

EXES-5000 CPU-56

TOA EXES-5000 INTERCOM SYSTEM

For

Central Processing Unit

CPU-56

INSTALLATION HAND BOOK





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This manual forms part of the Installation Manual for TOA INTERCOM SYSTEM EXES-5000.

You may add the CPU-56 to your TOA INTERCOM SYSTEM EXES-5000, according to your specific needs, to obtain various other functions. Correct operation of these additional functions are **not necessarily available only by connection of the additional equipments/devices.** Provision of such additional functions 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-510/520 EXCHANGE or ③ "Manual for Installation of Data Transmitting and Receiving Units", etc. This "Installation Handbook of CPU-55" deals principally with (2) selection of functions and setting up of respective equipment,

There are certain minimum installation requirements to be met; even though you may not need many, of the additional functions or additional equipment, it is still necessary to read "2. Initial CPU-56 Set Up (Page 14)". When you use, only some of the additional functions or equipments, it is not necessary to read instructions on the unrequired functions. Make sure, however, that careful study of the necessary parts of this booklet is be done before proceeding further.

- Note 1; Refer to the Installation handbook of CPU-52A", when installing a standard call and Paging system, using the CPU-52A.
- Note 2; Refer to respective manuals when other types of CPU and connection equipment/devices are used.



	Reguined include and book				
SYSTEMS OF EXES - 5000	1) EX-510/520 EXCHANGE	② CPU-56	CPU-52A	③ DATA TRANS- MITTING AND RECEIVING UNIT	
A System using CPU-56	\bigcirc	\bigcirc			
$\ensuremath{\textcircled{B}}$ Bystem with Display and Control functions using CPU-56	\bigcirc	\bigcirc		\bigcirc	
© System using CPU-52A	\bigcirc		\bigcirc		

• FUNCTIONS WHICH REQUIRE ADDITIONAL UNITS

(When the Exchanges are not connected by means of Tie-line.)

Those functions of the CPU-56 which require either the addition of specific units or processing in existing units are as mentioned below. Before installation and adjustment of equipment, make sure to check your system.

(For Data Transmitting and Receiving units, refer to Part 2. "Function Selection for Data Transmitting and Receiving units" Page 43.)

Function	Additional Equipment Required	Unit Model Nos.	Remarks		
Talk-Back from paging speaker	Talk-Back Unit	TKU-11	Optional amplifier (10W max.) may be re- quired depending on application		
Conference	Conference Unit	CLU-52			
External PA Paging	Paging Interface Unit	PIU-52/52A	External PA Equipment is required.		
Station Paging	Paging Interface Unit	PIU-52/52A	 Wiring of "Station Paging Assignment Plug" located at the back of the frame of the Exchange. Cutting of LMU jumper wire to split sta- tion paging system. (Refer to Service Manual for LMU-52/52A, PIU-52/52A). 		
			, PIU No.1 is different from PIU No.2 in the following parts being used in each unit.		
All call plus 15 in- dividual paging zones	Paging Interface Unit	PIU-52/52A (2pcs)	Type PIU No.1 All call +7 Paging Parts Zones (No.0-7) Pit No.2 B Zones (No.8-15) without all call		
1			Jumper wire(JW) Connected Disconnected		
			R.100 Not mounted mounted		
• •			2.Pin 46A of PIU No.1 must be connected to pin 46A of PIU No.2 by means of wrapping wire at the back exchange frame.		
	Output Control Unit	OCU-52A	OCU-52 must be modified. (Add M9, M17 and TTL IC 7475 2 pcs.)		
	Frame	FR-510A/B 520A/B	2 PIU's can be mounted		
Data Transmitting and Receiving Units. DT-E11 and DR-B61	Frame	FR-510B .520B	with terminal for interface output		

Position of PIU Units for All-Call Paging and 15 Individual Zone Paging



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Tieline connection	Tieline Unit	TI-52	Turn off the DIP switch for tieline links not used when the exchanges are connected by tielines
of exchanges	Output Unit	OCU-52A	OCU-52 must be modified. (Add M9, M17 and TTL_IC 7475 2 pcs.)
	Frame	FR-510A/B 520A/B	PIU-52A and TI-52 can be mounted.
Data Transmitting and Receiving Units DT-E11 and DR-B61.	Frame	FR-510B 520B	with terminal for interface output



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• TIELINE CONNECTION OF THE EXCHANGES

1. Function of the Central Processing Unit CPU-56 To make communications between exchanges Ex possible in the EXES-5000 system, the CPU-56 and the Tieline Unit TI-52 are required in addition to the exchange EX-510 or the EX-520.

The TI-52 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 CPU-56 transmits the dial data signals to the TI-52 and instructs it to make calls to the other exchange. The CPU-56 also receives



the dial data signals from the other exchange through the TI-52 and calls the station which it is instructed to call by the other exchange.

Overall functions of the system using the tieline function are determined by programming made in the CUP-56.

2. Number of station, paging zones and links



* The links within own exchange as well as the tieline links are used in each tieline communication.

3. Numbering for stations and paging zones

	Numbering for stations			Numbering for paging zones				
Type of exchange	Model Without Paging		with paging 7 zones	With paging 15zones	Paging zone per exchange		Paging 15 zones per exchange	
		5 5	per exchange	per exchange	All call	Zone page	All call	Zone page
Single	EX-510	200~263	200~255	200~247	0	1~7	00	0115
(EX-1)	Ex-520	200~327	200~319	200~311	0	± /	00	01~15
Exchange	EX-510	200~247, 256~263	200~247			01.07		
(Ex-2A/3A)	EX-520	200~311, 320~327	200~311			01~07		
Exchange	EX-510	470~517, 526~533	470~517		00	09 14		
(Ex-2B/3B)	EX-520	470~581, 590~597	470~581	\square	00	08~14		\square
Exchange	EX-510	740~787, 796~803	740~787	/		1521		
(EX-3C)	EX-520	740~851, 860~867	740~851			13~21		

- 4. Reduction of the number of stations and paging zones which results from the use of the Tieline Unit TI-52.
 - 1. Mounting one (1) piece of the TI-52 decreases the number of the LMU-52A (the 7th or the 15th LMU-52A) by one (1).
 - 2. Unless the PIU-52A is used, the system can have up to 8 more stations by placing an LMU-52A in the 8th or the 16th position.
 - 3. When the system uses the tieline function, the second unit of the PIU-52A (paging zones 8 15) cannot be used.



_<	(EX-520)		
LMU	station No.		
1	200 - 207		Nc
2	208 - 215		LM
3	216 - 223		PI
4	224 - 231		DT DT
5	232 - 239		TT
6	240 - 247		
7	248 - 255		
8	256 - 263		
9	264 - 271		
10	272 - 279		
11	280 - 287		
12	288 - 295		
13	296 - 303		
14	304 - 311		
15	312 - 319	PIVI	TI
16	320 -327	PIVI	

Note. LMU:Line Modem Unit PIU:Paging Unit PIUI:Zone No. 0~7 PIU II:Zone No. 8~15 TI:Tie line Unit

5. Block diagram for tielined exchanges.



Note. Tieline connection of EX-510 to EX-520 Exchanges is also possible.

- WIRING FOR TIELINE CONNECTION OF THE EXCHANGES
- o Each exchange can be connected by means of a cable with a diameter of 0.65mm for a distance of up to 2km.
- o Regarding the tieline links which are not used, turn off the DIP switch of each unused tieline link inside the Tieline Unit TI-52.
- O Connect "T" line (2 wires) of the 4 wires of each link to "R" line (2 wires) of the other exchange.
- o The 2 wires of the "T" line and "R" line have no polarity. If the BOX-064 is used, its terminals No. 1 and 2 are for the "R" line and No. 3 and 4 are for the "T" line.





Note 1. Any combination of tieline links between exchanges "A" and "B" is possible. But, in consideration of possible increase in the number of exchanges to be connected from 2 to 3 in the future, we suggest you connect TL (link No. 0, 1, 2, 3) of exchange "A" to TH (link No. 4, 5, 6, 7) of exchange "B". 2. Wiring for tieline connection of 3 exchanges



- Note 2. Be sure to connect TL (link No. 0,1,2,3) to TH (link No. 4,5,6,7) between the exchanges. Connection of TH to TH or TL to TL will lead to failure of proper operation of the system.
- Note 3. Switching arrangements of DIP switches (E-1, E-2, E-3) in the CPU-56 make each exchange to be of "EX-1" or "EX-2A" or "EX-2B" or "EX-3A" or "EX-3B" or "EX-3C" type.



(YR-801 must be connected to J15 for EX-520 exchange or to J7 for EX-510 Exchange

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4. The Example of connection of 3 EX-520 exchanges

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PART 1. OPERATION OF CPU UNIT AND NO. 200 PROGRAMMING

1. PRECAUTIONS FOR INSTALLATION OF CPU-56

Please read the following instructions carefully to ensure proper operation of the CPU-56.

- Be careful about damage by static electricity as the CPU-56 incorporates CMOS IC's. Do not touch components and connectors.
- 2. Turn off the AC power switch when you take out or insert the CPU-56 unit, or any other unit.
- 3. Always insert the CPU-56 unit into the "CPU" 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 the **ON position each time it is used.**
- 5. Incorrect setting of function select switches may lead to incorrect performance.

- Even if you do not need any programming functions, be sure to carry out initial programming and registration at station No. 200 when you install the new unit. Otherwise, other functions may not work properly.
- The Ni-Cd battery GB50-3FA1 is capable of saving important memory registration data even at times of power failure and we suggest you replace it at least every 4 or 5 years.
 After the change again set up station No.200 programming of the previous functions in the exchange.
- When shipping the CPU-56 unit independently, place the mini-jumper for battery back-up in "OFF" position. Then cover CPU back with cardboard, wrap connector section in aluminium foil and put it in a conductive bag.

FUNCTION SELECT SWITCHES





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3. TROUBLE SHOOTING

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

- 1. Put the 4 "LINK SELECT" switches of the HCU upward (Link No. 15 SELECT) and switch on the AC power of the exchange.
- 2. If there is no error, no HCU indication lamps will 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.



3-3 Indication on front panel of the CPU.

"RUN" LED indicator

When the system is working normally, LED is "on". Check its condition when the system fails to work normally.

"SELF RESTART" LED indicator

This does not light when the system is working normally. Even if high noise from outside of the exchange causes the CPU to work abnormally, the CPU "self-restarts" and the system keeps on working normally. Once the CPU "self-restarts", the LED indicator is on, but it does not affect the system. If you again cycle the AC power source, the LED indicator is turned off.

3-4. Dial receiving test

If you place all "LINK SELECT" switches $(1 \sim 4)$ of SW-A on the CPU-55 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.



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 mistakes at the time of DIP switch installation and No. 200 Programming since such mistakes may lead to trouble later.
- 2. Be sure to make "No. 200 Programming" after "Function Registration List" (attached to this manual) is filled out. Keep the finished "Function Registration List" (Initial Checking Sheet for the System 133-21-024-4) as a part of complete drawings for each installation.

3-6. The order of Tie Line link usage.

The Tieline 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 HCU-52.

When one Tieline 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 HCU-52 of the exchange making the call.

As diagram Nol and No2 shows, in the exchanges which make calls, the DLU Link Number corresponds with TI Tieline Link Number.

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

DLU Links are used in numerical order.

1. Tieline for 2 exchanges



Diagram 1



Excl	nange which	ch call	S	Exchange which	is called
DLU Link No	TI <u>Tielin</u> 2 <u>Tieline</u> To () , ()	e Link 3 Ti To T	Number elines To	TI Tieline Link Number	Tieline Link
0	0	0)	4.)		
1	1	1	5		
2	2	2	6		_
3	3	3)	7 J		
4	4	0	4]	S S	
5	5	1	5	on on on	_ 5 _
6	6	2	6	Excl	ter i
7	7 /	3)	7)	с с с	ore use
8	0 `	0	4]	t CO	swi are cal
9	1	1	5	pe p	ter iks Aeri
10	2	2	6	ixe	Afi Lir num
11	3	3/	7)	ц U H U	
12	4	0	4]		
13	5	1	5		
14	6	2	6		
15	7	3)	ر _۲ ا		

Reference for Connection Link Number between DLU and TI Link

Notice: If the TI Tieline Link which correspond with the DLU Link No is already busy, then, the next Tieline Link is automatically used.

4. CPU-56 DIP SWITCH FUNCTION SELECTION



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Confir-mation tone Confir tone The Last Station . No. Group No.(s), (1~8) Confirmation tone Repeat Zone No. The 1st Station 01~21 No. Group No. 1~8 **OPERATING FOR PROGRAMMING** Repeat Paging Zone No. 0.0.0 Confirmation tone Repeat Confirmation Station No. Station No. (1 st) (2 nd) 000.000 Station No. 1/0 (2nd) Confir mation tone Repeat Repeat Confir-mation tone Confir-mation tone Group No.(s), of Called Partnes $1\!\sim\!\!8$ Group No.(s), (1 ~ 8) The Last Station No. ÷ • EX , ____ , ___ tone Repcat X:0,1,2 Zone No. The 1st Station 01-21 No Group No 1-8 Repcat Repeat. Station No. (2nd) • B2 , (PTT) 0 , , Paging Zone No. (00--21) Group No. of Calling Parties 1~8 X:0~3 Station No. 1/0 6~9 (1st) Repeat Repeat X:0,1 Station No. OIX . OO . Programming θĘ (1~8) οĘ ų (1~8) 3rdParameter Last Station No. the Group Station No. Station No. the Group the zone Function Code Table for Station No.200 Last Last * 470~597 in Exchange "B" 740~851 in Exchange "C". Paging Group No.(s) (Plural) of ч Ч Master Station Called Group No.(s) (Plural) 2nd Parameter (1/0)First Station No. the Group (1/0)ON/OFF (1/0) Station No. the Group ON/OFF (1/0) Secretary Station No. ON/OFF(1/0)Station No. ON/OFF(1/0)ON/OFF (1/0) ON/OFF (1/0) the zone ON/OFF ON/OFF First First No. 1st Parameter Calling Group No. (1~8) Paging zone No. of paged Sub Station No. Station No. (200~327*) (20~99) Station No. (200~327*) Station No. (200~327*) Station No. (200~327*) Executive Station No. Group No. (1~8) Group No. group (00~21) Zone No. (01~21) (20~99) (20~99) (20~99) (1~8) Function Code 60 72 61 50 71 81 82 56 57 58 59 50 52 53 51 Access to One Shot Make Output Access to 8 Selec-Secretary Transfer table/Decimal Out-Continuous Calling Access to All Call Group Blocking: Allowing Calls Among Groups Group Blocking: Allowing Access to Paging Zones Group Blocking: Establishment of Stations Allowed Stations Allowed Stations Allowed Stations Allowed StationsAllowed Stations Allowed Paging Response, Paging Priority Access to Make/ Access to 4 Decimal Digits Function Break Output each group Conference Master/Sub Access to Executive Priority Output Tone put Function . വ Group р υ 32 Ц

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6. STATION NO. 200 PROGRAMMING FOR EACH FUNCTION

6-1 EXECUTIVE PRIORITY (FUNCTION CODE 50)



NOTES

1. To register all stations at one time, Touch • 5 0 <u>11 • • • 1</u>

10 times

(Confirmation tone will be heard.)

2. To release all registered stations at one time,

Touch • 5000 · · · 0

10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- 4. Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 5. CPU DIP switch B-3 <u>must</u> be "ON" to employ this function.



1. To register all stations at one time,

Touch

 \bullet 51<u>11...1</u>

10 times

(Confirmation tone will be heard.)

2. To release all registered stations at one time,

Touch • 5 1 0 0 · · · 0

10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- 4. Station No. should be 2 digits in length, when 2 Digit Dialing function is employed.
- 5. CPU DIP switch E-6 <u>must</u> be "ON" to employ this function.

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



NOTES

1. To register all stations at one time,

Touch

•52<u>11…1</u> 10 times

•5200…0

10 times

(Confirmation tone will be heard.)

2. To release all registered stations at one time,

Touch

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- 4. Station No. should be 2 digits in length, when 2 Digit Dialing function is employed.
- Programming is necessary <u>only</u> if CPU DIP switch D-1 is "ON".



1. To register all stations at one time,

2. To release all registered stations at one time,

Touch

• 5 3 <u>0 0 · · · 0</u> 10 times

- 3. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 5. Programming is necessary <u>only</u> if CPU DIP switch D-2 is "ON". Switch B-1 <u>must</u> be "ON" to employ this function.



1. To register all stations at one time, Touch • 5 6 1 · · · 1 10 times

(Confirmation tone will be heard.)

2. To release all registered stations at one time, Touch •56000...0

10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 5. Programming is necessary <u>only</u> if CPU DIP switch D-3 is"ON". Switch D-6 <u>must</u> be "ON" to employ this function.



1. To register all stations at one time, Touch • 5 7 <u>1 1 • • • 1</u> 10 times

(Confirmation tone will be heard.)

2. To release all registered stations at one time,



- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- 4. Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 5. Programming is necessary <u>only</u> if CPU DIP switch D-3 is "ON". Switch D-6 <u>must</u> be "ON" to employ this function.





(Confirmation tone will be heard.)

2. To release all registered stations at one time, Touch • 5 8 00 • • • 0 10 times

- 3. Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 5. Programming is necessary <u>only</u> if CPU DIP switch D-3 is "ON". Switch D-6 <u>must</u> be "ON" to employ this function.

6-8 STATIONS ALLOWED ACCESS TO 4 DECIMAL DIGITS OUTPUT (FUNCTION CODE 59)



NOTES

1. To register all stations at one time, Touch • 59110 ••• 1 10 times

(Confirmation tone will be heard.)

2. To release all registered stations at one time,

Touch • 5900 · · · 0 10 times

- Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.)
- 4. Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 5. Programming is necessary <u>only</u> if CPU DIP switch D-3 is "ON". Switch D-6 <u>must</u> be "ON" to employ this function.

6-9 SECRETARY TRANSFER (FUNCTION CODE 60)



NOTES

1. To release all registered stations at one time,

Touch $\bullet 6000 \cdots 0$ 10 times

(Confirmation tone will be heard.)

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

- Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 4) Employment of Call Forwarding function makes the Secretary's station to be the station the call is to be rerouted to when the station called first is busy.

6-10 MASTER/SUB RELATIONSHIP (FUNCTION CODE 61)



NOTES

1. To release all registered stations at one time,

Touch • 6 1 00 • • • 0

10 times (Confirmation tone will be heard.)

 Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.) Station No. should be 2 digits in length when 2 Digit Dialing function is employed.



1. To release all registered Zones at one time,

Touch • 7 0 0 0 · · · 0 10 times

(Confirmation tone will be heard.)

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

- 3. Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 4. Switch B-4 must be "ON" to employ this function.



GROUP BLOCKING 1

NOTES

1. To release all registered Zones at one time,

Touch

• 7 1 <u>0 0 • • • 0</u> 10 times

(Confirmation tone will be heard.)

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

- 3. Station No. should be 2 digits in length when 2 Digit Dialing function is employed.
- 4. CPU DIP switch D-4 <u>must</u> be "ON" to employ this function.
- 5. Group No.7 and 8 are not needed the programming in case the exchanges are tielined.



1. To release all registered Groups at one time,

Touch

• 7 2 <u>0 0 · · · 0</u> 10 times

(Confirmation tone will be heard.)

 Re-start at Step 1 when mis-dialing occurs. (All other registrations remain valid.) 3. Station No. should be 2 digits in length when 2 Digit Dialing function is employed.



GROUP BLOCKING 2

NOTES

1. To release all registered Calling Groups at one time, Touch • 8 1 0 0 • • • 0

(Confirmation tone will be heard.)

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

- 3. Do not register a Group to call itself. This cancels calling ability to other groups.
- 4. CPU DIP switch D-4 <u>must</u> be "ON" to employ this function.
- 5. Group No.8 is not needed in case 2 exchanges . are tielined.



GROUP BLOCKING 3

NOTES

1. To release all registered Paging Zones at one time,

•8200…0 Touch

10 times

- (All other registrations remain valid.)
- 3. CPU DIP switch D-4 must be "ON" to employ this function.
- 4. Group No.7 and 8 are not needed the programming in case the exchanges are tielined.

7. PROGRAMMING RECORD FOR FUNCTIONS

Use these tables to keep a record of those functions assigned to each station.

.

Function Table for Stations (1)

	Function Group		A						В		С			
	Entrop Code	Executive Priority	Continuous Calling Tone	Stations Allowed Access to All Call	Stations Allowed Access to Conference	Stations Allowed Access to One Shot Make Output	Stations Allowed Access to Make/Break Output	Stations Allowed Access to 1/8 Select (or Decimal) Output	Stations Allowed Access to 4 Decimal Digits Output	Secretary Call Forfarding Station No. Station No.	Master Station No.	Paging Zone No.	Group No. for Group Blocking	Group No. for Calling Party Indication
	Name single	50	51	52		56	67	68	50	60	61	70		72
	1200 (20) 170 74(50	51	52			57	56	09	00	01		/1	12
	201 (21) 471 74													
F	202 (22) 472 74	2	1											
ľ	203 (23) 473 74													
F	204 (24) 474 74	-												
	205 (25) 475 74	5												
	206 (26) 476 744	,												
	207 (27) 477 74	r												
V∤	208 (28) 478 749							ļ						
ŀ	209 (29) 479 74	<u> </u>												
-	210 (30) 480 75)	 											
ŀ	211 (31) 481 '75	Ļ ļ	<u> </u>											
-	212 (32) 482 15	<u>د</u>	+											
ŀ	213 (33) 463 73.	2	+								·			
⊢	215 (35) 485 755		+											
37	216 (36) 486 750	-												
	217 (37) 487 75	7												
F	218 (38) 488 759	:												
	219 (39) 489 759		1											
	220 (40) 490 76)												
Ļ	221 (41) 491 76	_												
	222 (42) 492 762	2	ļ											
	223 (43) 493 763													
∜ -	224 (44) 494 764	-												
-	225 (45) 495 765		+											
-	220 (40) 496 76	<u>'</u>								-			····	
F	228 (48) 400 71		<u> </u>	- <i></i>										
┢	229 (49) 108 76	_												
ŀ	230 (50) 500 70	1	+					· · ·						
-	231 (51) 501 77	,												
L.			1					{						

	Function Group			P	Δ				I	3	(C	
	Function No.	Executive Priority Continuous Calling Tone	Stations Allowed Access to All Call	Stations Allowed Access to Conference	Stations Allowed Access to One Shot Make Output	Stations Allowed Access to Make/Break Output	Stations Allowed Access to 1/8 Select (or Decimal) Output	Stations Allowed Access to 4 Decimal Digits Output	Secretary Call Forfarding Station No. Station No.	Master Station No.	Paging Zone No.	Group No. for Group Blocking	Group No. for Calling Party Indication
	Name Single B C	50 51	52	53	56	57	58	59	60	61	70	71	72
স্থ	232 (52) 502 772												
•	233 (53) 503 773												
	234 (54) 504 774												
]	235 (55) 505 775												
	236 (56) 506 776												
	237 (57) 501 777										<u> </u>		
ŀ	239 (59) 509 778												
567	240 (60) 510 780								····				
	241 (61) 511 781												
Į	242 (62) 512 782												
	243 (63) 513 783												
	244 (64) 514 784												
Ļ	245 (65) 515 785												
ļ	246 (66) 516 786												
577	247 (67) 517 787												
₩ŀ	248 (68) 518 788												
Ļ	249 (09) 519 181 250 (70) EDO 779 0												
-	251 (71) 571 79												
	252 (72) 522 792				-								
	253 (73) 523 793												
	254 (74) 524 7 94						•						
	255 (75) 525 795												
8/	256 (76) 526 796												
ŀ	257 (77) 527 797												
+	258 (78) 528 798		_										
\vdash	260 (80) 529 799												
	261 (81) 530 800												
-	262 (82) 531 807												
	263 (83) 573 803						ſ						
<u>. </u>		L	······						1				



Name Stations Allowed Access to 1/8 Stations Allowed Access to 1/8 Station No.	oup Blocking	ion
Name single A B c 50 51 52 53 56 57 58 59 60 $\boxed{30}$ 296 566 836 - <th>Master Station No. Paging Zone No. Group No. for Gr</br></th> <th>Group No. for calling Party Indicat</th>	Master Station No. Paging Zone No. 	Group No. for calling Party Indicat
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	61 70 71	72
297 567 837 298 568 838 299 569 839 300 570 840 301 571 841		
298 568 838		
299 569 839 300 570 840 301 571 841		
300 570 840 301 571 841		
301 571 841 202 592 M2		
202 502 942		
303, 573 843		
304 574 844		
305 575 845		
306 576 846		
307 577 847		
308 578 848		
309 579 849		
310 580 850		
311 581 851		
320 592 940		
$\sqrt{\frac{320}{321} \pm 0} \frac{510}{600}$		
322 + 61 + 601		i
323 5 12 002		
324 594 864		
325 595 865		
326 596 866		1
327 597 8(7		

	Station Paging	g Zone	1 of Station No.	Last Station No.	17.	7
	Department	No.	ist Station No.	Last Station no.		
		01				
	· · · · · · · · · · · · · · · · · · ·	02				
		03				4
		04				4
2		05				• .
e		06				52A
ပိ		07				1 1
tion		08				PII
nuc		09				$ \times $
Ē		10				N
		11				
		12				
		13				
		14				
		15				

Paging Response Table
< When a single exchange is used >

< When the exchanges are connected by tielines >

Γ	Statior	n Pagin	g Zone		1 of Station No.	Last Station No		
	Department	type of exchange		hange	ist Station No.	Last Otation No.		
0	Department	Α	В	С				
le l		01	08	15				
Š		02	09	16				
loi		03	10	17				
uct.		_ 04	11	18				
Ē		05	12	19				
		06	13	20				
		07	14	21				

Station numbers for Calling Party Indication (Lamp Type)

\square	Calling Party Indica	ation	1ct Station No	Last Station No.
	Name	Group No	TSI Station No.	Last Station no.
		1		
12		2		
ode		3		
U U		4		
lotio		5		
Fur		6		
		7		
		8		

Tables for Group Blocking



★ 1 Only when the exchange without tieline.

★ 2 Not used when 2exchanges are tielined.

* Activated without No.200 programming.

PART 2. FUNCTION SELECTION FOR DATA TRANSMITTING AND RECEIVING UNITS

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

NOTE

- 1. Connect the DT-E11 and DR-B61 to Exchange correctly. (Refer to installation manuals of DT-E11 and DR-B61.)
- Set the function select switches (DIP SWITCH) on CPU-55 correctly and be sure to enter initial programming and function registration at programming station No. 200.
- Remove the front panel of Data Transmitting Unit (DT-E11) and take out the printed circuit board. Then

EX-510/520

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 Channels, Page 39).

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 41 for details.

(Refer to Explanation of Data Receiving Unit Output Channels.)



9. DIP SWITCH TABLE FOR DATA TRANSMITTING AND RECEIVING UNIT



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10. System Diagram of Data Transmitting and Receiving Units

(When the Exchanges are not connected by means of Tie-line.)





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11. EXPLANATION OF DATA TRANSMITTING UNIT OUTPUT CHANNELS

CHANNEL SELECT	FUNCTIONS	DESCRIPTION	APPLICATION
CH.0	IN/OUT Annunciation	Personel in and put registration can be accomplished at any Master sta- tion by using personal numbers Max. 500 IN/OUT annunciations may be done.	 IN/OUT Annunciation
	(I)One-shot Make Output	50 One-shot make contacts can be available at any Master station.	ITV camera selectVTR control
	(2)Make/Break Output	Make/Break Output 100 Make/Break contacts can be available at any Master station.	
OU A DT-E11	(3) 8 Selectable Make Output . (9 unit blocks)	One contact out of 8 selectable make output is obtained.	Destination indication
CH. 1 CH. 1	(4) Decimal Output (9 unit blocks)	10 Selectable Decimal Outputs are available with 7 segments LEDs.	• Room condition indication.
	(5) 4 Decimal digits output (9 unit blocks)	Indicate by 7 segments LEDs.	 Prescription annunciation
	ら, Pager Control Output	Make output (64 contacts) are available for pager control.	Pager
CH. 2 DT-E11	Calling Party Indication (One Station; One Lamp)	Max. 128 Calling station numbers can be indicated when designated called station with Display Board is called.	
CH. 3 DT-E11	Calling Party Indication (One Station; One Lamp)	Same as above except called station number	 The number of called stations are No.XXX~No.XXX

12. EXPLANATION OF DATA RECEIVING UNIT OUTPUT CHANNELS

12-1 Channel 0 (CH. 0) In/Out Annunciation

Exchange

(Dial Operation)

Personal Number Registration • 6 1 X X X (Relay Make) XXX: 000 ~ 499 (500 contacts) Personal Number Cancellation • • 1 X X X (Relay Break)

EXES SUR	Data Passivar	Relay Output No
Data Transmitter	08 86 1 art and and and and and and and	$\frac{8}{1000}$
	NO.1	3 007 006 005 004 003 002 001 000 ₩D. 1 4 023 022 021 020 019 018 017 016 WD. 1 [*] 1 **** SW2
CHANNEL SELECT Switch	32 31 30 29 28 27 26 25 16 15 14 13 12 11 10 9 DR R61 at a a a a a a a a a a a a a a a a	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
ł	NO. 2 063 062 061 060 059 058 057 056	5 055 054 053 052 051 050 049 043 WD. 3
	32 3) 30 29 28 27 26 25 16 15 14 13 12 11 10 9 NR 86 1 are	24 23 22 21 20 19 18 17 8 7 6 5 4 3 2 1 0 21 00 000 000 000 000 000 000 000 000
f	NO. 3 095 094 093 092 091 090 089 088	2 0/1 0/0 069 068 06/ 066 065 064 WD. 5
	32 31 30 29 28 27 26 25 16 15 14 13 12 11 10 9 NR. 86 1 133 13 14 13 12 11 10 9	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	NO.4 127 126 125 124 123 122 121 120	1 103 102 101 100 039 038 037 036 WD. 0 100 039 038 037 036
	32 31 30 29 28 27 26 25 16 15 14 13 12 11 10 9 DR.B61 140 140 140 140 140 140 140	24 23 22 21 20 19 16 17
	NO. 5	2 151 150 149 148 147 146 145 144 WD. 9
	16 15 14 13 12 11 10 9 08-861 175 174 179 179 171 170 150 150	8 7 6 5 4 3 2 1 127 162 162 162 162 161 161 161 WD 10
	NO, 6	4 183 182 181 180 179 178 177 176 WD. 1 1
	08-861	8 7 6 5 4 3 2 1 100 100 102 102 102 102 102 102 103 WD 12
	NO. 7 215 214 213 212 211 210 209 200	8 207 206 205 204 203 202 201 200 WD. 13
	DR-B61 221 230 226 227 226 225 22	8 7 6 5 4 3 2 1 8 7 6 5 4 3 2 1 1 2021 2021 201 200 210 218 217 216 WD. 14
	NO. 8 247 246 245 244 243 242 241 24	0 239 238 237 236 235 234 233 232 WD. 15
	DR-B61 262 261 260 250 257 250	8 7 6 5 4 3 2 1 6 251 254 253 252 251 251 250 248 WD. 16
	NO. 9 279 278 277 276 275 274 273 27	2 271 270 269 268 267 266 265 264 WD. 17
	DR-B61 295 294 293 292 291 290 289 28	8 7 6 5 4 3 2 1 8 287 286 285 284 283 282 281 280 WD. 18 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	NO. 10 311 310 309 308 307 306 305 30 32 31 30 29 28 27 26 25	4 303 302 301 300 299 298 297 296 WD. 19
	DR-B61 <u>16 15 14 13 12 11 10 9</u> J <u>J</u>	8 7 6 5 4 3 2 1 0 319 318 317 316 315 314 313 312 WD. 20 5 314 314 313 312 WD. 20 5 314 314 313 312 WD. 20 5 314 314 314 314 314 314 314 314 314 314
	NO. 11 343 342 341 340 339 338 337 33 32 31 30 29 28 27 26 25	6 335 334 333 332 331 330 329 328 WD. 21
	DR-B61 359 358 357 356 355 354 353 35	8 7 6 5 4 3 2 1 2 351 350 349 348 347 346 345 344 WD. 22 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	NO. 12 375 374 373 372 371 370 369 36 32 31 30 29 28 27 26 25	8 367 366 365 364 363 362 361 360 WD 23
	DR-B61 391 390 389 388 387 386 385 38	8 7 6 5 4 3 2 1 4 383 382 381 380 379 378 377 376 WD. 24
	NO. 13 407 406 405 404 403 402 401 400 32 31 30 29 28 27 26 25	0 399 398 397 396 395 394 393 392 WD. 25
	DR-B61 423 322 421 420 419 418 417 41	8 7 6 5 4 3 2 1 6 415 414 413 412 411 410 409 408 WD. 26
	NO. 14 439 438 437 436 435 434 433 433 32 31 30 29 28 27 26 25	2 431 430 429 428 427 426 425 424 WD. 27
/ Output shows	DR-B61 455 454 453 452 451 450 449 44	8 7 6 5 4 3 2 1 8 447 446 445 444 443 442 441 440 WD. 28
(xxx) of Personal	NO. 15 471 470 469 468 467 466 465 46 32 31 30 29 28 27 26 25	4 463 462 461 460 459 458 457 456 WD. 29
	DR-B61 487 486 485 484 483 482 481 48	8 7 6 5 4 3 2 1 0 479 478 477 476 475 474 473 472 WD 30 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	NO. 16 499 498 497 49	6 495 494 493 492 491 490 489 488 WD. 31

Each Relay last 3 digits Number

Note: $\fbox{}$ () shows the Head of a Slide Switch

1 WORD SELECT Switch



WORD SELECT Switch

SW

Pager (

WD. 30

WD. 31 🗄 🗰 🗰

(9 unit blocks)

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

DR-B61 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32

NO 16 63 62 61 61 54 55 57 56 55 54 53 52 51 50 49 48

26

Exchange

Data

EXES-5000

Each "Calling Station" or "Waiting Station" is shown by Each Indication Lamp. Total Number of Stations with Indications : 4 Stations/Channel (8 Stations/2 Channels) Total Number of Calling Stations : Max. 128 Stations/Each Indication

	Data Receiver	Relay Output No.	Station No. with Indication
ta Transmitter	DR-B61	9 8 7 6 5 4 3 2 1- 208 207 206 205 204 203 202 201 200 WD. D	Swi
	NO. 1 [231 230 229 228 227 226 225 32 31 30 29 28 27 26	224 223 222 221 220 219 218 217 216 WD. 1	SW2
CHANNEL SELECT Switch	DR-B61 16 15 14 13 12 11 10 DR-B61 247 246 245 244 243 242 241	9 8 7 6 5 4 3 2 1 240 239 238 237 236 235 234 233 232 WD. 2 5 1 1 1 1 1 1 1 1 1 1	SW1 Group 1
	NO. 2 [263] 262 [261] [260] [253 [253 [257]] 32 31 30 29 28 27 26	25 24 23 22 21 20 19 18 17	SW2 No
	DR-B61 279 278 277 276 275 274 273	272 271 270 269 268 267 266 265 264 WD. 4	SW1 5
	ND. 3 [295] 294] 293] 292 [291] 290] 289 32 31 30 29 28 27 28	288 287 286 285 284 283 282 281 280 WD. 5	. SW2
Ļ	DR-B61 311 310 309 308 307 306 305	304 303 302 301 300 299 298 297 296 WD. 6	
	$\begin{bmatrix} NO, 4 \\ 32 & 31 & 30 & 29 & 28 & 27 & 26 \\ \hline 16 & 16 & 16 & 17 & 11 & 10 \\ \hline 16 & 16 & 16 & 14 & 12 & 11 & 10 \\ \hline \end{bmatrix}$	$\frac{(320)(319)(318)(317)(316)(315)(314)(313)(312)}{25(24)(23)(22)(21)(20)(19)(18)(17)} WD. 7$	
Ļ	DR-B61 215 214 213 212 211 210 209	208 207 206 205 204 203 202 201 200 WD. 8	SW1
	NU. 5 [231] [230] [225] [226] [221] [226] [225] 32 31 30 29 28 27 26 35 35 15 14 13 12 11 15	<u>224</u> 223 222 21 20 19 18 17	- SWZ
+	DR-B61 247 246 245 244 243 242 241	240 239 238 237 236 235 234 233 232 WD. 10	SWI
	NU.6 [203] 202 [201] 200] 239 [206] 231 32 31 30 29 28 27 28	$\begin{array}{c} 250 \\ \underline{25} \\ \underline{24} \\ \underline{23} \\ \underline{22} \\ \underline{21} \\ \underline{22} \\ \underline{21} \\ \underline$. SW2 Group 2
Ļ	DR-B61 279 278 277 276 275 274 273	272 271 270 269 268 267 266 265 264 WD. 12	SW1 5
	NU. 7 [255] 254 [253] 252 [251] 250 [269 32 31 30 29 28 27 26	266 261 266 263 264 263 262 261 260 WD. 13	SW2
ł	DR-B61 311 310 309 308 307 306 305	304 303 302 301 300 299 298 297 296 WD. 14	
	NO. 8 $\frac{ 321 320 323 324 323 322 321 }{ 32 331 30 22 28 27 26 }$	$\frac{320 319 318 317 316 315 315 315 315 312 WD.15}{25 24 23 22 21 20 19 18 17}$	SW2
+	DR-B61 215 214 213 212 211 210 209	208 207 206 205 204 203 202 201 200 WD. 16	
	NO.9 [231] 230 [229] 228 [221] 220 [225] 32 31 30 29 28 27 26	$\frac{(224)(223)(222)(221)(220)(219)(218)(211)(216)}{25(24)(23)(22)(211)(20)(19)(18)(217)(216)(216)(216)(216)(216)(216)(216)(216$	B SW2
Ļ	DR-861 247 246 245 244 243 242 241	240 239 238 237 236 235 234 233 232 WD. 18	Sw1
	$\begin{bmatrix} NO, 10 \\ 32 \\ 31 \\ 30 \\ 29 \\ 28 \\ 27 \\ 26 $	$\frac{(25)}{25} \frac{(23)}{24} \frac{(23)}{22} \frac{(23)}{21} \frac{(25)}{20} \frac{(24)}{19} \frac{(24)}{18} \frac{(24)}{17} \frac{(25)}{19} \frac{(24)}{19} (2$	SW2 4r00p3
Ļ	DR-B61 279 278 277 276 275 274 273	272 271 270 269 268 267 266 265 264 WD. 20	SW1 5 No
	NU. 1 1 (235) (234) (235) (232) (231) (230) (269) 32 (31) 30 (29) 28 (27) 26 16 (15) (16) (17) (17) (17) (17) (17) (17) (17) (17	$\frac{ 260 261 260 263 264 263 262 261 260 WJJ, 2}{25 24 23 22 21 20 19 18 17}$	
	DR-B61 311 310 309 308 307 306 305	304 303 302 301 300 299 298 297 296 WD. 22	Ê SW1
	NO. 12 <u>321 320 325 324 323 322 321 30 29 28 27 26</u>	$\frac{ 320 319 318 317 316 315 315 314 313 312 WD, 23}{25 24 23 22 21 20 19 18 17}$	9 SW2
	DR-B61 215 214 213 212 211 210 209	208 207 206 205 204 203 202 201 200 WD. 24	
	NO. 13 $\begin{bmatrix} 231 & 232 & 223 & 224 & 226 & 225 \\ \hline 32 & 31 & 30 & 29 & 28 & 27 & 26 \\ \hline 13 & 31 & 30 & 29 & 28 & 27 & 26 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 31 & 31 & 31 & 31 \\ \hline 13 & 3$	224 223 22 21 20 19 18 211 216 WD. 25	elsw2
utput shows on No."	DR-B61 247 246 245 244 243 242 241	240 239 238 237 236 235 234 233 232 WD. 26	É SW1
	NO. 14 (203 (201 (200 (203 (203 (201) 32 31 30 29 28 27 26	25 24 23 22 21 20 19 18 17 WD, 27	Group 4
Ļ	DR-B61 279 278 277 276 275 274 273	272 271 270 269 268 267 266 265 264 WD. 28	SW1 S
	NO. 15 295 294 293 292 291 290 289 32 31 30 29 28 27 26	$\frac{ 233 231 235 234 233 232 231 230 }{252 24 233 232 231 230 } WD.29 = \frac{1}{2}$	
	DR-B61 311 310 309 308 307 306 305	304 303 302 301 300 299 298 297 296 WD. 30	E SW1
	NO. 16 (327) 326 (325) 324 (323) 322 (321) 32 31 30 29 28 27 26	320 319 318 317 316 315 314 313 312 ₩D, 31	Ě SW2

Each Relay Output shows "Calling Station No."

Note: $\label{eq:loss} \bullet$ ($\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{$

WORD SELECT Switch

Channel 3 (CH. 3) Calling Party Indication 12-4 Lamp Type (2)

Exchange

EXES-5000

Each "Calling Station" or "Waiting Station" is shown by

Each Indication: Lamp.

Total Number of Station with Indications : 4 Stations/Channel (8 Stations/2 Channels) Total Number of Calling Stations : Max. 128 Stations/Each Indication

	Data Receiver	Relay Output No.	Station No. with Indication
	DR-B61 16 15 14 13 12 11 10 215 214 213 212 211 210 209	9 8 7 6 5 4 3 2 1- 208 207 206 205 204 203 202 201 200 WO.0	SM)
	NO. 1 231 230 229 228 227 226 225 32 31 30 23 28 227 226 225	224 223 222 221 220 219 218 217 216 25 24 23 22 21 20 19 18 17 WD. 1	SW2
CHANNEL SELECT Switch	DR-B61 247 246 245 244 243 242 241	9 8 7 6 5 4 3 2 1 240 239 238 237 236 235 234 233 232 WD. 2	SW1
	NO. 2 263 262 261 260 259 258 257 32 31 30 29 28 27 26	256 255 254 253 252 251 250 249 248 WD. 3	SW2 Group 5
	DR-B61 16 15 14 13 12 11 10 DR-B61 279 278 277 276 275 274 273	9 8 7 6 5 4 3 2 1 272 271 270 269 268 267 266 265 264 WD. 4	SW1
	NO. 3 295 294 293 292 291 290 289	288 287 286 285 284 283 282 281 280 25 24 23 22 21 20 19 18 17 WD. 5	SW2
	DR-B61 16 15 14 13 12 11 10 310 309 308 307 306 305	9 8 7 6 5 4 3 2 1 304 303 302 301 300 299 298 297 296 WD. 6	SW1
	NO. 4 327 326 325 324 323 322 321 32 31 30 29 28 27 26	320 319 318 317 316 315 314 313 312 25 24 23 22 21 20 19 18 17 WD. 7	jsw2
	DR-B61 215 214 213 212 211 210 209	9 8 7 6 5 4 3 2 1 208 207 206 205 204 203 202 201 200 WD.8	SW1
	NO. 5 231 230 229 228 227 226 225 32 31 30 29 28 27 226 225	224 223 222 221 220 219 218 217 216 WD. 9	 sw2
	DR-B61 16 15 14 13 12 11 10 247 246 245 244 243 242 241	9 8 7 6 5 4 3 2 1 240 239 238 237 236 235 234 233 232 WD. 10 5 1 -	SW1
	ND. 6 263 262 261 260 259 258 257 32 31 30 29 28 27 26	256 255 254 253 252 251 250 249 248 WD. 11	SW2 Group 6
	DR-B61 16 15 14 13 12 11 10 279 278 277 276 275 274 273	9 8 7 6 5 4 3 2 1 272 271 270 269 268 267 266 265 264 WD. 12	SW1 5
	NO. 7 295 294 293 292 291 290 289 32 31 30 29 28 27 26	288 287 286 285 284 283 282 281 280 WD. 13	SW2
	DR-B61 311 310 309 308 307 306 305	9 8 7 6 5 4 3 2 1 304 303 302 301 300 299 298 297 296 WD. 14	SW1
	NO. 8 327 326 325 324 323 322 321 32 31 30 29 28 27 26	320 319 318 317 316 315 314 313 312 WD. 15	SW2
	DR-B61 215 214 213 212 211 210 209	9 8 7 6 5 4 3 2 1 208 207 206 205 204 203 202 201 200 WD. 16]sw1
	NO. 9 231 230 229 228 227 226 225 32 31 30 29 28 27 26 225	224 223 222 221 220 219 218 217 216 WD. 17	ISW2
	DR-B61 247 246 245 244 243 242 241	9 8 7 6 5 4 3 2 1 240 239 238 237 236 235 234 233 232 WD. 18	JSW1
	NO. 10 263 262 261 260 259 258 257 32 31 30 29 28 27 26	$\frac{\left 256\right 255}{25}\frac{254}{23}\frac{253}{22}\frac{252}{21}\frac{250}{20}\frac{249}{19}\frac{248}{17}WD.19\left[\underbrace{\underbrace{5}_{1},\underbrace{2}_{3},\underbrace{5}_{1},\underbrace{5},$	SW2 Group 7
	DR-B61 279 278 277 276 275 274 273	9 8 7 6 5 4 3 2 1 272 271 270 269 268 267 266 265 264 WD. 20	SW1 5
	NO. 11 [295 294 293 292 291 290 289 32 31 30 29 28 27 26	288 287 286 285 284 283 282 281 280 WD. 21 5 7 1 1 2 2 2 2 2 2 2 2 2 1 2 2 1 9 18 17	SW2
	DR-B61 16 15 14 13 12 11 10 311 310 309 308 307 306 305	9 8 7 6 5 4 3 2 1 304 303 302 301 300 299 298 297 296 WD. 22	SW1
	NO. 12 327 326 325 324 323 322 321 32 31 30 29 28 27 26	320 319 318 317 316 315 314 313 312 WD. 23 x = 1/2 + 1/2 25 24 23 22 21 20 19 18 17	SW2
	DR-B61 215 214 213 212 211 210 209	9 8 7 6 5 4 3 2 1 208 207 206 205 204 203 202 201 200 WD. 24	SW 1
	NO. 13 231 230 229 228 227 226 225 32 31 30 29 28 27 26	224 223 222 221 220 219 218 217 216 WD. 25	SW2
	DR-B61	9 8 7 6 5 4 3 2 1 240 239 238 237 236 235 234 233 232 WD. 26	SW1
Output shows	NO. 14 263 262 261 260 259 258 257 32 31 30 29 28 27 26	256 255 254 253 252 251 250 249 248 WD. 27 <u>25 24 23 22 21 20 19 18 17</u>	SW2 Group 8
,	DR-B61 279 278 277 276 275 274 273	9 8 7 6 5 4 3 2 1 272 271 270 269 268 267 266 265 264 WD. 28	SWA S
	NO. 15 [295 294 293 292 291 290 289 32 31 30 29 28 27 26	[288 287 286 285 284 283 282 281 280] WD. 29 <u> <u> </u> </u>	SW2
	DR-B61 311 310 309 308 307 306 305	9 8 7 6 5 4 3 2 1 304 303 302 301 300 299 298 297 296 WD. 30	SWI
	NO. 16 327 326 325 324 323 322 321 32 32 31 30 29 28 27 26	320 319 318 317 316 315 314 313 312 WD. 31 312 25 24 23 22 21 20 19 18 17 50 24 23 22 21 20 19 18 17	
	Note: •••(凸) shows the Head of	r a Slide Switch WORD SELECT	Switch

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