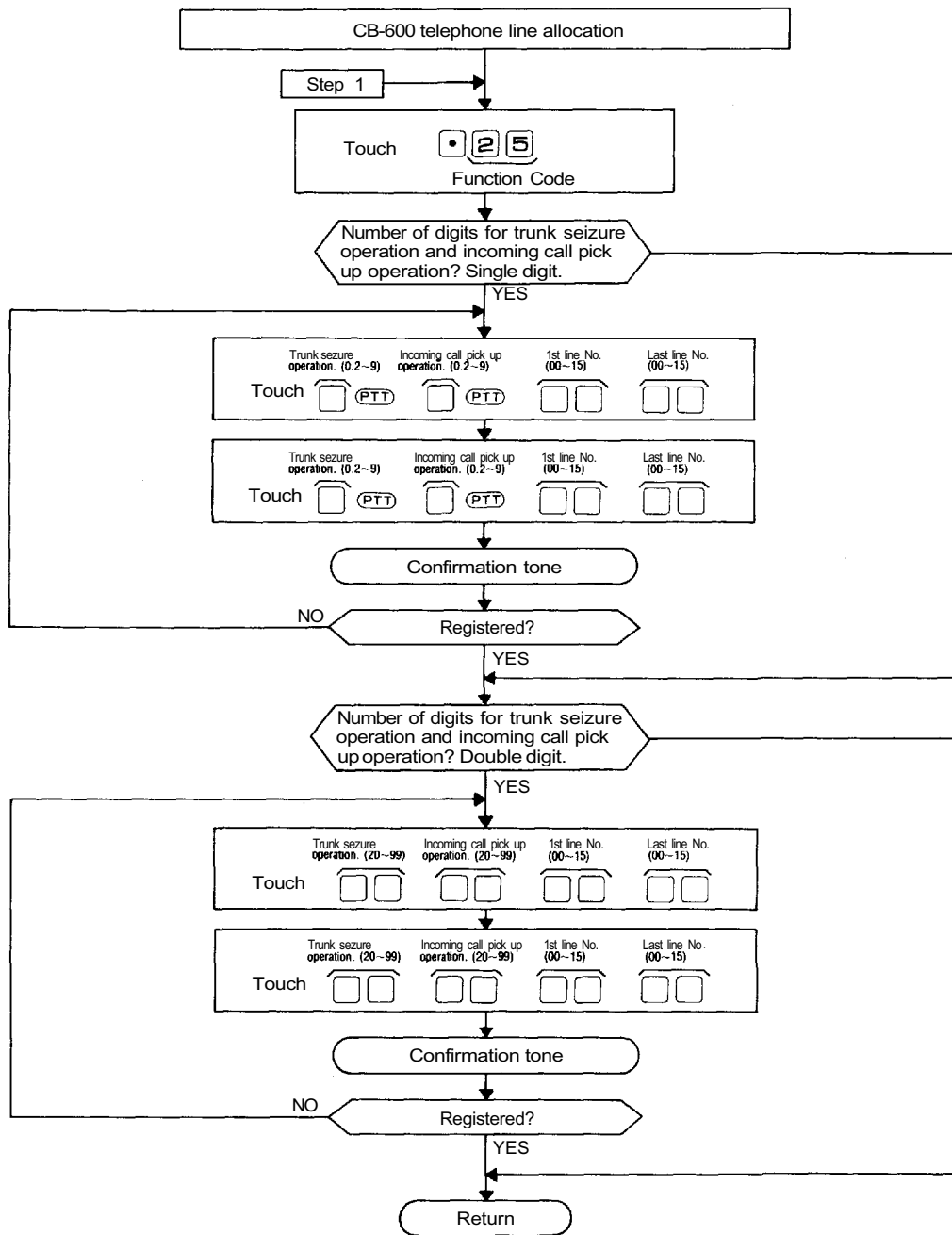
NOTES

- 1. To clear registration on all rented lines.
- 2. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

Touch ... (Confirmation tone will be heard.)
 10 times

- 3. Rented line No.: 00-07 for EX-610.

6-22 <CB-600 Telephone line allocation> (FUNCTION CODE 25)



NOTES

1. To clear registration on all rented lines.

3. Telephone line No.: 00~07 for EX-610.

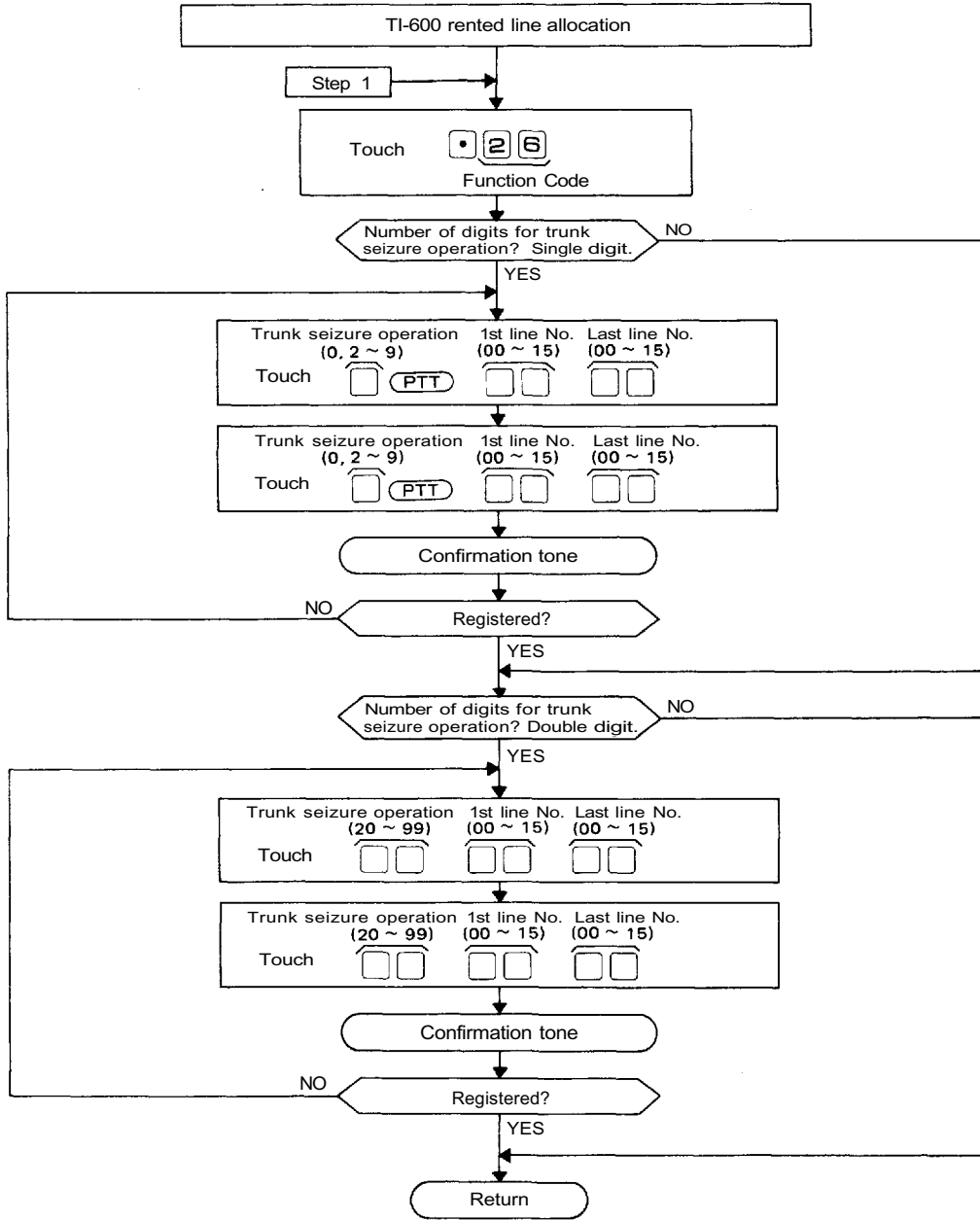
Touch (Confirmation tone will be heard.)
 10 times

4. Line No. 0 is impossible to use when CB-600 is used in pager call.

2. Re-start at Step 1 when mis-dialing occurs.
 (All other registrations remain valid.)

5. If the station does not need to receive an incoming telephone call, the trunk seizure operation and incoming call pick up operation are identical.

6-23 <TI-600 Rented line allocation> (FUNCTION CODE 26)



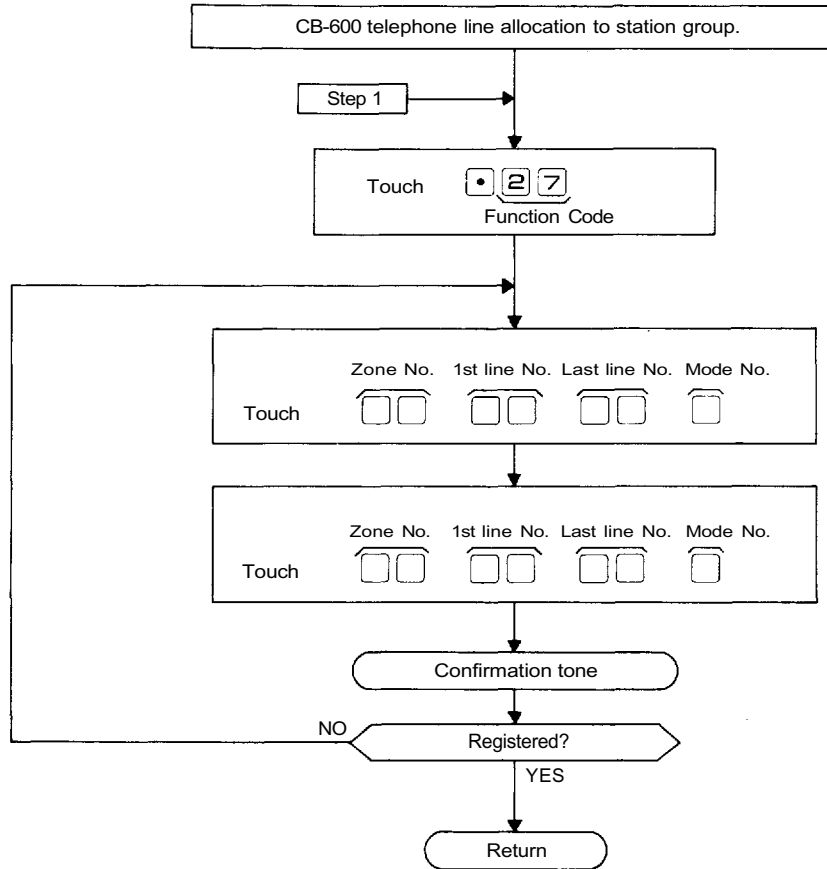
NOTES

- 1. To clear registrations on all rented lines.
- 2. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

Touch 0 2 6 0 0 ... 0 (Confirmation tone will be heard.)
 10 times

- 3. Rented line No.: 00~07 for EX-610.

6-24 <CB-600 Telephone line allocation to station group> (FUNCTION CODE 27)



NOTES

1. To clear registrations on all telephone lines.

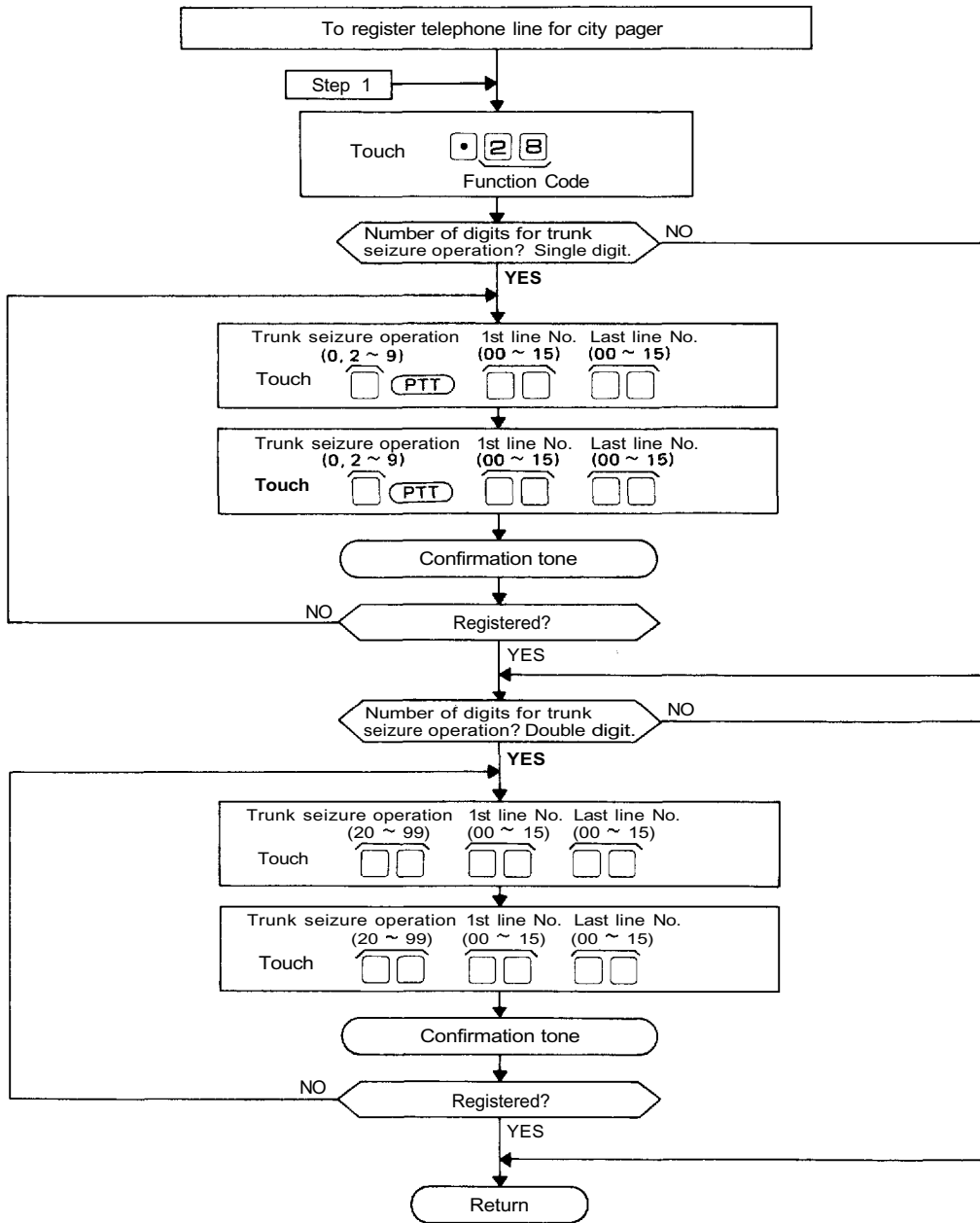
Touch (Confirmation tone will be heard.)
10 times

2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)
3. Switch C-1 must be "ON" to employ this function.
4. Also dial 2 digits (01 to 07) to programme the system having paging zones 1 to 7.
5. Line No. 0 is impossible to use when CB-600 is used in pager call.

6. Zone number of each exchange in Tie-line system.
Exchange "A" ----- No.01 ~15
Exchange "B" ----- No.16~30
Exchange "C" ----- No.31 ~45

7. Telephone line No.: 00~15 (00-07 for EX-610).
8. Mode No.
0 : External ringer mode
1 : Station paging pre-announcement tone mode

6-25 <To register telephone line for city pager> (FUNCTION CODE 28)



NOTES

1. To clear registrations on all telephone lines.

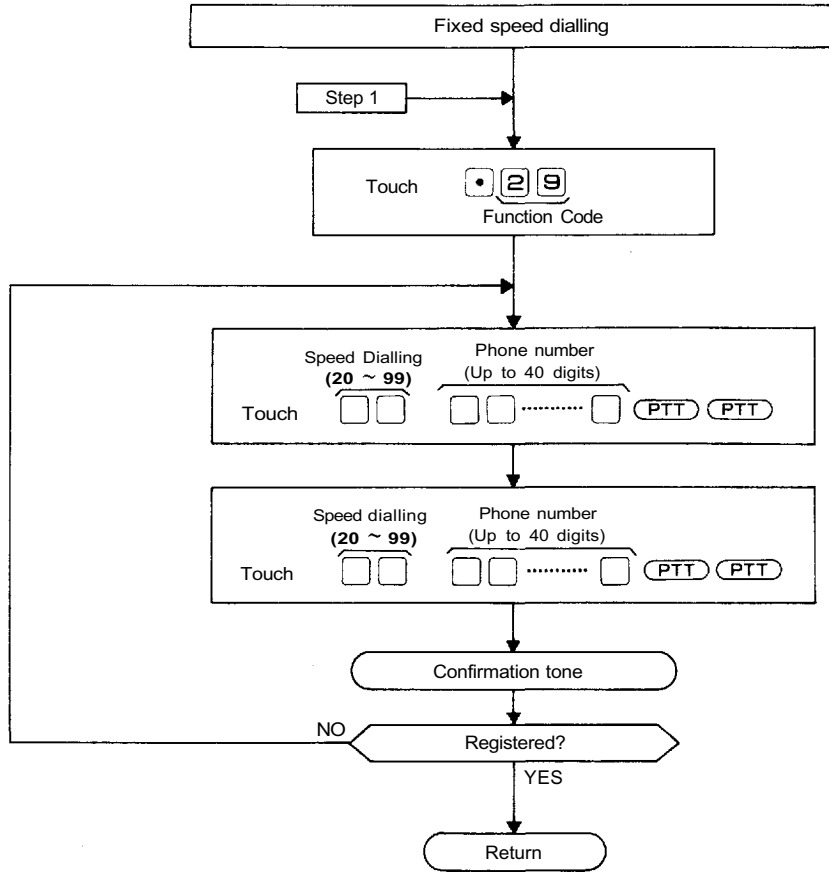
2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

Touch ... (Confirmation tone will be heard.)
10 times

3. Line No. 0 is impossible to use when CB-600 is used in pager call.

4. Telephone line No.: 00-15 (00-07 for EX-610).

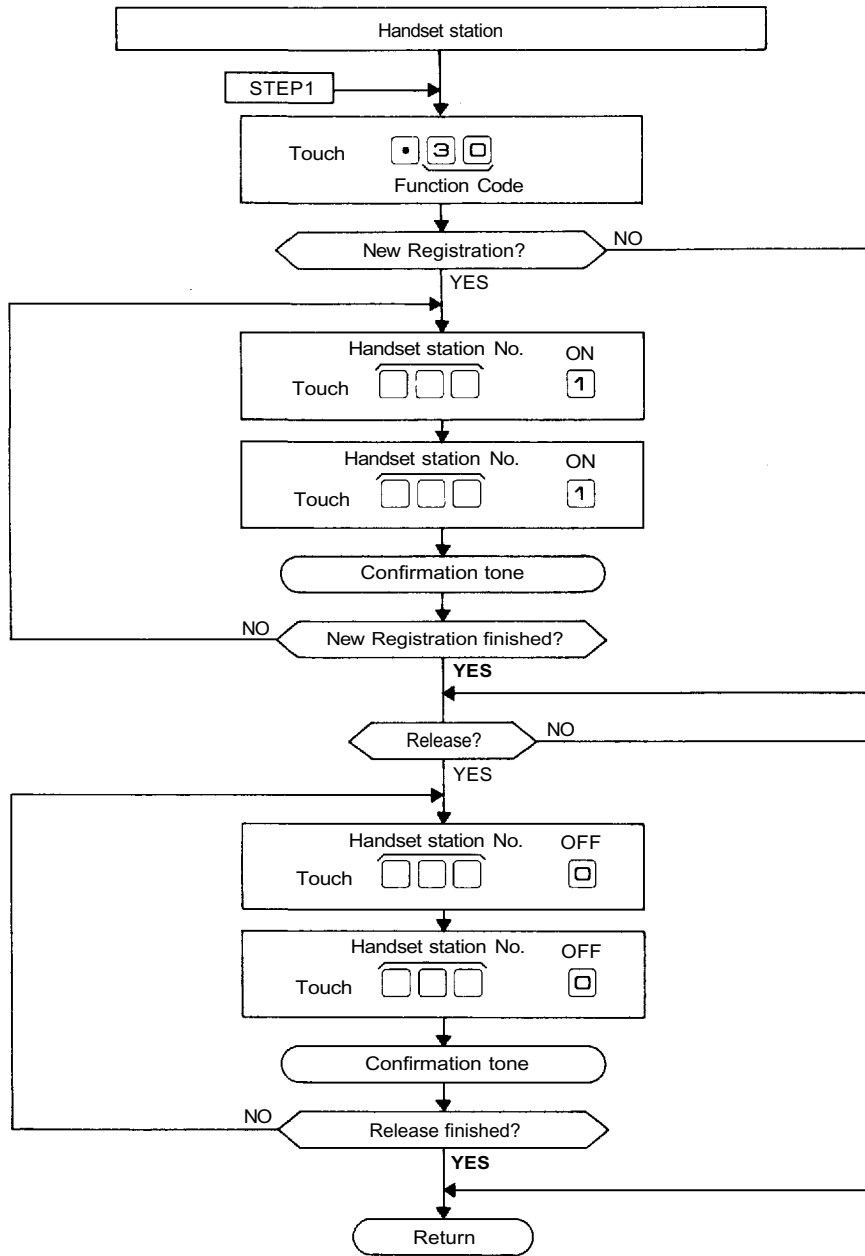
6-26 <Fixed speed dialling> (FUNCTION CODE 29)



NOTES

1. To clear all data registered for speed dialling.
Touch \cdot 2 9 $\underbrace{00 \dots 0}_{10 \text{ times}}$ (Confirmation tone will be heard.)
2. Re-start Step 1 when mis-dialling occurs.
(All other registrations remain valid.)
3. A maximum of 10 telephone numbers may be registered for Speed Dialling. The first digit of each abbreviated number is to be the same.
4. Dial PTT to set up pause in the abbreviated number.
5. When you need to press \cdot to register Single-digit dialling for intercom (not telephone) applications, press PTT instead of \cdot .

6-27 <Handset station> (FUNCTION CODE 30)



NOTES

1. To allow all the stations to have this function,

Touch [30] [PTT] [PTT] ... [PTT] (Confirmation tone will be heard.)
10 times

Be sure to depress the [PTT] key steadily.

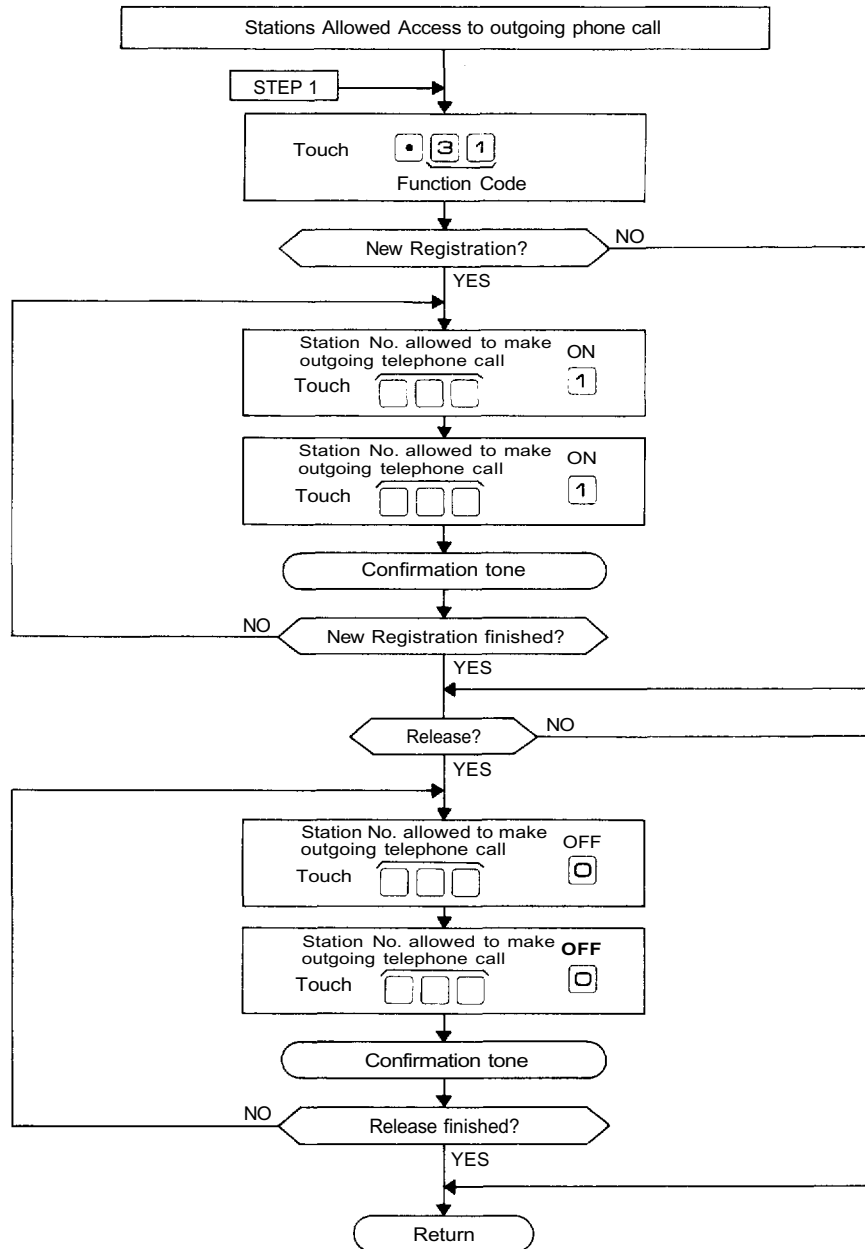
2. To release at one time the data programmed into all the stations for this function,

Touch [30] [] [] [] ... [] (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-28 <Stations Allowed Access to outgoing phone call> (FUNCTION CODE 31)



NOTES

1. To allow all the stations to have this function,

Touch *31 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to depress the PTT key steadily.

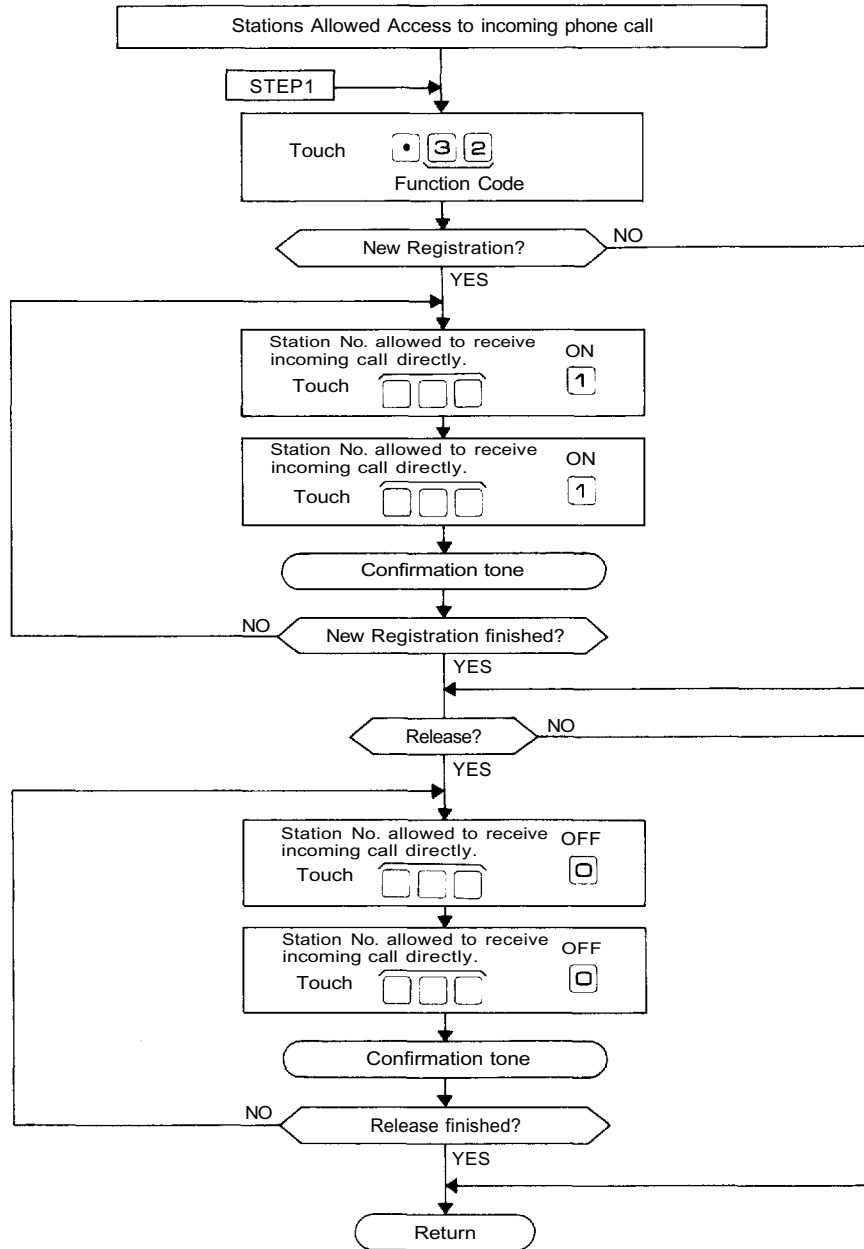
2. To release at one time the data programmed into all the stations for this function,

Touch *31 [] [] ... [] (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-29 <Stations Allowed Access to incoming phone call> (FUNCTION CODE 32)



NOTES

1. To allow all the stations to have this function,

Touch [3] [2] PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to depress the PTT key steadily.

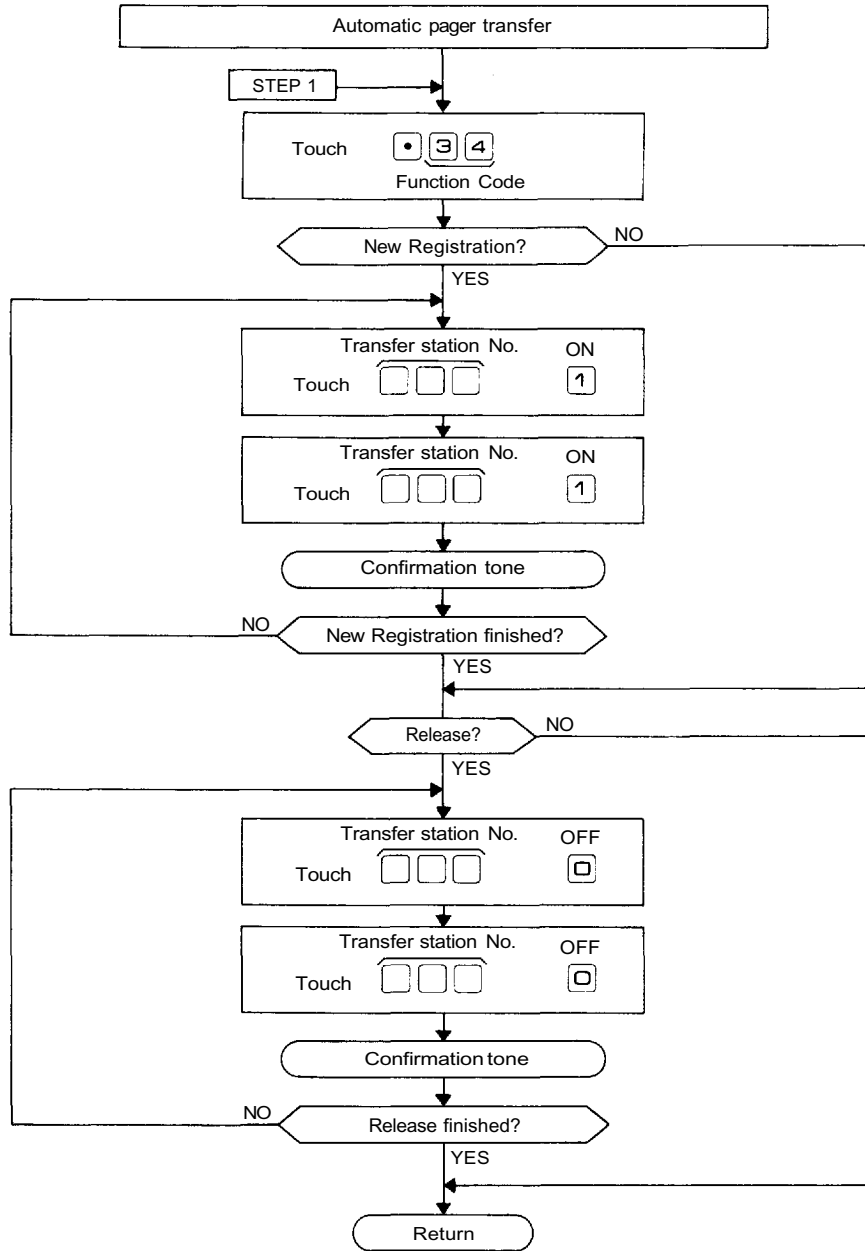
2. To release at one time the data programmed into all the stations for this function,

Touch [3] [2] [0] [0] ... (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-30 <Automatic pager transfer> (FUNCTION CODE 34)



NOTES

- To allow all the stations to have this function,

Touch [•] [3] [4] [PTT] [PTT] ... [PTT] (Confirmation tone will be heard.)
10 times

Be sure to depress the [PTT] key steadily.

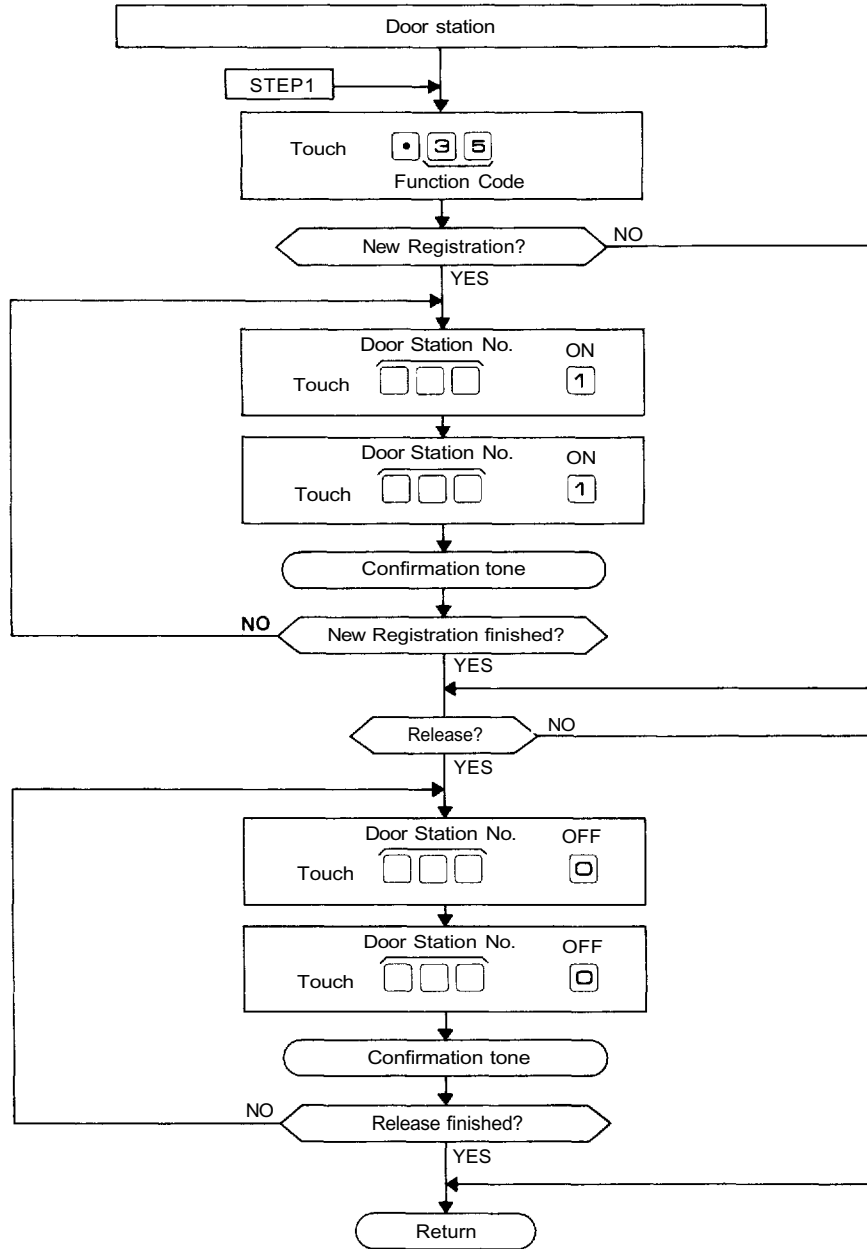
- To release at one time the data programmed into all the stations for this function,

Touch [•] [3] [4] [] [] ... [] (Confirmation tone will be heard.)
10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-31 <Door station> (FUNCTION CODE 35)



NOTES

1. To allow all the stations to have this function,

Touch [3] [5] [PTT] [PTT] ... [PTT] (Confirmation tone will be heard.)
10 times

Be sure to depress the [PTT] key steadily.

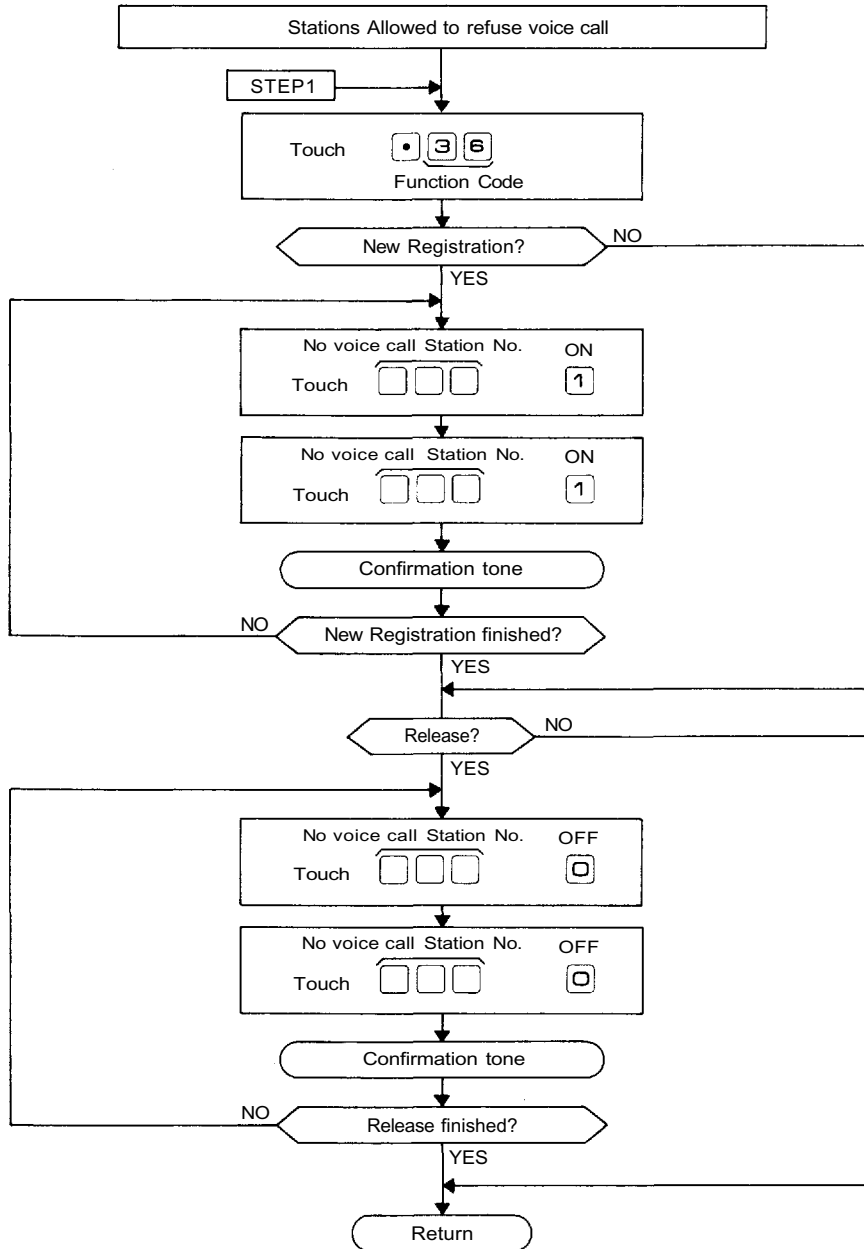
2. To release at one time the data programmed into all the stations for this function,

Touch [3] [5] [0] [0] ... [0] (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-32 <Stations Allowed to refuse voice call> (FUNCTION CODE 36)



NOTES

1. To allow all the stations to have this function,

Touch * 3 6 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

Be sure to depress the **PTT** key steadily.

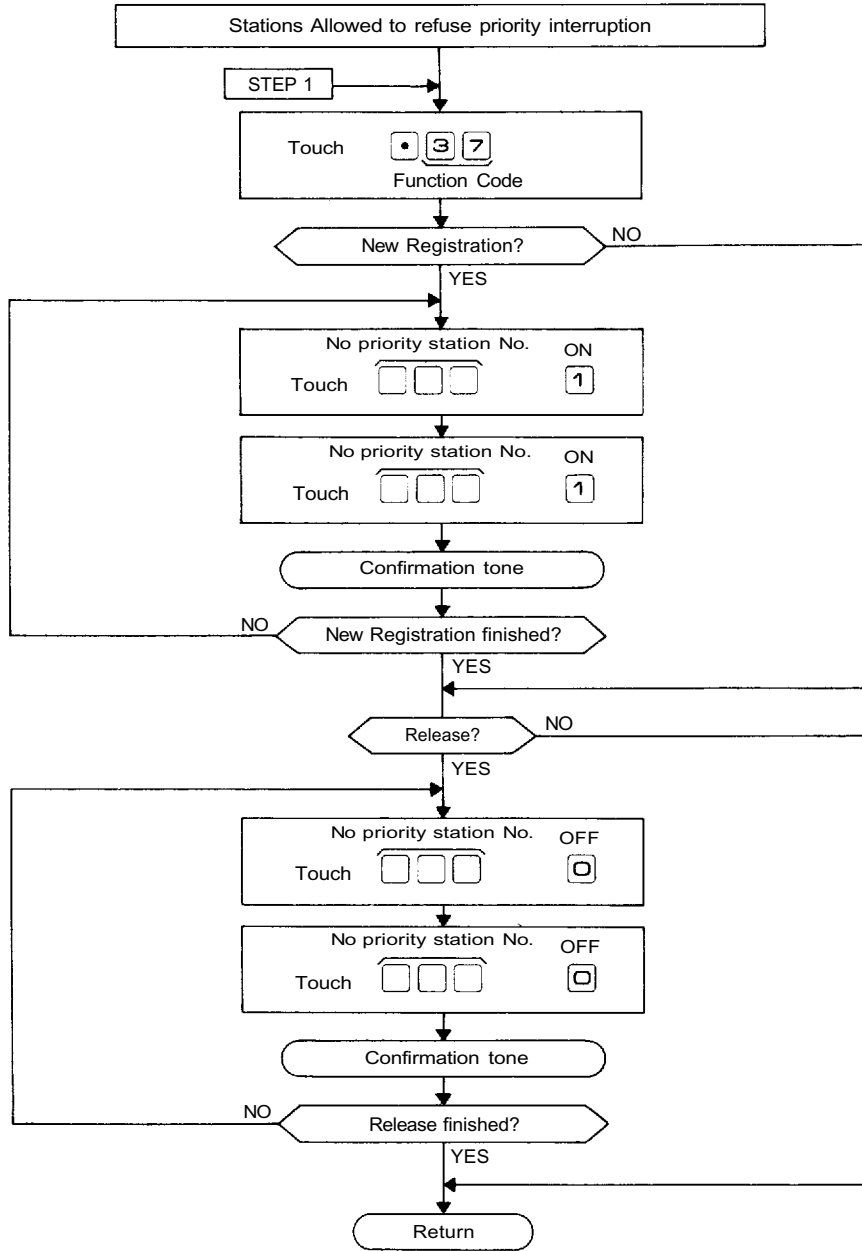
2. To release at one time the data programmed into all the stations for this function,

Touch * 3 6 0 0 ... 0 (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-33 <Stations Allowed to refuse priority interruption> (FUNCTION CODE 37)



NOTES

1. To allow all the stations to have this function,

Touch [*] [3] [7] [PTT] [PTT] ... [PTT] (Confirmation tone will be heard.)
10 times

Be sure to depress the [PTT] key steadily.

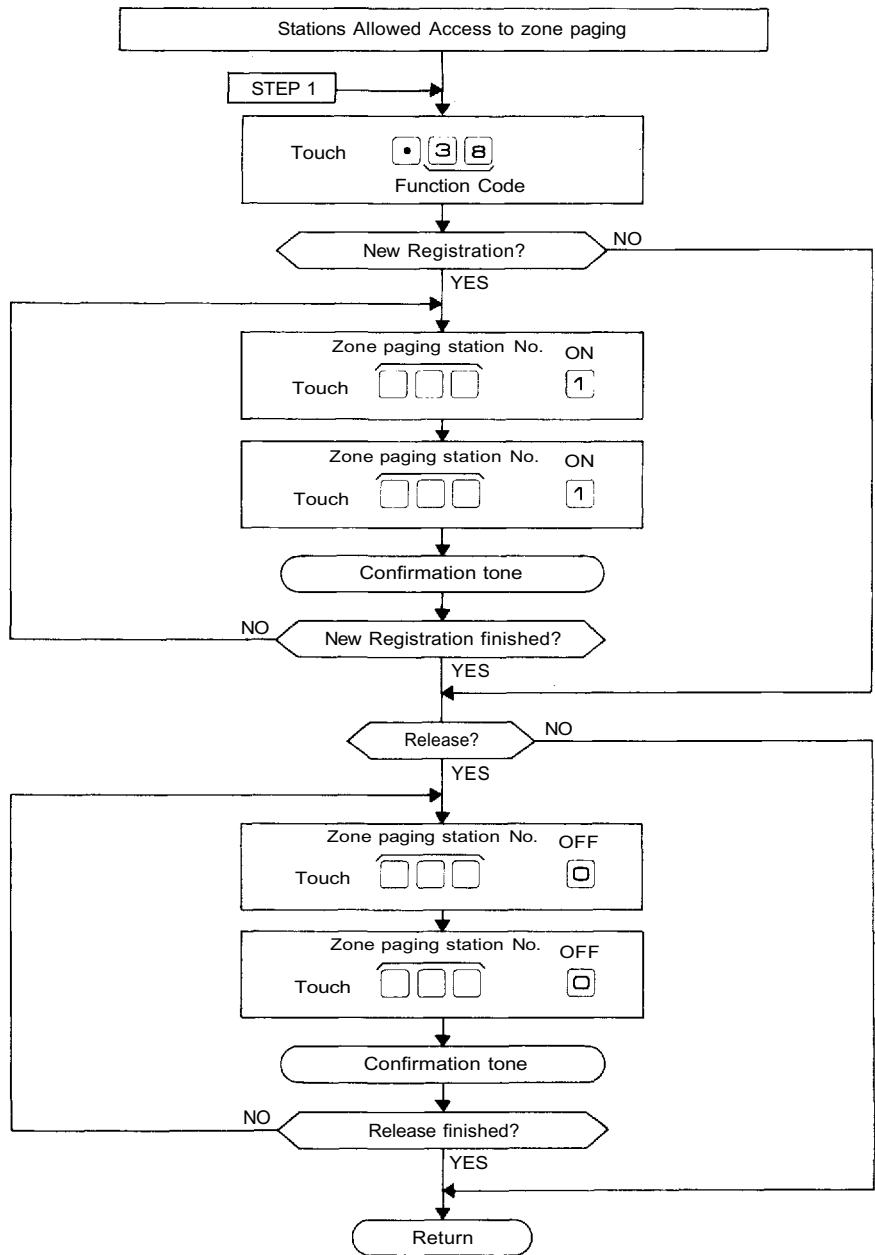
2. To release at one time the data programmed into all the stations for this function,

Touch [*] [3] [7] [0] [0] ... [0] (Confirmation tone will be heard.)
10 times

3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-34 <Stations Allowed Access to zone paging> (FUNCTION CODE 38)



NOTES

- 1. To allow all the stations to have this function,

Touch [3] [8] [PTT] [PTT] ... [PTT] (Confirmation tone will be heard.)
10 times

Be sure to depress the [PTT] key steadily.

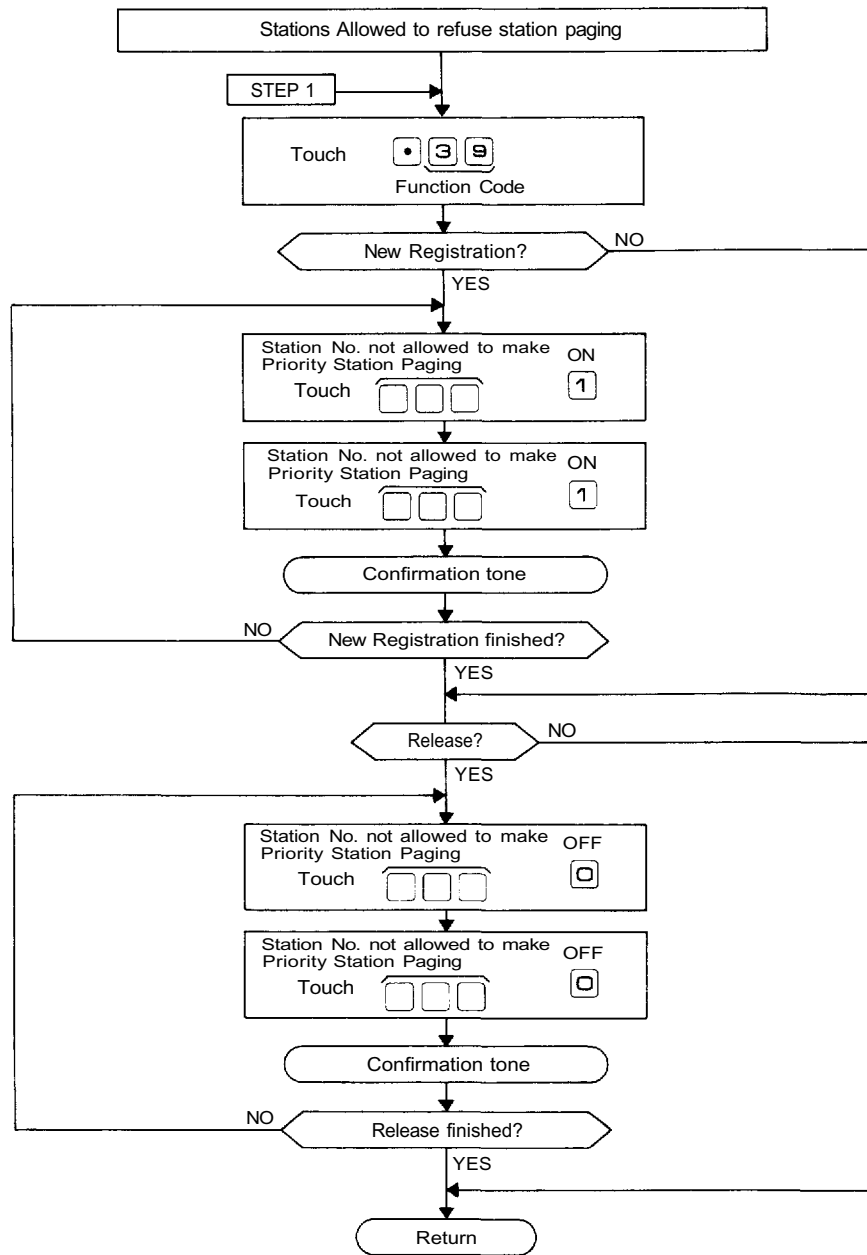
- 2. To release at one time the data programmed into all the stations for this function,

Touch [3] [8] [] [] ... [] (Confirmation tone will be heard.)
10 times

- 3. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- 4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

6-35 <Stations Allowed to refuse station paging> (FUNCTION CODE 39)



NOTES

- 1. To allow all the stations to have this function.

Touch ... (Confirmation tone will be heard.)
10 times

Be sure to depress the key steadily.

- 2. To release at one time the data programmed into all the stations for this function.

Touch ... (Confirmation tone will be heard.)
10 times

- 3. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

- 4. Dial 2 digits when programming the station for 2-digit dialling. Dial last 3 digits for station programming when 4-digit dialling is employed.

7. PROGRAMMING DATA TABLE

● INITIAL PROGRAMMING

Note. (Mark *)

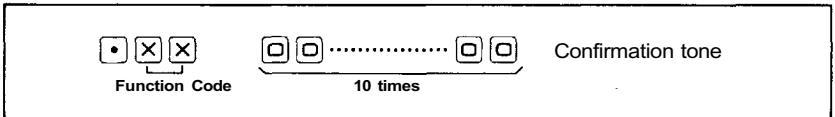
The first station of each exchange becomes the Programming Station:

- Exchange "A" No. 200 (100)
- Exchange "B" No. 470 (400)
- Exchange "C" No. 740 (700)

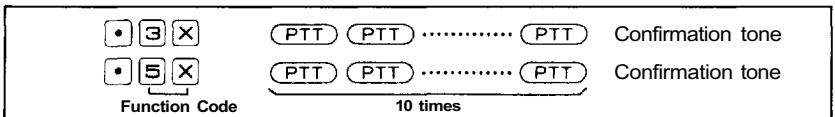
== Initial Programming of the Exchange ==

1. Place CP front-mounted program switch in "ON" position.
Dial operation from station No. 200 (100). *
2. Dial tone will be heard (Station No. 200 (100) becomes a programming station)
3. 4 4 .. 4 Confirmation tone will be heard (Clears function group S)
10 times
4. 5 5 .. 5 Confirmation tone will be heard (Clears function group A)
10 times
5. 6 6 .. 6 Confirmation tone will be heard (Clears function group B)
10 times
6. 7 7 .. 7 Confirmation tone will be heard (Clears function group C)
10 times
7. 8 8 .. 8 Confirmation tone will be heard (Clears function group D)
10 times
8. 9 9 .. 9 Confirmation tone will be heard (Clears function group E)
10 times
9. 0 0 .. 0 Confirmation tone will be heard.
(Clears personal numbers, single digit dial numbers and remote numbers)
10. 2 2 .. 2 Confirmation tone will be heard (Clears function group F)
10 times
11. 3 3 .. 3 Confirmation tone will be heard (Clears function group G)
10 times
12. Dial operation to programme required functions.
(Refer to other instructions for each function)
13. Set the CP front-mounted programme switch to OFF.
14. (Station No. 200 (100) becomes a normal station.) *

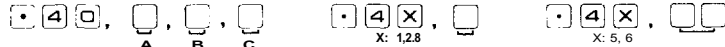
== Simultaneous clearance of each function programmed into all stations. ==



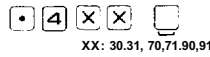
== Simultaneous programming of each function into all stations. ==



Function Table for the System



System function table



Function Group	Function	Function code	Registered data	Remark	Initial setting mode
S	Numbering schedule of tie-line system. Setting of the head station number of each exchange	40	A —00 B —00 C —00	Head station number of each exchange to be selected from among the following schedules. 100/200/300/400/500/600/700/800/900	A/B/C=200/470/740 (SW-D-5 off) 200/500/800 (SW-D-5ON)
	Call tone selection	41	—	0: No call tone 1: Single tone (0.2 second) 2: Trill tone (0.3 second)	Trill tone (0.3 second)
	Selection of paging pre-announcement tone duration	42	—	0: No pre-announcement tone 1: Pre-announcement tone (1 second) 2: Pre-announcement tone (2 seconds)	Pre-announcement tone (2 seconds)
	Single-digit dialling key selection	430	—	0: <input type="checkbox"/> 5~9: <input type="checkbox"/> ~ <input type="checkbox"/>	<input type="checkbox"/>
	Selection of 1st digit of 4-digit dialling	431	— 000	1st digit of station No. of local exchange 2000/3000/4000/5000/6000/7000/8000/9000	(None)
	Time-out of conversation	45	— —	00: No time-out 01~99: Time-out (minutes)	No time-out
	Time-out of paging call	46	— —	00: No time-out 01~99: Time-out (minutes)	No time-out
	Pager call output digit selection	470	—	0: 2 digits 1: 3 digits 2: 4 digits	2 digits
	Pager call function code output mode selection	471	—	0: Output before pager No. 1: Output after pager No. 2: No function code	Output before pager No.
	Pre-pause time selection	48	—	0: 0.6 sec 4: 2.5 sec 8: 4.5 sec 1: 1 sec 5: 3 sec 9: 5 sec 2: 1.5 sec 6: 3.5 sec 3: 2 sec 7: 4 sec	0.6 second
	Number of SM-600 units connected	490	—	0: No unit connected 1~4: Number of SM-600 units connected	No unit connected
	Message recording hurry-up tone mode selection	491	—	0: Hurry-up tone is transmitted 1: No hurry-up tone	Hurry-up tone is transmitted

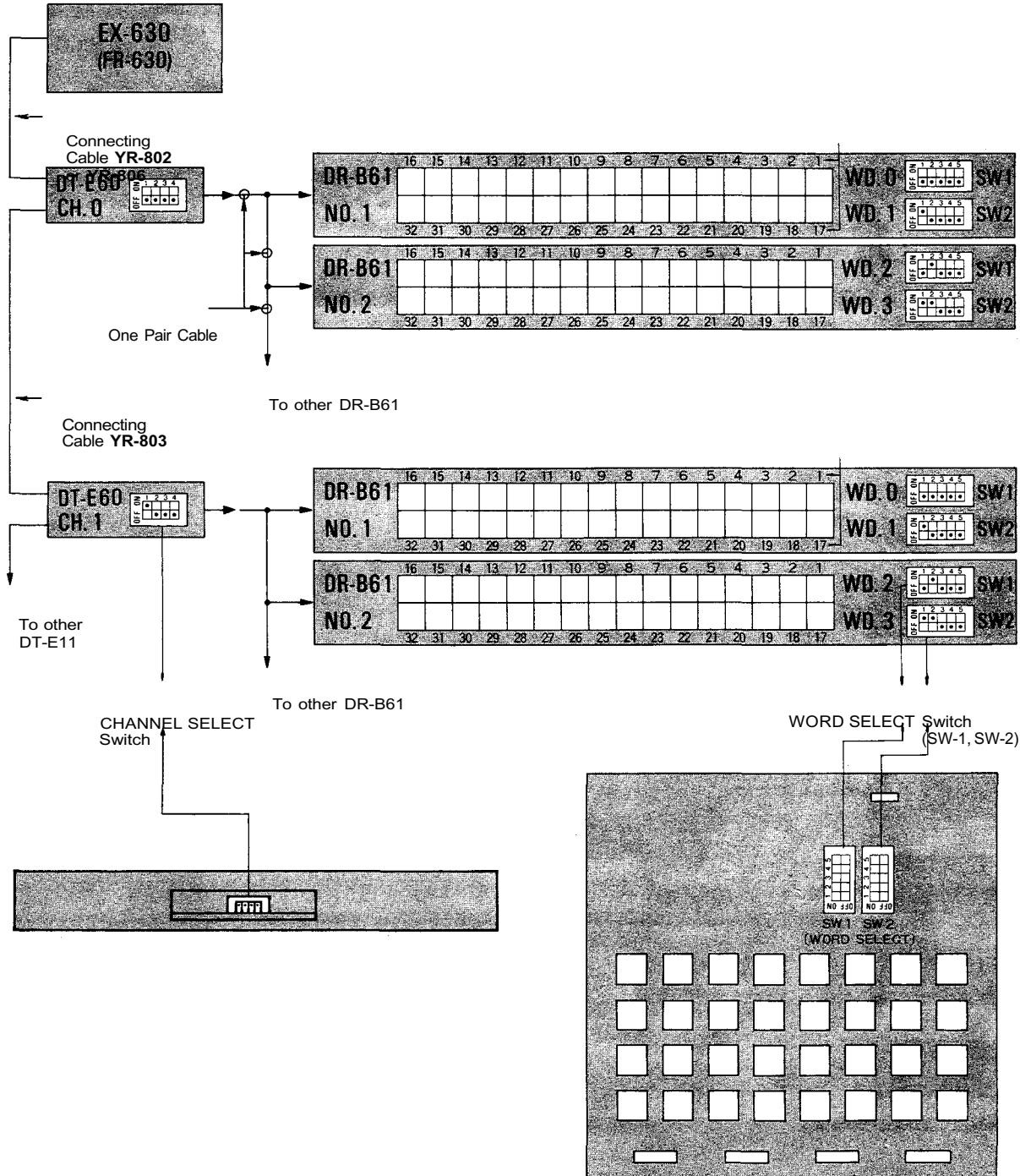
Note. Write numerical value over horizontal lines (—).

PART 3. FUNCTION SELECTION FOR DATA TRANSMITTING AND RECEIVING UNITS

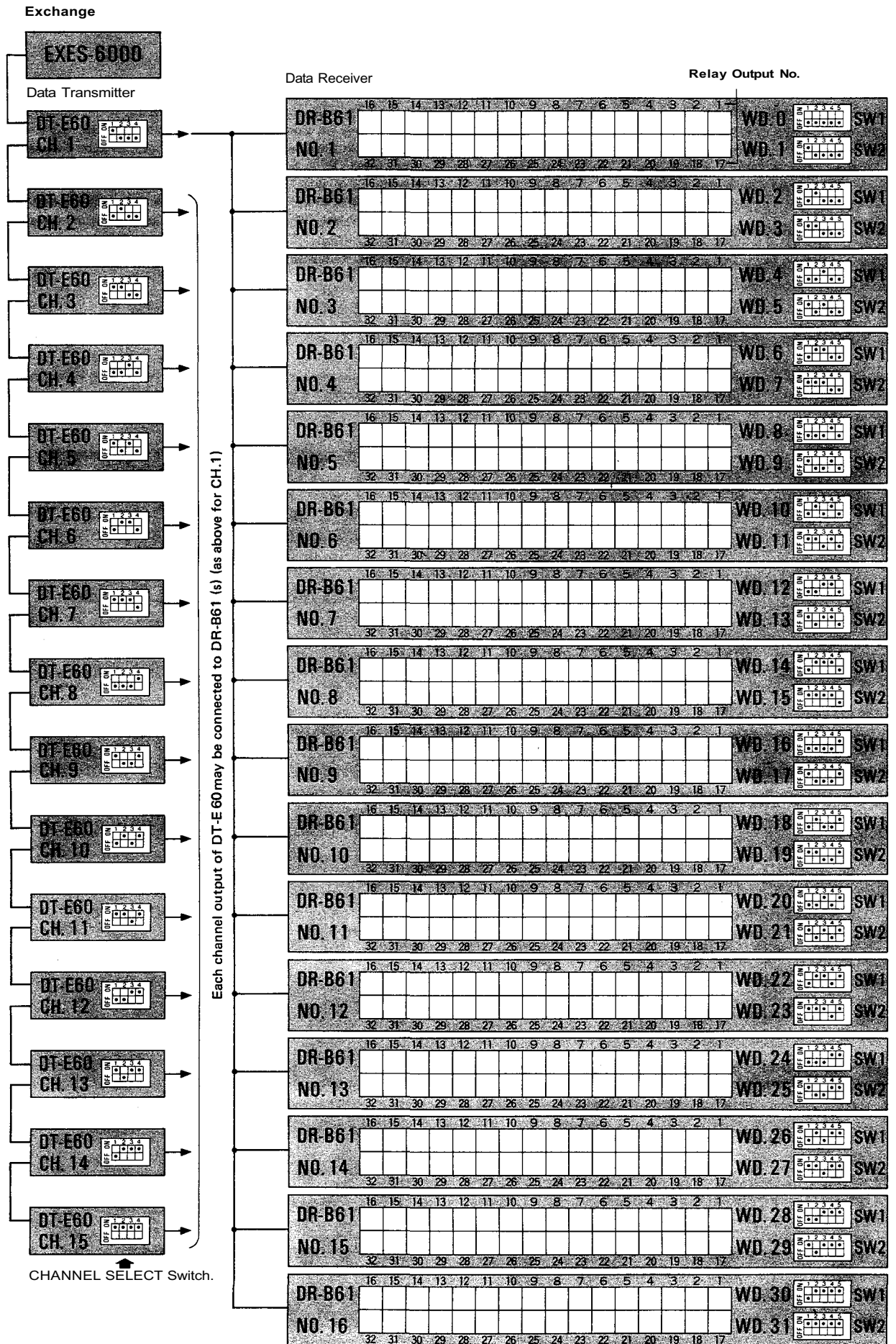
8. SETTING OF CHANNEL SELECT SWITCH OF TRANSMITTING UNIT (DT-E60) AND WORD SELECT SWITCH OF RECEIVING UNIT (DR-B61)

NOTE

1. Connect the DT-E60 and DR-B61 to Exchange correctly. (Refer to operation manuals of DT-E60 and DR-B61).
2. Set the function select switches (DIP SWITCH) on CP-66 correctly and be sure to enter initial programming and function registration at programming station No.200.
3. Remove the Data Transmitting Unit (DT-E60) front cover by pulling its handle toward you, and the channel select switches can be seen. Set the channel select switches to enable IN/OUT Annunciation, Calling Party Indication, etc. (Refer to 12. Explanation of Data Transmitting Unit Output Data.)
4. The DT-E60 sends out 512 bit data (16 bit x 32 words) to control relays on Data Receiving Unit (DR-B61). Therefore set the two word select switches on DR-B61, according to necessary output mode. SW-1 is for Relay No.1 to No.16 and SW-2 is for Relay No.17 to No.32. See Page 51 for details. (Refer to Explanation of Data Receiving Unit Output Channels.)
5. Connecting Cable YR-802 is used for the Rack mounting system. Connecting Cable YR-806 is used for the Standard Cabinet mounting system with only One (1) DT-E60 unit.



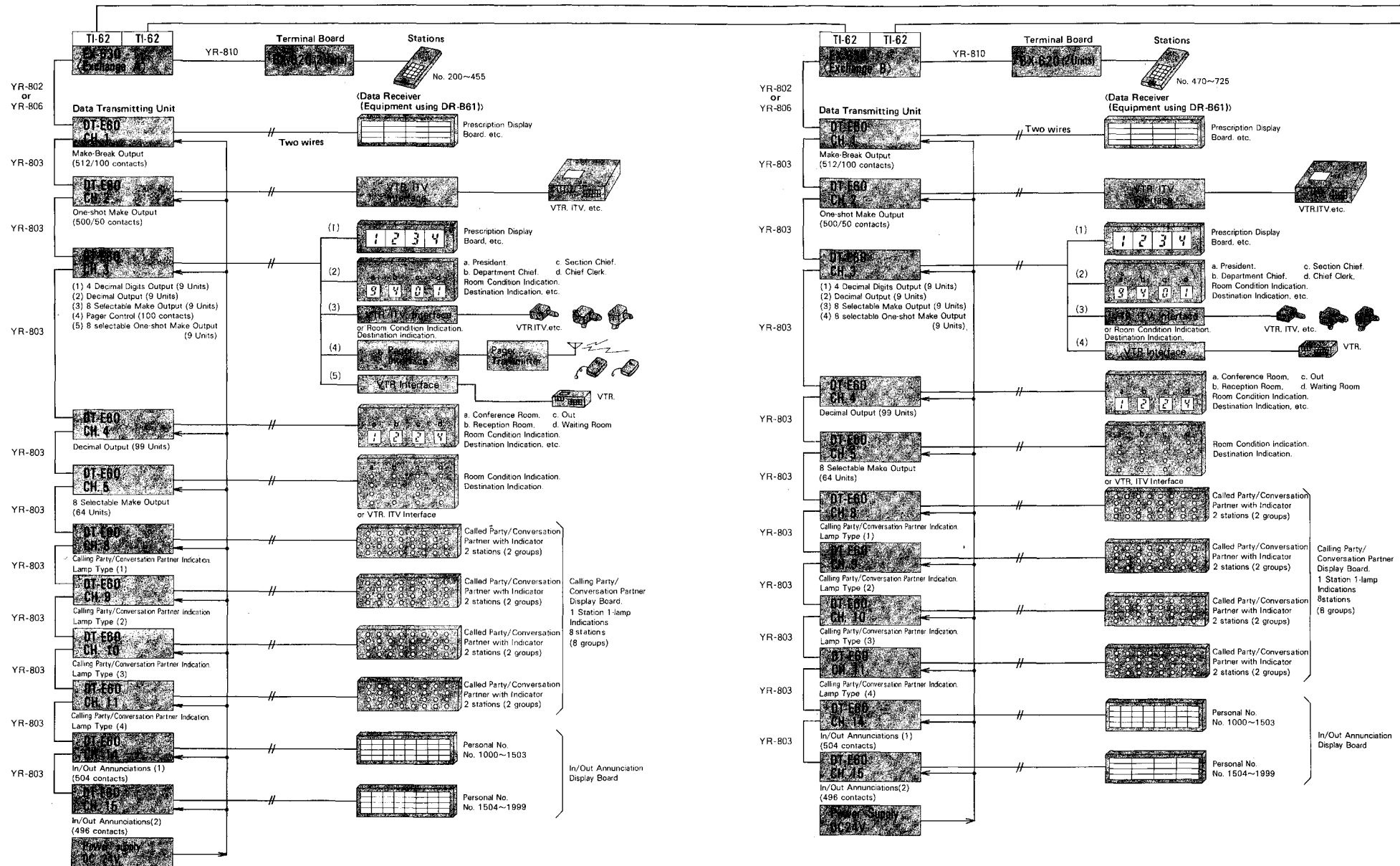
9. DIP SWITCH TABLE FOR DATA TRANSMITTING AND RECEIVING UNITS

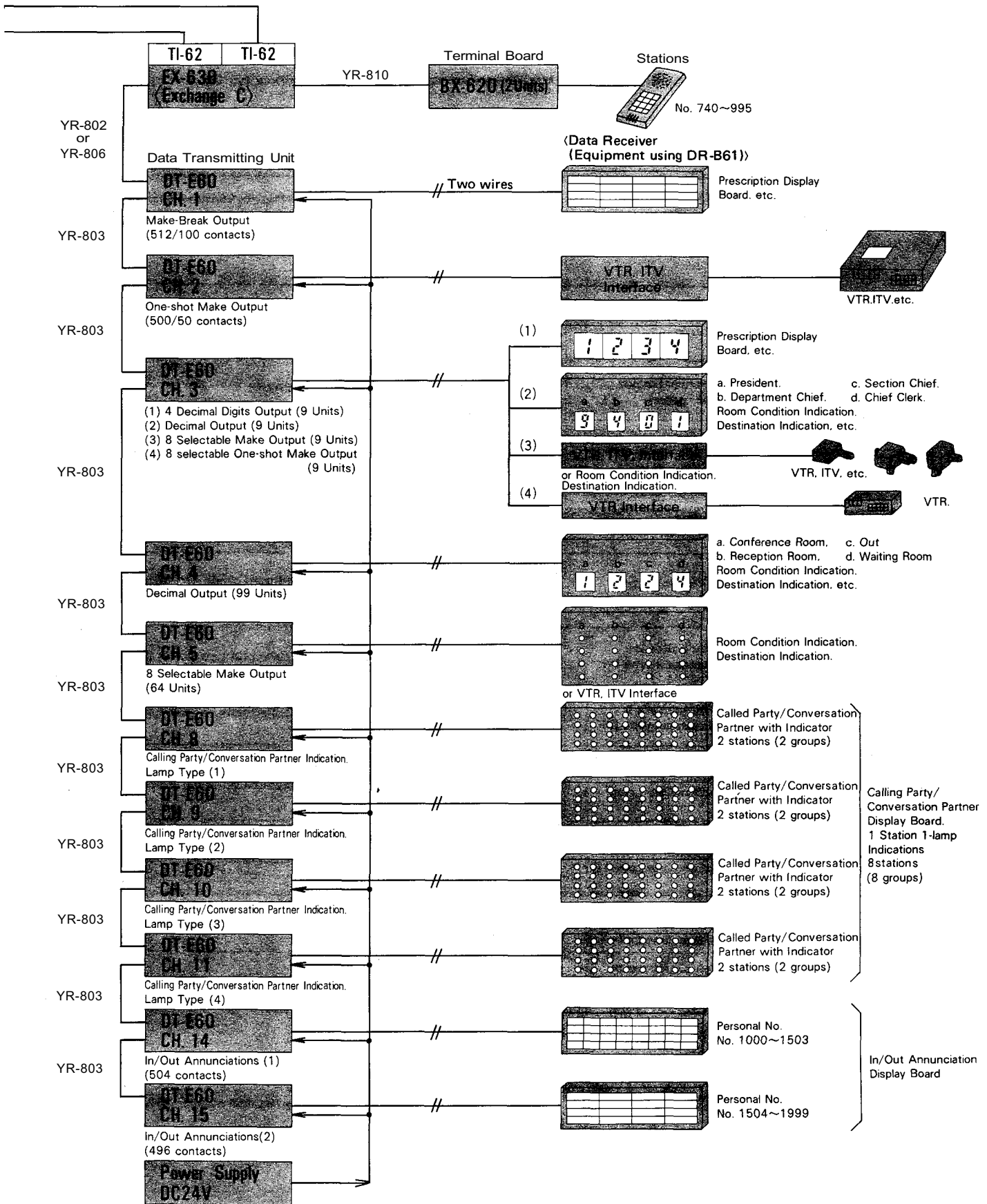


Note: □ (▢) shows the Head of a Slide Switch
















WORD SELECT Switch

11. SYSTEM DIAGRAM OF DATA TRANSMITTING AND RECEIVING UNITS (Tie-line System)



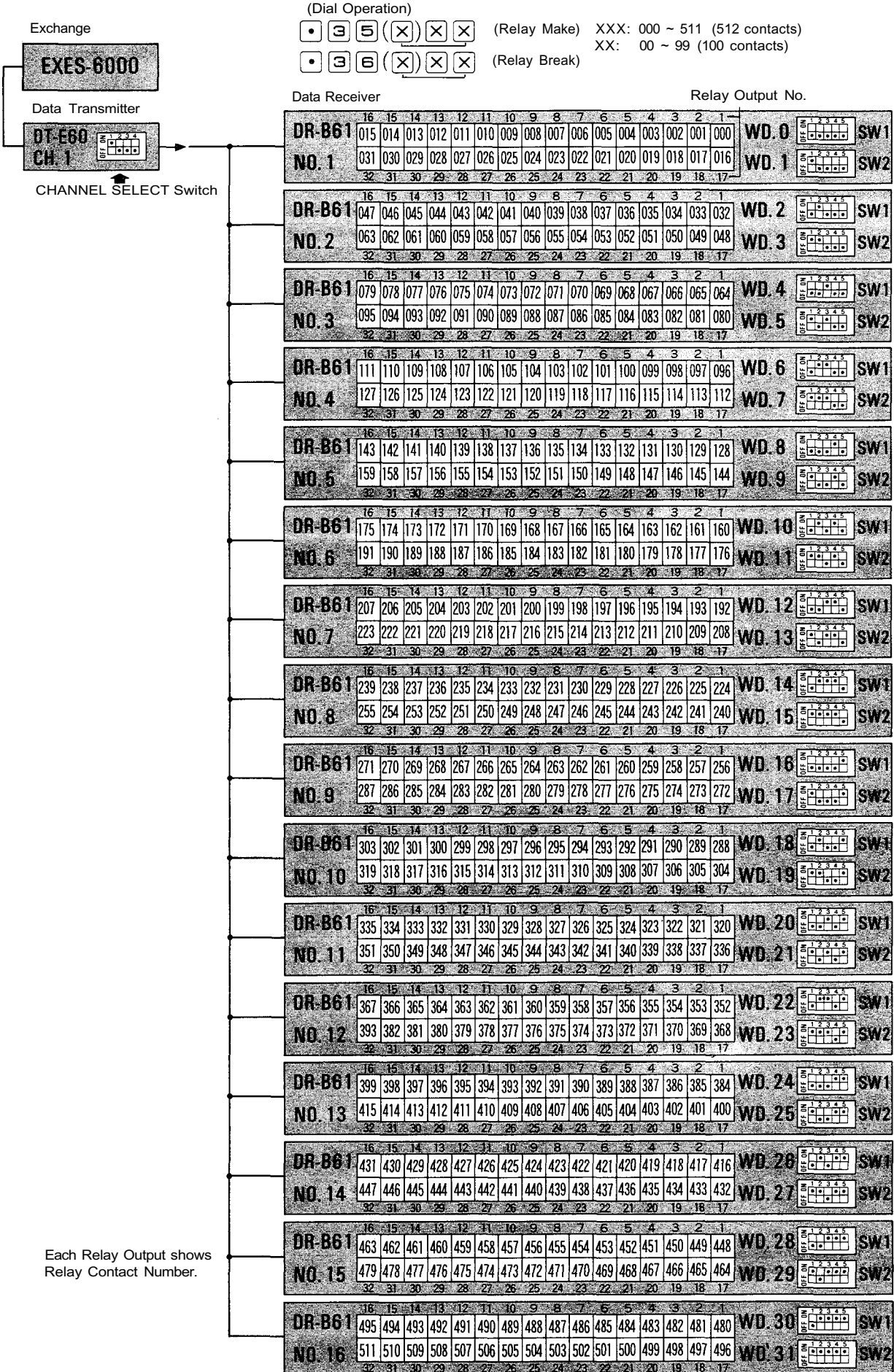


12. EXPLANATION OF DATA TRANSMITTING UNIT OUTPUT CHANNELS

CHANNEL SELECTION	FUNCTIONS	DESCRIPTION	APPLICATION
DT-E60 CH. 1 	Make/Break Output (512/100 contacts)	Make/Break contacts can be available at any Master station.	<ul style="list-style-type: none"> • Door Remote • IN/OUT Annunciation
DT-E60 CH. 2 	One-shot Make Output (500/50 contacts)	One-shot make contacts can be available at any Master station.	<ul style="list-style-type: none"> • ITV camera select • VTR control
DT-E60 CH. 3 	(1) 4 Decimal digits output (9 units)	Indicate by 7 segments LEDs.	• Prescription annunciation
	(2) Decimal Output (9 units)	10 Selectable Decimal Outputs are available with 7 segments LEDs.	• Room condition indication
	(3) 8 Selectable Make Output. (9 units)	One contact out of 8 selectable make outputs is obtained. "Clear" operation makes all 8 relays break.	• Destination indication
	(4) Pager Control Output (100 pagers)	Make output (100 contacts) is available for pager control.	• Pager
	(5) 8 Selectable One-shot Make Output (9 unit)	One contact out of 8 selectable make outputs is obtained for about 1 or 2 seconds.	• VTR control
DT-E60 CH. 4 	Decimal Output (99 units)	10 Selectable Decimal Outputs are available with 7 segments LEDs.	<ul style="list-style-type: none"> • Room condition indication • Destination indication
DT-E60 CH. 5 	8 selectable make Output (64 units)	One contact out of 8 selectable make outputs is obtained. "Clear" operation makes all 8 relays break.	<ul style="list-style-type: none"> • Room condition indication • Destination indication
DT-E60 CH. 6 	Calling Party Indication Numerical-type (1)	When a station with a Display Board is called, calling party number is	• Called stations are No.201~No.216.
DT-E60 CH. 7 	Calling Party Indication Numerical-type (2)	over and also when the called station is busy or in privacy.	• Called stations are No .217- No.232.
DT-E60 CH. 8 	Calling Party/Conversation Partner Indication (One Station; One Lamp) (1)	Calling party indication (lamp type) This function permits a maximum of 256 calling stations to be indicated on the display panel installed at a certain station or group	• Called station (s). No.1~2.
DT-E60 CH. 9 	Calling Party/Conversation Partner Indication (One Station; One Lamp) (2)	display panel indicates all calls received while the called stations is busy or in Privacy mode. This lamp indication is maintained till the conversation with the calling party is terminated	• Called station (s). No .3-4.
DT-E60 CH. 10 	Calling Party/Conversation Partner Indication (One Station; One Lamp) (3)	has cancelled his call while waiting. Conversation partner indication (lamp type) A conversation partner is indicated on the dis-	• Called station (s). No.5~6.
DT-E60 CH. 11 	Calling Party/Conversation Partner Indication (One Station; One Lamp) (4)	group having stations with consecutive number. The lamp goes out when the conversation is finished.	• Called station (s). No.5~6.
DT-E60 CH. 12 	Destination Indication (1)	When a person makes his own Personal Number Programming at the	• Personal number 1000-1015
DT-E60 CH. 13 	Destination Indication (2)	the registration was made can be indicated by the lamp.	• Personal number 1016~1031
DT-E60 CH. 14 	In/Out Annunciation (1)	Personal in and out registration can be accomplished at any Master	• Personal number 1000~1503
DT-E60 CH. 15 	In/Out Annunciation (2)	Max. 1000 IN/OUT annunciations may be done.	• Personal number 1504~1999

13. EXPLANATION OF DATA RECEIVING UNIT OUTPUT DATA

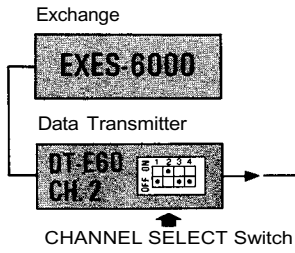
13-1 Channel 1 (CH. 1) Make/Break Output



13-2 Channel 2 (CH. 2) One-Shot Make Output

(Dial Operation)

(Relay Make min. 1 ms max. 2ms)
 XXX: 000 ~ 499 (500 contacts)
 XX: 00 ~ 49 (50 contacts)



Data Receiver

Relay Output No.

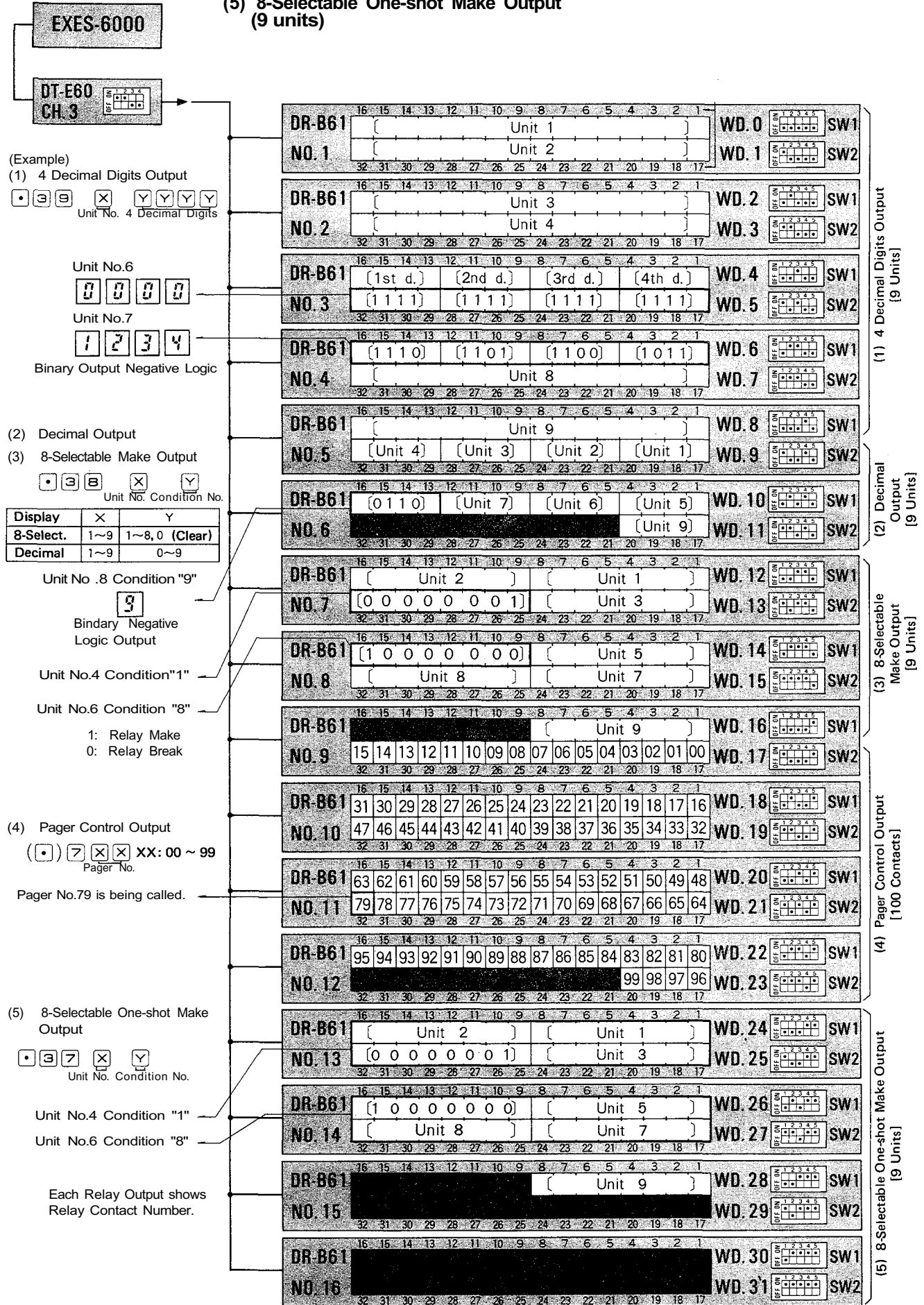
Relay Output No.	DR-B61	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16
WD 0	015	014	013	012	011	010	009	008	007	006	005	004	003	002	001	000	
WD 1	031	030	029	028	027	026	025	024	023	022	021	020	019	018	017	016	
WD 2	047	046	045	044	043	042	041	040	039	038	037	036	035	034	033	032	
WD 3	063	062	061	060	059	058	057	056	055	054	053	052	051	050	049	048	
WD 4	079	078	077	076	075	074	073	072	071	070	069	068	067	066	065	064	
WD 5	095	094	093	092	091	090	089	088	087	086	085	084	083	082	081	080	
WD 6	111	110	109	108	107	106	105	104	103	102	101	100	099	098	097	096	
WD 7	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112	
WD 8	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	
WD 9	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	
WD 10	175	174	173	172	171	170	169	168	167	166	165	164	163	162	161	160	
WD 11	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	
WD 12	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193	192	
WD 13	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	
WD 14	239	238	237	236	235	234	233	232	231	230	229	228	227	226	225	224	
WD 15	255	254	253	252	251	250	249	248	247	246	245	244	243	242	241	240	
WD 16	271	270	269	268	267	266	265	264	263	262	261	260	259	258	257	256	
WD 17	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	
WD 18	303	302	301	300	299	298	297	296	295	294	293	292	291	290	289	288	
WD 19	319	318	317	316	315	314	313	312	311	310	309	308	307	306	305	304	
WD 20	335	334	333	332	331	330	329	328	327	326	325	324	323	322	321	320	
WD 21	351	350	349	348	347	346	345	344	343	342	341	340	339	338	337	336	
WD 22	367	366	365	364	363	362	361	360	359	358	357	356	355	354	353	352	
WD 23	393	382	381	380	379	378	377	376	375	374	373	372	371	370	369	368	
WD 24	399	398	397	396	395	394	393	392	391	390	389	388	387	386	385	384	
WD 25	415	414	413	412	411	410	409	408	407	406	405	404	403	402	401	400	
WD 26	431	430	429	428	427	426	425	424	423	422	421	420	419	418	417	416	
WD 27	447	446	445	444	443	442	441	440	439	438	437	436	435	434	433	432	
WD 28	463	462	461	460	459	458	457	456	455	454	453	452	451	450	449	448	
WD 29	479	478	477	476	475	474	473	472	471	470	469	468	467	466	465	464	
WD 30	495	494	493	492	491	490	489	488	487	486	485	484	483	482	481	480	
WD 31														499	498	497	496

Each Relay Output shows Relay Contact Number.

Note: () shows the Head of a Slide Switch

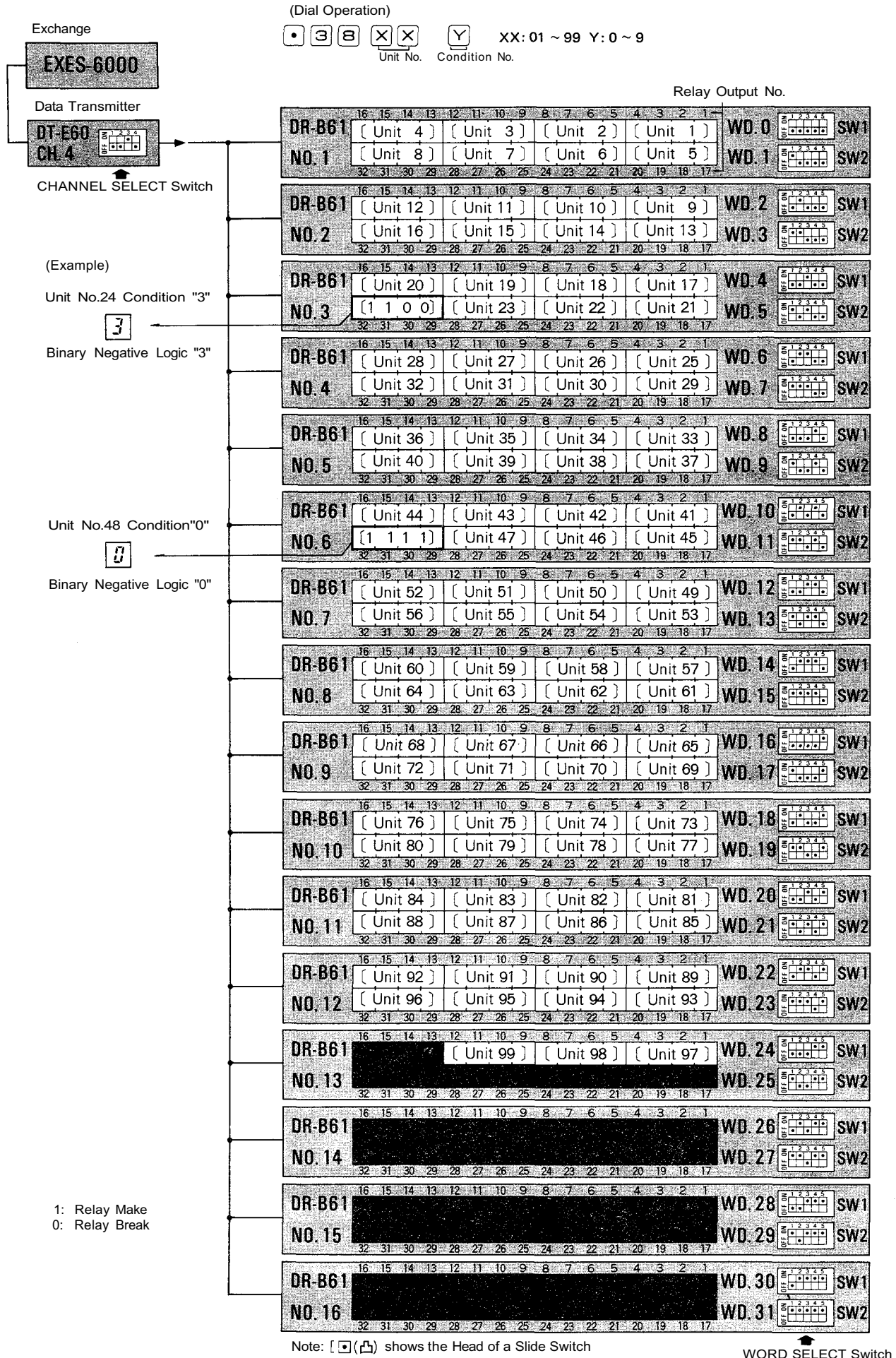
WORD SELECT Switch

13-3 Channel 3 (CH. 3) (1) 4 Decimal Digits Output (9 units) (2) Decimal Output (9 units)
 (3) 8-Selectable Make Output (9 units) (4) Pager Control Output (100 contacts)
 (5) 8-Selectable One-shot Make Output (9 units)

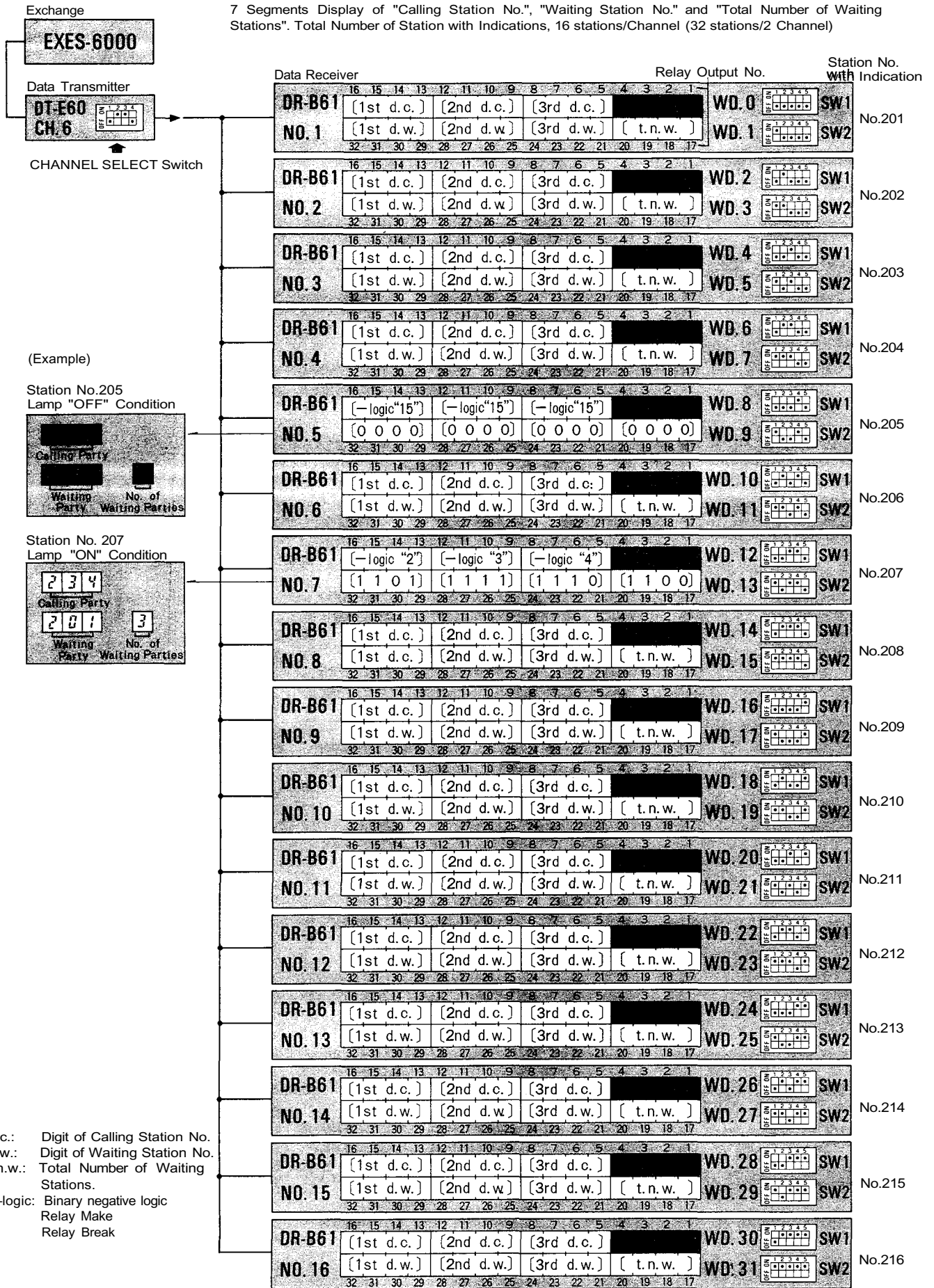


Note: shows the Head of a Slide Switch WORD SELECT Switch

13-4 Channel 4 (CH. 4) Decimal Output (99 Units)



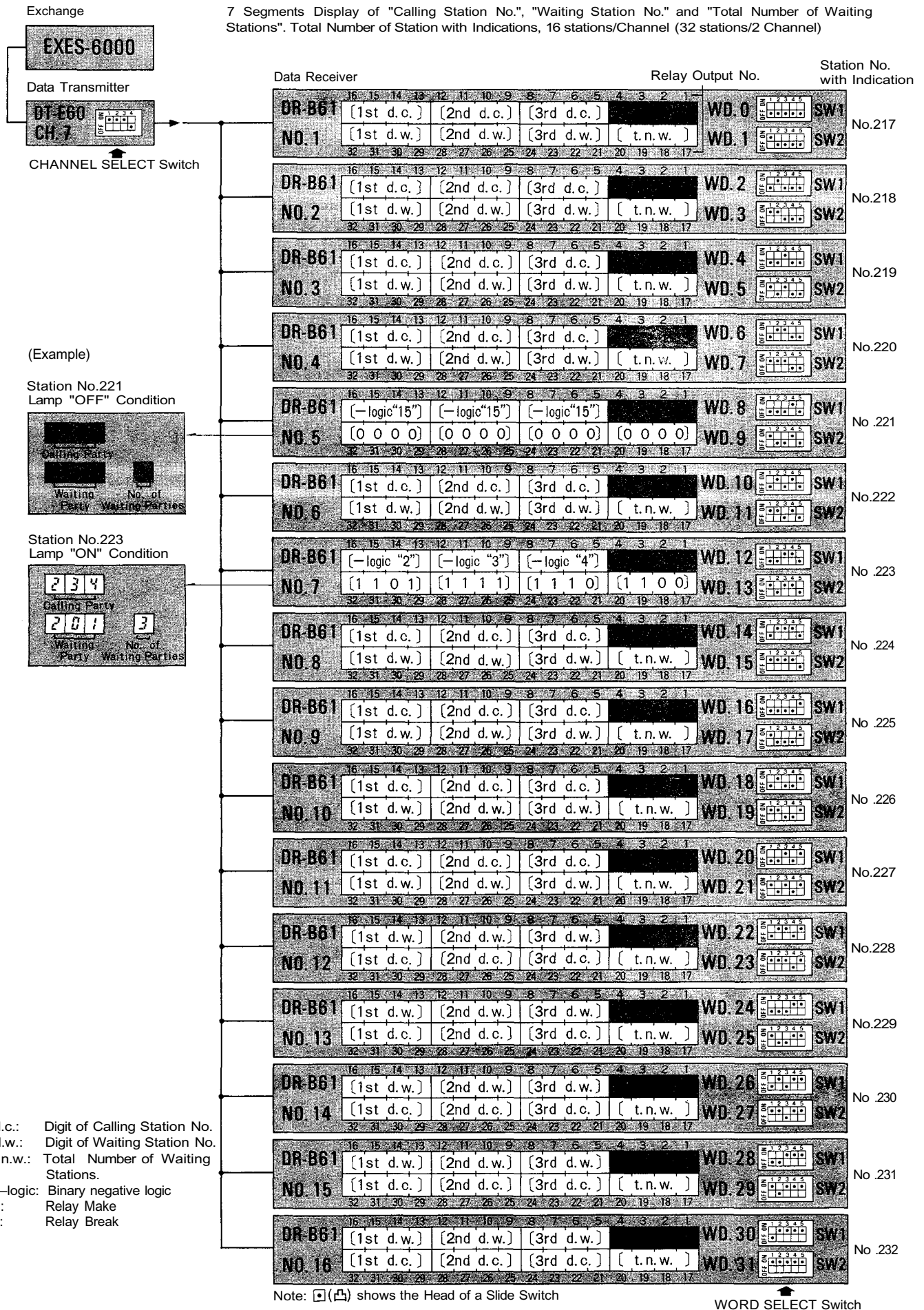
13-6 Channel 6 (CH. 6) Calling Party Indication Numerical Type (1)



Note: □ (凸) shows the Head of a Slide Switch

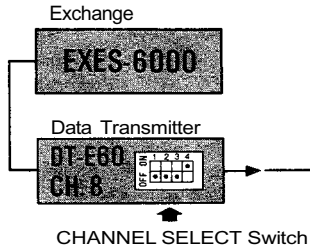
WORD SELECT Switch

13-7 Channel 7 (CH. 7) Calling Party Indication Numerical Type (2)



13-8 Channel 8 (CH. 8) Calling Party/Conversation Partner Indication (Lamp Type) (1)

Indication of calling or waiting station and conversation partner by lamp.
 Total Number of Station with Indications: 2 Stations /Channel (8 Stations /4 Channels)
 Total Number of Calling Stations: Max. 256 Stations/Each Indication



		Data Receiver																Relay Output No.		Station No. with Indication
		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1			
DR-B61 NO. 1	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 0	SW1	SW1	
	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216				WD. 1
DR-B61 NO. 2	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	WD. 2	SW1	SW2	
	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248				WD. 3
DR-B61 NO. 3	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264	WD. 4	SW1	SW2	
	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280				WD. 5
DR-B61 NO. 4	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	WD. 6	SW1	SW2	
	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312				WD. 7
DR-B61 NO. 5	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	WD. 8	SW1	SW2	
	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344				WD. 9
DR-B61 NO. 6	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360	WD. 10	SW1	SW2	
	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376				WD. 11
DR-B61 NO. 7	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392	WD. 12	SW1	SW2	
	423	422	421	420	419	418	417	416	415	414	413	412	411	410	409	408				WD. 13
DR-B61 NO. 8	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424	WD. 14	SW1	SW2	
	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441	440				WD. 15
DR-B61 NO. 9	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 16	SW1	SW2	
	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216				WD. 17
DR-B61 NO. 10	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	WD. 18	SW1	SW2	
	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248				WD. 19
DR-B61 NO. 11	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264	WD. 20	SW1	SW2	
	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280				WD. 21
DR-B61 NO. 12	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	WD. 22	SW1	SW2	
	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312				WD. 23
DR-B61 NO. 13	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	WD. 24	SW1	SW2	
	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344				WD. 25
DR-B61 NO. 14	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360	WD. 26	SW1	SW2	
	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376				WD. 27
DR-B61 NO. 15	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392	WD. 28	SW1	SW2	
	423	422	421	420	419	418	417	416	415	414	413	412	411	410	409	408				WD. 29
DR-B61 NO. 16	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424	WD. 30	SW1	SW2	
	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441	440				WD. 31

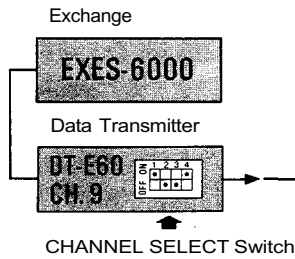
Each Relay Output shows "Calling Station No. or Conversation Partner"

Note: □ (凸) shows the Head of a Slide Switch

WORD SELECT Switch

13-9 Channel 9 (CH. 9) Calling Party/Conversation Partner Indication (Lamp Type) (2)

Indication of calling or waiting station and conversation partner by lamp.
 Total Number of Station with Indications: 2 Stations/Channel (8 Stations /4 Channels)
 Total Number of Calling Stations: Max. 256 Stations/Each Indication



Data Receiver

Relay Output No.

Station No. with Indication

DR-B61 NO. 1	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200	WD. 0	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 216	WD. 1	SW2
DR-B61 NO. 2	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	247 246 245 244 243 242 241 240 239 238 237 236 235 234 233 232	WD. 2	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	263 262 261 260 259 258 257 256 255 254 253 252 251 250 249 248	WD. 3	SW2
DR-B61 NO. 3	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264	WD. 4	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	295 294 293 292 291 290 289 288 287 286 285 284 283 282 281 280	WD. 5	SW2
DR-B61 NO. 4	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296	WD. 6	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	327 326 325 324 323 322 321 320 319 318 317 316 315 314 313 312	WD. 7	SW2
DR-B61 NO. 5	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328	WD. 8	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	359 358 357 356 355 354 353 352 351 350 349 348 347 346 345 344	WD. 9	SW2
DR-B61 NO. 6	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360	WD. 10	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	391 390 389 388 387 386 385 384 383 382 381 380 379 378 377 376	WD. 11	SW2
DR-B61 NO. 7	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392	WD. 12	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408	WD. 13	SW2
DR-B61 NO. 8	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424	WD. 14	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	455 454 453 452 451 450 449 448 447 446 445 444 443 442 441 440	WD. 15	SW2
DR-B61 NO. 9	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200	WD. 16	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 216	WD. 17	SW2
DR-B61 NO. 10	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	247 246 245 244 243 242 241 240 239 238 237 236 235 234 233 232	WD. 18	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	263 262 261 260 259 258 257 256 255 254 253 252 251 250 249 248	WD. 19	SW2
DR-B61 NO. 11	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264	WD. 20	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	295 294 293 292 291 290 289 288 287 286 285 284 283 282 281 280	WD. 21	SW2
DR-B61 NO. 12	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296	WD. 22	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	327 326 325 324 323 322 321 320 319 318 317 316 315 314 313 312	WD. 23	SW2
DR-B61 NO. 13	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328	WD. 24	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	359 358 357 356 355 354 353 352 351 350 349 348 347 346 345 344	WD. 25	SW2
DR-B61 NO. 14	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360	WD. 26	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	391 390 389 388 387 386 385 384 383 382 381 380 379 378 377 376	WD. 27	SW2
DR-B61 NO. 15	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392	WD. 28	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408	WD. 29	SW2
DR-B61 NO. 16	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424	WD. 30	SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	455 454 453 452 451 450 449 448 447 446 445 444 443 442 441 440	WD. 31	SW2

Group 3
No. _____

Group 4
No. _____

Each Relay Output shows "Calling Station No. or Conversation Partner"

Note: shows the Head of a Slide Switch

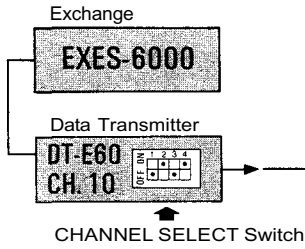
WORD SELECT Switch

13-10 Channel 10 (CH. 10) Calling Party/Conversation Partner Indication (Lamp Type) (3)

Indication of calling or waiting station and conversation partner by lamp.

Total Number of Station with Indications: 2 Stations/Channel (8 Stations/4 Channels)

Total Number of Calling Stations: Max. 256 Stations/Each Indication



Data Receiver		Relay Output No.																Station No. with Indication		
DR-B61 NO. 1	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 0	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216	WD. 1	SW2	
DR-B61 NO. 2	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	WD. 2	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248	WD. 3	SW2	
DR-B61 NO. 3	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264	WD. 4	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280	WD. 5	SW2	
DR-B61 NO. 4	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	WD. 6	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312	WD. 7	SW2	
DR-B61 NO. 5	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	WD. 8	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344	WD. 9	SW2	
DR-B61 NO. 6	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360	WD. 10	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376	WD. 11	SW2	
DR-B61 NO. 7	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392	WD. 12	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	423	422	421	420	419	418	417	416	415	414	413	412	411	410	409	408	WD. 13	SW2	
DR-B61 NO. 8	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424	WD. 14	SW1	Group 5 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441	440	WD. 15	SW2	
DR-B61 NO. 9	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 16	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216	WD. 17	SW2	
DR-B61 NO. 10	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	WD. 18	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248	WD. 19	SW2	
DR-B61 NO. 11	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264	WD. 20	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280	WD. 21	SW2	
DR-B61 NO. 12	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	WD. 22	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312	WD. 23	SW2	
DR-B61 NO. 13	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	WD. 24	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344	WD. 25	SW2	
DR-B61 NO. 14	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360	WD. 26	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376	WD. 27	SW2	
DR-B61 NO. 15	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392	WD. 28	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	423	422	421	420	419	418	417	416	415	414	413	412	411	410	409	408	WD. 29	SW2	
DR-B61 NO. 16	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424	WD. 30	SW1	Group 6 No. _____
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441	440	WD. 31	SW2	

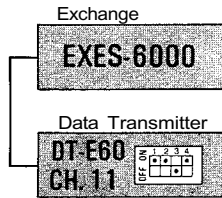
Each Relay Output shows "Calling Station No. or Conversation Partner"

Note: shows the Head of a Slide Switch

WORD SELECT Switch

13-11 Channel 11 (CH. 11) Calling Party/Conversation Partner Indication (Lamp Type) (4)

Indication of calling or waiting station and conversation partner by lamp.
 Total Number of Station with Indications: 2 Stations/Channel (8 Stations/4 Channels)
 Total Number of Calling Stations: 256 Stations/Each Indication



CHANNEL SELECT Switch

Data Receiver		Relay Output No.																Station No. with Indication		
DR-B61 NO. 1	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 0		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216			
DR-B61 NO. 2	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	WD. 2		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248			
DR-B61 NO. 3	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264	WD. 4		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280			
DR-B61 NO. 4	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	WD. 6		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312			
DR-B61 NO. 5	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	WD. 8		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344			
DR-B61 NO. 6	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360	WD. 10		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376			
DR-B61 NO. 7	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392	WD. 12		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	423	422	421	420	419	418	417	416	415	414	413	412	411	410	409	408			
DR-B61 NO. 8	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424	WD. 14		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441	440			
DR-B61 NO. 9	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 16		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216			
DR-B61 NO. 10	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	WD. 18		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248			
DR-B61 NO. 11	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264	WD. 20		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280			
DR-B61 NO. 12	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	WD. 22		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312			
DR-B61 NO. 13	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	WD. 24		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344			
DR-B61 NO. 14	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360	WD. 26		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376			
DR-B61 NO. 15	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392	WD. 28		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	423	422	421	420	419	418	417	416	415	414	413	412	411	410	409	408			
DR-B61 NO. 16	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424	WD. 30		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441	440			

Each Relay Output shows "Calling Station No. or Conversation Partner"

Note: □ (凸) shows the Head of a Slide Switch

WORLD SELECT Switch

13-12 Channel 12 (CH. 12) Destination Indication (1)

(Dial Operation)

• Registration of Personal Number 6 1 0 X X

XX: 00~31

• Cancellation of Personal Number 1 0 X X

Personal Number: Max. 32 persons (No.1000~1031)

Station Number which shows Person's Destination: Max. 32 stations (No.201~232)

Exchange



Date Transmitter



CHANNEL SELECT Switch

Data Receiver

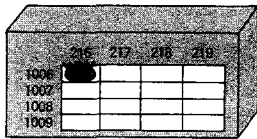
Relay Output No.

Personal Number

Station No.	Data Receiver	Relay Output No.	Personal Number
NO. 1	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 0 SW1 WD. 1 SW2	No. 1000
NO. 2	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 2 SW1 WD. 3 SW2	No. 1001
NO. 3	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 4 SW1 WD. 5 SW2	No. 1002
NO. 4	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 6 SW1 WD. 7 SW2	No. 1003
NO. 5	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 8 SW1 WD. 9 SW2	No. 1004
NO. 6	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 10 SW1 WD. 11 SW2	No. 1005
NO. 7	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 12 SW1 WD. 13 SW2	No. 1006
NO. 8	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 14 SW1 WD. 15 SW2	No. 1007
NO. 9	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 16 SW1 WD. 17 SW2	No. 1008
NO. 10	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 18 SW1 WD. 19 SW2	No. 1009
NO. 11	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 20 SW1 WD. 21 SW2	No. 1010
NO. 12	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 22 SW1 WD. 23 SW2	No. 1011
NO. 13	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 24 SW1 WD. 25 SW2	No. 1012
NO. 14	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 26 SW1 WD. 27 SW2	No. 1013
NO. 15	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 28 SW1 WD. 29 SW2	No. 1014
NO. 16	DR-B61 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217	WD. 30 SW1 WD. 31 SW2	No. 1015

EXAMPLE

Indication Panel-lamp on.
A person "No.1006" registers his Personal Number at the station "No.216", then the Relay contact "No.216" turns into "Make". Each Station Relay Output shows "Station No. of Person's Destination"



Each Relay Output shows "Station No. of Person's Destination"

Note: () shows the Head of a Slide Switch

WORD SELECT Switch

13-13 Channel 13 (CH. 13) Destination Indication (2)

(Dial Operation)

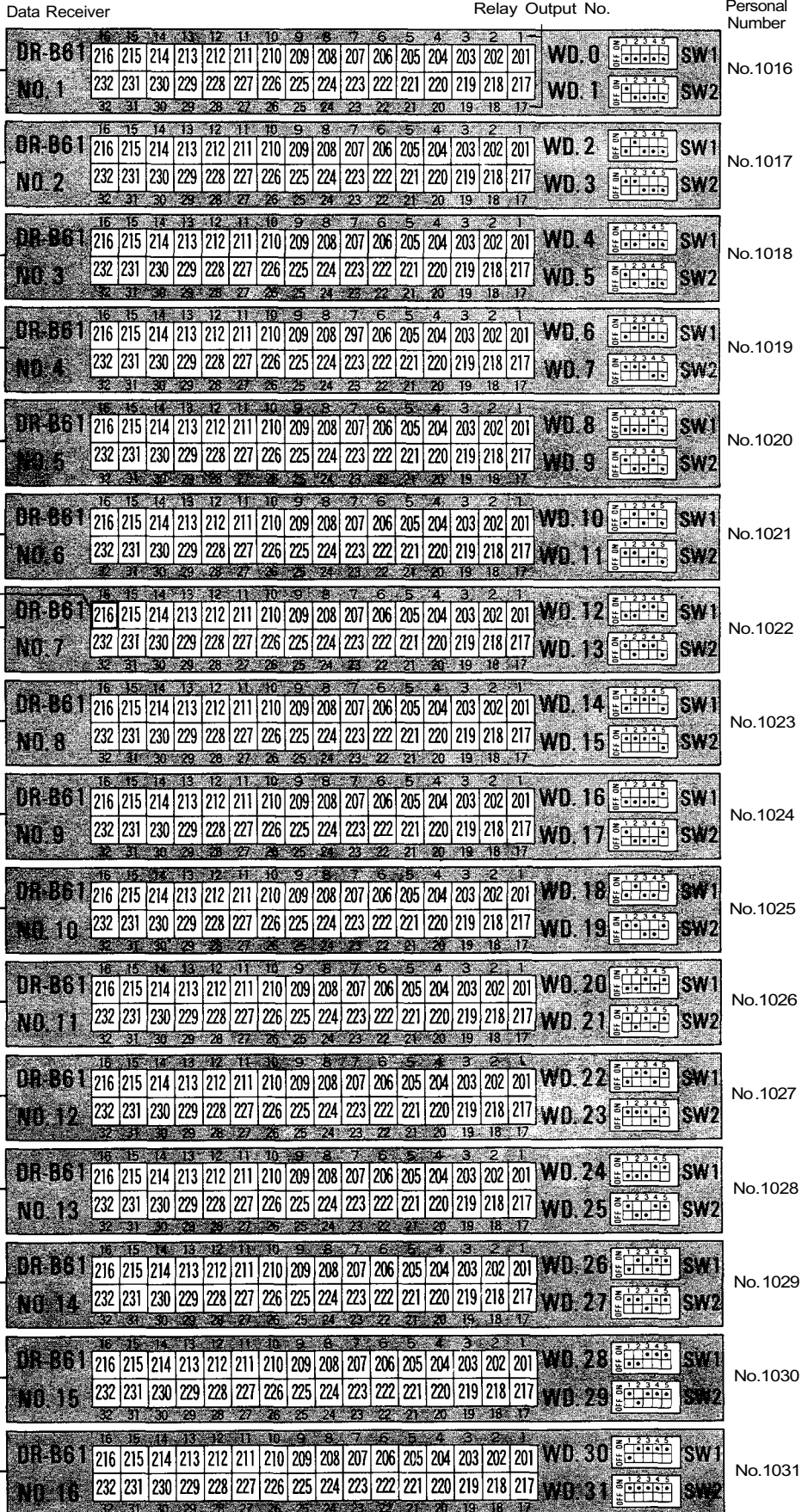
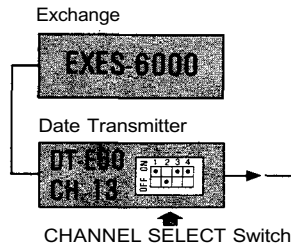
• Registration of Personal Number 6 1 0 X X

XX: 00~31

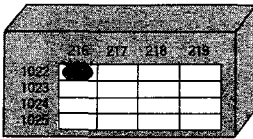
• Cancellation of Personal Number 1 0 X X

Personal Number: Max. 32 persons (No.1000~1031)

Station Number which shows Person's Destination: Max. 32 stations (No.201~232)



EXAMPLE
 Indication Panel-Hamp on.
 A person "No.1022" registers his Personal Number at the station "No.216", then the Relay contact "No.216" turns into "Make".
 Each Relay Output shows "Station No. of Person's Destination"

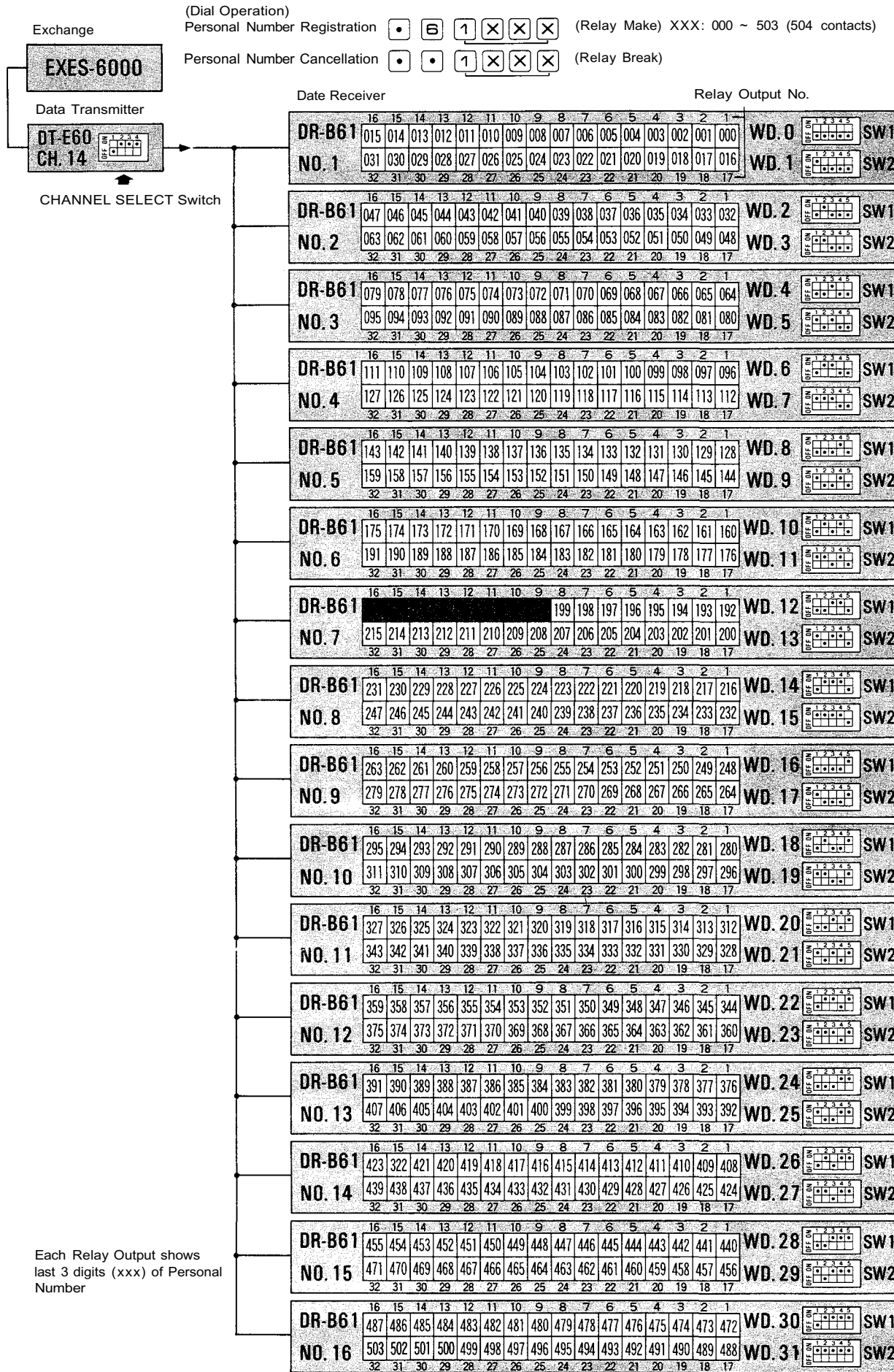


Each Relay Output shows "Station No. of Person's Destination"

Note: () shows the Head of a Slide Switch

WORD SELECT Switch

13-14 Channel 14 (CH. 14) In/Out Annunciation (1) (504 persons)

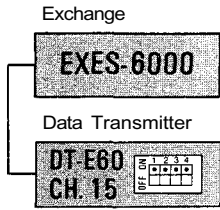


13-15 Channel 15 (CH. 15) In/Out Annunciation (2) (496 persons)

(Dial Operation)

Personal Number Registration (Relay Make) XXX: 000 ~ 499 (500 Contacts)

Personal Number Cancellation (Relay Break)



CHANNEL SELECT Switch

Data Receiver

Relay Output No.

DR-B61 NO. 1	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	519 518 517 516 515 514 513 512 511 510 509 508 507 506 505 504	WD. 0		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	535 534 533 532 531 530 529 528 527 526 525 524 523 522 521 520	WD. 1		SW2
DR-B61 NO. 2	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	551 550 549 548 547 546 545 544 543 542 541 540 539 538 537 536	WD. 2		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	567 566 565 564 563 562 561 560 559 558 557 556 555 554 553 552	WD. 3		SW2
DR-B61 NO. 3	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	583 582 581 580 579 578 577 576 575 574 573 572 571 570 569 568	WD. 4		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	599 598 597 596 595 594 593 592 591 590 589 588 587 586 585 584	WD. 5		SW2
DR-B61 NO. 4	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	615 614 613 612 611 610 609 608 607 606 605 604 603 602 601 600	WD. 6		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	631 630 629 628 627 626 625 624 623 622 621 620 619 618 617 616	WD. 7		SW2
DR-B61 NO. 5	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	647 646 645 644 643 642 641 640 639 638 637 636 635 634 633 632	WD. 8		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	663 662 661 660 659 658 657 656 655 654 653 652 651 650 649 648	WD. 9		SW2
DR-B61 NO. 6	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	679 678 677 676 675 674 673 672 671 670 669 668 667 666 665 664	WD. 10		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	695 694 693 692 691 690 689 688 687 686 685 684 683 682 681 680	WD. 11		SW2
DR-B61 NO. 7	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	711 710 709 708 707 706 705 704 703 702 701 700 699 698 697 696	WD. 12		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	727 726 725 724 723 722 721 720 719 718 717 716 715 714 713 712	WD. 13		SW2
DR-B61 NO. 8	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	743 742 741 740 739 738 737 736 735 734 733 732 731 730 729 728	WD. 14		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	759 758 757 756 755 754 753 752 751 750 749 748 747 746 745 744	WD. 15		SW2
DR-B61 NO. 9	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	775 774 773 772 771 770 769 768 767 766 765 764 763 762 761 760	WD. 16		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	791 790 789 788 787 786 785 784 783 782 781 780 779 778 777 776	WD. 17		SW2
DR-B61 NO. 10	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	807 806 805 804 803 802 801 800 799 798 797 796 795 794 793 792	WD. 18		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	823 822 821 820 819 818 817 816 815 814 813 812 811 810 809 808	WD. 19		SW2
DR-B61 NO. 11	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	839 838 837 836 835 834 833 832 831 830 829 828 827 826 825 824	WD. 20		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	855 854 853 852 851 850 849 848 847 846 845 844 843 842 841 840	WD. 21		SW2
DR-B61 NO. 12	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	871 870 869 868 867 866 865 864 863 862 861 860 859 858 857 856	WD. 22		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	887 886 885 884 883 882 881 880 879 878 877 876 875 874 873 872	WD. 23		SW2
DR-B61 NO. 13	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	903 902 901 900 899 898 897 896 895 894 893 892 891 890 889 888	WD. 24		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904	WD. 25		SW2
DR-B61 NO. 14	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920	WD. 26		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	951 950 949 948 947 946 945 944 943 942 941 940 939 938 937 936	WD. 27		SW2
DR-B61 NO. 15	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	967 966 965 964 963 962 961 960 959 958 957 956 955 954 953 952	WD. 28		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	983 982 981 980 979 978 977 976 975 974 973 972 971 970 969 968	WD. 29		SW2
DR-B61 NO. 16	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	999 998 997 996 995 994 993 992 991 990 989 988 987 986 985 984	WD. 30		SW1
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17		WD. 31		SW2

Each Relay Output shows last 3 digits (xxx) of Personal Number

Note: shows the Head of a Slide Switch

WORLD SELECT Switch

