



INTERCOM SYSTEM

EXES-6000 CP-64

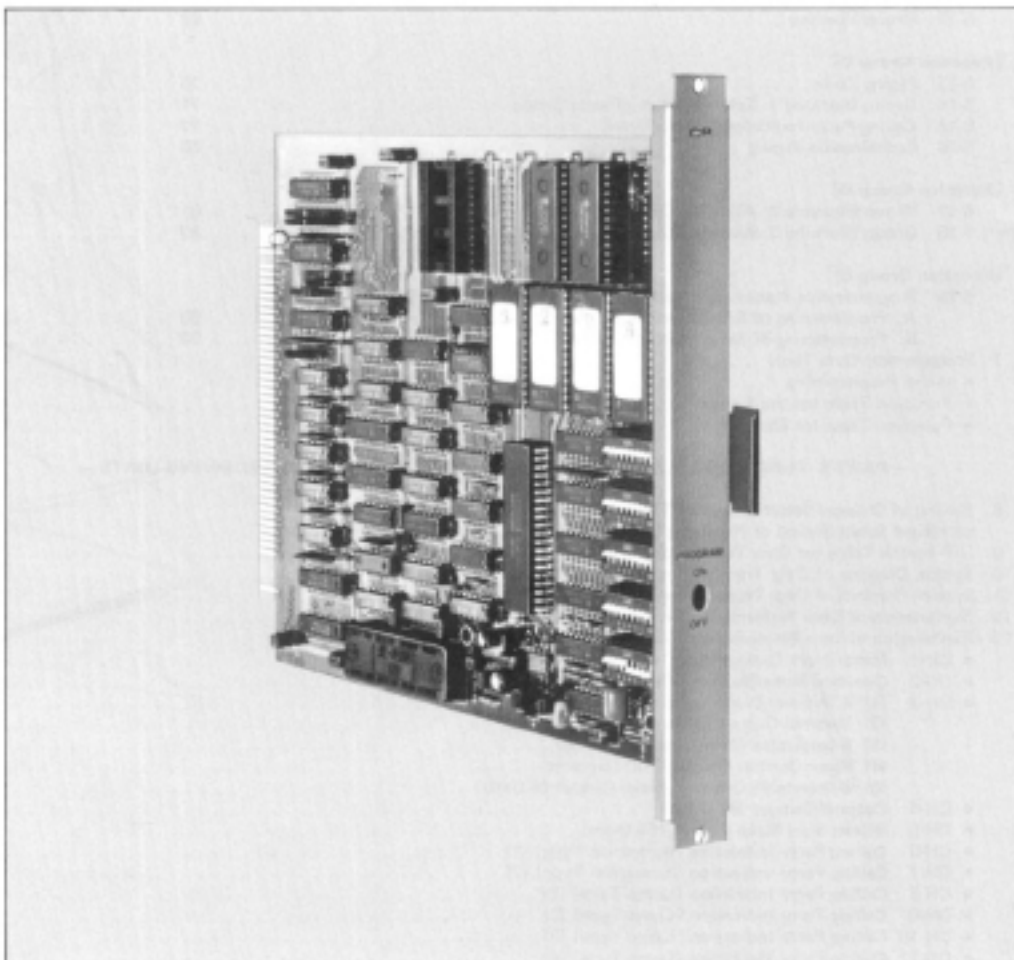
For _____

TOA EXES-6000 INTERCOM SYSTEM

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

CP-64

INSTALLATION HAND BOOK



TOA ELECTRIC CO, LTD.

KOBE, JAPAN

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● 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-64 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:

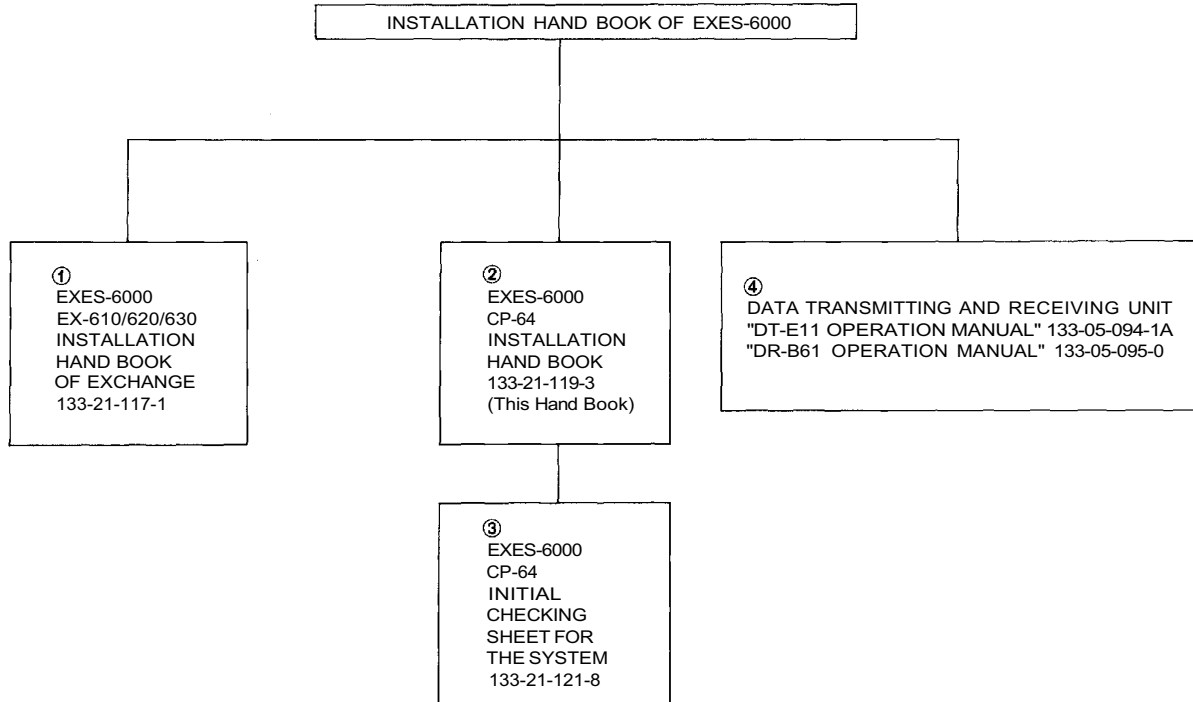
- (1) Connection of the additional equipment, as required.
- (2) Selection of functions which satisfy your needs and setting up these functions in the respective equipment.

For (1) Connections of Equipment, etc., refer to "① Installation Handbook of Model EX-610/620/630 EXCHANGE" or "④ Operation Manual of Data Transmitting and Receiving Units", etc.

This "Installation Handbook of CP-64" deals principally with (2) Selection of functions and setting up of respective equipment.

This Handbook also explains the connection method for the EXES-6000 Tie-line System using the CP-64 and the TI-62 units.

There are certain minimum installation requirements to be met even through you may not need many additional functions or additional equipment, **it is still necessary to read "2. Initial CP-64 Set Up (Page 10)"**, 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

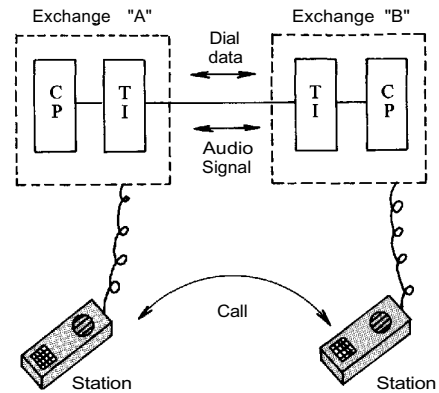
1. Functions of the Central Processing Unit CP-64 and Tie-line Interface Unit TI-62

To make communications between exchanges possible in the EXES-6000 system, the CP-64 and the Tie-line Interface Unit TI-62 are required in addition to the exchange EX-630.

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-64 transmits the dial data signals to the TI-62 and instructs it to make calls to the other exchange. The CP-64 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-64.



2. Number of stations, paging zones and links

Composition of exchange (s)	Maximum number of links within own exchange	Maximum number of links between tielined exchanges	Number of exchange	Maximum number of stations	Maximum number of paiging zones
① Without tie-lines Single Exchange (EX-1)	16	X	1	256	All call +31 zones
② 2 exchanges Exchange "A" (EX-2A) — 16 links — Exchange "B" (EX-2B)	16 *1	16 *2	2	512	All call +30 zones *4 (15 zones/ 1 exchange)
③ 3 exchanges Exchange "A" (EX-3A) Exchange "C" (EX-3C) — 8 links — Exchange "B" (EX-3B)	16 *1	8 between each tielined link *3	3	768	All call +45 zones (15 zones/ 1 exchange)

*1 The links within own exchange as well as the tie-line links are used in each tie-line communication.

*2 Each exchange needs one or two Tie-line Interface Unit TI-62.

*3 Each exchange needs two Tie-line Interface units TI-62.

*4 All call paging is provided to all the paging zones of all the exchanges connected by tie-line.

3. Numbering schedule for stations and paging zones

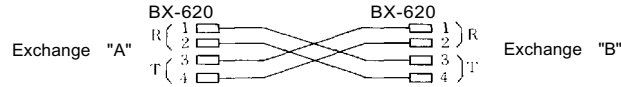
Type of exchange	Numbering for stations		Numbering for paging zones	
	Standard	Without personal number	All call	Zone
Single Exchange (EX-1)	200~455	100~355 *1	0 (00)	1~9 *2 (01-31)
Exchange "A" (EX-2A/3A)			00	01~15
Exchange "B" (EX-2B/3B)	470~725	400~655 *1		16~30
Exchange "C" (EX-3C)	740~995	700~955 *1		31~45

*1 The first station number of each exchange can be set as any of the following numbers:
100/200/300/400/500/600/700/800/900

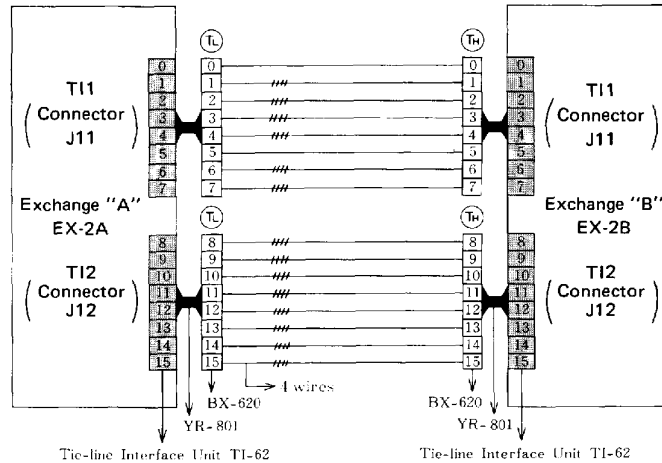
*2 No.1 through 8 are employed for Combination Paging.

● WIRING FOR TIE-LINE CONNECTION OF THE EXCHANGES

- Each exchange can be connected by means of a cable with a diameter of 0.65mm (25.6 mils.) for a 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.

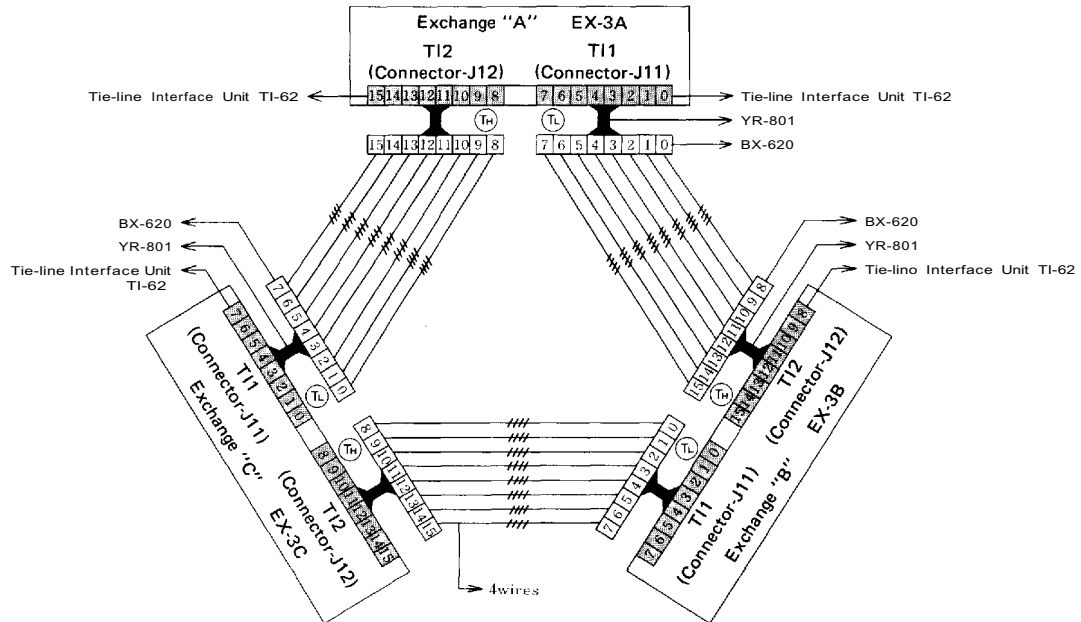


1. Wiring for tie-line connection of 2 exchanges



- 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.

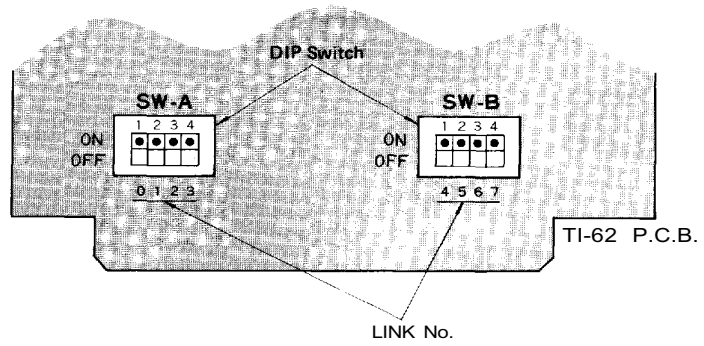
2. Wiring for tie-line connection of 3 exchanges



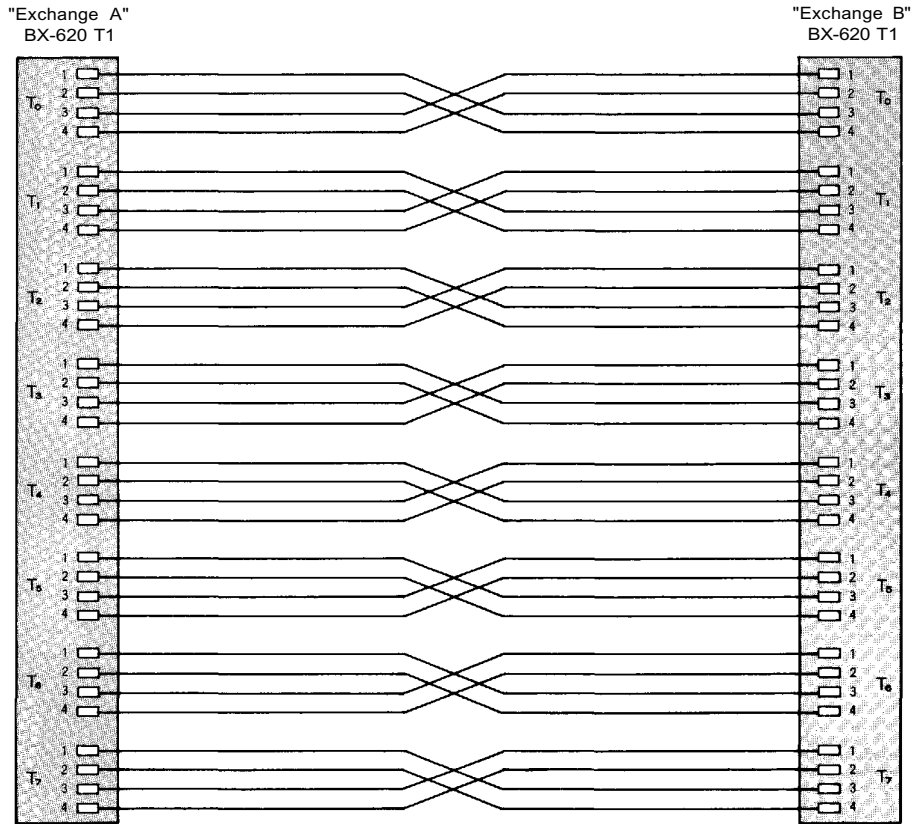
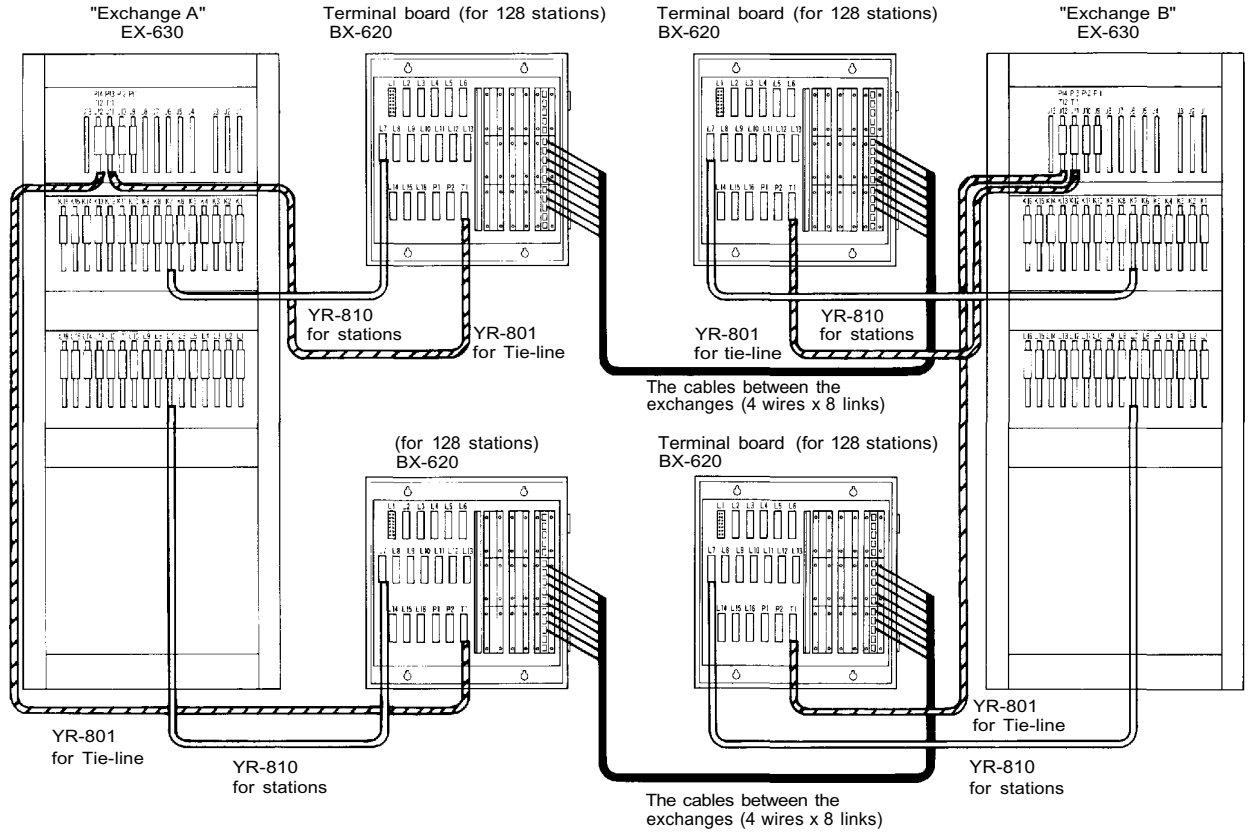
- Note 1. Judging from the front of the exchange, TI-62 (T11) (connector J11) is the left-hand unit and TI-62 (T12) (connector J12) is the right-hand unit.
- Note 2. Be sure to connect connector T11(J11) to T12(J12) between the exchanges. Connection of T11 (J11) to T11(J11) or T12(J12) to T12(J12) will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

3. DIP Switch selection

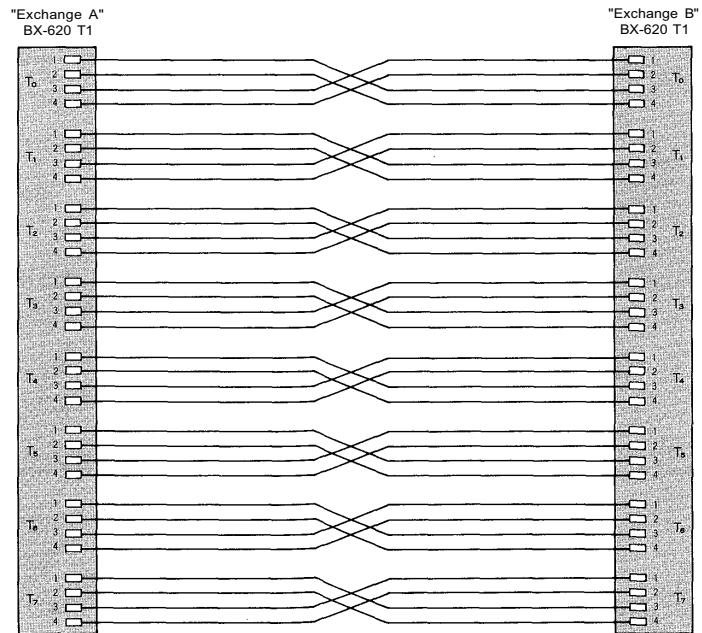
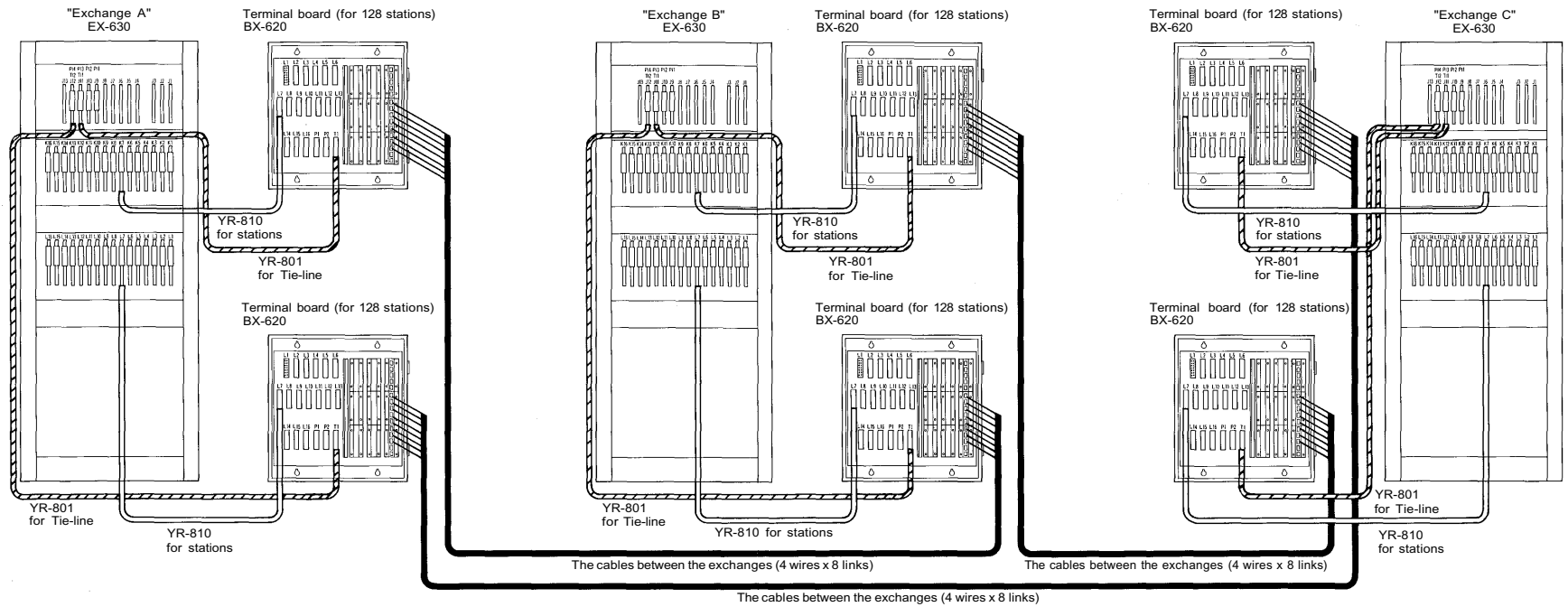
1. Switching arrangements of DIP switches (E-1, E-2, E-3) in the CP-63 make each exchange to be of "EX-1" or "EX-2A" or "EX-2B" or "EX-3A" or "EX-3B" or "EX-3C" type. (See "4. CP-64 Dip Switches for Function Selection" P14)
2. In the event of the tieline link not to be used, turn off its corresponding DIP switch on the TI-62 unit.



4. The 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-64

Please read following instructions carefully to ensure proper operation of the CP-64

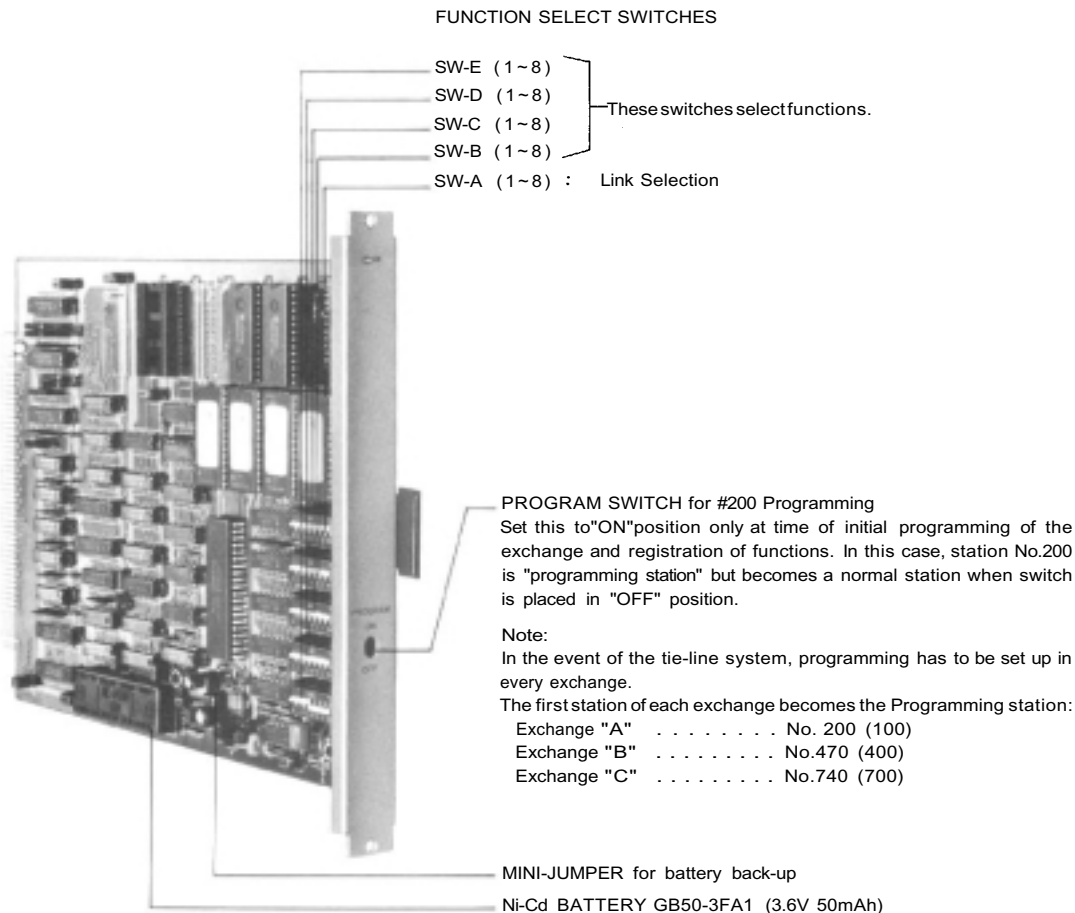
1. Be careful about damage by static electricity as the CP-64 incorporates CMOS IC's. Do not touch components and connectors.
2. Turn off the AC power switch when you take out or insert the CP-64 unit, or any other unit.
3. Always insert the CP-64 unit into the "CP" slot. Otherwise, there is a danger 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-64 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))

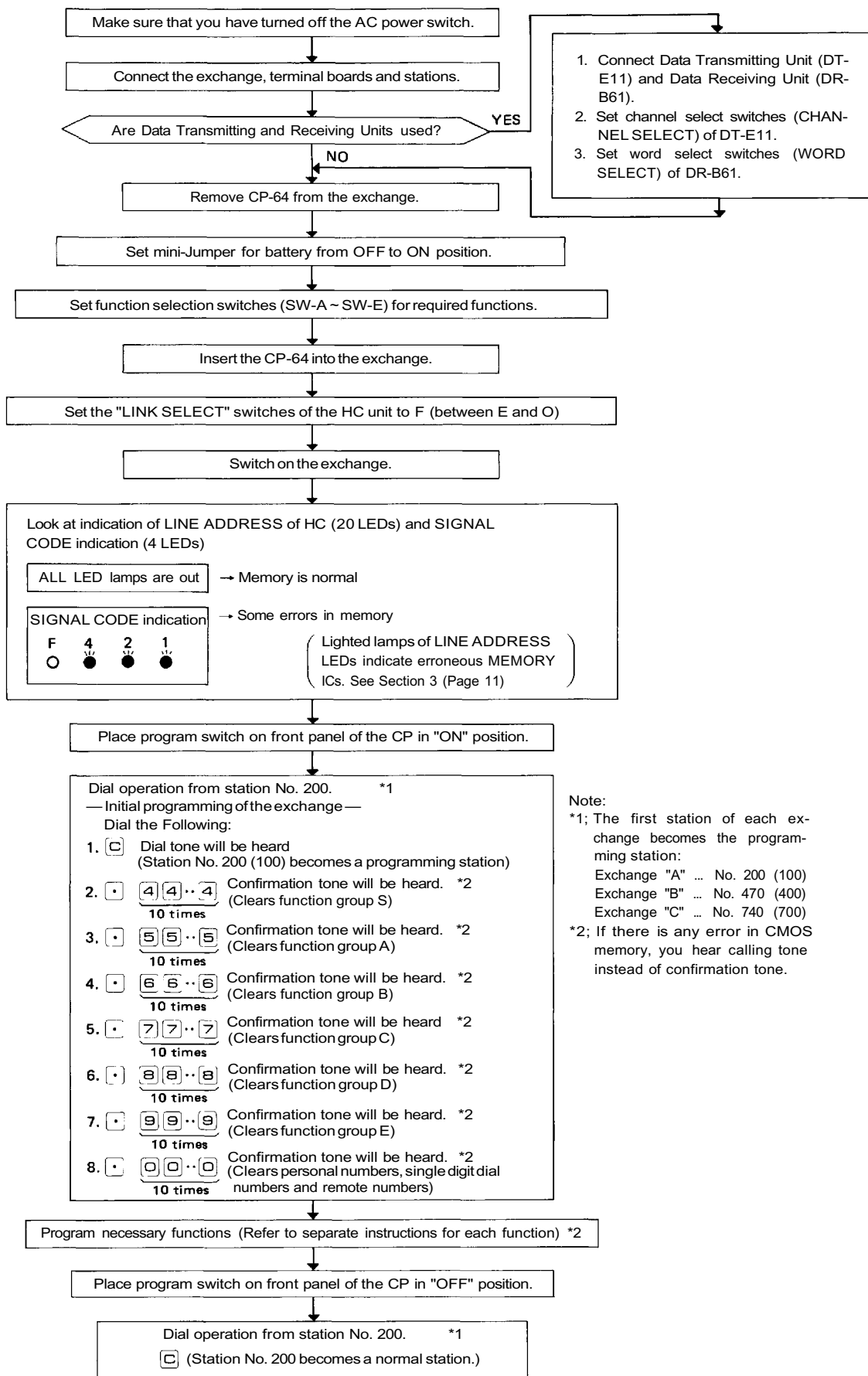
8. We suggest you replace the soldered button battery GB50-3FA1 (115-42-031-9) with the new one according to the following list that shows an expected life span of the battery.
Be sure to make the station No.200 programming after replacement of the battery.

●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-64 unit independently, place the mini-jumper for battery back-up in "OFF" position. Cover the CP back with cardboard, wrap connector section in aluminum foil and put it in a conductive bag.





3. TROUBLE SHOOTING

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

1. Set the "LINK SELECT" switches of the HC to F (between E and O) 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.

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 lies alight, it is possible that any of the CP, 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 Dial receiving test

1. Instead of the PI-62 unit, use the PIU-52A (a unit used in the EXES-5000 System) to check the dial receiving section of the CP also to check if the signal is correctly transmitted as dialed from the station to be tested.
2. If you place all "LINK SELECT" switches (1 ~ 4) of SW-A on the CP-64 in "OFF" position, conversation is impossible but the dial code from each station is indicated on the LED's of the PIU as dialed. Use this to find the cause of any fault of receiving dial information.

3. With use of the PI-62 unit fitted with no LED, you can also check that the CP receives the dial signal by hearing the click sound of the relay produced when it is activated.

Fig. 2 DIP switches (SW-A of the CP)

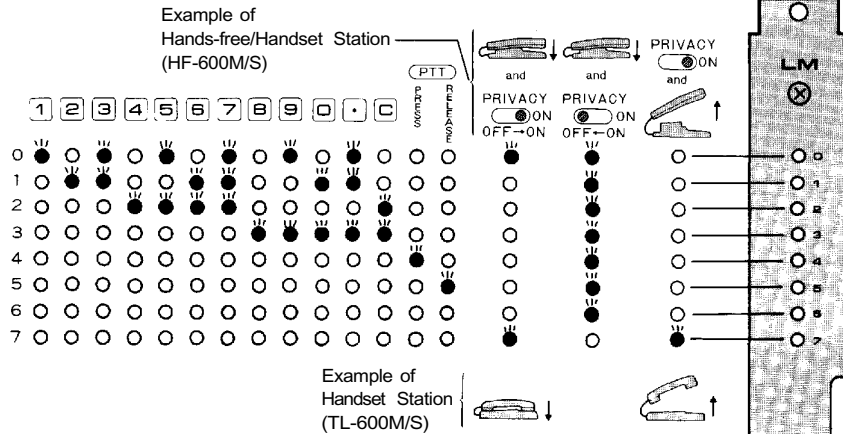
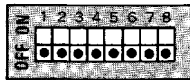


Fig. 3 Dial code indication

3-5 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 may lead to trouble later.
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 133-21-121-8) as a part of complete drawings for each installation.

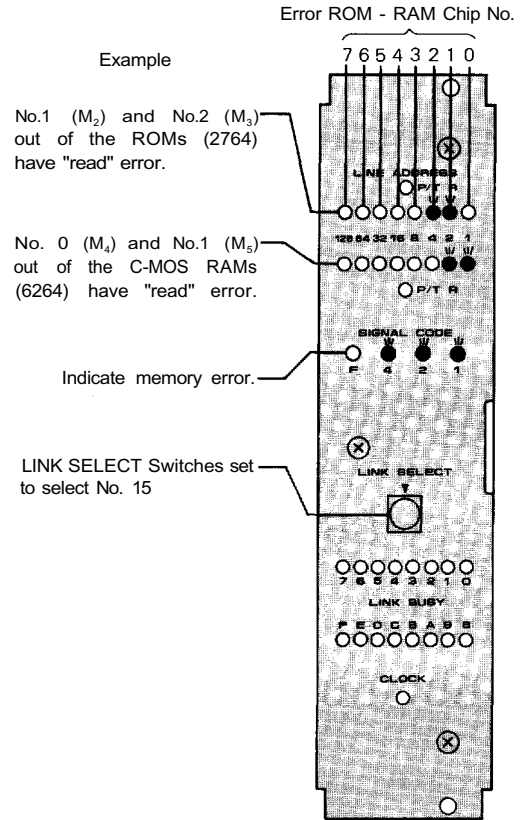


Fig. 1

PIU-52A unit

3-6 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.

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

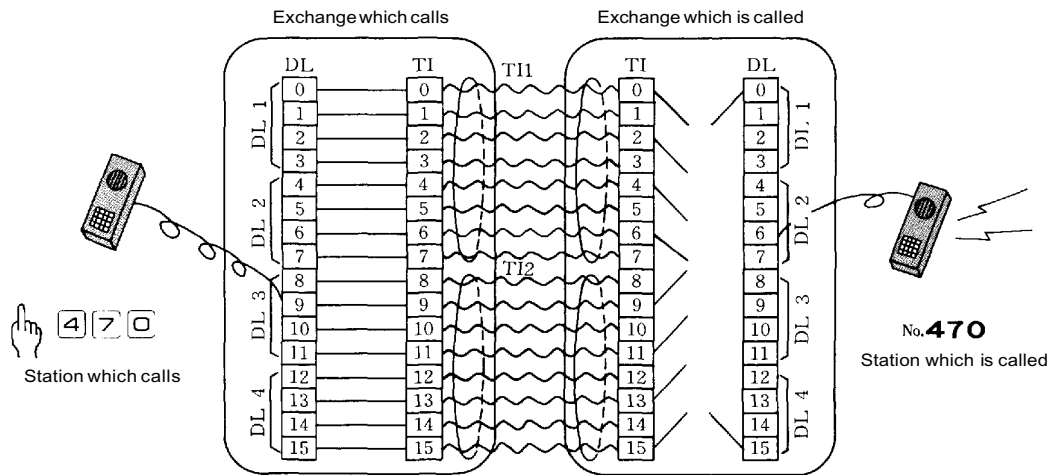


Fig. 1

2. Tie-line for 3 exchanges

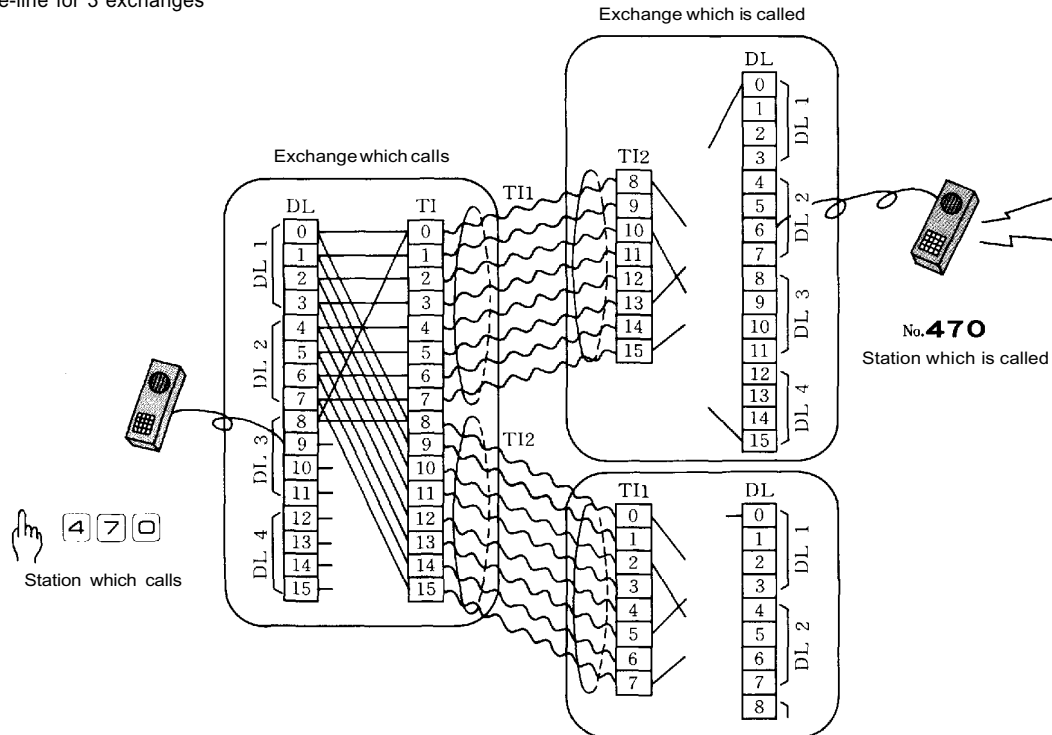


Fig. 2

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 Connection Cable 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-64 DIP SWITCHES FOR FUNCTION SELECTION

		Functions	Switch OFF	Switch ON							
SW-A	OFF ON 1	Link Selection; Link No. 0 ~ 3	Not Activate	Activate							
	2	Link Selection; Link No. 4 ~ 7	Not Activate	Activate							
	3	Link Selection; Link No. 8 ~ 11	Not Activate	Activate							
	4	Link Selection; Link No. 12 ~ 15	Not Activate	Activate							
	5	Not Activate	(OFF)	—							
	6	Not Activate	(OFF)	—							
	7	Press-to-talk Control	Not Activate	Activate							
	8	Not Activate	(OFF)	—							
SW-B	OFF ON 1	Conference	Not Activate	Activate							
	2	Call Transfer, Paging During Normal Call	Not Activate	Activate	*1						
	3	Priority, Executive Priority/Highest Executive Priority	Not Activate	Activate	*2						
	4	Priority Selection Executive/Highest Executive	Executive Priority	Highest Executive Priority							
	5	Secretary Transfer, Group Hunting	Not Activate	Activate							
	6	Not Activate	(OFF)	—							
	7	Pager	Not Activate	Activate							
	8	Not Activate	(OFF)	—							
SW-C	OFF ON 1	Paging	Not Activate	Activate	*3						
	2	Emergency All-Call	Not Activate	Activate	*1						
	3	Paging Priority	Not Activate	Activate	*1						
	4	Combination Paging	Not Activate	Activate	*1						
	5	Selectable Dial Operation for Paging	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
	6	Selection of Personal Number Calling/Paging	Calling	paging	*1						
	7	Selectable Dial Operation for Paging Response	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>							
	8	Time Interval Adjustment before Paging Pre-announcement tone	None	1 sec							
SW-D	OFF ON 1	Stations Allowed Access to All Call, Conference and General Purpose Control	Not Activate	Activate							
	2	Call Forwarding	Not Activate	Activate							
	3	Not Activate	(OFF)	—							
	4	Group Blocking	Not Activate	Activate							
	5	Programmable Station Numbering	Not Activate	Activate							
	6	Not Activate	(OFF)	—							
	7	General Purpose Control	Not Activate	Activate							
	8	Output Capacity of General Purpose Control	Small	Large	*4						
SW-E	OFF ON 1	1 x Exchange	EX-1	2 x Exchange	EX-2A	EX-2B	3 x Exchange	EX-3A	EX-3B	EX-3C	Exchange Selection
	2	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	
	3	OFF	ON	OFF	ON	OFF	ON	ON	ON	ON	
	4	OFF	OFF	ON	OFF	ON	ON	ON	ON	ON	
	5	Memory of Calling Party Indication (Lamp type)				Without memory	With memory				
	6	Tone of called Mode at Privacy Sw. ON				Privacy	Continuous calling				
	7	Continuous Calling Tone (No. 200 Programming)				Not Activate	Activate				
	8	Selectable First Station Number				No. 200~	Programming				
	Not Activate				(OFF)	—					
					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 Selection of "Large" adds 1 more digit to the number operated.
Example: ()
- *5 Standard (SW-E-7 OFF):

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

Programming (SW-E-7 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 <input type="checkbox"/> Confirmation tone	X	(Clears function group S)
	Selection of Calling Tone	41	• 4 1 <input type="checkbox"/> Confirmation tone		
	Selection of Paging Pre-announcement Tone	42	• 4 2 <input type="checkbox"/> Confirmation tone		
	Time-out of Conversation	45	• 4 5 <input type="checkbox"/> <input type="checkbox"/> Confirmation tone		
	Time-out of Paging Call	46	• 4 6 <input type="checkbox"/> <input type="checkbox"/> Confirmation tone		
A	Executive Priority	50	<input type="checkbox"/> 5 X <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Confirmation tone <small>x: 0~4 6~9</small> 10 times	<input type="checkbox"/> 5 X <input type="checkbox"/> (PTT) (PTT) (PTT) Confirmation tone 10 times	<input type="checkbox"/> 5 5 5 Confirmation tone 10 times (Clears function group A)
	Continuous Calling Tone	51			
	Station Allowed Access to All Call	52			
	Stations Allowed Access to Conference	53			
	Automatic Access to Paging	54			
B	Stations Allowed Access to One Shot Make Output	56	<input type="checkbox"/> 6 X <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Confirmation tone <small>x: 0, 1, 2</small> 10 times	<input type="checkbox"/> 6 6 6 Confirmation tone 10 times (Clears function group B)	
	Stations Allowed Access to Make/ Brake Output	57			
	Stations Allowed Access to 8 Selectable/ Decimal Output	58			
	Stations Allowed Access to 4 Decimal Digits Output	59			
C	Secretary Transfer	60	<input type="checkbox"/> 7 X <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Confirmation tone <small>x: 0, 1, 2</small> 10 times	<input type="checkbox"/> 7 7 7 Confirmation tone 10 times (Clears function group C)	
	Master/Sub	61			
	Group Hunting	62			
D	Paging Response, Paging Priority	70	<input type="checkbox"/> 8 X <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Confirmation tone <small>x: 1, 2</small> 10 times	<input type="checkbox"/> 8 8 8 Confirmation tone 10 times (Clears function group D)	
	Group Blocking of Each Group	71			
E	Group of Calling Party Indication	72	<input type="checkbox"/> 9 0 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Confirmation tone 10 times	<input type="checkbox"/> 9 9 9 Confirmation tone 10 times (Clears function group E)	
	Combination Paging	80			
*	Group Blocking: Allowing Calls Among Groups	81	<input type="checkbox"/> 0 0 0 Confirmation tone 10 times	<input type="checkbox"/> 0 0 0 Confirmation tone 10 times (Clears functions of Personal No., Single Digit Dialing and Remote Response)	
	Group Blocking: Allowing Access to Paging Zones	82			
*	Programable Station Numbering	90	<input type="checkbox"/> 0 0 0 Confirmation tone 10 times	<input type="checkbox"/> 0 0 0 Confirmation tone 10 times	
	Personal Number Single Digit Dialing Remote Response	—			

Note: *Can be registered at each station.

FUNCTION CODE TABLE FOR STATION NO. 200 PROGRAMMING

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)	<input type="checkbox"/> 4 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Standard Station Numbering A/B/C= 200/470/740 (SW-E-7 OFF) or A/B/C= 200/500/800 (SW-E-7 ON)										
			<table border="1"> <thead> <tr> <th>SW-E-7</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <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> </tbody> </table>	SW-E-7		A	B	C	OFF	200~455	470~725	740~995	ON	200~455	500~755
	SW-E-7	A	B	C											
	OFF	200~455	470~725	740~995											
	ON	200~455	500~755	800~999											
Selection of Calling Tone	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.	<input type="checkbox"/> 4 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> 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.	<input type="checkbox"/> 4 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> 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.)										
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.	<input type="checkbox"/> 4 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> 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.	<input type="checkbox"/> 4 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> 00: Without Time-out function 01~99: Length limited (minute)	Without Time-out										

FUNCTION CODE TABLE FOR STATION NO. 200 PROGRAMMING

C. Programming of each Function

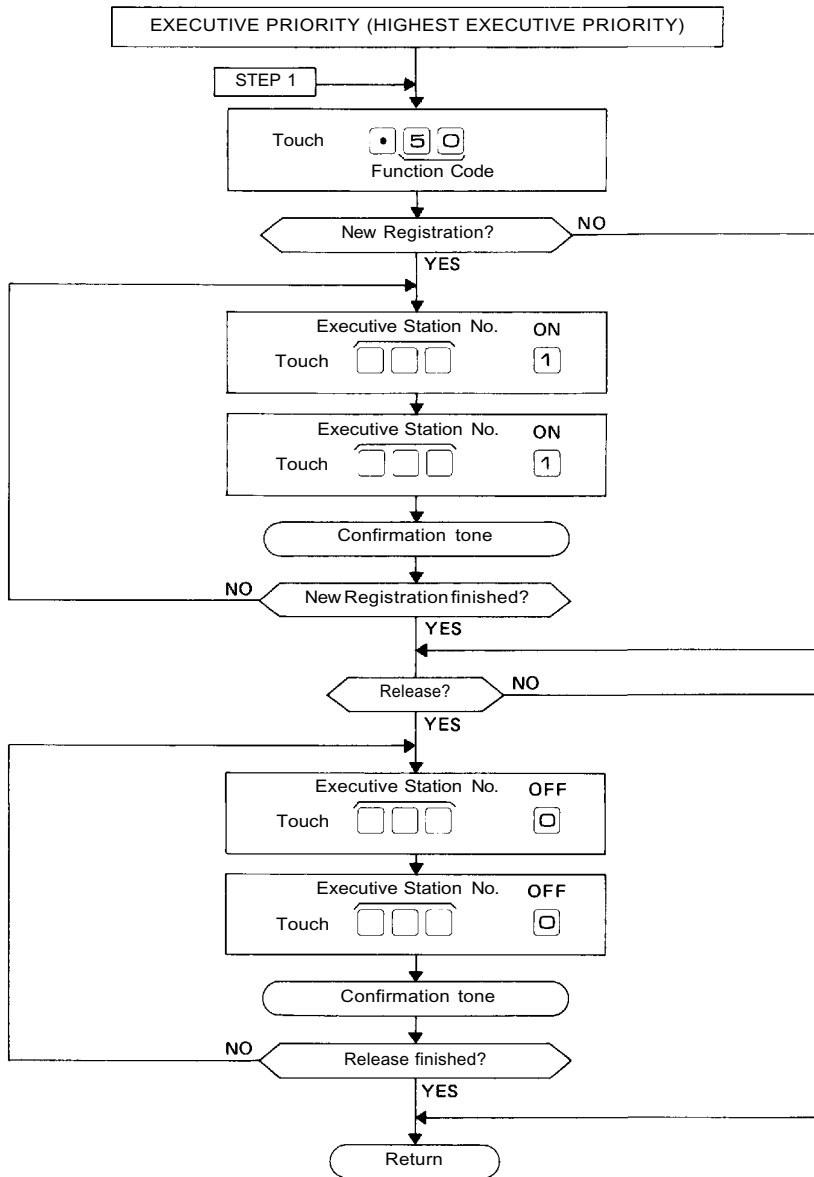
Function Group	Function	Function Code	1st Parameter	2nd Parameter	3rd Parameter	4th Parameter	OPERATING FOR PROGRAMMING	
A	Executive Priority	50	Station No.	ON/OFF (1/0)	X	X		
	Continuous Calling Tone	51	Station No.	ON/OFF (1/0)				
	Station Allowed Access to All Call	52	Station No.	ON/OFF (1/0)				
	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		
	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	
	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		
	Group Blocking: Allowing Calls Among Groups	81	Calling Group No. (1~8)	Called Group No.(s) (Plural) (1~8)				
	Group Blocking: Allowing Access to Paging Zones	82	Paging Zone No. of Paged Group (00~15, 90~99)	Paging Group No.(s) (Plural) (1~8)				
E	Programmable Station Numbering	90	Hardwired Station No. *2	Programmed Station No. *2	X	X		
			The First Hardwired Station No. *1	The Last Hardwired Station No. *1				

*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 Programmed Station No.'s are No.200~999/No.100~999

6. STATION NO. 200 PROGRAMMING FOR EACH FUNCTION

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



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,

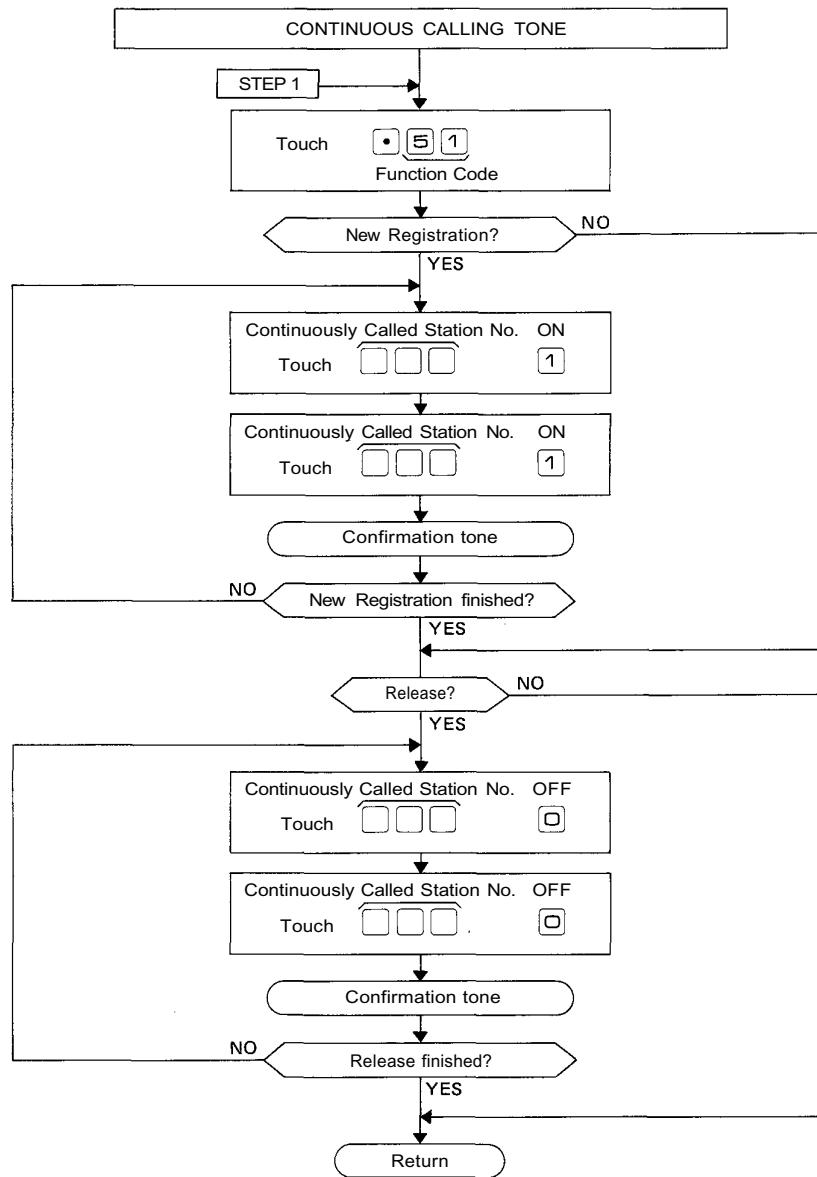
Touch (Confirmation tone will be heard.)
10 times

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

4. CP DIP switch B-3 must be "ON" to employ this function.

* Executive Station: Executive or Highest Executive Station.

6-2 CONTINUOUS CALLING TONE (FUNCTION CODE 51)



NOTES

1. 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.

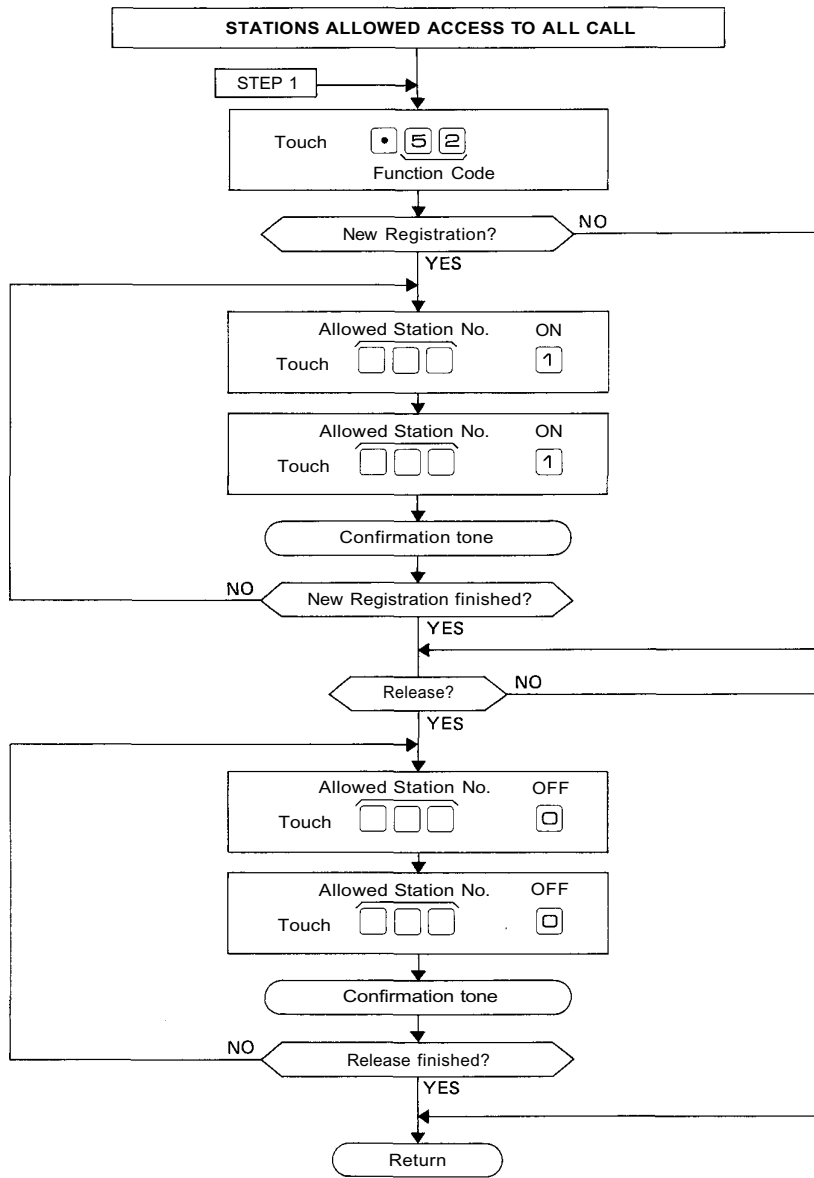
3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

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

Touch [5] [1] [] [] ... [] (Confirmation tone will be heard.)
10 times

4. CP DIP switch E-6 must be "ON" to employ this function.

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.

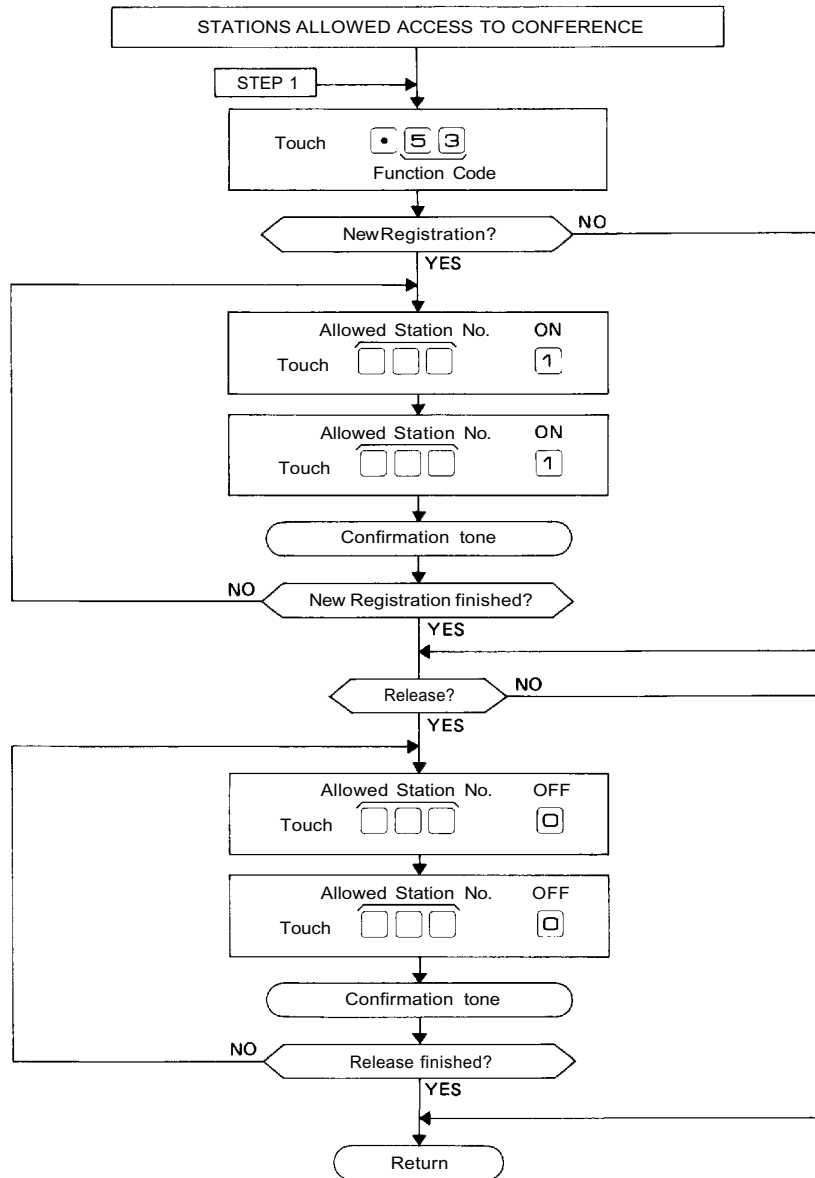
3. Re-start at Step 1 when mis-dialing occurs.
 (All other registrations remain valid.)

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

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

4. Programming is necessary only if CP DIP switch D-1 is "ON".

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



NOTES

1. 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.

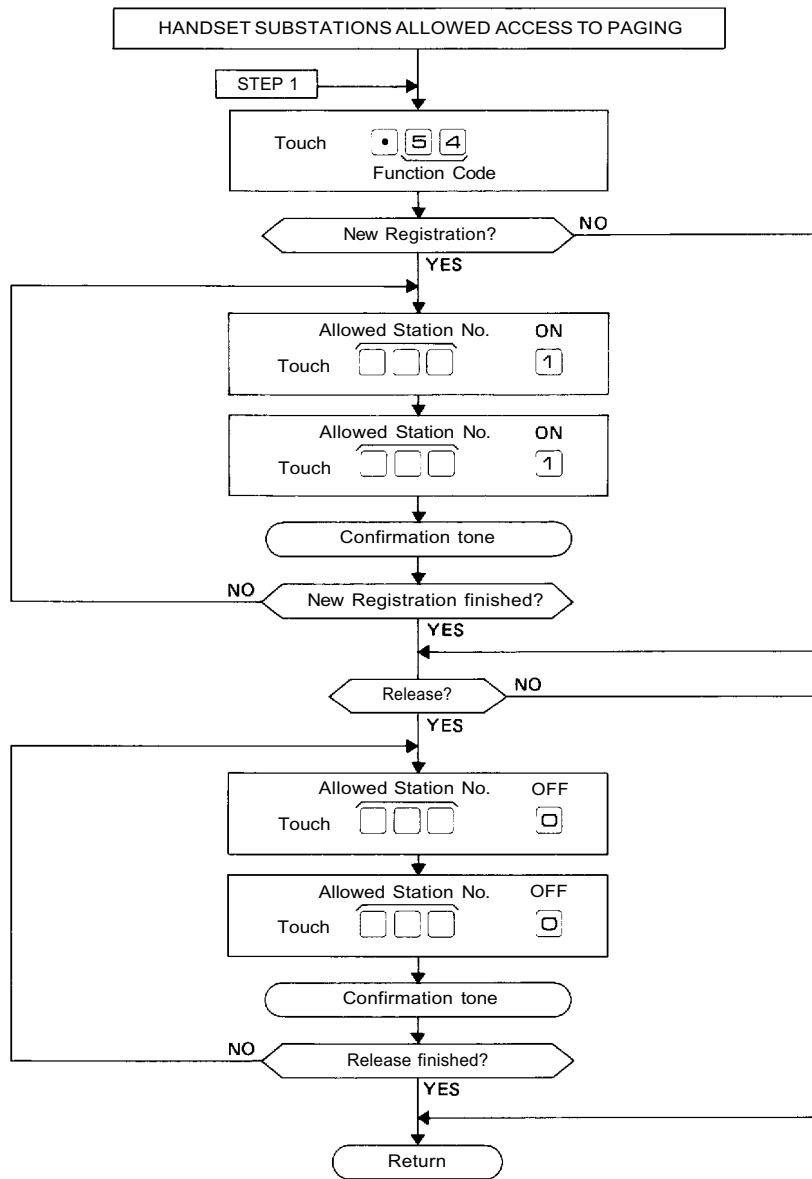
2. To release at one time the data programmed into all the stations for this function.

Touch * 5 3 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. Programming is necessary only if CP DIP switch D-1 is "ON".
Switch B-1 must be "ON" to employ this function.

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



NOTES

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

Touch *54 PTT PTT ... PTT (Confirmation tone will be heard.)
10 times

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

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

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

Touch *54 [0] [0] ... [0] (Confirmation tone will be heard.)
10 times

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-600M or TL-600M in place of a Substation TL-600S.
- 2-2) Program at that station a necessary function for Single Digit Dialing such as Paging, Paging Response, Personal Number Call or etc.
- 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

By programming "Single Digit Dialing" at any master station, a single touch of the dial activates "Station Call", "Personal Number Call", "Paging" or "Paging Response" mode. But in using a TL-600S and a HF-600S, "Automatic Access to Paging from Handset Substation" function cannot be adopted only by programming "Single Digit Dialing" at the station. It also requires the programming for Function Code 54 at No. 200 Station.

(4) A call to Master Station from Handset or Hands-free/ Handset Substation

"Master/Sub Relationship (Function Code 61)" can be programmed into Handset Substation TL-600S or Hands-free/ Handset Substation HF-600S etc., where you can call the relative Master Station by a single touch of the dial , or by picking up the Handset.

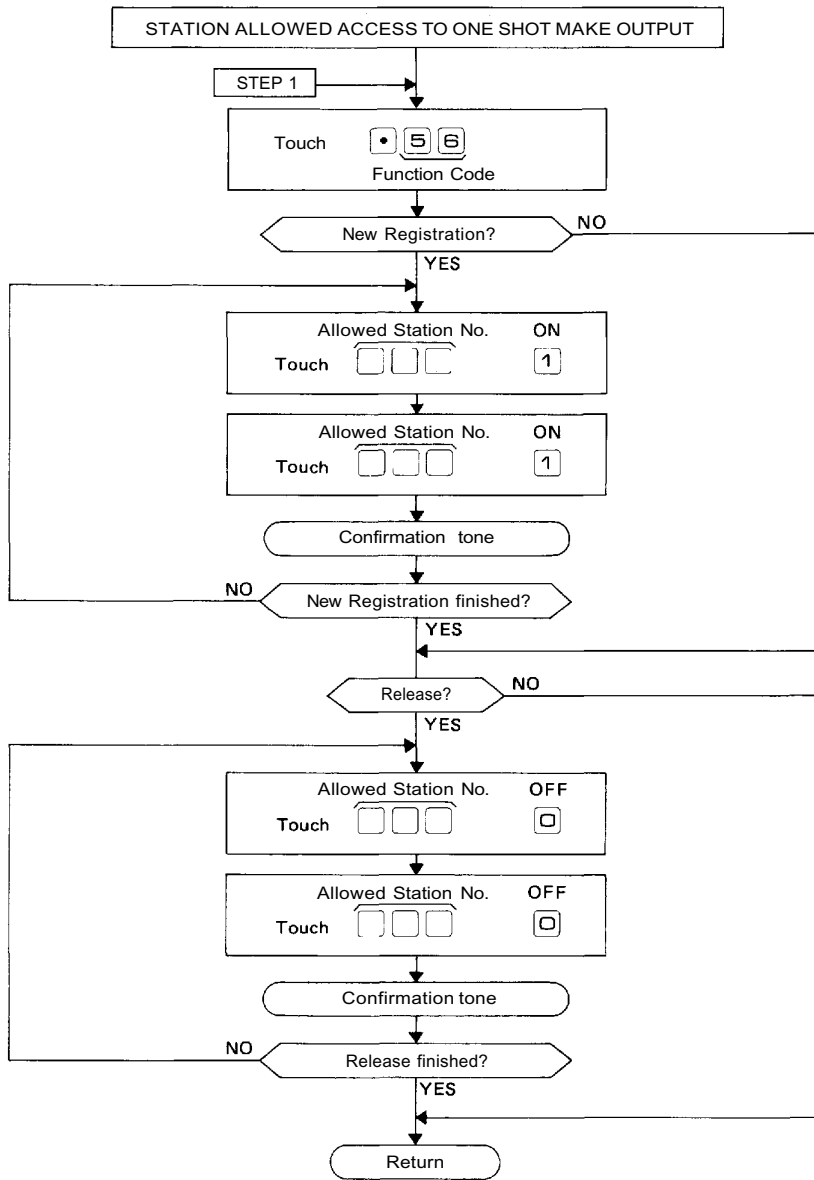
In activating a mode with Hands-free/Handset Substation HF-600S by picking up the Handset, "Privacy" switch on the Station is to be "ON" position.

(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
		at HF-620S or HF-600S	at TL-600S or HF-600S (Privacy SW. ON)	at HF-620S or HF-600S	at TL-600S or HF-600S (Privacy SW. ON)
Single Digit Dialing *1	Single Digit Registration at Station	(○)	×	○	×
Master/sub Relationship *2	Programming at Station No. 200 (Function Code 61)	○	○	×	×
Automatic Access to Paging Paging (or Calling) from Handset Substation *1	1. Single Digit Registration at Station 2. Programming at Station No.200 (Function Code 54)	(○)	(○)	○	○

- Note. ○ : Possible
 × : Impossible
 (○) : 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.

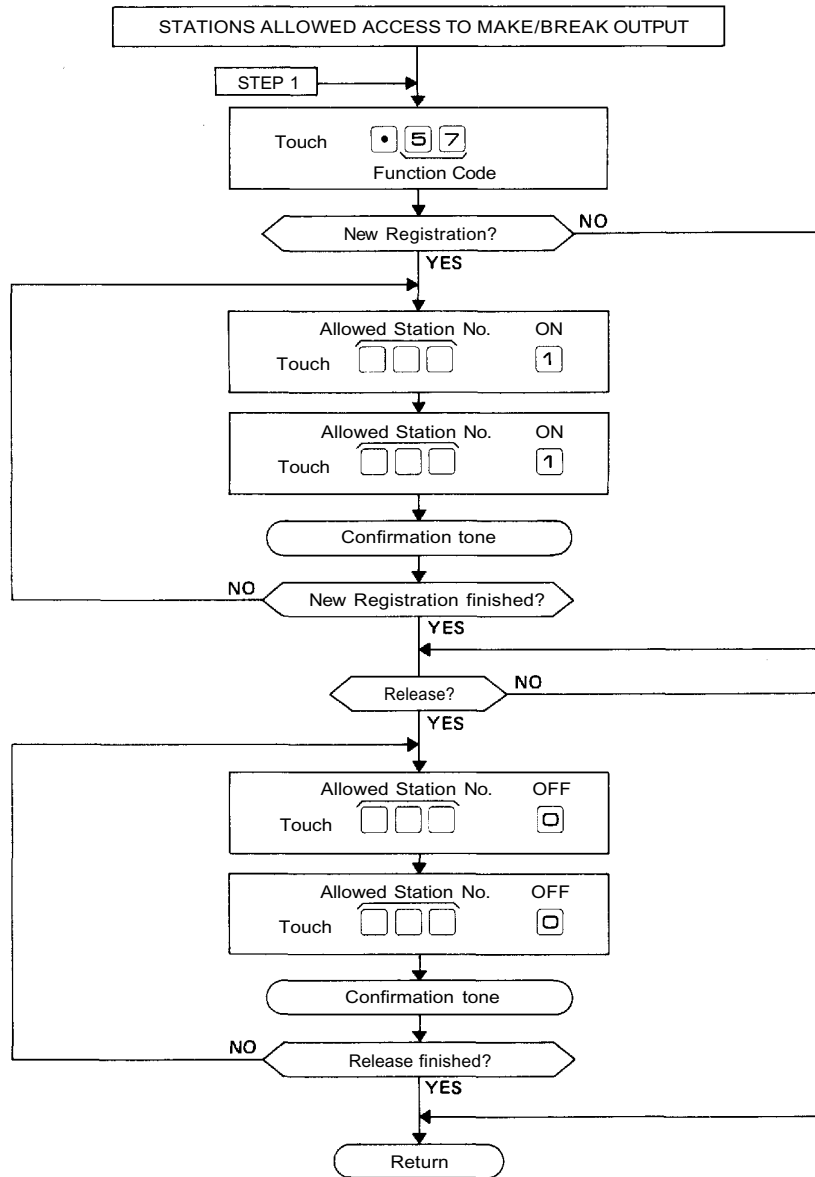
3. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

4. Programming is necessary only if CP DIP switch D-1 is "ON".

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

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

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



NOTES

1. 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.

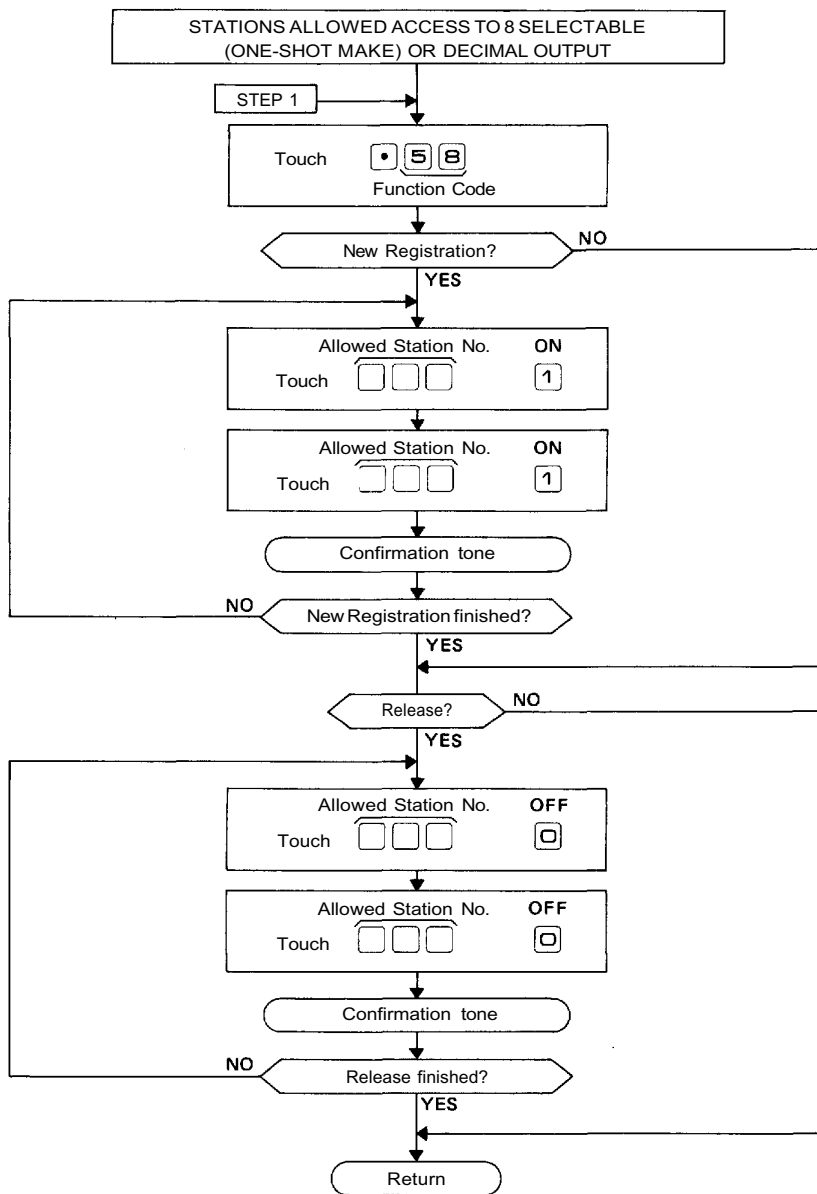
2. To release at one time the data programmed into all the stations for this function,

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

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

4. Programming is necessary only if CP DIP switch D-1 is "ON".

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



NOTES

1. 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.

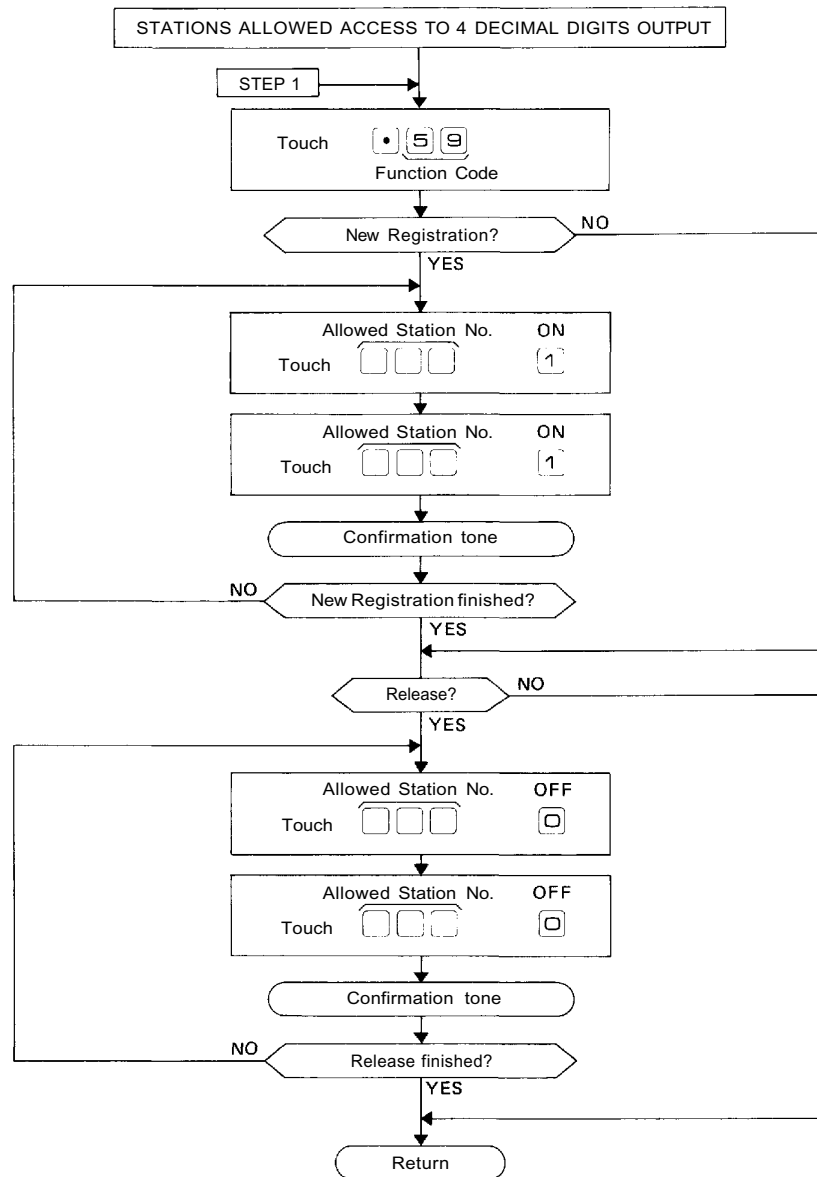
3. Re-start at Step 1 when mis-dialing occurs.
 (All other registrations remain valid.)

4. Programming is necessary only if CP DIP switch D-1 is "ON".

2. 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

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 depress the PTT key steadily.

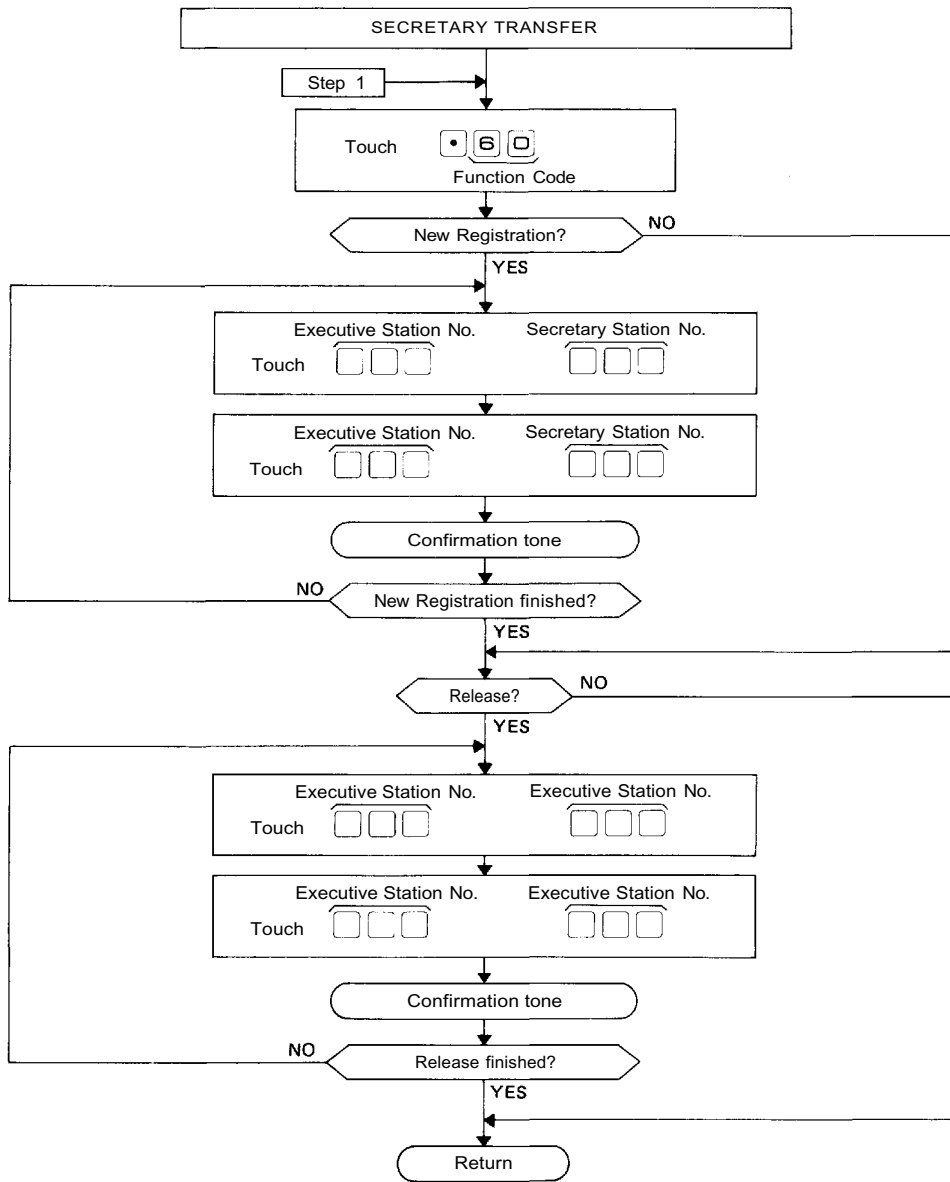
- To release at one time the data programmed into all the stations for this function,

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

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

- Programming is necessary only if CP DIP switch D-1 is "ON".

6-10 SECRETARY TRANSFER (FUNCTION CODE 60)



NOTES

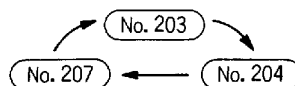
1. To release at one time the data programmed into all the stations for this function.

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

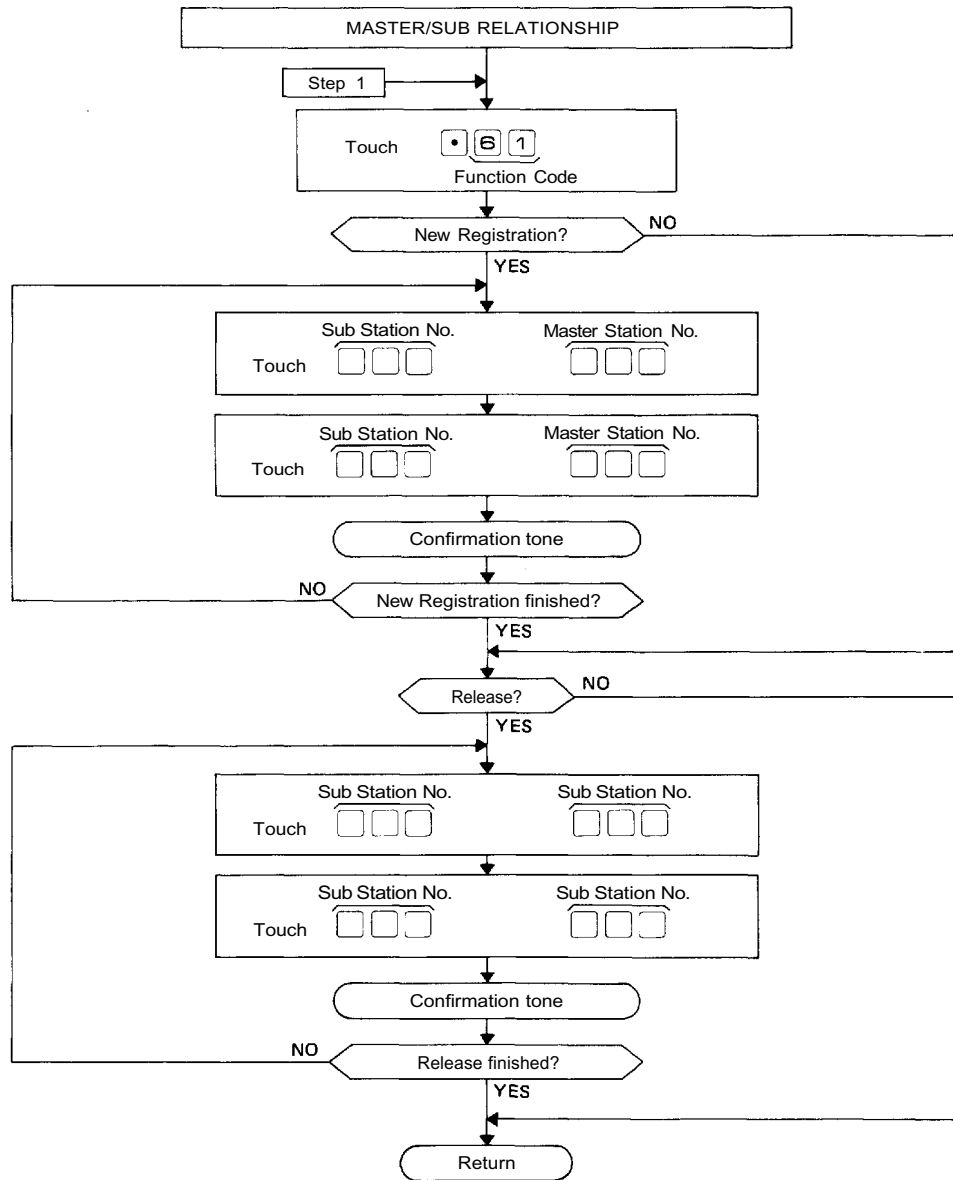
2. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)

3. Switch B-5 must be "ON" to employ this function.

4. 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)



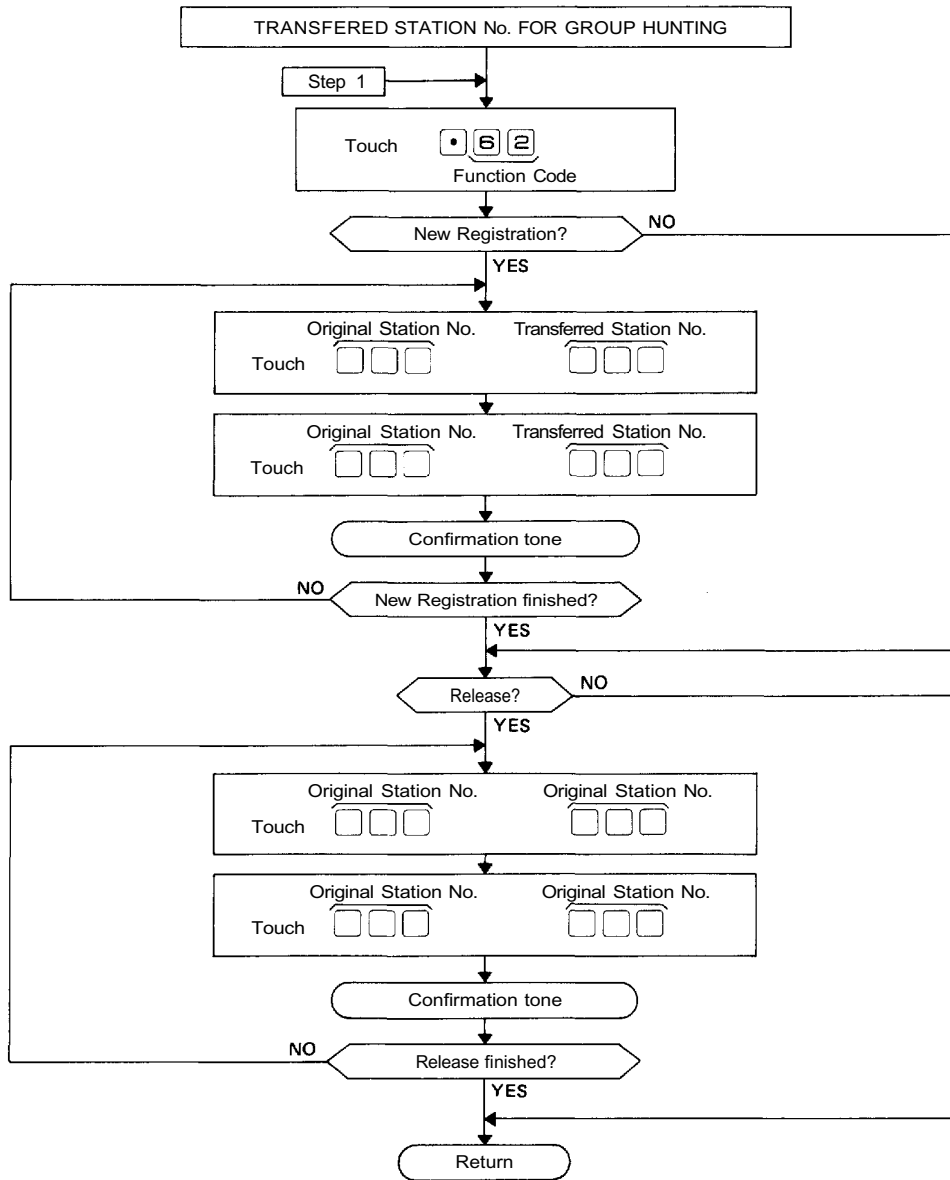
NOTES

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

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

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

6-12 GROUP HUNTING (FUNCTION CODE 62)



NOTES

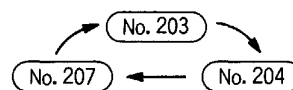
1. To release at one time the data programmed into all the stations for this function,

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

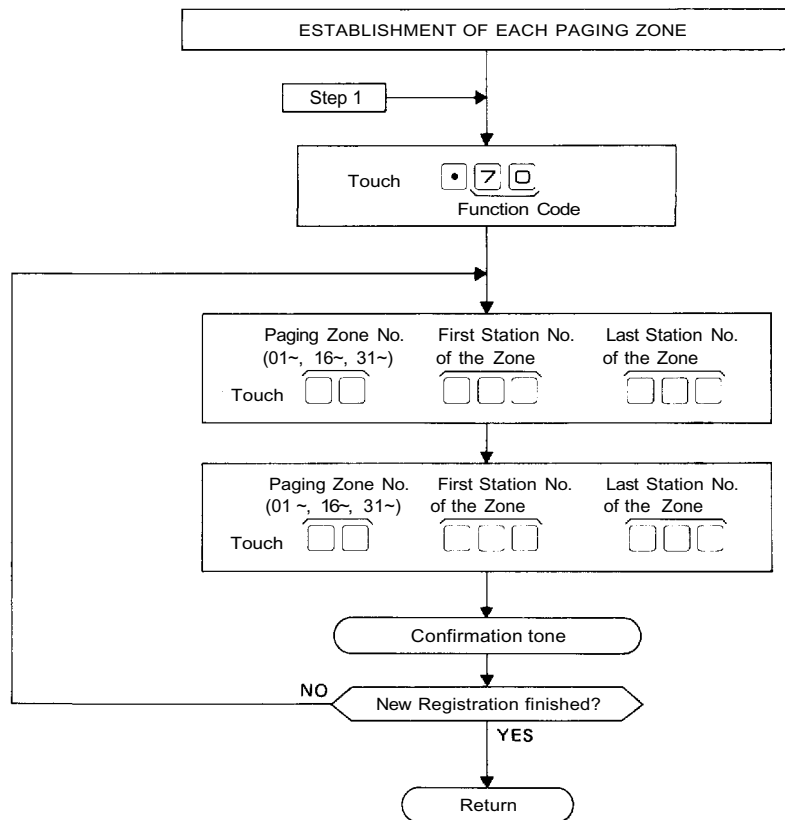
2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

3. Switch B-5 must be "ON" to employ this function.

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 (Confirmation tone will be heard.)
10 times

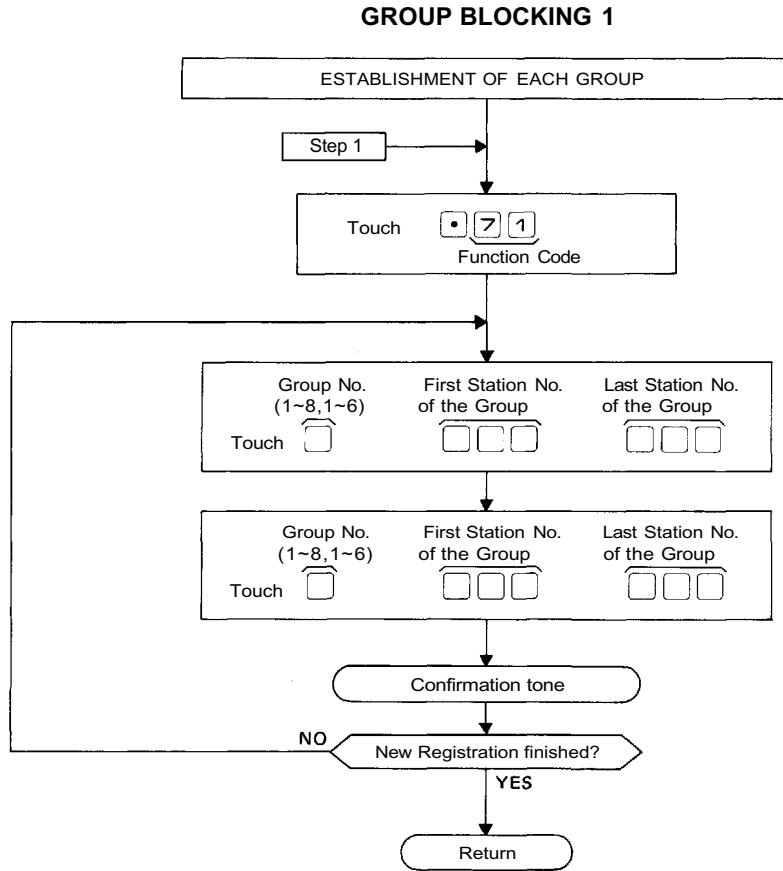
- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- Switch C-1 must be "ON" to employ this function.
- 2-Digit dialing is necessary even in the case of Zone No.1 to No.9.
Ex. Zone No.2

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

- In the case "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.

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

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



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

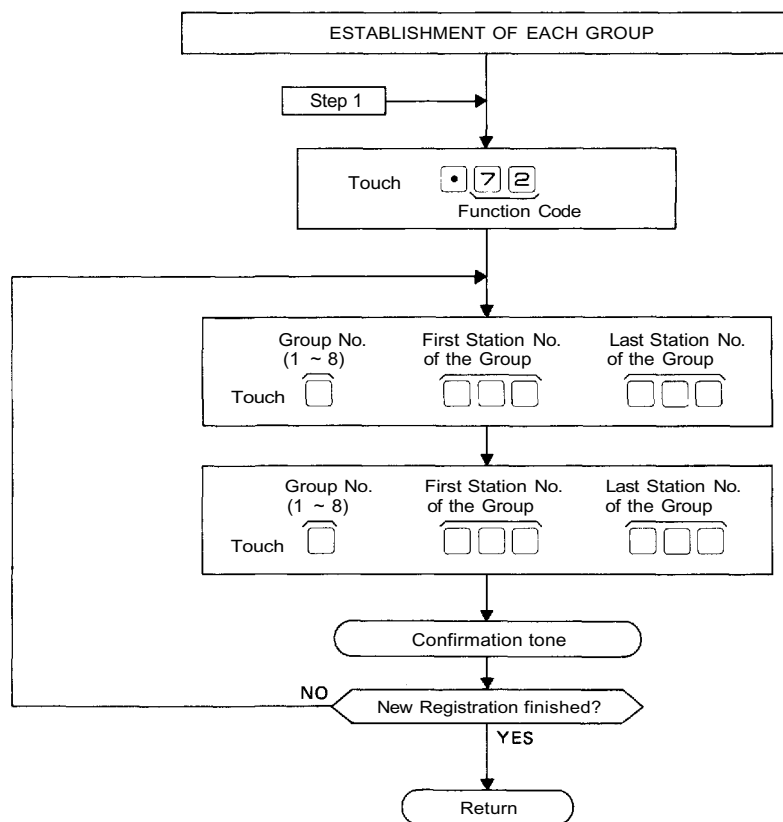
2. Re-start at Step 1 when mis-dialing occurs.
(All other registrations remain valid.)

3. CP DIP switch D-4 must be "ON" to employ this function.

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

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

Registration of station number(s) having indication panel.



NOTES

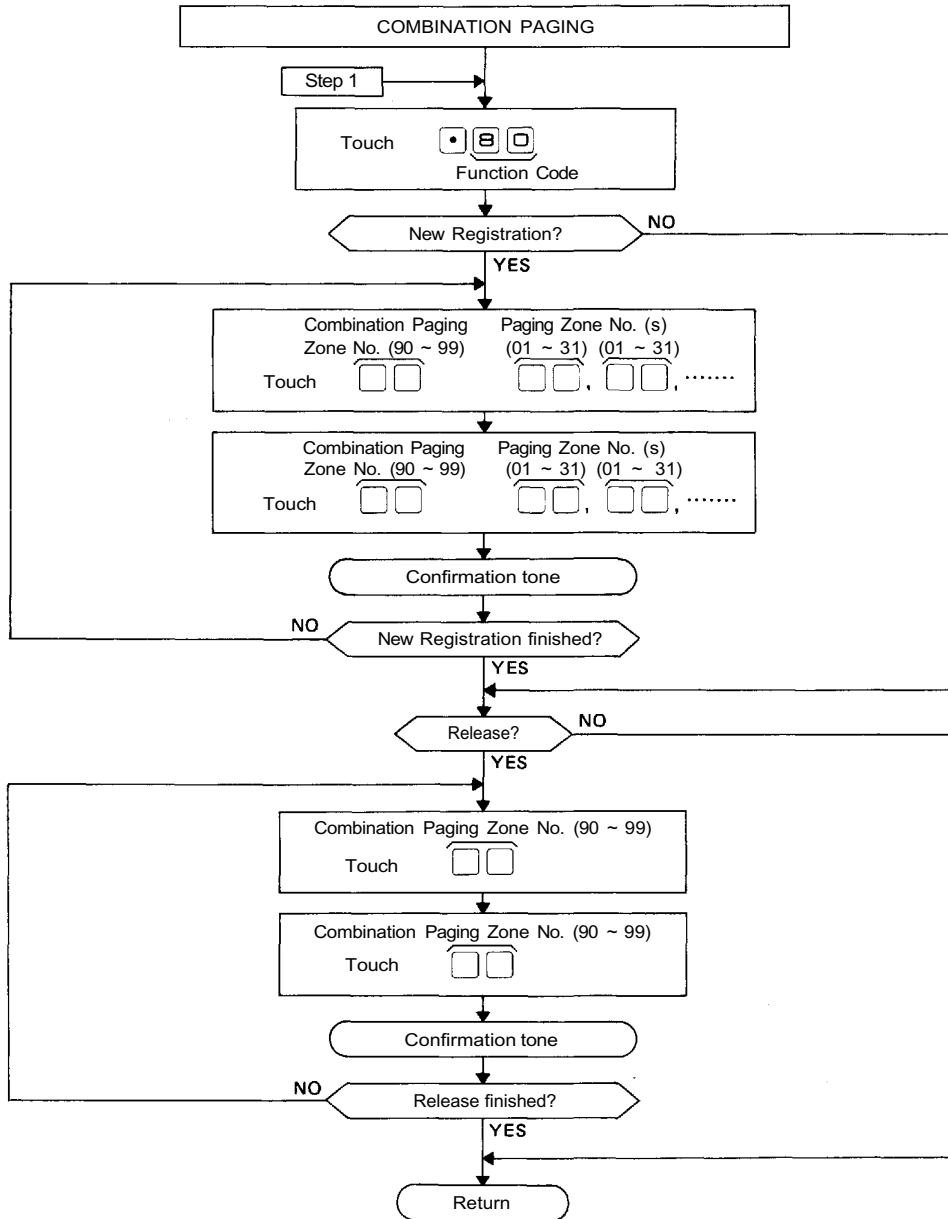
1. To release at one time the data programmed into all the groups for this function,

Touch [7][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. When the Indication Panel belongs to only one (1) station, you should write the station number in both "First Station No." and "Last Station No." columns.

6-16 COMBINATION PAGING (FUNCTION CODE 80)



NOTES

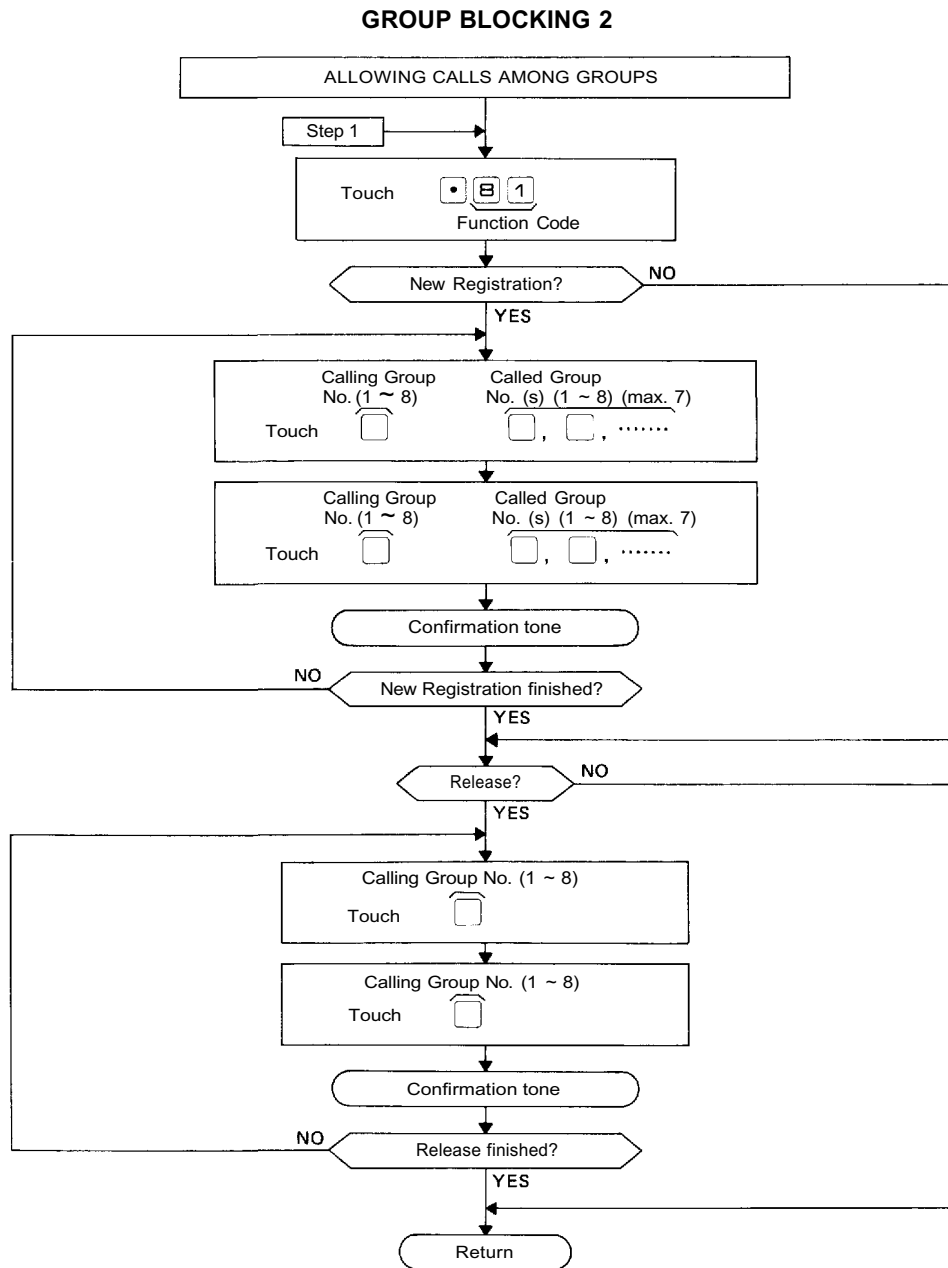
1. To release at one time the data programmed into all the Zones for this function,

Touch  (Confirmation tone will be heard.)
10 times

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

3. CP DIP switch C-1 and C-4 must be "ON" to employ this function.

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



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

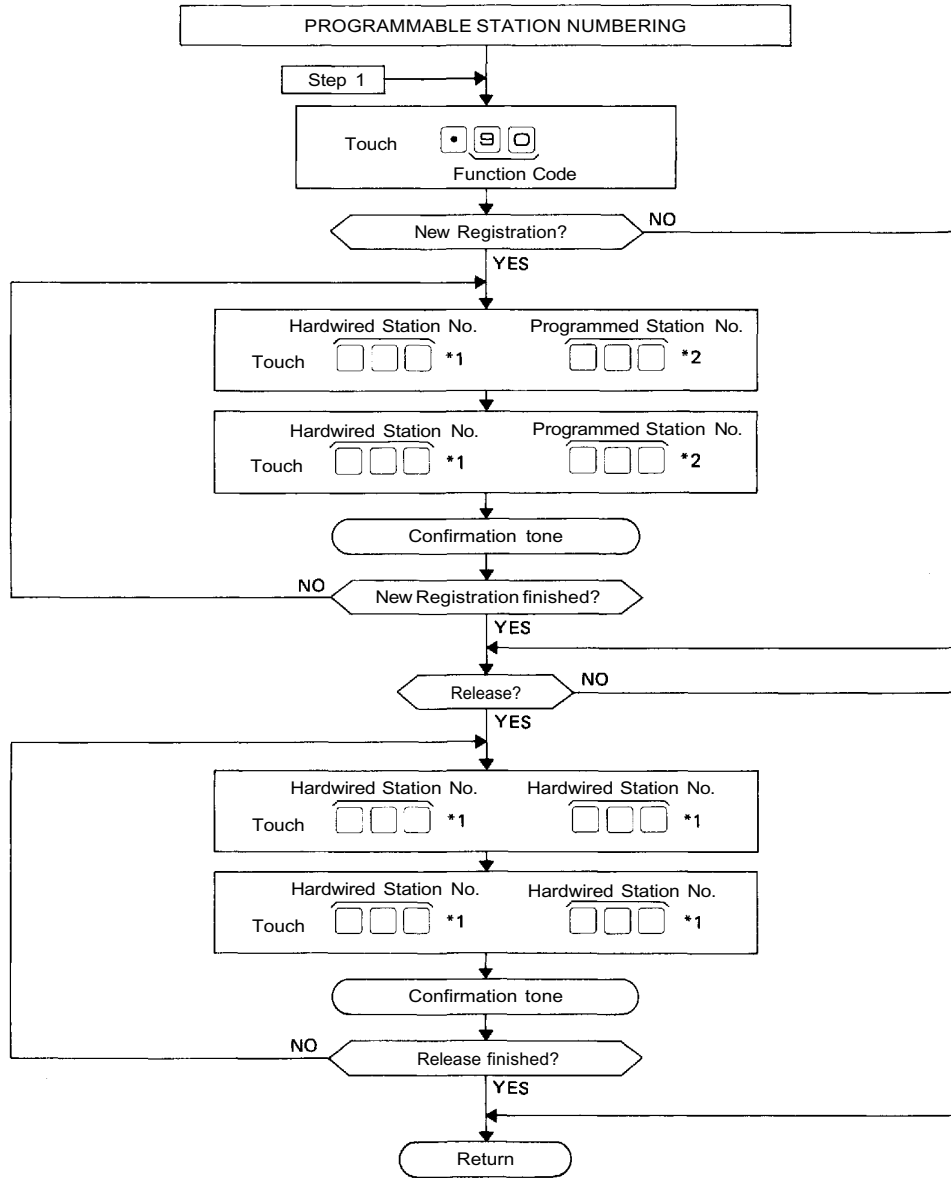
2. Re-start at Step 1 when mis-dialing occurs
(All other registrations remain valid.)

3. Do not register a Group to call itself.

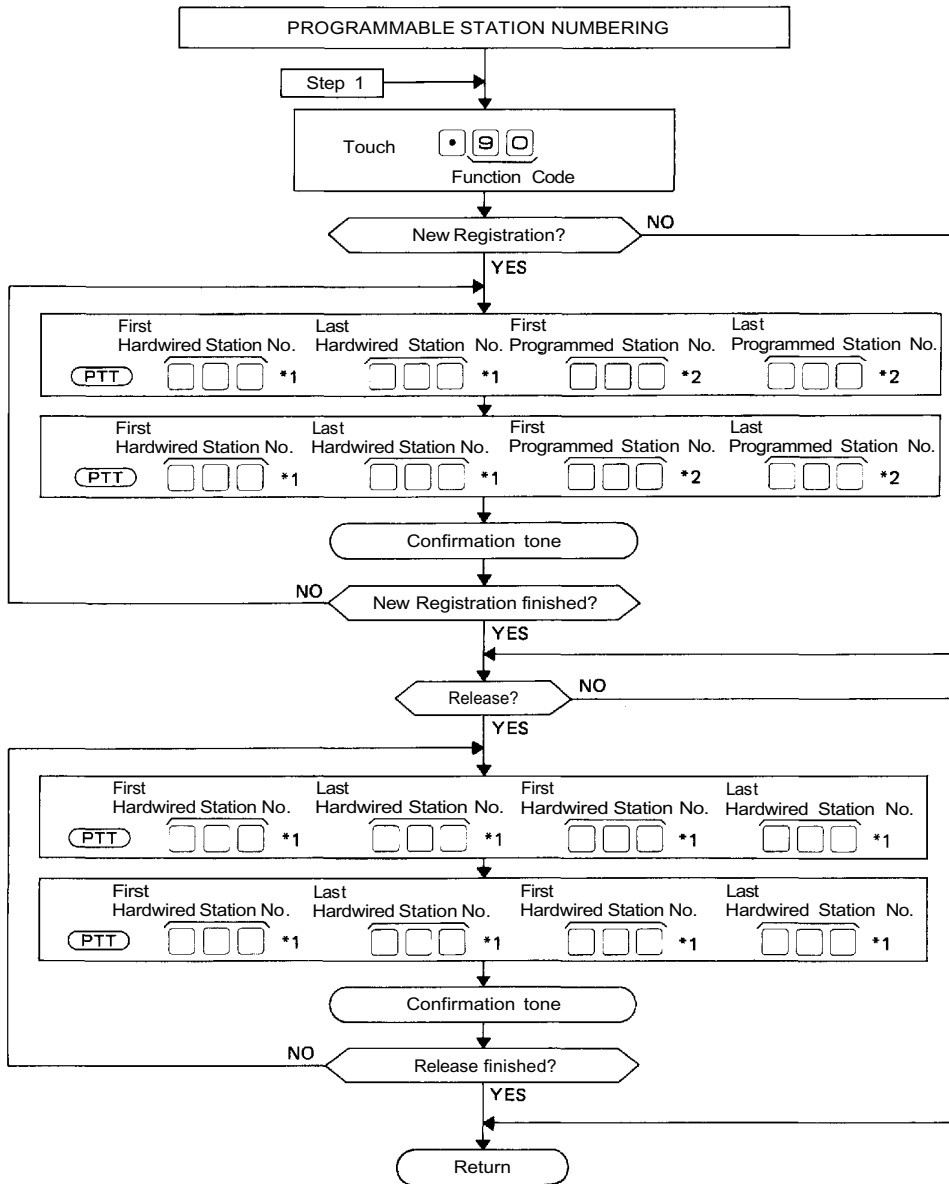
4. CP DIP switch D-4 must be "ON" to employ this function.

6-19 PROGRAMMABLE STATION NUMBERING (FUNCTION CODE 90)

A. Programming of Single Station Number








B. Programming of Serial Station Numbers



NOTES

1. To release all registered Programmed Station No.'s at one time.

2. Any one Programmed Station No. cannot be assigned to more than one Hardwired Station.

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

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

C. Restriction of programmable station numbering

Each station number can be programmable in the station number series of the exchanges A, B and C that have been determined by the function of the "Selectable First Station Number" (Page 17).

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

7. PROGRAMMING DATA TABLE

● INITIAL PROGRAMMING

Note. (Mark *)

The first station of each exchange becomes the Programming Station:

Exchange "A" No. 200 (100)

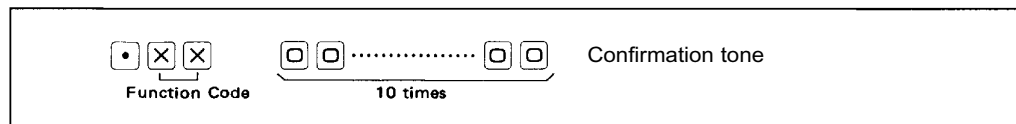
Exchange "B" No. 470 (400)

Exchange "C" No. 740 (700)

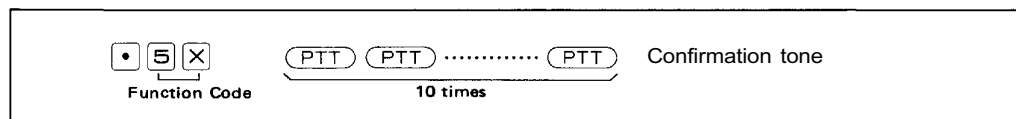
== Initial Programming of the Exchange ==

1. Place program switch on front panel of the CP "ON"
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
10 times Confirmation tone will be heard (Clears function group S)
4. 5 5 .. 5
10 times Confirmation tone will be heard (Clears function group A)
5. 6 6 .. 6
10 times Confirmation tone will be heard (Clears function group B)
6. 7 7 .. 7
10 times Confirmation tone will be heard (Clears function group C)
7. 8 8 .. 8
10 times Confirmation tone will be heard (Clears function group D)
8. 9 9 .. 9
10 times Confirmation tone will be heard (Clears function group E)
9. 0 0 .. 0
10 times Confirmation tone will be heard.
(Clears personal numbers, single digit dial numbers and remote numbers)
10. Program necessary functions.
(Refer to separate instructions for each function)
11. Place program switch on front panel of the CP in "OFF" position.
12. (Station No. 200 (100) becomes a normal station.) *

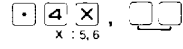
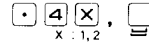
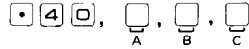
== Clearance of Each Function at a Time ==



== Establishment of Function on All Stations at a Time ==



Function Table for the System



Function Group	Function	Function code	Registered data	Note of Registration	Initial programming
S	Numbering schedules of tie-line system	40	A ___ 00	Select the head number of stations in each exchange from among the followings: _100, _200, _300, _400, _500, _600, _700, _800 or _900	A/B/C= 200/470/740 (SW-E-7 OFF) 200/500/800 (SW-E-7 ON)
			B ___ 00		
			C ___ 00		
	Selection of Calling Tone	41	___	0: Without Calling Tone 1: Single tone (0.2 sec.) 2: Calling tone (0.3 sec.)	1: Calling Tone (0.3 sec.)
	Selection of Paging Pre-announcement Tone	42	___	0: Without Paging Pre-announcement Tone 1: Paging Pre-announcement Tone (1 sec.) 2: Paging Pre-announcement Tone (2 sec.)	2: Paging Pre-announcement Tone (2 sec.)
Time-out of conversation	45	___ ___	00: Without Time-out function 01 ~ 99: Length limited (min.)	00: Without Time-out	
Time-out of Paging call	46	___ ___	00: Without Time-out function 01 ~ 99: Length limited (min.)	00: Without Time-out	

Function Table for Stations

X, Station No. 0~4
 Station No. 6~9
 Station No. 1/0
 Station No. 1/0
 Station No. 0, 1, 2
 Station No. (1st)
 Station No. (2nd)
 Repeat

Function Group	Function	Name	Confirmation of Conversation			A										B		
			Standard No.	Without Personal No.	Others	90	50	51	52	53	54	56	57	58	59	60	61	62
1	Function Code	Hardwired Station No.																
	200	100																
	201	101																
	202	102																
	203	103																
	204	104																
	205	105																
	206	106																
	207	107																
	208	108																
2	209	109																
	210	110																
	211	111																
	212	112																
	213	113																
	214	114																
	215	115																
	216	116																
	217	117																
	218	118																
3	219	119																
	220	120																
	221	121																
	222	122																
	223	123																
	224	124																
	225	125																
	226	126																
	227	127																
	228	128																
4	229	129																
	230	130																

*1: Hardwired Station No.

PART 3. FUNCTION SELECTION FOR DATA TRANSMITTING AND RECEIVING UNITS

8. SETTING OF CHANNEL SELECT SWITCH OF TRANSMITTING UNIT (DT-E11) AND WORD SELECT SWITCH OF RECEIVING UNIT (DR-B61)

NOTE

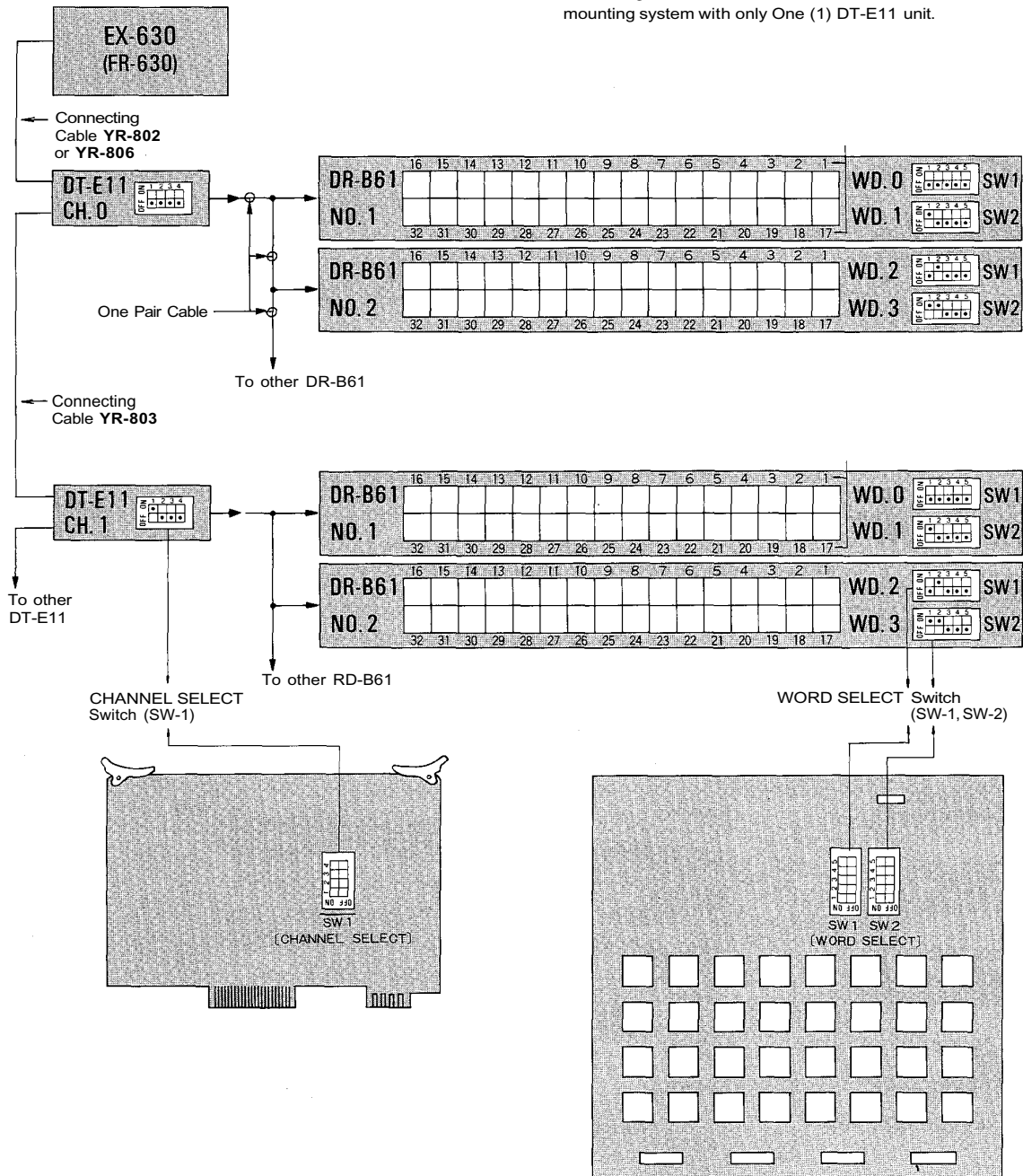
1. Connect the DT-E11 and DR-B61 to Exchange correctly. (Refer to operation manuals of DT-E11 and DR-B61).
2. Set the function select switches (DIP SWITCH) on CP-64 correctly and be sure to enter initial programming and function registration at programming station No.200.
3. Remove the front panel of Data Transmitting Unit (DT-E11) and take out the printed circuit board. Then set the channel select switches located on the printed circuit board, according to the

necessary functions such as IN/OUT Annunciation, Calling Party Indication etc, and replace in the Unit.

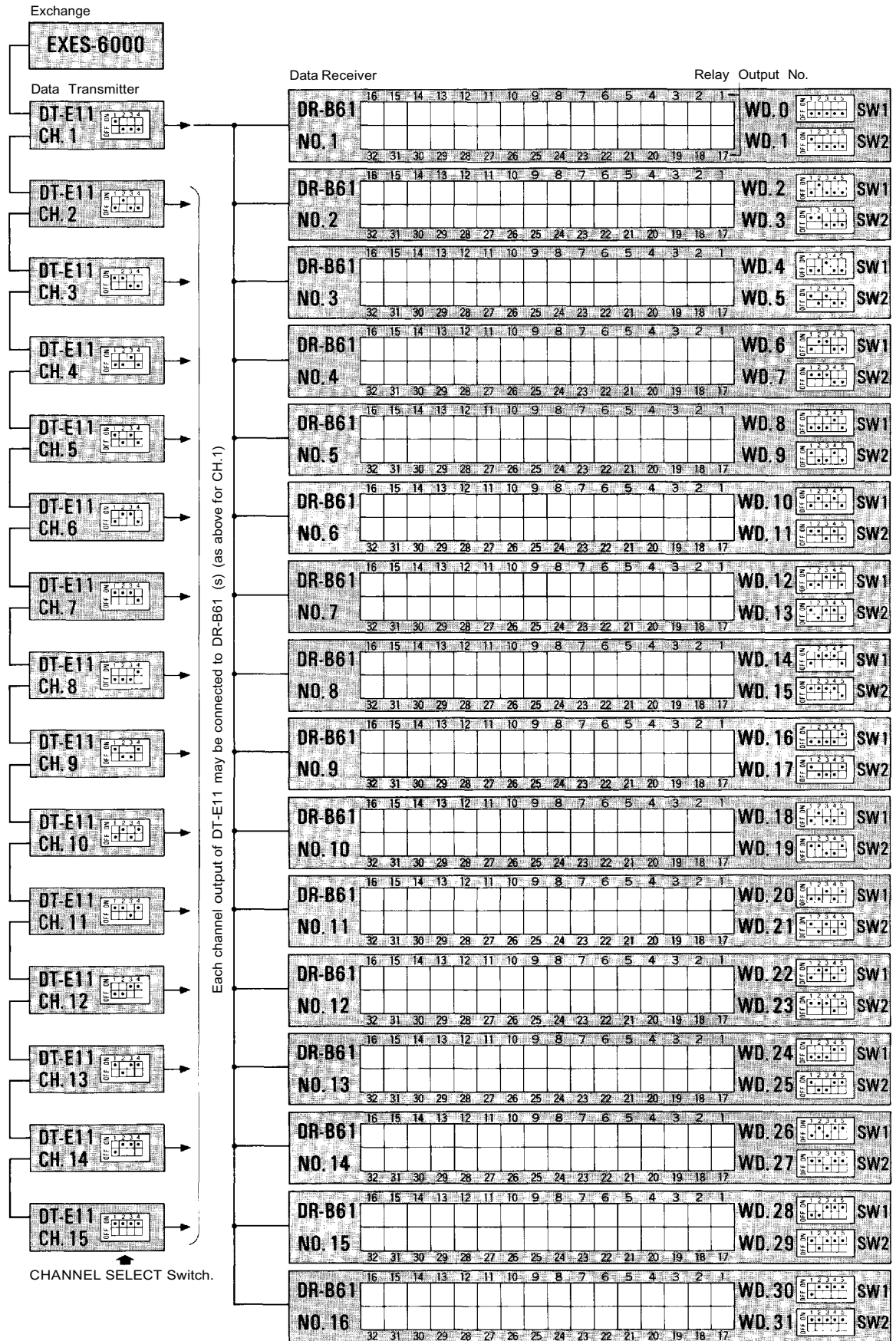
(Refer to 12. Explanation of Data Transmitting Unit Output Data, Page 48).

4. The DT-E11 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 Date 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-E11 unit.



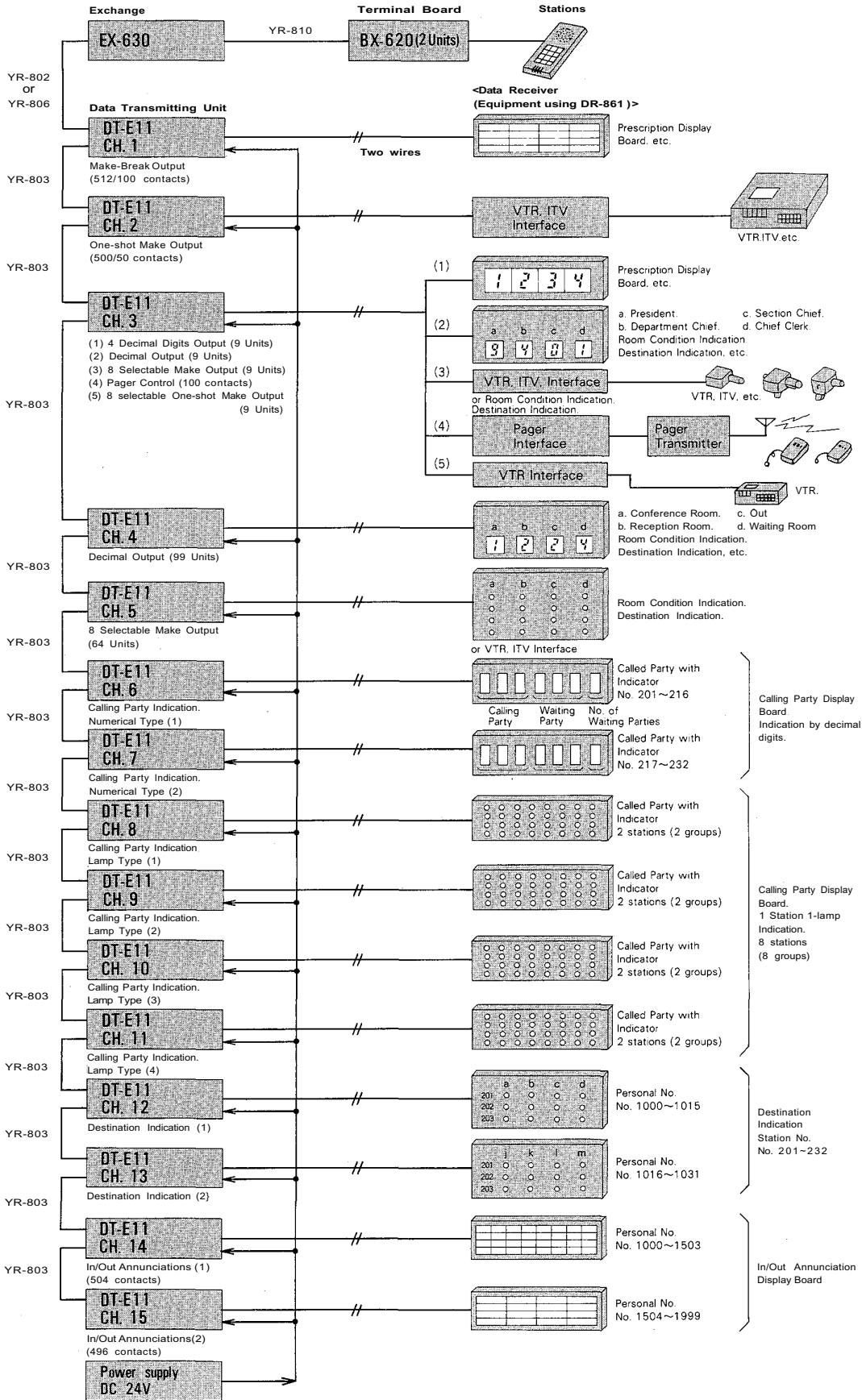
9. DIP SWITCH TABLE FOR DATA TRANSMITTING AND RECEIVING UNITS



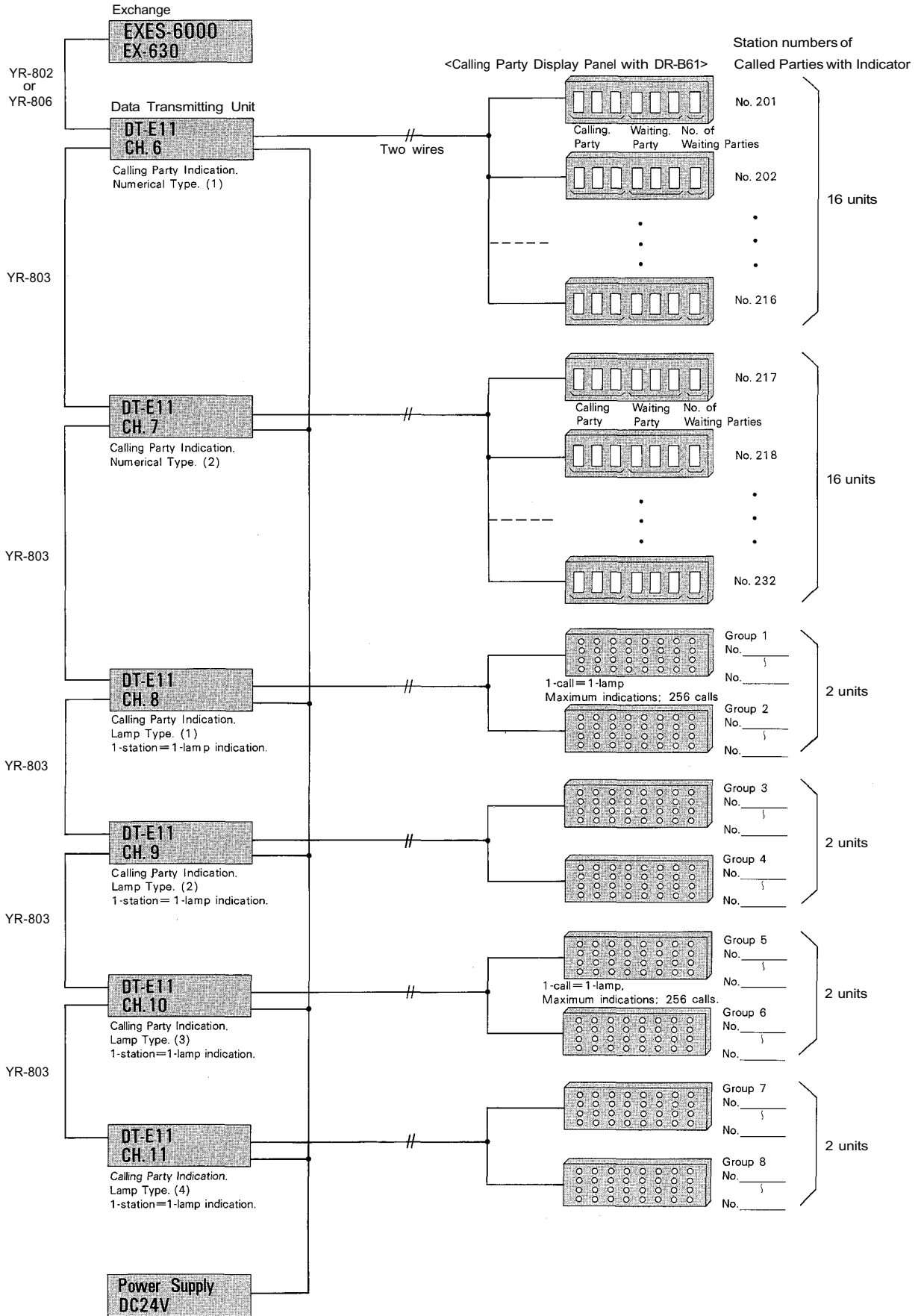
Note: □ (▢) shows the Head of a Slide Switch

WORD SELECT Switch

10. SYSTEM DIAGRAM OF DATA TRANSMITTING AND RECEIVING UNITS (Single Exchange)

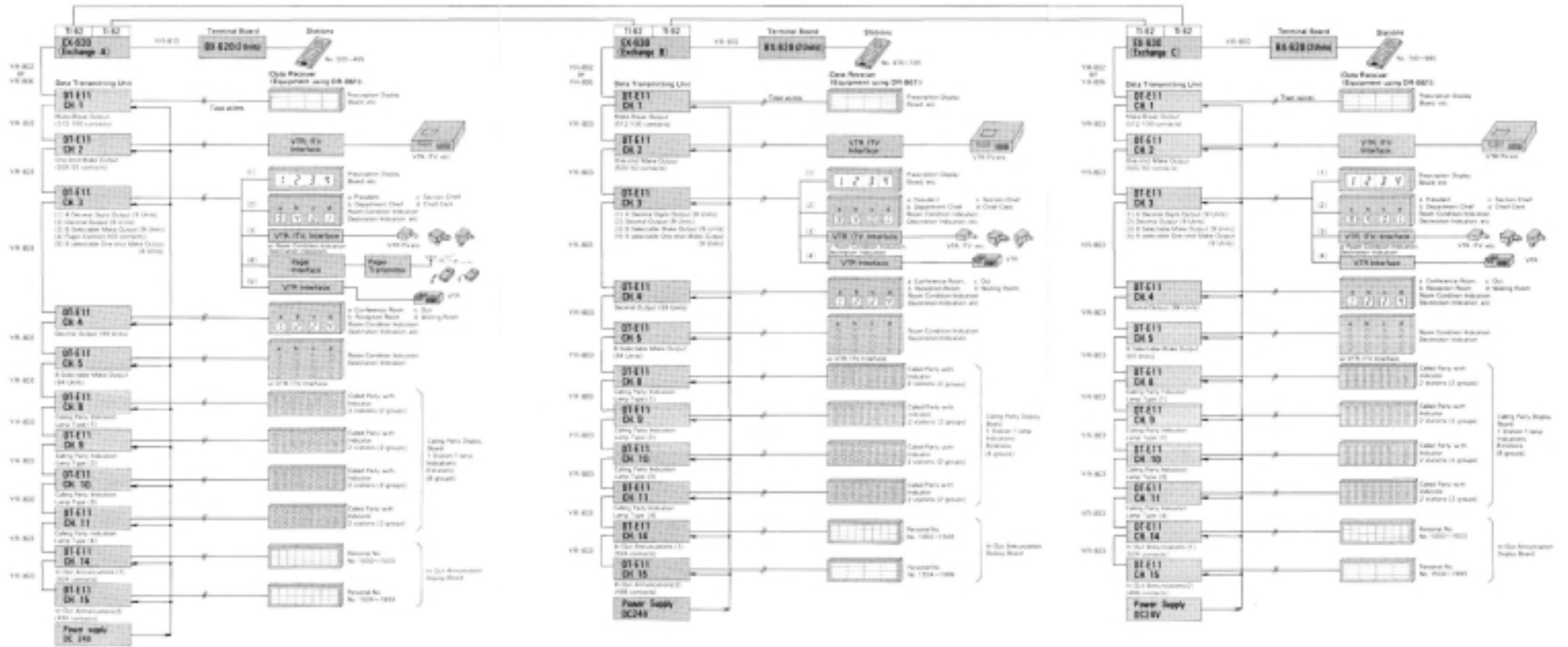


Enlarged Block Diagram of Calling Party Indication


















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

Note: TI-62 : Tie-line Interface Unit

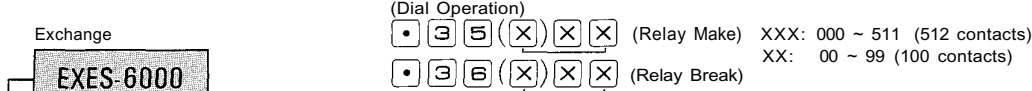


12. EXPLANATION OF DATA TRANSMITTING UNIT OUTPUT CHANNELS

CHANNEL SELECTION	FUNCTIONS	DESCRIPTION	APPLICATION
DT-E11 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-E11 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-E11 CH. 3 	(1) 4 Decimal digits output (9 units)	Indicate by 7 segments LEDs.	<ul style="list-style-type: none"> • Prescription annunciation
	(2) Decimal Output (9 units)	10 Selectable Decimal Outputs are available with 7 segments LEDs.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Destination indication
	(4) Pager Control Output (100 pagers)	Make output (100 contacts) is available for pager control.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • VTR control
DT-E11 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-E11 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-E11 CH. 6 	Calling Party Indication Numerical-type (1)	When a station with a Display Board is called, calling party number is indicated until the conversation is over and also when the called station is busy or in privacy. Max. 256 Calling station numbers can be indicated when designated called station with Display Board is called. The numbers of called stations having an indication panel can be programmed at No.200 station.	<ul style="list-style-type: none"> • The number of called stations are No.201~No.216.
DT-E11 CH. 7 	Calling Party Indication Numerical-type (2)		<ul style="list-style-type: none"> • The number of called stations are No.217~No.232.
DT-E11 CH. 8 	Calling Party Indication (One Station; One Lamp)(1)		<ul style="list-style-type: none"> • The group number of called station(s). No. 1~2
DT-E11 CH. 9 	Calling Party Indication (One Station; One Lamp)(2)		<ul style="list-style-type: none"> • The group number of called station(s). No.3~4
DT-E11 CH. 10 	Calling Party Indication (One Station; One Lamp)(3)		<ul style="list-style-type: none"> • The group number of called station(s). No.5~6
DT-E11 CH. 11 	Calling Party Indication (One Station; One Lamp)(4)	<ul style="list-style-type: none"> • The group number of called station(s). No.5~6 	
DT-E11 CH. 12 	Destination Indication (1)	When a person makes his own Personal Number Programming at the station, the station number at which the registration was made can be indicated by the lamp.	<ul style="list-style-type: none"> • Personal number No.1000~1015
DT-E11 CH. 13 	Destination Indication (2)		<ul style="list-style-type: none"> • Personal number No.1016~1031
DT-E11 CH. 14 	In/Out Annunciation (1)	Personal in and out registration can be accomplished at any Master station by using personal numbers Max. 1000 IN/OUT annunciations may be done.	<ul style="list-style-type: none"> • Personal number No.1000~1503 (504 persons)
DT-E11 CH. 15 	In/Out Annunciation (2)		<ul style="list-style-type: none"> • Personal number No.1504~1999 (496 persons)

13. EXPLANATION OF DATA RECEIVING UNIT OUTPUT DATA

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



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	015	014	013	012	011	010	009	008	007	006	005	004	003	002	001	000	WD. 0	SW1
		031	030	029	028	027	026	025	024	023	022	021	020	019	018	017	016	WD. 1	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 2	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	047	046	045	044	043	042	041	040	039	038	037	036	035	034	033	032	WD. 2	SW1
		063	062	061	060	059	058	057	056	055	054	053	052	051	050	049	048	WD. 3	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 3	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	079	078	077	076	075	074	073	072	071	070	069	068	067	066	065	064	WD. 4	SW1
		095	094	093	092	091	090	089	088	087	086	085	084	083	082	081	080	WD. 5	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 4	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	111	110	109	108	107	106	105	104	103	102	101	100	099	098	097	096	WD. 6	SW1
		127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112	WD. 7	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 5	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	WD. 8	SW1
		159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	WD. 9	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 6	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	175	174	173	172	171	170	169	168	167	166	165	164	163	162	161	160	WD. 10	SW1
		191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	WD. 11	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 7	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193	192	WD. 12	SW1
		223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	WD. 13	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 8	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	239	238	237	236	235	234	233	232	231	230	229	228	227	226	225	224	WD. 14	SW1
		255	254	253	252	251	250	249	248	247	246	245	244	243	242	241	240	WD. 15	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 9	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	271	270	269	268	267	266	265	264	263	262	261	260	259	258	257	256	WD. 16	SW1
		287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	WD. 17	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 10	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	303	302	301	300	299	298	297	296	295	294	293	292	291	290	289	288	WD. 18	SW1
		319	318	317	316	315	314	313	312	311	310	309	308	307	306	305	304	WD. 19	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 11	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	335	334	333	332	331	330	329	328	327	326	325	324	323	322	321	320	WD. 20	SW1
		351	350	349	348	347	346	345	344	343	342	341	340	339	338	337	336	WD. 21	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 12	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	367	366	365	364	363	362	361	360	359	358	357	356	355	354	353	352	WD. 22	SW1
		393	382	381	380	379	378	377	376	375	374	373	372	371	370	369	368	WD. 23	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 13	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	399	398	397	396	395	394	393	392	391	390	389	388	387	386	385	384	WD. 24	SW1
		415	414	413	412	411	410	409	408	407	406	405	404	403	402	401	400	WD. 25	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 14	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	431	430	429	428	427	426	425	424	423	422	421	420	419	418	417	416	WD. 26	SW1
		447	446	445	444	443	442	441	440	439	438	437	436	435	434	433	432	WD. 27	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 15	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	463	462	461	460	459	458	457	456	455	454	453	452	451	450	449	448	WD. 28	SW1
		479	478	477	476	475	474	473	472	471	470	469	468	467	466	465	464	WD. 29	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 16	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	495	494	493	492	491	490	489	488	487	486	485	484	483	482	481	480	WD. 30	SW1
		511	510	509	508	507	506	505	504	503	502	501	500	499	498	497	496	WD. 31	SW2
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		

Each Relay Output shows Relay Contact Number.

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

WORD SELECT Switch

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

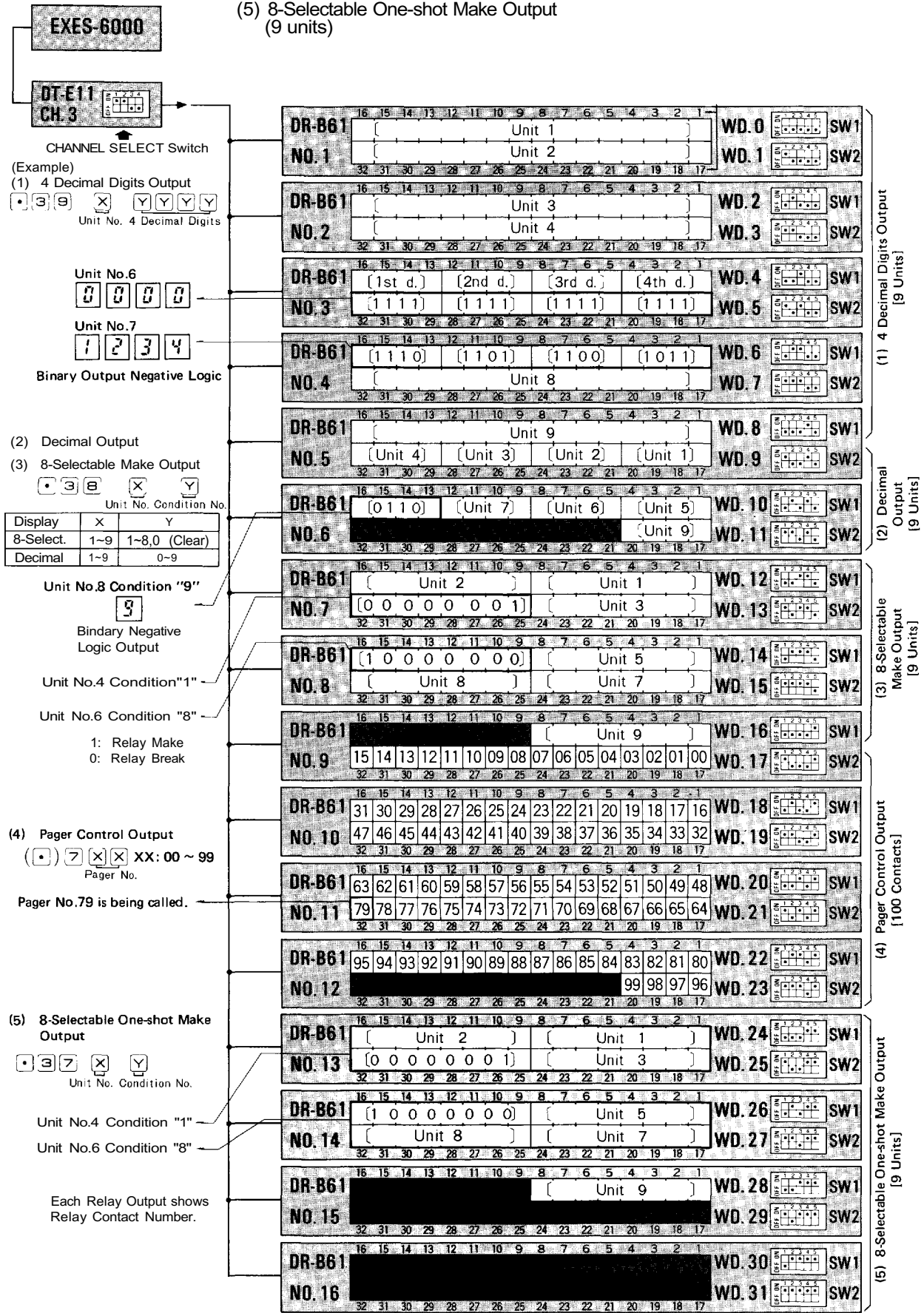


		Data Receiver																Relay Output No.	
		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	WD. 0	SW1
DR-B61 NO. 1	015	014	013	012	011	010	009	008	007	006	005	004	003	002	001	000	WD. 1	SW2	
	031	030	029	028	027	026	025	024	023	022	021	020	019	018	017	016			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 2	047	046	045	044	043	042	041	040	039	038	037	036	035	034	033	032	WD. 2	SW1	
	063	062	061	060	059	058	057	056	055	054	053	052	051	050	049	048			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 3	079	078	077	076	075	074	073	072	071	070	069	068	067	066	065	064	WD. 4	SW1	
	095	094	093	092	091	090	089	088	087	086	085	084	083	082	081	080			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 4	111	110	109	108	107	106	105	104	103	102	101	100	099	098	097	096	WD. 6	SW1	
	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 5	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	WD. 8	SW1	
	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 6	175	174	173	172	171	170	169	168	167	166	165	164	163	162	161	160	WD. 10	SW1	
	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 7	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193	192	WD. 12	SW1	
	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 8	239	238	237	236	235	234	233	232	231	230	229	228	227	226	225	224	WD. 14	SW1	
	255	254	253	252	251	250	249	248	247	246	245	244	243	242	241	240			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 9	271	270	269	268	267	266	265	264	263	262	261	260	259	258	257	256	WD. 16	SW1	
	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 10	303	302	301	300	299	298	297	296	295	294	293	292	291	290	289	288	WD. 18	SW1	
	319	318	317	316	315	314	313	312	311	310	309	308	307	306	305	304			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 11	335	334	333	332	331	330	329	328	327	326	325	324	323	322	321	320	WD. 20	SW1	
	351	350	349	348	347	346	345	344	343	342	341	340	339	338	337	336			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 12	367	366	365	364	363	362	361	360	359	358	357	356	355	354	353	352	WD. 22	SW1	
	393	382	381	380	379	378	377	376	375	374	373	372	371	370	369	368			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 13	399	398	397	396	395	394	393	392	391	390	389	388	387	386	385	384	WD. 24	SW1	
	415	414	413	412	411	410	409	408	407	406	405	404	403	402	401	400			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 14	431	430	429	428	427	426	425	424	423	422	421	420	419	418	417	416	WD. 26	SW1	
	447	446	445	444	443	442	441	440	439	438	437	436	435	434	433	432			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 15	463	462	461	460	459	458	457	456	455	454	453	452	451	450	449	448	WD. 28	SW1	
	479	478	477	476	475	474	473	472	471	470	469	468	467	466	465	464			
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
DR-B61 NO. 16	495	494	493	492	491	490	489	488	487	486	485	484	483	482	481	480	WD. 30	SW1	
														499	498	497			496
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		

Each Relay Output shows Relay Contact Number.

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

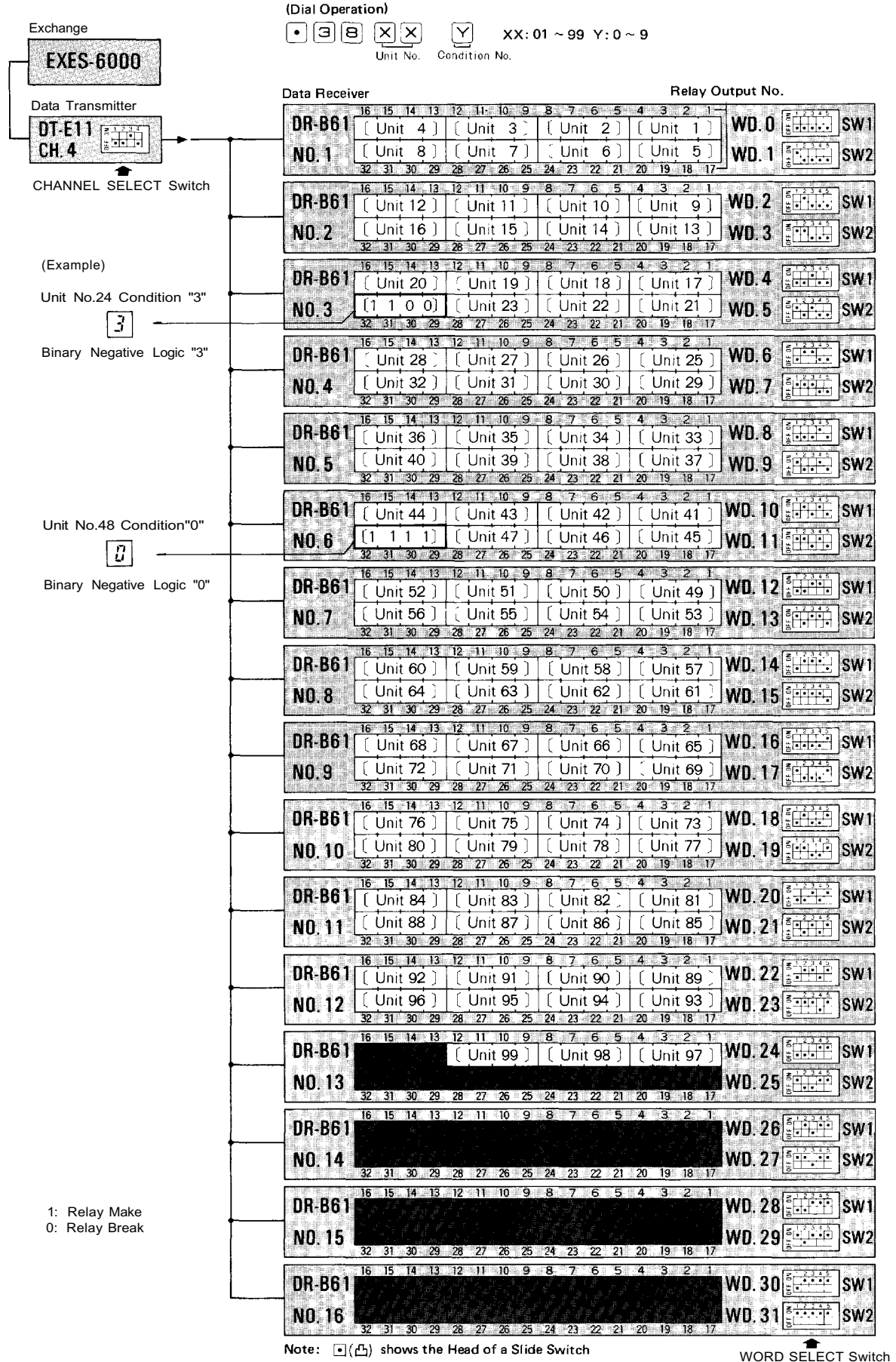
13-3 Channel 3 (CH. 3) (1) 4 Decimal Digits Output (9 units) (2) Decimal Output (9 units)
 (3) 8-Selectable Make Output (9 units) (4) Pager Control Output (100 contacts)
 (5) 8-Selectable One-shot Make Output (9 units)



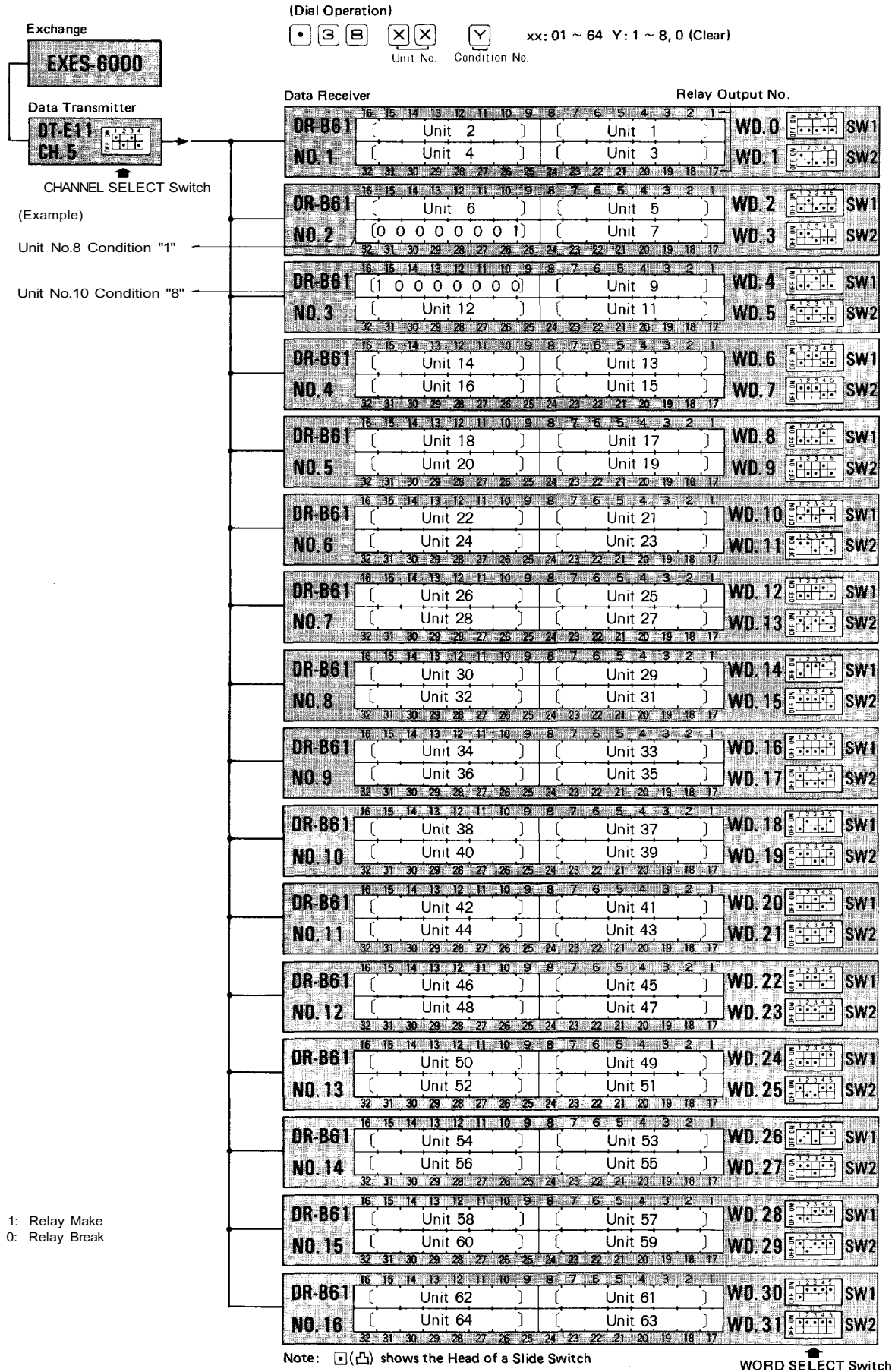
Note: □(凸) shows the Head of a Slide Switch

WORD SELECT Switch

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



13-5 Channel 5 (CH. 5) 8-Selectable Make Output (64 Units)

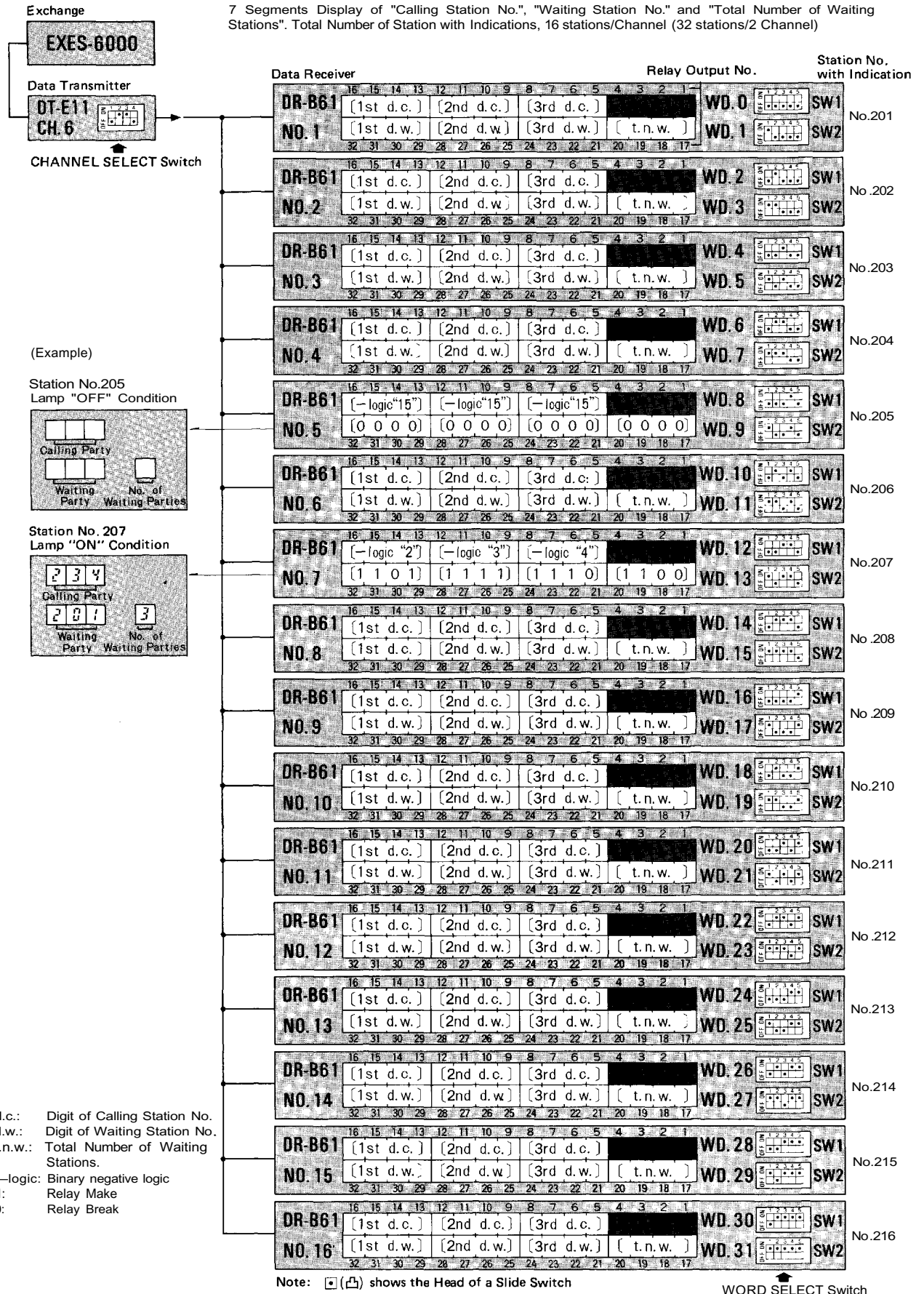


1: Relay Make
0: Relay Break

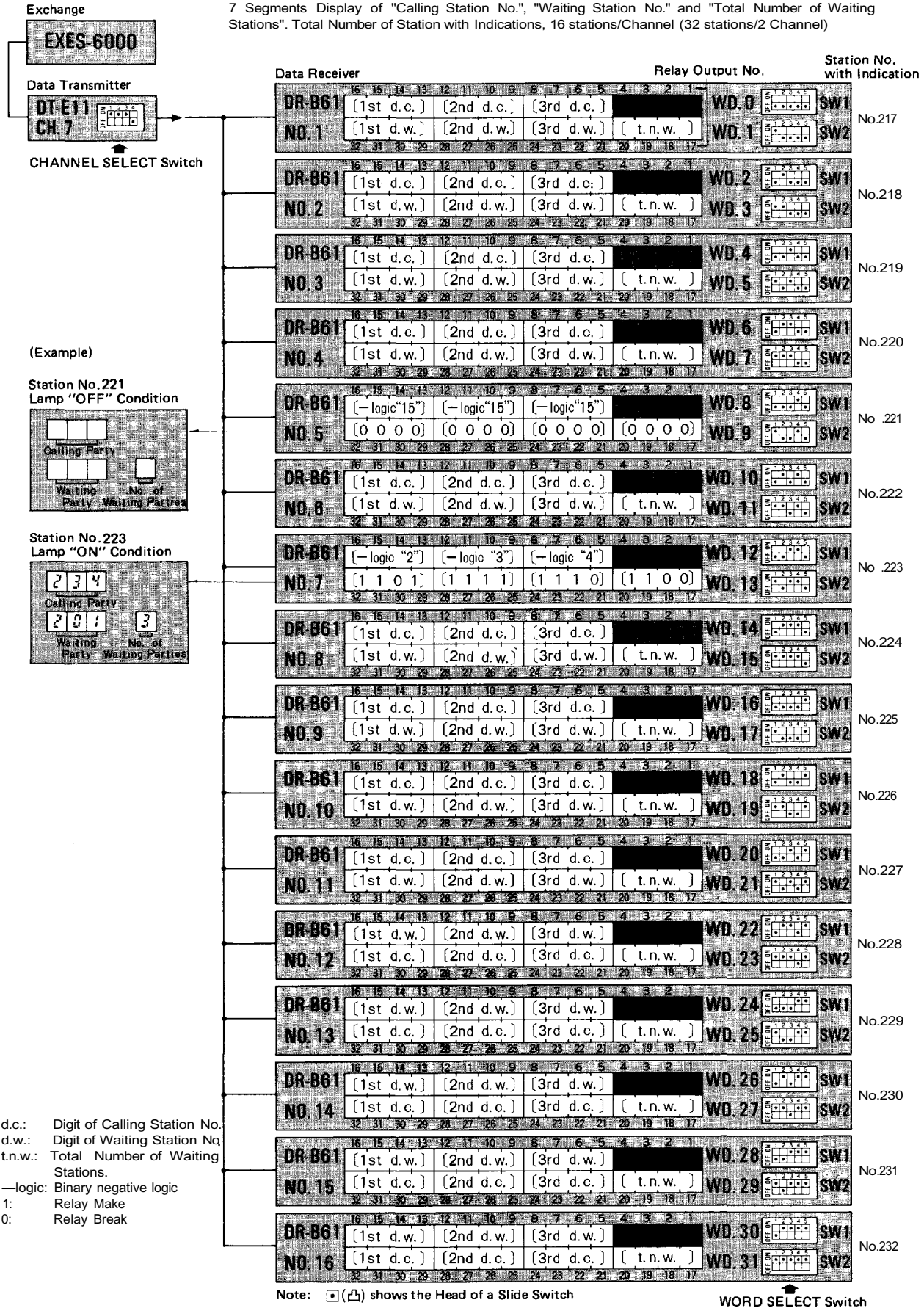
Note: shows the Head of a Slide Switch

WORD SELECT Switch

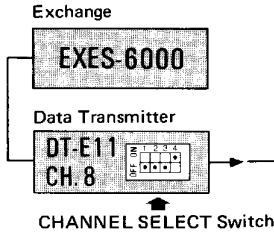
13-6 Channel 6 (CH. 6) Calling Party Indication Numerical Type (1)



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



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



Each "Calling Station" or "Waiting Station" is shown by Each Lamp of Indication.
Total Number of Station with Indications: 2 Stations/Channel (8 Stations /4Channels)
Total Number of Calling Stations: Max. 256 Stations/Each Indication

Data Receiver	Relay Output No.	Station No. with Indication
DR-B61 NO. 1	WD. 0	SW1
	WD. 1	SW2
DR-B61 NO. 2	WD. 2	SW1
	WD. 3	SW2
DR-B61 NO. 3	WD. 4	SW1
	WD. 5	SW2
DR-B61 NO. 4	WD. 6	SW1
	WD. 7	SW2
DR-B61 NO. 5	WD. 8	SW1
	WD. 9	SW2
DR-B61 NO. 6	WD. 10	SW1
	WD. 11	SW2
DR-B61 NO. 7	WD. 12	SW1
	WD. 13	SW2
DR-B61 NO. 8	WD. 14	SW1
	WD. 15	SW2
DR-B61 NO. 9	WD. 16	SW1
	WD. 17	SW2
DR-B61 NO. 10	WD. 18	SW1
	WD. 19	SW2
DR-B61 NO. 11	WD. 20	SW1
	WD. 21	SW2
DR-B61 NO. 12	WD. 22	SW1
	WD. 23	SW2
DR-B61 NO. 13	WD. 24	SW1
	WD. 25	SW2
DR-B61 NO. 14	WD. 26	SW1
	WD. 27	SW2
DR-B61 NO. 15	WD. 28	SW1
	WD. 29	SW2
DR-B61 NO. 16	WD. 30	SW1
	WD. 31	SW2

Group 1
No. ?
No. _____

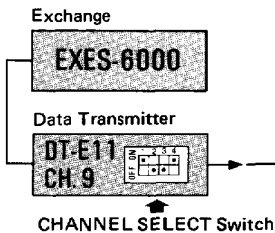
Group 2
No. ?
No. _____

Each Relay Output shows "Calling Station No."

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

WORD SELECT Switch

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



Each "Calling Station" or "Waiting Station" is shown by Each Lamp of Indication.
 Total Number of Station with Indications: 2 Stations/Channel (8 Stations/4 Channels)
 Total Number of Calling Stations: Max. 256 Stations/Each Indication

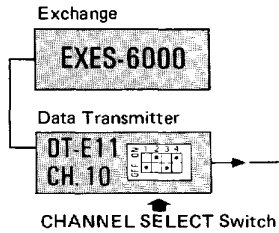
Data Receiver		Relay Output No.																Station No. with Indication		
DR-B61 NO. 1	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 0	SW1	Group 3 No. {
	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	231	230	229	228	227	226	225	224	223	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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."

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

WORD SELECT Switch

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



Each "Calling Station" or "Waiting Station" is shown by Each Lamp of Indication.
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	WD. 0	[Slide Switch Diagram]																SW1
	215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200	WD. 1	[Slide Switch Diagram]																SW2
	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	WD. 2	[Slide Switch Diagram]																SW1
	247 246 245 244 243 242 241 240 239 238 237 236 235 234 233 232	WD. 3	[Slide Switch Diagram]																SW2
	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	WD. 4	[Slide Switch Diagram]																SW1
	279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264	WD. 5	[Slide Switch Diagram]																SW2
	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	WD. 6	[Slide Switch Diagram]																SW1
	311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296	WD. 7	[Slide Switch Diagram]																SW2
	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	WD. 8	[Slide Switch Diagram]																SW1
	343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328	WD. 9	[Slide Switch Diagram]																SW2
	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	WD. 10	[Slide Switch Diagram]																SW1
	375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360	WD. 11	[Slide Switch Diagram]																SW2
	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	WD. 12	[Slide Switch Diagram]																SW1
	407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392	WD. 13	[Slide Switch Diagram]																SW2
	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	WD. 14	[Slide Switch Diagram]																SW1
	439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424	WD. 15	[Slide Switch Diagram]																SW2
	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	WD. 16	[Slide Switch Diagram]																SW1
	215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200	WD. 17	[Slide Switch Diagram]																SW2
	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	WD. 18	[Slide Switch Diagram]																SW1
	247 246 245 244 243 242 241 240 239 238 237 236 235 234 233 232	WD. 19	[Slide Switch Diagram]																SW2
	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	WD. 20	[Slide Switch Diagram]																SW1
	279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264	WD. 21	[Slide Switch Diagram]																SW2
	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	WD. 22	[Slide Switch Diagram]																SW1
	311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296	WD. 23	[Slide Switch Diagram]																SW2
	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	WD. 24	[Slide Switch Diagram]																SW1
	343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328	WD. 25	[Slide Switch Diagram]																SW2
	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	WD. 26	[Slide Switch Diagram]																SW1
	375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360	WD. 27	[Slide Switch Diagram]																SW2
	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	WD. 28	[Slide Switch Diagram]																SW1
	407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392	WD. 29	[Slide Switch Diagram]																SW2
	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	WD. 30	[Slide Switch Diagram]																SW1
	439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424	WD. 31	[Slide Switch Diagram]																SW2
	455 454 453 452 451 450 449 448 447 446 445 444 443 442 441 440																		

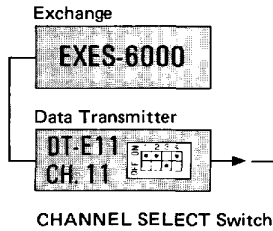
Each Relay Output shows "Calling Station No."

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

WORD SELECT Switch

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

Each "Calling Station" or "Waiting Station" is shown by Each Lamp of Indication.
 Total Number of Station with Indications: 2 Stations/Channel (8 Stations/4 Channels)
 Total Number of Calling Stations: 256 Stations/Each Indication



Data Receiver	Relay Output No.	Station No. with Indication
DR-B61 NO. 1	WD. 0	SW1
	WD. 1	SW2
DR-B61 NO. 2	WD. 2	SW1
	WD. 3	SW2
DR-B61 NO. 3	WD. 4	SW1
	WD. 5	SW2
DR-B61 NO. 4	WD. 6	SW1
	WD. 7	SW2
DR-B61 NO. 5	WD. 8	SW1
	WD. 9	SW2
DR-B61 NO. 6	WD. 10	SW1
	WD. 11	SW2
DR-B61 NO. 7	WD. 12	SW1
	WD. 13	SW2
DR-B61 NO. 8	WD. 14	SW1
	WD. 15	SW2
DR-B61 NO. 9	WD. 16	SW1
	WD. 17	SW2
DR-B61 NO. 10	WD. 18	SW1
	WD. 19	SW2
DR-B61 NO. 11	WD. 20	SW1
	WD. 21	SW2
DR-B61 NO. 12	WD. 22	SW1
	WD. 23	SW2
DR-B61 NO. 13	WD. 24	SW1
	WD. 25	SW2
DR-B61 NO. 14	WD. 26	SW1
	WD. 27	SW2
DR-B61 NO. 15	WD. 28	SW1
	WD. 29	SW2
DR-B61 NO. 16	WD. 30	SW1
	WD. 31	SW2

Group 7
 No. _____
 No. _____

Group 8
 No. _____
 No. _____

Each Relay Output shows "Calling Station No."

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

WORLD SELECT Switch

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

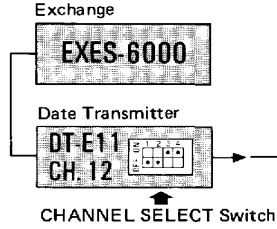
(Dial Operation)

- Registration of Personal Number
- Cancellation of Personal Number

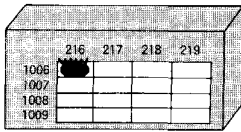
XX: 00~31

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

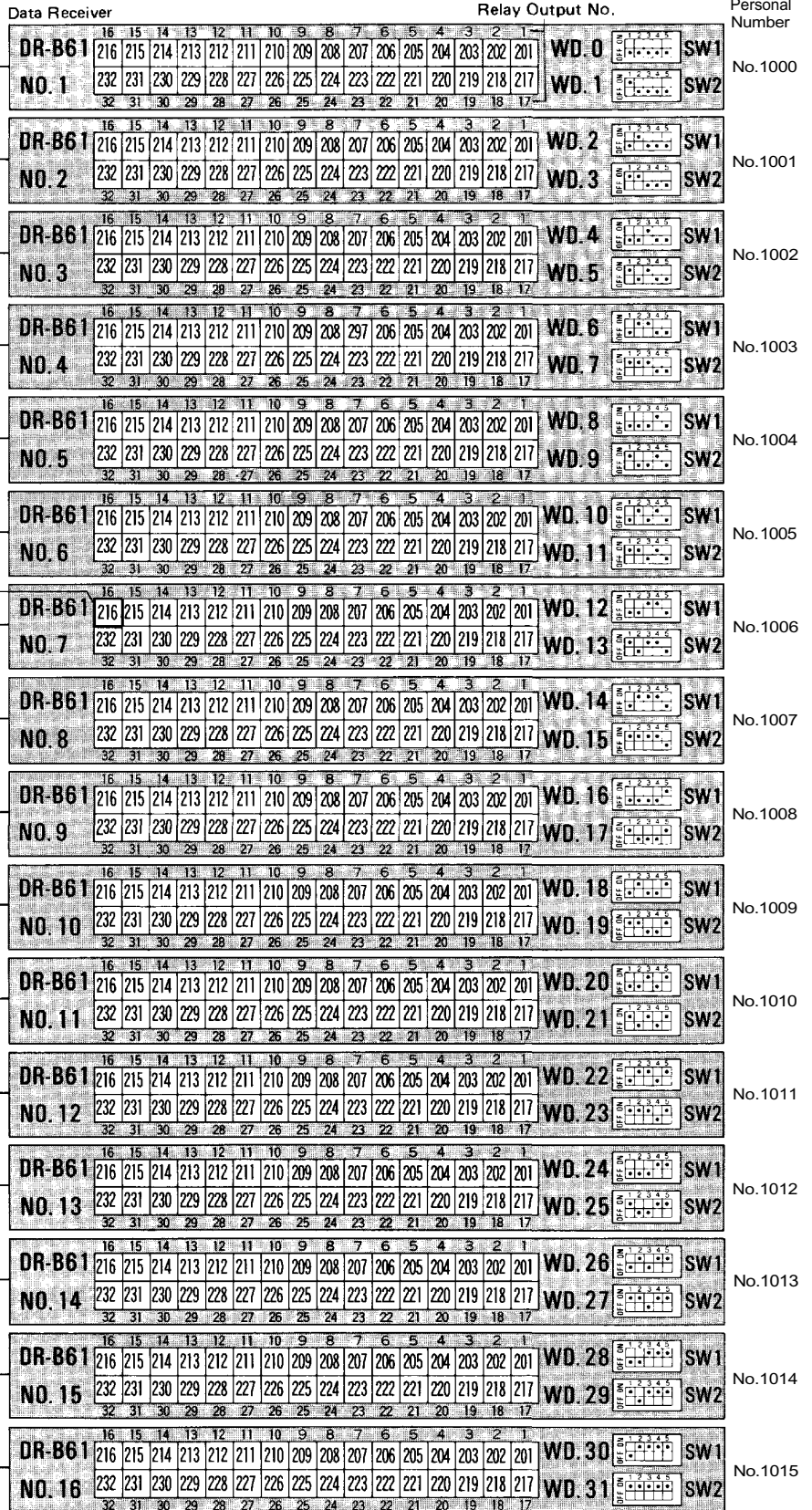
Station Number which shows Person's Destination: Max. 32 stations (No.201~232)



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 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)

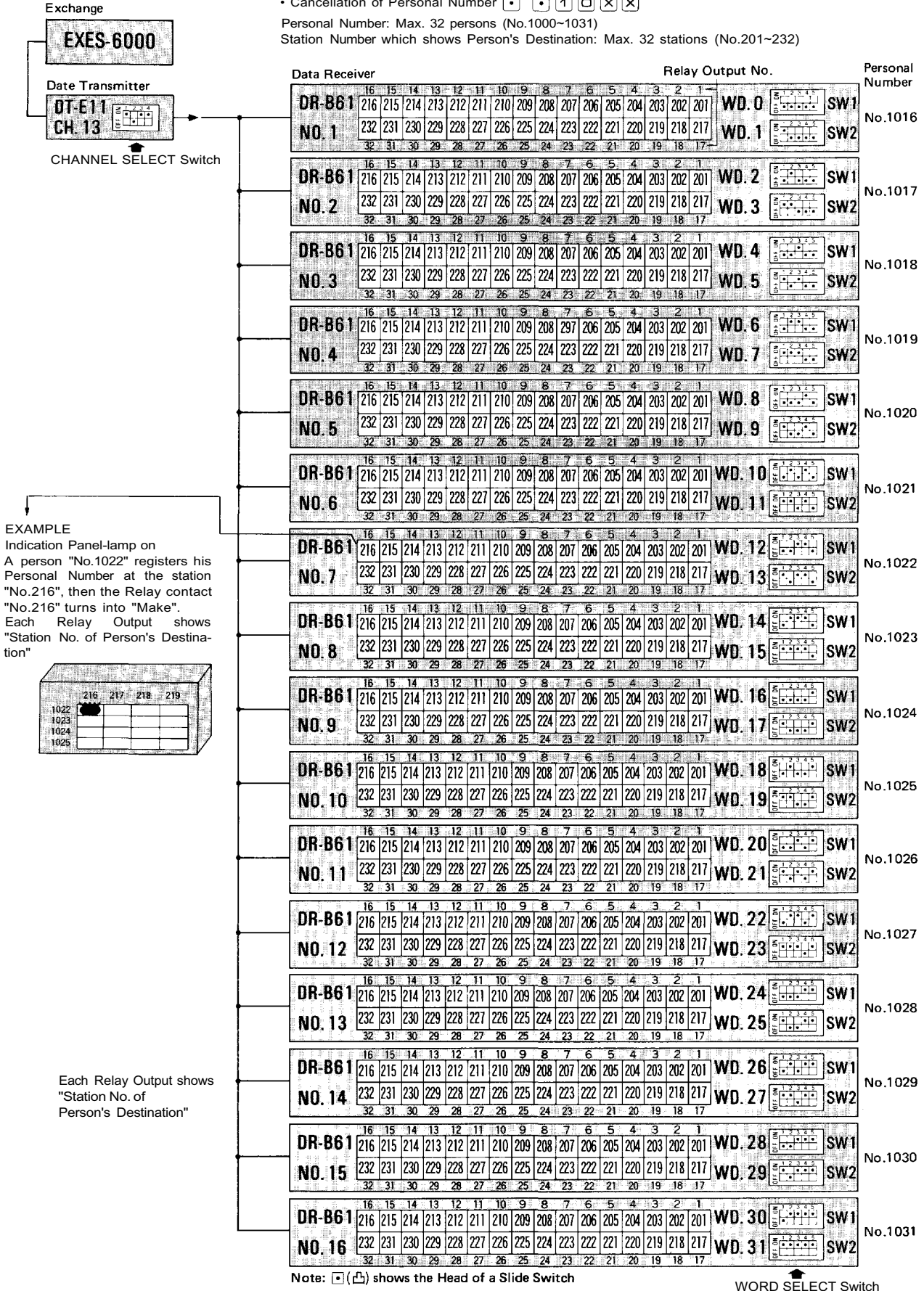
(Dial Operation)

- Registration of Personal Number 1
- Cancellation of Personal Number 1

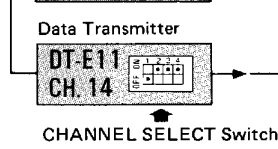
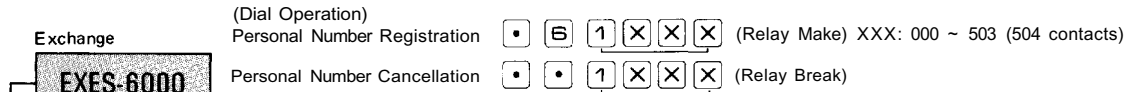
XX: 00~31

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

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



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



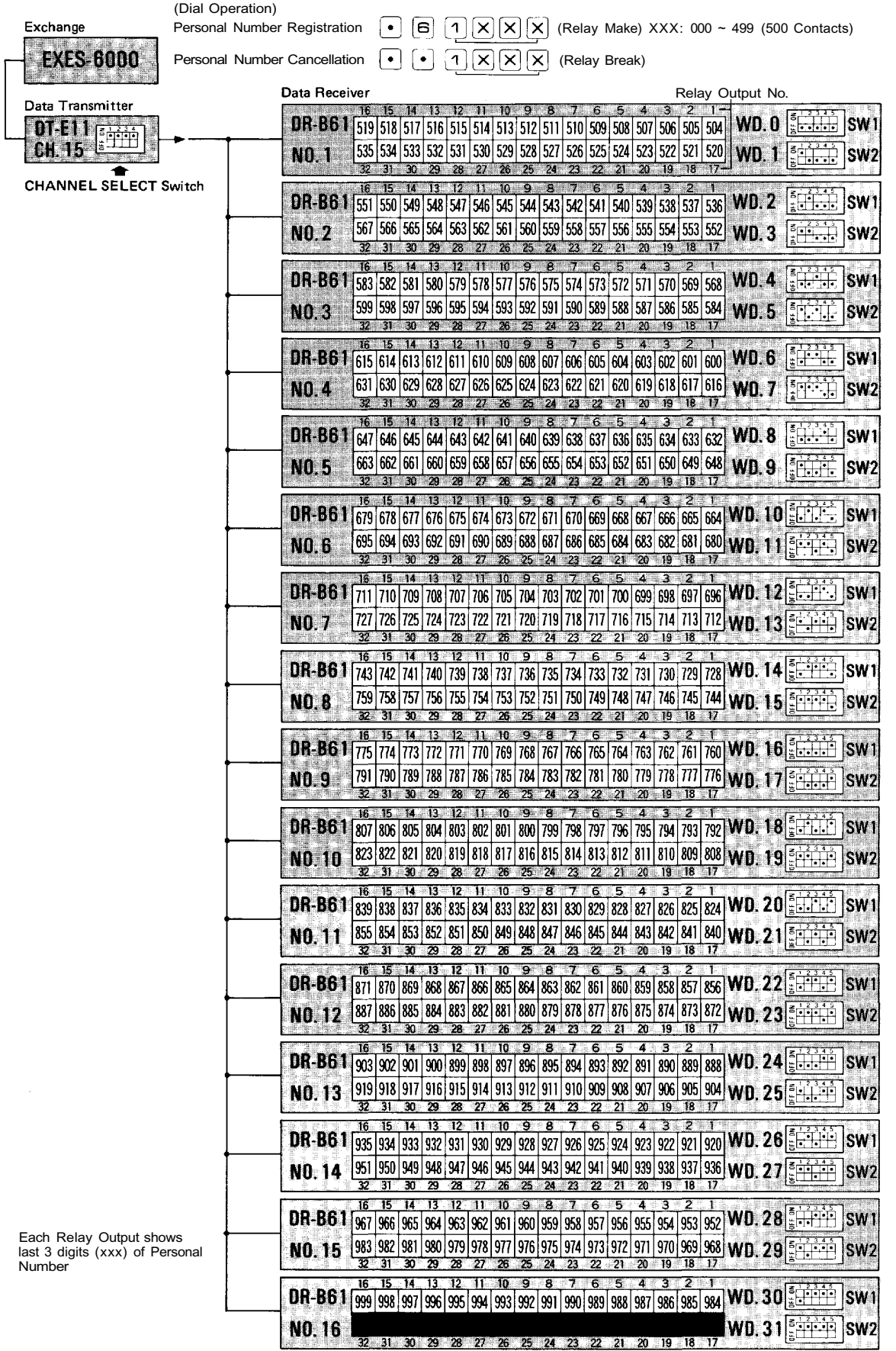
		Date Receiver																	Relay Output No.	
		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	WD. 0	SW1	
DR-B61 NO. 1	015	014	013	012	011	010	009	008	007	006	005	004	003	002	001	000	WD. 1	SW2		
	031	030	029	028	027	026	025	024	023	022	021	020	019	018	017	016				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 2	047	046	045	044	043	042	041	040	039	038	037	036	035	034	033	032	WD. 2	SW1		
	063	062	061	060	059	058	057	056	055	054	053	052	051	050	049	048				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 3	079	078	077	076	075	074	073	072	071	070	069	068	067	066	065	064	WD. 4	SW1		
	095	094	093	092	091	090	089	088	087	086	085	084	083	082	081	080				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 4	111	110	109	108	107	106	105	104	103	102	101	100	099	098	097	096	WD. 6	SW1		
	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 5	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	WD. 8	SW1		
	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 6	175	174	173	172	171	170	169	168	167	166	165	164	163	162	161	160	WD. 10	SW1		
	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 7	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	WD. 12	SW1		
	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 8	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216	WD. 14	SW1		
	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 9	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248	WD. 16	SW1		
	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 10	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280	WD. 18	SW1		
	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 11	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312	WD. 20	SW1		
	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 12	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344	WD. 22	SW1		
	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 13	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376	WD. 24	SW1		
	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 14	423	422	421	420	419	418	417	416	415	414	413	412	411	410	409	408	WD. 26	SW1		
	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 15	455	454	453	452	451	450	449	448	447	446	445	444	443	442	441	440	WD. 28	SW1		
	471	470	469	468	467	466	465	464	463	462	461	460	459	458	457	456				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			
DR-B61 NO. 16	487	486	485	484	483	482	481	480	479	478	477	476	475	474	473	472	WD. 30	SW1		
	503	502	501	500	499	498	497	496	495	494	493	492	491	490	489	488				
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17			

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

Note: shows the Head of a Slide Switch

WORD SELECT Switch

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





TOA ELECTRIC CO, LTD.
KOBE, JAPAN