Functions and Operating Instructions
1. Introduction to the "Functions and Operating Instructions" for stations for EXES-6000 .......... 2
2. Tie-line connections of exchanges ......................... 3
3. Part names and functions of the station keyboard ........ 5
4. Functions: EXES-6000 CP-63 ............................ 6
5. Function description .................................. 8
6. Restrictions resulting from tie-line connection ........... 10
7. EXES-6000 CP-63 Summary of dial operations .......... 11
8. Stations ............................................. 13
9. Speech functions .................................... 14
10. Station operation
    1) Handset master station (TL-600M) ................... 15
    2) Handset substation (TL-600S) ........................ 15
    3) Hands-free master station (HF-620M/630M/631M/650M) ........ 16
    4) Hands-free substation (HF-620S/630S/631S/640S) ......... 18
    5) Hands-free/handset master station (HF-600M/610M/660M) ....... 20
    6) Hands-free/handset substation (HF-600S/610S) ........... 22
    7) Hands-free/handset master station with auto-dialer (HF-660M) .... 24
11. Description of each function
    1) Automatic Line Release ............................ 25
    2) Camp-On-Busy .................................. 25
    3) Privacy ...................................... 25
    4) Camp-On-Privacy ................................ 26
    5) Press-To-Talk .................................. 26
    6) Talk Back ..................................... 27
    7) Single Digit Dialing .............................. 28
    8) Master/Sub Relationship .......................... 29
    9) Automatic Access To Paging ....................... 29
   10) Personal Number Call ............................. 30
   11) Continuous Calling Tone ........................... 31
   12) Remote Response ................................ 32
   13) Call Transfer, Paging during Normal Calls ............. 33
   14) Group Hunting ................................... 34
   15) Secretary Transfer ............................... 35
   16) Executive Priority (Highest Priority) .................. 38
   17) Conference ..................................... 39
   18) Paging ........................................ 40
   19) How to Select the Paging Area and Make the Paging Call .... 41
   20) All-Call Paging and Individual Zone Paging ............ 42
   21) Selectable First Station Number of Each Exchange ........ 43
   22) Programmable Station Numbering .................... 44
   23) Group Blocking .................................. 45
   24) Programmable Restricted Access for Stations .......... 47
   25) Selectable Calling Tone ........................... 48
   26) Selectable Paging Pre-Announcement Tone Duration .......... 48
   27) Time-Out of Conversation ........................... 48
   28) Time-Out of Paging Call ........................... 48
   29) In/Out Annunciation .............................. 49
   30) Calling Party Indication [Lamp Type] .................. 50
   31) Pocket Pager .................................... 52
   32) General Purpose Control ........................... 53
   33) Simplified Paging ................................ 55
   34) Clear Entry and Conversation Over .................... 55
Introduction to the "Functions and Operating Instructions" for stations for EXES-6000

This handbook explains the functions and operating procedures of stations for TOA's EXES-6000 Intercom System using central processing unit CP-63 (for tie-line system) and exchanges EX-610/620.

Designed for connection of up to 3 exchanges, the EXES-6000 system permits you to talk with the person in the remote area, and also to increase the number of stations which one (1) exchange cannot cover.

This handbook deals with
1. Explanation of the tie-line system and restrictions of each function (See items 2, 4 through 6 and 11)
2. Basic use of each station (See items 3 and 8 through 10).
3. Functions and dial operations (See items 4 through 7 and 11)

Please note that performances of some functions are restricted in the tie-line system.

You need not read all the instructions given in this handbook but it is necessary to read the instructions on those functions employed in your system. The following guidelines will help you select the pages that you should read.

Selecting different functions made available by placing the Privacy Switch in the "ON" position
The EXES-6000 System is designed to allow either "PV" type operation (The system having Privacy function) or "NP" type (Without Privacy function) to be selected by turning on or off a switch inside the exchange. It is impossible to make one station the "NP" type and another the "PV" type in the same system.

The function provided when the Privacy switch is in the ON position is different between the "PV" and the "NP" type. Therefore, read the page marked [PV Type] if your system is of the "PV" type and the Page [NP Type] if it is of the "NP" type.

<table>
<thead>
<tr>
<th>Type</th>
<th>Definition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV Type</td>
<td>System having Privacy function</td>
<td>1. Privacy tone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>With the Privacy switch in the ON position, a brief Privacy tone sounds and any incoming call is refused.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. The Handset Master/Sub-station may not be used in this system. If used, it is not called by a continuous calling tone but by a brief Privacy tone.</td>
</tr>
<tr>
<td>NP Type</td>
<td>System having no Privacy function</td>
<td>1. Continuous calling tone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A station with the Privacy switch may be called by the continuous calling tone when its Privacy switch is placed in the ON position. One touch dialing any key (1 through 0, #, *, #) other than the PTT key or picking up the handset stops the calling tone and the stations is made ready to initiate the response to the call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. The Handset Master station without Privacy switch may be called by the continuous calling tone. Picking up the handset stops the calling tone and allows the conversation.</td>
</tr>
</tbody>
</table>

Note.
By programming, the continuous calling tone function may be made available to specific stations with the Privacy switch in the OFF position.
In this event, touch dialing any key (1 through 0, #, *, #) other than the PTT key stops the calling tone and permits conversation.
This feature may be employed for the industrial type of station (Model HF-650M) or in the "PV" type system that needs to be continuously called.
1. Purpose of tie-line connection

When the EXES-6000 system uses the Central Processing Unit Model CP-63, not only the use of a single exchange (up to 120 stations) but also the tie-line connections of 2 exchanges (up to 240 stations and without paging functions) or 3 exchanges (up to 360 stations and without paging functions) are possible.

This tie-line function may be used when

1) You wish to connect 2 or 3 exchanges in the remote areas (maximum distance connected between exchanges using the cable of 0.65mm diameter is approximately 2 km.)

2) One exchange is not sufficient enough to cover the desired number of stations and a separate exchange is required for increase in the number of stations.

<table>
<thead>
<tr>
<th>Composition of exchange(s)</th>
<th>Maximum number of links within own exchange</th>
<th>Maximum number of links between tie-lined exchanges</th>
<th>Number of exchange</th>
<th>Maximum number of paging zones</th>
<th>Maximum number of stations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EX-610</td>
<td>EX-620</td>
<td></td>
<td></td>
<td>Without Paging</td>
</tr>
<tr>
<td>(1) Without tie-lines</td>
<td>12</td>
<td>16</td>
<td>1</td>
<td>All call + 7 zones</td>
<td>56</td>
</tr>
<tr>
<td>(2) 2 exchanges</td>
<td>12</td>
<td>16</td>
<td>8</td>
<td>All call + 7 zones</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>(3) 3 exchanges</td>
<td>12</td>
<td>16</td>
<td>4 between each tie-lined link</td>
<td>All call + 7 zones</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

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

*2 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

(1) With Personal number (Standard)

<table>
<thead>
<tr>
<th>Type of exchange</th>
<th>Model</th>
<th>Numbering for stations</th>
<th>Numbering for paging zones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Without Paging</td>
<td>With Paging (7 zones per exchange)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Exchange (EX-1)</td>
<td>EX-610</td>
<td>200<del>247, 256</del>263</td>
<td>200~247</td>
</tr>
<tr>
<td>Exchange &quot;A&quot; (EX-2A/3A)</td>
<td>EX-620</td>
<td>200<del>311, 320</del>327</td>
<td>200~311</td>
</tr>
<tr>
<td>Exchange &quot;B&quot; (EX-2B/3B)</td>
<td>EX-610</td>
<td>470<del>517, 526</del>533</td>
<td>470~517</td>
</tr>
<tr>
<td></td>
<td>EX-620</td>
<td>470<del>581, 590</del>597</td>
<td>470~581</td>
</tr>
<tr>
<td>Exchange &quot;C&quot; (EX-3C)</td>
<td>EX-610</td>
<td>740<del>787, 796</del>803</td>
<td>740~787</td>
</tr>
<tr>
<td></td>
<td>EX-620</td>
<td>740<del>851, 860</del>867</td>
<td>740~851</td>
</tr>
</tbody>
</table>

(2) Without Personal number

<table>
<thead>
<tr>
<th>Type of exchange</th>
<th>Model</th>
<th>Numbering for stations</th>
<th>Numbering for paging zones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Without Paging</td>
<td>With Paging (7 zones per exchange)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Exchange (EX-1)</td>
<td>EX-610</td>
<td>100<del>147, 156</del>163</td>
<td>100~147</td>
</tr>
<tr>
<td>Exchange &quot;A&quot; (EX-2A/3A)</td>
<td>EX-620</td>
<td>100<del>211, 220</del>227</td>
<td>100~211</td>
</tr>
<tr>
<td>Exchange &quot;B&quot; (EX-2B/3B)</td>
<td>EX-610</td>
<td>400<del>447, 456</del>463</td>
<td>400~447</td>
</tr>
<tr>
<td></td>
<td>EX-620</td>
<td>400<del>511, 520</del>527</td>
<td>400~511</td>
</tr>
<tr>
<td>Exchange &quot;C&quot; (EX-3C)</td>
<td>EX-610</td>
<td>700<del>747, 756</del>763</td>
<td>700~747</td>
</tr>
<tr>
<td></td>
<td>EX-620</td>
<td>700<del>811, 820</del>827</td>
<td>700~811</td>
</tr>
</tbody>
</table>

Note: Zone No.16 through 22 and No.31 through 37 are employed for Paging Numbering Schedule of 45 zones with 3 exchanges established in the system using the exchanges EX-610 and/or EX-620 and EX-630 (256 stations) connected by tie-line.
Part names and functions of the station keyboard

Volume switch
Adjusts the volume of the station speaker.

In-use Lamp
Lights up when the station is on line with another station.

Privacy switch

General purpose control

Registration

Paging call

Zone Paging Response

Executive priority
(Highest priority)

End of conversation

Press-to-talk
Remote response

Pocket Pager response

Conference

Pocket Pager call

Personal number cancellation
Call Back
Conference call clearance

Clear entry during call

Single digit dialing

All-call paging response
<table>
<thead>
<tr>
<th>No.</th>
<th>Classification</th>
<th>Function</th>
<th>Standard Function</th>
<th>Selectable Function</th>
<th>Optional Function</th>
<th>Own Exchange</th>
<th>Outside Exchange</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Single Digit</td>
<td>Automatic Line Release</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>2</td>
<td>Single Digit</td>
<td>Camp-On-Busy</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>3</td>
<td>Single Digit</td>
<td>Single Digit Dialing</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>4</td>
<td>Single Digit</td>
<td>Automatic Access to Paging</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>5</td>
<td>Single Digit</td>
<td>Master/Sub Relationship</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>6</td>
<td>Continuous Calling Tone</td>
<td>Privacy • Camp-On-Privacy/Continuous Calling Tone at Privacy Mode</td>
<td>*1</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>7</td>
<td>Continuous Calling Tone</td>
<td>Continuous Calling Tone • One-touch Response</td>
<td>*2</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>8</td>
<td>PTT</td>
<td>Press-To-Talk</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>9</td>
<td>PTT</td>
<td>Talk-Back</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>10</td>
<td>Personal Number Call</td>
<td>Personal Number Call</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>11</td>
<td>Remote Response</td>
<td>Remote Response</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>12</td>
<td>Call Transfer</td>
<td>Call Transfer • Paging during Normal calls</td>
<td>O</td>
<td>(O)*3</td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>13</td>
<td>Group Hunting</td>
<td>Group Hunting</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>14</td>
<td>Secretary Transfer</td>
<td>Secretary Transfer</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>15</td>
<td>Executive Priority (Highest Priority)</td>
<td>Executive Priority (Highest Priority)</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>16</td>
<td>Conference</td>
<td>Conference</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>17</td>
<td>Station Paging</td>
<td>Station Paging (All-Call + 7 zones/Exchange)</td>
<td>*4</td>
<td></td>
<td>(O)*5</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>18</td>
<td>PA Paging</td>
<td>PA Paging (All-Call + 7 zones/Exchange)</td>
<td>*4</td>
<td></td>
<td>(O)*5</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>19</td>
<td>Selectable Numbering Schedules of Tie-line System No. 100-400-700/No. 200-470-740</td>
<td>Selectable Numbering Schedules of Tie-line System No. 100-400-700/No. 200-470-740</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>20</td>
<td>Selectable First Station Number of Each Exchange No. 100/200/300/400/500/600/700/800/900</td>
<td>Selectable First Station Number of Each Exchange No. 100/200/300/400/500/600/700/800/900</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>21</td>
<td>Selectable Dial Operation for Paging Response</td>
<td>Selectable Dial Operation for Paging Response</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>22</td>
<td>Programmable Station Numbering</td>
<td>Programmable Station Numbering</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>23</td>
<td>Group Blocking (Restricted Dialing)</td>
<td>Group Blocking (Restricted Dialing)</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>24</td>
<td>Restricted Access to All-Call Paging</td>
<td>Restricted Access to All-Call Paging</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>25</td>
<td>Restricted Access to Conference</td>
<td>Restricted Access to Conference</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>26</td>
<td>One-shot make output</td>
<td>One-shot make output</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>27</td>
<td>Make/break output</td>
<td>Make/break output</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>28</td>
<td>8 selectable make output/Decimal output</td>
<td>8 selectable make output/Decimal output</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>29</td>
<td>4 decimal digits output</td>
<td>4 decimal digits output</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>30</td>
<td>IN/OUT Annunciation</td>
<td>IN/OUT Annunciation</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>31</td>
<td>Calling Party Indication(Lamptype)(with/without memory)</td>
<td>Calling Party Indication(Lamptype)(with/without memory)</td>
<td>0*9</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
<tr>
<td>32</td>
<td>Pager (Make output type)</td>
<td>Pager (Make output type)</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>33</td>
<td>General Purpose Control</td>
<td>General Purpose Control</td>
<td>O</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
</tr>
</tbody>
</table>
Notes.

1. XX/YY indicates to select either XX (Function) or YY (Function).

2. Not all circles (O) in The Switch Selection table correspond to the DIP switches of the CP unit.

*1: “PV” (system with Privacy function) Type: with the Privacy switch in the ON position, a brief Privacy Tone sounds.

“NP” (system without Privacy function) Type: A station may be called by the continuous calling tone when the Privacy switch is placed in the ON position.

*2: When a hands-free station without handset is called by the continuous calling tone, conversation may start by touching any key.

*3: Additional equipment is required for paging.

*4: Each zone of paging provides Station paging and/or PA paging. (Within 7 zones per exchange)

*5: It is necessary to respond only by touching (without zone No.)

*6: It is possible to make a paging and its response across the other exchange. However, a response to the zone paging is possible only from a station connected to the exchange having the paged zone.

*7: Station numbers of each exchange can be changed freely within the range of “Selectable numbering schedule of each exchange”.

*8: Calling tone: 0.3 sec (Trill note tone)/0.2 sec (Single note tone)/none.

Paging pre-announcement tone: 2 sec/1 sec/none.

*9: Selects whether or not the indication of the calling party station continuously lights up, after the calling party has cancelled the call to a line which is busy or in the privacy mode.

*10: A call can only be made from the stations No. 200 ~ 327 connected to the “A” type exchange. It is possible to respond from any station.
Besides fixed standard functions, there are selectable standard functions and optional functions. Selectable standard functions can be selected by changing over The CP Unit switches and by establishing station No. 200 programming. Optional functions can be made available by using external equipment or additional units.

1. Standard Functions
1-1. Available across the other exchange
1) Automatic Line Release
The calling Station is released from the speech path if dialing is not completed within 5 seconds. The calling station is also released from the speech path if no response is given within 10 seconds, when calling a station in the privacy mode.
2) Camp-on-Busy
When the called party is busy, the caller can camp-on the line. After the conversation is finished, he is automatically put through.
3) Press-to-Talk
One-way conversation is possible by pressing the Press-to-Talk bar when the ambient noise is high at one party's station.
4) Single Digit Dialing
Single digit calling of numbers up to 4 digits in length can be made by one-touch operation.

1-2. Available only within the same exchange
5) Remote response
The station called by continuous calling tone can be remotely answered by other stations.

12) Selection of Dial Operation
(1) Numbering Schedules of Tie-line System
The exchanges A, B and C permit the following standard station Numbering Schedules: (Hardwired station number)

<table>
<thead>
<tr>
<th>Type of Exchange</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Personal Number</td>
<td>200~</td>
<td>470~</td>
<td>740~</td>
</tr>
<tr>
<td>(Standard)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without Personal Number</td>
<td>100~</td>
<td>400~</td>
<td>700~</td>
</tr>
</tbody>
</table>

(2) Selectable First Station Number of Each Exchange
The first station number of each exchange can be selected from any of the following numbers (Hardwired station number): 100/200/300/400/500/600/700/800/900.
The system with Personal Numbers can't use No. 100.

(3) Paging Response
Paging response may be made either by pressing the "Zone No.", or [Simply pressing • 且 ].

13) Programmable Station Numbering
The system has programmable station numbers up to No. 999 other than the normal hardwired station numbers.

14) Group Blocking (Restricted Dialing)
Stations can be blocked into groups which cannot call or page each other unless further programming is done.

15) Restricted Access
Stations with access to All-call Paging, Conference and General Purpose Control can be limited.

16) Selectable Calling Tone
(Calling Tone/Paging Pre-Announcement Tone)
The time duration of the Calling Tone can be set for "long" (Trill note tone) or "short" (Single note tone) or none. Similarly, Paging Pre-Announcement Tone may be set for "long" (2 sec.) or "short" (1 sec.) or none.

17) Time-out of Conversation and Paging Call
A Calling Time Limitation can be set, in case paging and normal calls are to be kept short or where cancelling calls might be forgotten.

18) Automatic Access to Paging
Specific Substations may initiate a Paging Call or Paging Response or Personal Number Call, etc. by simply picking up a handset.

2. Selectable Functions
2-1. Available across the other exchange
6) Privacy
When calls are unwanted, turn Privacy switch on and a brief privacy tone sounds when the station is called.
7) Camp-on-Privacy
When called in the privacy mode from another station, calls can be connected immediately after releasing the Privacy switch.
8) Handset Response in Continuously Called Stations
Full duplex handset conversation is available by lifting the handset when the continuous calling tone is heard.
9) One-touch Response in Continuously Called Stations
Hands-free conversation is available by just touching any key except (PTT) when the continuous calling tone is heard.
10) Personal Number Call
Calls can be connected by using Personal Numbers, other than normal station numbers when Personal Numbers are registered into any designated station.
11) Executive Priority (Highest Priority)
The preprogrammed caller can interrupt forcibly the called party in busy mode. In this event, original conversation is cancelled.

2-2. Available only within the same exchange
19) Master/Sub Relationship
Substations can call Master stations by one-touch operation. In the event of Handset Substation, a call can be made from Substation to its designated master station by simply picking up a handset.

20) Call Transfer
The called party can transfer the call to other selected station. Call Hold and Call Back are also possible.

21) Paging during Normal Calls
Calls can be transferred to a third party after paging while speaking.
22) **Group Hunting**
When the first called party in a group is busy, the call is automatically transferred to the next stations.

23) **Secretary Transfer**
Calls to an "Executive" may be automatically transferred to a "Secretary".

3. **Optional Functions**

3-1. **Available across the other exchange**

24) **Station Paging and Response** *(PI-62 Unit is required)*
Paging is available through the built-in station speakers. Paging calls can be responded to by the nearest master station.

25) **PA Paging and Response** *(PI-62 Unit and PA System are required)*
Paging through PA System and response.

26) **Conference** *(CL-62 Unit is required)*
Conference calls can be made including up to 4 persons.

27) **Talk-Back** *(Talk-Back Unit and PA system are required)*
Press-to-talk conversation is done by employing external PA speakers.

28) **Simplified Paging**
Simplified PA paging is possible if an external speaker is connected instead of a station.

29) **In/Out Annunciation** *(Interface for the Indicator Board needs to be made by using Data Transmitter DT-E11 and Receiver DR-B61)*
In or Out status is annunciated by registration/cancellation of Personal Numbers.

3-2. **Available only within the same exchange**

30) **General Purpose Control** *(Make the Indicator Board and General Purpose Control Interface by using Data Transmitter DT-E11 and Receiver DR-B61)*
Various types of Relay Output modes for control are available. Use as Remote Control for such applications as In/Out Annunciation, Destination Annunciation Indication, VTR and ITV.

31) **Calling Party Indication** [Lamp Type]
*(Interface for the Indicator Board is made by using Data Transmitter DT-E11 and Receiver DR-B61)*
The lamp of the calling party comes on when a call is made. The calling party is kept in display while the called party is in the privacy or busy mode. It is also possible to continue the lamp indication for the later reference for the calling party.

32) **Pager Calling and Response** *(Make Interface for this purpose by using Data Transmitter DT-E11 and Receiver DR-B61)*
Pagers with relay input interface can be connected. A call can only be made from the stations No. 200~327 connected to the "A" type exchange. It is possible to respond from any station.
Restrictions Resulting from Tie-line Connection

1. Number of stations
   The total number of stations that can be connected to each exchange using the CP-63 is smaller than that of the system employing the CP-62 by 8.

2. Paging
   1) Paging is possible up to a maximum number of 7 zones per exchange.
   2) It is possible to make paging to all zones (14 zones for 2 exchanges and 21 zones for 3 exchanges) by means of All-call paging.
   3) All-call paging and zone paging are possible from any master station.
   4) It is possible to respond to All-call paging from any master station.
   5) A response to the zone paging is possible only from a station connected to the exchange that includes the paged zone (Exchange "A": Zone No. 1 ~ 7, "B": No. 8 ~ 14, "C": No. 15 ~ 21). It is not impossible to respond from the station connected to the other exchange.
      When the Automatic Response ( ) is employed, the response to the zone paging is made only from the station (consecutive station numbers) linked to the paged zone.
   6) It is impossible to allocate the same paging zone to 2 exchanges.

3. Programmable Station Numbering
   It is possible to change a station number series of each exchange freely within the range of "Selectable numbering schedule of each exchange".

4. Group Blocking
   1) The system can be grouped or divided into a maximum of 6 groups of stations by each exchange.
   2) The group can call and/or be called by any other group(s) within the same exchange area by programming.
   3) Only one pair of groups can call each other across the tie-lined exchange.
   4) The group of stations which can make All-call paging and zone paging (No. 1~21) can be set up.
   5) To make a paging response possible, the calling and the called groups must be set up. The paging response can be made from the called group to the calling group (the opposite direction of call restrictions).

5. When connected by tie-line, the following functions are available within the same exchange but unavailable across the other exchange:
   1) Remote Response
      Select the Remote response group within the stations connected to the same exchange.
   2) Master-Sub Relationship
      Set up Master/Substation associations within the same exchange area.
   3) Transfer
      An original call can be transferred only to the third party who shares the same exchange with the party who transfers the call.
   4) Paging during Normal Calls
      Paging during a normal call is only possible within the paging zones allocated to the exchange to which a station making the paging is connected.
   5) Group Hunting
      Select the station to which the call is to be transferred within the same exchange group.
   6) Secretary Transfer
      Set up a Secretary/Executive association within a group of stations connected to the same exchange.
   7) General Purpose Control (One-shot Make Output, Make/Break Output, 8 Selectable Make Output, Decimal Output, 4 Decimal Digits Output)
      Only the Data Transmitting and Receiving Units connected to the same exchange can be operated.
   8) Calling Party Indication (Lamp type)
      The lamp at the station which receives the call turns on only when the call is made from the station within the same exchange area (Max. of 120 stations). The lamp does not light if the call is made from the stations connected to the other exchange(s).
   9) Pager Call
      A call can only be made from the stations No. 200 ~ 327 connected to the "A" type exchange. It is possible to respond from any station.
**EXES-6000, CP-63 Summary of Dial Operations**

**Tie-line system of 2 or 3 exchanges**

**Station numbering:**
1. No. 200 ~ 327, No. 470 ~ 597, No. 740 ~ 867 (standard)
2. No. 100 ~ 227, No. 400 ~ 527, No. 700 ~ 827 (without personal number)
3. No. 200 (100) ~ 999 (programmable station numbering)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Function</th>
<th>Dial operation</th>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press-to-talk</td>
<td>PTT</td>
<td>Symplex</td>
<td>*6</td>
<td>Duplex</td>
</tr>
<tr>
<td>Remote response</td>
<td>PTT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote response registration</td>
<td>PTT</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
<td>Confirmation tone</td>
</tr>
<tr>
<td>Continuous calling tone response</td>
<td>PTT</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
<td>Confirmation tone</td>
</tr>
<tr>
<td>Privacy</td>
<td>PRIVACY</td>
<td></td>
<td>*</td>
<td></td>
</tr>
<tr>
<td>Secretary transfer</td>
<td>PRIVACY</td>
<td></td>
<td>*</td>
<td></td>
</tr>
<tr>
<td>Single digit registration</td>
<td>PTT</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
<td>(max 4 digits)</td>
</tr>
<tr>
<td>Single digit dialing</td>
<td>PTT</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
<td>(max 4 digits)</td>
</tr>
<tr>
<td>Personal number registration</td>
<td>PTT</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
<td>(max 4 digits)</td>
</tr>
<tr>
<td>Personal number cancellation</td>
<td>PTT</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
<td>(max 4 digits)</td>
</tr>
<tr>
<td>Personal number call</td>
<td>PTT</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
<td>(max 4 digits)</td>
</tr>
<tr>
<td>Conference</td>
<td><strong>S</strong></td>
<td>Calling</td>
<td><strong>X</strong></td>
<td>Calling</td>
</tr>
<tr>
<td>Conference clear</td>
<td><strong>S</strong></td>
<td></td>
<td><strong>X</strong></td>
<td></td>
</tr>
<tr>
<td>Executive priority (Highest priority)</td>
<td><strong>S</strong></td>
<td>Busy tone</td>
<td><strong>S</strong></td>
<td></td>
</tr>
<tr>
<td>Call transfer</td>
<td><strong>S</strong></td>
<td>Call conversation</td>
<td><strong>S</strong></td>
<td>Transfer</td>
</tr>
</tbody>
</table>

**Description:**
- Conversation is simplex when PTT bar is used.
- When a station is called by continuous calling tone, near station in the groups can respond the call instead of the called station.
- Group registration of stations can be made from each station.
- Called party touches one of these keys then conversation may begin.
- When a party does not wish to accept incoming calls, set the Privacy Switch in the ON position.
- This function allows for automatic transfer of calls to a secretary when desired.
- This function allows for single digit registration of up to 4 digits among the numbers 0 through 9 and the key.
- Registered dial code may be automatically dialed.
- Personal number may be registered at any master station which the person to whom the number is assigned expects to be.
- Personal number may be registered at any master station which the person to whom the number is assigned expects to be.
- A personal number dialing enables the station call for a person having the personal number.
- A conference call may be made up to 4 persons. Participants must be called individually.
- If a person called into a conference is absent, the conference may be returned to the original condition.
- When the called party is busy, this function allows interruption of the existing conversation and immediate direct contact with the called party.
- The called party can transfer the call to a selected other station (by station number, personal number or single digit number).
<table>
<thead>
<tr>
<th>Classification</th>
<th>Function</th>
<th>Dial operation</th>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging</td>
<td>&lt;Tie-line system of 2 exchanges&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All-call plus 14-zone paging</td>
<td>8XX</td>
<td>X : 00 (All-call), 01~14 (Zone)</td>
<td>Any station can be used to initiate PA or station paging. A person paged can respond from the nearest master station.</td>
</tr>
<tr>
<td></td>
<td>&lt;Tie-line system of 3 exchanges&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All-call plus 21-zone paging</td>
<td>8XX</td>
<td>X : 00 (All-call), 01~21 (Zone)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All-call response</td>
<td>✓</td>
<td></td>
<td>Response to all-call</td>
</tr>
<tr>
<td></td>
<td>Zone paging response</td>
<td>3 or 3XX</td>
<td>X : 01~21</td>
<td>Response to zone paging</td>
</tr>
<tr>
<td></td>
<td>Paging during normal call</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Conversation</td>
<td>✓BXX</td>
<td>X : 01 - 07 (Exchange A) 08 - 14 (Exchange B) 15 - 21 (Exchange C)</td>
<td>This function allows a called party to transfer the call to a third party who responds to paging.</td>
</tr>
<tr>
<td></td>
<td>Conversation after response</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Conversation with original station</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Make operation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One-shot make output</td>
<td>3XX</td>
<td>X : 00 ~ 49</td>
<td>One-shot make output of relay may control other equipments such as ITV camera, VTR control, dictating systems, etc.</td>
</tr>
<tr>
<td></td>
<td>Make/break output</td>
<td>35XX (Make)</td>
<td>X : 00 - 99</td>
<td>Make/break output of relay may control other equipments.</td>
</tr>
<tr>
<td></td>
<td>Make/break output</td>
<td>36XX (Break)</td>
<td>X : 00 - 99</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8-selectable make output</td>
<td>37XY</td>
<td>X : 1 ~ 9 Y : 1 ~ 8,0 (Clear)</td>
<td>8 selectable output is available (indicating room status and destination).</td>
</tr>
<tr>
<td></td>
<td>Decimal output</td>
<td>38XY</td>
<td>X : 1 ~ 9 Y : 0 ~ 9</td>
<td>A decimal output is available (indicating room status and destination).</td>
</tr>
<tr>
<td></td>
<td>4 decimal digits output</td>
<td>39YYYY</td>
<td>X : 1 ~ 9 YY Y Y Y : 0000 - 9999</td>
<td>4 decimal digits output is indicated.</td>
</tr>
<tr>
<td></td>
<td>Make output for Pager control</td>
<td>7XX</td>
<td>X : 00 ~ 63</td>
<td>Control the pocket paper by make output of relays.</td>
</tr>
<tr>
<td></td>
<td>Pocket Pager response</td>
<td>4XX</td>
<td>X : 00 ~ 63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Calling party selection</td>
<td>9XX</td>
<td>X : 00 - 63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clearing calling party indication</td>
<td>CC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANY STATION CAN BE USED TO INITIATE PA OR STATION Paging. A PERSON PAGE can respond from the nearest master station.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Model</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>TL-600M</td>
<td>Desk/wall-Mounted Handset Master Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>TL-600S</td>
<td>Desk/Wall-Mounted Handset Sub-Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>HF-660M</td>
<td>Desk/Wall-Mounted Hands-free / Handset Master Station with Auto-Dialer (8 keys — 16 registrations)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>HF-600M</td>
<td>Desk Hands-free / Handset Master Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>HF-600S</td>
<td>Desk Hands-free / Handset Substation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>HF-610M</td>
<td>Flush-Mounted Hands-free / Handset Master Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>HF-610S</td>
<td>Flush-Mounted Hands-free / Handset Substation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>HF-620M</td>
<td>Desk/Wall-Mounted Hands-free Master Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>HF-620S</td>
<td>Desk/Wall-Mounted Hands-free Substation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>HF-630M</td>
<td>Flush-Mounted Hands-free Master Station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>HF-630S</td>
<td>Flush-Mounted Hands-free Substation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>HF-631M</td>
<td>Flush-Mounted Hands-free Master Station (Stainless steel panel)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>HF-631S</td>
<td>Flush-Mounted Hands-free Substation (Stainless steel panel)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>HF-640S</td>
<td>Door Station (Hands-free)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>HF-650M</td>
<td>Surface-Mounted Industrial Master Station (Hands-free)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![Telephone Models and Diagrams]
Either "PV" Type (the system with Privacy function) or "NP" Type (Without Privacy function) mode should be selected in the total intercom system.

When Privacy Switch (SW) of station is turned ON, privacy tone is available in "PV" Type system, while continuous calling tone is available in "NP" Type system.

<table>
<thead>
<tr>
<th>Functions</th>
<th>System types</th>
<th>Descriptions</th>
<th>Stations Without Privacy SW</th>
<th>Stations With Privacy SW</th>
<th>Privacy SW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PV NP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dialing</td>
<td>O O</td>
<td>Calls are made by touching dial. Even if the Privacy SW is on, calling is possible.</td>
<td>HF-650M</td>
<td>HF-660M</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>One-Touch Dialing</td>
<td>O O</td>
<td>Substations can make a call to designated Master Stations by one-touch dialing. Calling is possible even if the Privacy SW is on.</td>
<td>HF-640S</td>
<td>HF-600S</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>Dialing after Handset is picked up</td>
<td>X O</td>
<td>Calls can be made by touching dial button after picking up handset, and confirming dial tone is heard.</td>
<td>TL-600M</td>
<td>HF-660M</td>
<td>ON</td>
</tr>
<tr>
<td>Calling by picking up Handset</td>
<td>X O</td>
<td>Substations can make a call to designated Master Stations just by picking up the handset.</td>
<td>TL-600S</td>
<td>HF-600S</td>
<td>ON</td>
</tr>
<tr>
<td>Voice Calling</td>
<td>O O</td>
<td>When called by continuous calling tone or privacy tone, voice can be sent by pressing PTT bar.</td>
<td>All stations except HF-640S</td>
<td></td>
<td>ON/OFF</td>
</tr>
<tr>
<td>Hands-free Calling and Conversation</td>
<td>O O</td>
<td>With touch-dial, after a brief calling tone Hands-free conversation is available.</td>
<td>HF-640S HF-650M</td>
<td>HF-660M</td>
<td>OFF</td>
</tr>
<tr>
<td>Continuous Calling Tone Response by One-Touch Dialing (No. 200 programming)</td>
<td>O O</td>
<td>With touch-dial, a continuous calling tone is sent. Hands-free Conversation is available when called party depresses, the [6] or [8] key</td>
<td>HF-640S HF-650M</td>
<td>HF-660M</td>
<td>OFF</td>
</tr>
<tr>
<td>Privacy</td>
<td>O X</td>
<td>When calls are unwanted, turn ON Privacy SW. Then, a brief privacy tone sounds when called. By turning off Privacy SW or touching any key ([6] or [8] key) or picking up a handset, conversation becomes available.</td>
<td>—</td>
<td>HF-660M</td>
<td>ON</td>
</tr>
<tr>
<td>Continuous Calling Tone-Picking up Response (in Privacy Mode)</td>
<td>X O</td>
<td>When called by Continuous Calling Tone, conversation is possible by picking up handset.</td>
<td>TL-600M/S</td>
<td>HF-660M</td>
<td>ON</td>
</tr>
<tr>
<td>Continuous Calling Tone-One-Touch Response (in Privacy Mode)</td>
<td>X O</td>
<td>Calls can be made just by touching the [6] or [8] key. Without picking up handset when called by Continuous Calling Tone.</td>
<td>—</td>
<td>HF-660M</td>
<td>ON</td>
</tr>
<tr>
<td>Voice Switch Conversation</td>
<td>O O</td>
<td>Voice switch conversation is available automatically, when two parties speak in hands-free mode.</td>
<td>HF-640S HF-650M</td>
<td>HF-660M</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>Simplex Conversation by Press-to-Talk key</td>
<td>O O</td>
<td>One-way conversation is available by a party who presses PTT</td>
<td>HF-640S HF-650M</td>
<td>HF-660M</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>Full Duplex Conversation</td>
<td>O O</td>
<td>Full duplex conversation is available when one or two parties are speaking using a handset.</td>
<td>TL-600M/S HF-640S HF-650M</td>
<td>HF-660M</td>
<td>ON/OFF</td>
</tr>
</tbody>
</table>

*1 This function may be employed for the industrial type of station (Model HF-650M) or in the "PV" type system that needs to be continuously called.
Station operation

1. Handset Master Station  Model TL-600M

< Making a call >
1. Pick up the handset and touch dial the station number of the party you wish to talk to after hearing dial tone.
2. Start conversation after the calling tone stops.
3. When you hear a busy tone that indicates the party you call is on another line, you can camp on the line by simply waiting without hanging up the handset. As soon as the line becomes free, your call is automatically connected.
4. While the continuous calling tone is sent, you can break in on the calling tone by continuously depressing the [PTT] key to make a voice call through the station speaker of the called party.

5. Hang up the handset or depress the [c] key to terminate the conversation.

< Responding to a call >
6. When you are called by the continuous calling tone or paged through your station speaker, respond to the call by picking up the handset.

Note.
The sound volume of the calling tone may be adjusted by means of a 2-stage volume selector (SP. VOL) switch.

2. Handset Substation  Model TL-600S

< Making a call >
1. Picking up the handset makes a call to the designated other station.
2. Start conversation after the calling tone stops.
3. When you hear a busy tone that indicates the party you call is on another line, you can camp on the line by simply waiting without hanging up the handset. As soon as the line becomes free, your call is automatically connected.
4. While the continuous calling tone is sent, you can break in on the calling tone by continuously depressing the [PTT] key to make a voice call through the station speaker of the called party.

5. Hang up the handset to terminate the conversation.

<Responding to a call>
6. When you are called by the continuous calling tone or paged through your station speaker, respond to the call by picking up the handset.

Note.
The sound volume of the calling tone may be adjusted by means of a 2-stage volume selector (SP. VOL) switch.
3. Hands-free Master Station

Model HF-620M/630M/631M/650M

< Making a call >
1. Touch dial the station number you wish to call, regardless of whether the Privacy switch of your station is in the ON position or OFF position.
2. Start conversation after the calling tone stops.
3. When the line is busy, a busy tone is heard and you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.
4. During a call attempt made by means of the continuous calling tone or the Privacy tone, you can break in on the calling tone by continuously depressing the (PTT) key to make a voice call through the station speaker of the called party.
5. When the party you call is in a high noise level area, your continuously depressing the (PTT) key allows one-way conversation to that party. As long as you depress the (PTT) key, your voice has dominance and releasing the (PTT) key will reverse the one-way conversation from that party to you.
6. To terminate the conversation, depress the [ ] key.

< Responding to a call >
[In the case that the Privacy switch is in the OFF position.]
7. Respond to the call after the calling tone stops.
[In the case that the Privacy switch is in the ON position.]
8. A brief Privacy tone sounds from your station each time there is an incoming call and all incoming calls are refused. To respond touch dial any key (1~9, 0, [ ], [ ]) other than the (PTT) key while the line is connected between you and the calling party.

Note.
1. The sound volume of the speaker may be adjusted by means of the 2-stage volume selector (VOL) switch.
2. With no speaker built inside, the HF-650M needs to be connected to a separate speaker. Also, the HF-650M is fitted with no Privacy switch.
3. Hands-free Master Station  
Model HF-620M/630M/631M/650M

< Making a call >

1. Touch dial the station number you wish to call, regardless of whether the Privacy switch of your station is in the ON position or OFF position.
2. Start conversation after the calling tone stops.
3. When the line is busy, a busy tone is heard and you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.
4. During a call attempt made by means of the continuous calling tone, you can break in on the calling tone by continuously depressing the PTT key to make a voice call through the station speaker of the called party.
5. When the party you call is in a high noise level area, your continuously depressing the PTT key allows one-way conversation to that party. As long as you depress the PTT key, your voice has dominance and releasing the PTT key will reverse the one-way conversation from that party to you.
6. To terminate the conversation, depress the key.

< Responding to a call >

7. Respond to the call after the calling tone stops.

[In the case that the Privacy switch is in the OFF position.]

8. The continuous calling tone function is made available to any station if its Privacy switch is placed in the ON position. Depressing any key (PTT key) other than the PTT key causes the continuous calling tone to stop and puts the station in the conversation mode.

Note.

1. The sound volume of the speaker may be adjusted by means of the 2-stage volume selector (VOL) switch.
2. With no speaker built inside, the HF-650M needs to be connected to a separate speaker. Also, the HF-650M is fitted with no Privacy switch.
< Making a call >

1. Touching the key makes a call to the designated other station whether the Privacy switch on your station is in the ON position or OFF position.
2. Start conversation after the calling tone stops.
3. When the line is busy, a busy tone is heard and you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.
4. During a call attempt made by means of the continuous calling tone or the Privacy tone, you can break in on the calling tone by continuously depressing the key to make a voice call through the station speaker of the called party.
5. When the party you call is in a high noise level area, your continuously depressing the key allows one-way conversation to that party. As long as you depress the key, your voice has dominance and releasing the key will reverse the one-way conversation from that party to you.
6. To terminate the conversation, depress the key.

< Responding to a call >

[In the case that the Privacy switch is in the OFF position.]
7. Respond to the call after the calling tone stops.

[In the case that the Privacy switch is in the ON position.]
8. A brief Privacy tone sounds from your station each time there is an incoming call, and all incoming calls are refused. To respond, touch dial the or key while the line is connected between you and the calling party.

Note.
1. The sound volume of the speaker may be adjusted by means of the 2-stage volume selector (VOL) switch.
2. The HF-640S is fitted with no Privacy switch, nor key, nor key.
< Making a call >
1. Touching the blue key makes a call to the designated other station whether the Privacy switch on your station is in the ON position or OFF position.
2. Start conversation after the calling tone stops.
3. When the line is busy, a busy tone is heard and you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.
4. During a call attempt made by means of the continuous calling tone, you can break in on the calling tone by continuously depressing the (PTT) key to make a voice call through the station speaker of the called party.
5. When the party you call is in a high noise level area, your continuously depressing the (PTT) key allows one-way conversation to that party. As long as you depress the (PTT) key, your voice has dominance and releasing the (PTT) key will reverse the one-way conversation from that party to you.
6. To terminate the conversation, depress the blue key.

< Responding to a call >
[In the case that the Privacy switch is in the OFF position.]
7. Respond to the call after the calling tone stops.

[In the case that the Privacy switch is in the ON position.]
8. The continuous calling tone function is made available to any station when its Privacy switch is in the ON position. Depressing the blue or yellow key makes the continuous calling tone stop and puts the station in the conversation mode.

Note.
1. The sound volume of the speaker may be adjusted by means of the 2-stage volume selector (VOL) switch.
2. The HF-640S is fitted with no Privacy switch, nor blue key, nor yellow (PTT) key.
< Making a call >
1. Hands-free conversation may be made by simply touch dialing the station number you wish to call.
2. When you wish to use the handset, pick it up, then touch dial the station number you wish to call, or reverse the order.
3. Start conversation after the calling tone stops.
4. When you hear a busy tone that indicates the party you call is on another line, you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.
5. In the event that the party you are calling does not respond and the continuous calling tone is still heard from your station, or when the station of that party is in the Privacy mode and the Privacy tone is sounded, you can break in on the calling tone by continuously depressing the PTT key to make a voice call through the station speaker of the called party.
6. During hands-free conversation, when the person you are talking to is in a high noise level area, (1) Pick up the handset to talk or (2) depress the PTT key continuously for one-way conversation to that party. As long as the PTT key is depressed, your voice has dominance, and releasing the PTT key will reverse the one-way conversation from that party to you.
7. To terminate the conversation, hang up the handset or depress the [ ] key.

< Responding to a call >
[In the case that the Privacy switch is in the OFF position.]
8. Respond to call after the calling tone stops.
[In the case that the Privacy switch is in the ON position.]
9. A brief Privacy tone will sound from your station each time it receives an incoming call and all incoming calls are refused.
To respond, depress any key ([ ] ~ [ ] ~ [ ] ~ [ ] ~ [ ]) other than the PTT key or pick up the handset while the line is still connected between your station and the calling station. These 2 busy stations are, however, automatically disconnected from the speech path after approximately 10 seconds from call establishment if no response is made by you.

Note.
The sound volume of the loud speaker may be adjusted by means of the 2-stage volume selector (VOL.) switch.
< Making a call >
1. Hands-free conversation may be made by simply touch dialing the station number you wish to call.
2. When you wish to use the handset, pick it up, then touch dial the station number you wish to call, or reverse the order.
3. Start conversation after the calling tone stops.
4. When you hear a busy tone that indicates the party you call is on another line, you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.
5. In the event that the party you are calling does not respond and the continuous calling tone is still heard from your station, you can break in on the calling tone by continuously depressing the \text{PTT} key to make a voice call through the station speaker of the called party.
6. During hands-free conversation, when the person you are talking to is in a high noise level area, (1) Pick up the handset to talk or (2) depress the \text{PTT} key continuously for one-way conversation to that party. As long as the \text{PTT} key is depressed, your voice has dominance, and releasing the \text{PTT} key will reverse the one-way conversation from that party to you.
7. To terminate the conversation, hang up the handset or depress the [5] key.

< Responding to a call >
[In the case that the Privacy switch is in the OFF position.]
8. Respond to call after the calling tone stops.
[In the case that the Privacy switch is in the ON position.]
9. The continuous calling tone function is made available to any station when its Privacy switch is in the ON position. Depressing any key (1)\~\{4\}, (5), (7) or (9) other than the \text{PTT} key or picking up the handset of the station called causes the continuous calling tone to stop and puts the station in the conversation mode.

Note.
The sound volume of the loud speaker may be adjusted by means of the 2-stage volume selector (VOL.) switch.
6. Hands-free / Handset Substation

Model HF-600S/610S

< Making a call >

1. For hands-free conversation, touching the [ ] key makes a call to the designated other station whether the Privacy switch on your station is in the ON position or OFF position.

2. When you wish to use the handset, pick it up, then touch dial the [ ] key to make a call or reverse the order.

3. Start conversation after the calling tone stops.

4. When you hear a busy tone that indicates the party you call is on another line, you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.

5. In the event that the party you are calling does not respond and the continuous calling tone is still heard from your station, or when the station of that party is in the Privacy mode and the Privacy tone is sounded, you can break in on the calling tone by continuously depressing the [ PTT ] key to make a voice call through the station speaker of the called party.

6. During hands-free conversation, when the person you are talking to is in a high noise level area,
   (1) Pick up the handset to talk or (2) depress the [ PTT ] key continuously for one-way conversation to that party. As long as the [ PTT ] key is depressed, your voice has dominance, and releasing the [ PTT ] key will reverse the one-way conversation from that party to you.

7. To terminate the conversation, hang up the handset or depress the [ C ] key.

< Responding to a call >

[In the case that the Privacy switch is in the OFF position.]

8. Respond to call after the calling tone stops.

[In the case that the Privacy switch is in the ON position.]

9. A brief Privacy tone will sound from your station each time it receives an incoming call and all incoming calls are refused. To respond, depress the [ C ] or [ C ] key or pick-up the handset while the line is still connected between your station and the station calling. These 2 busy stations are, however, automatically disconnected from the speech path after approximately 10 seconds from call establishment if no response is made by you.

Note.
The sound volume of the loud speaker may be adjusted by means of the 2-stage volume selector (VOL) switch.
< Making a call >

1. For hands-free conversation, touching the key makes a call to the designated other station whether the Privacy switch on your station is in the ON position or OFF position.

[In the case that the Privacy switch is in the OFF position.]

2. When you wish to use the handset, pick it up, then touch dial the key to make a call or reverse the order.

[In the case that the Privacy switch is in the ON position.]

3. Picking up the handset makes a call to the designated other station.

4. Start conversation after the calling tone stops.

5. When you hear a busy tone that indicates the party you call is on another line, you can camp on the line by simply waiting. As soon as the line becomes free, your call is automatically connected.

6. In the event that the party you are calling does not respond and the continuous calling tone is still heard from your station, you can break in on the calling tone by continuously depressing the key to make a voice call through the station speaker of the called party.

7. During hands-free conversation, when the person you are talking to is in a high noise level area,

   (1) Pick up the handset to talk or (2) depress the key continuously for one-way conversation to that party. As long as the key is depressed, your voice has dominance, and releasing the key will reverse the one-way conversation from that party to you.

8. To terminate the conversation, hang up the handset or depress the key.

< Responding to a call >

[In the case that the Privacy switch is in the OFF position.]

9. Respond to call after the calling tone stops.

[In the case that the Privacy switch is in the ON position.]

10. The continuous calling tone function is made available to any station when its Privacy switch is in the ON position. Depressing the or key or picking up the handset of the station called makes the continuous calling tone stop and puts the station in the conversation mode.

Note.
The sound volume of the loud speaker may be adjusted by means of the 2-stage volume selector (VOL) switch.
1. Place the registration mode switch in the ON position.
A lamp turns to green and a confirmation tone is heard.

2. Place the page selector switch in either position.

3. Press any one of the auto-dialer keys, which is to be registered.

4. Register the station or other numbers to be registered by pressing the dial keys (A maximum of 13 digits on each auto-dialer key may be registered.

5. Press the entry key The confirmation tone is again heard and registration is completed.

6. Repeat the procedures described in (2) through (5) each time registration is made.

7. To cancel the registration, press the auto-dialer key and the Entry Key <ENTER>.

8. Place the registration mode switch in the OFF position. The lamp goes out and the normal speech mode will resume.

<Making a call>

1. Place the auto-dialer registration (REGISTER) switch in the OFF position.

2. A maximum of 16 single digit dialing numbers including station numbers, personal numbers and paging zone number may be programmed into the built-in auto-dialer.
(16 registrations are possible with 8 keys by changing over the Page selector switch)
You can not only call any station by touch dialing the station selector key but also you can make a call to up to 16 specific, pre-registered stations by depressing the station selector key or by single digit dialing the auto-dialer key of this station.

Note.
1. For programming the auto-dialer, please refer to the operation manual of the HF-660M.
2. The sound volume of the calling tone can be adjusted by means of the 3-stage selector (SP VOL) switch.
3. For instructions on how to call and respond without using the auto-dialer, please refer to the information as to the HF-600M/610M.

<How to make Registration at Auto-Dialer>

1. Place the registration mode switch (REGISTER) in the ON position.
A lamp turns to green and a confirmation tone is heard.

2. Place the page selector switch in either A or B position.

3. Press any one of the auto-dialer keys (A1 ~ A4, B1 ~ B4), which is to be registered.

4. Register the station or other numbers to be registered by pressing the dial keys (1 ~ 9, 0, [ ], [ ]). A maximum of 13 digits on each auto-dialer key may be registered.

5. Press the entry key (ENTER). The confirmation tone is again heard and registration is completed.

6. Repeat the procedures described in (2) through (5) each time registration is made.

7. To cancel the registration, press the auto-dialer key (A1 ~ A4, B1 ~ B4) and the Entry Key <ENTER>.

8. Place the registration mode switch (REGISTER) in the OFF position. The lamp goes out and the normal speech mode will resume.
Automatic Line Release

When, in dialing, all of the numbers are not dialed within 5 seconds, the station is automatically disconnected from the speech path and dialing cannot be completed. In this instance, the dialing process will have to be repeated from the beginning.

This function has been adopted to speed up traffic processing and to improve the availability of speech path.

Camp-On-Busy

When the party you are calling is on another line, by simply waiting you automatically “Camp-On” the line. (Busy tone sounds continuously.) As soon as the line is freed, you will be automatically connected.

Privacy

Shift Privacy Switch to ON.

When a party does not wish to accept incoming calls, this function may be employed to refuse them. With the Privacy switch in the ON position, a continuous privacy tone will be sounded in the station making the call, and at the same time, a brief Privacy tone will sound in the station called, indicating a call attempt is being made.

It is possible to call the other party from the station in the Privacy mode but Remote Response (PTT) is impossible from that station.

Shift Privacy Switch back to the left.

To restore a station in the “Privacy” mode to a normal condition, and thus ready to receive calls.

Note: 1. A call received while the station is in the Privacy mode may be accepted if the Privacy function is immediately cancelled, (see Camp-On Privacy)

2. With a station that incorporates the Secretary Transfer function, the Privacy switch is used to activate the Secretary Transfer function, (see Secretary Transfer)

3. During the above “Privacy” mode, while the calling station has the (PTT) bar depressed, the privacy tone stops and the caller can transmit a oneway message.

When the (PTT) bar is released, the normal “Privacy” mode to be resumed.
Camp-On Privacy

When the party you are calling has his station on Privacy mode, by simply waiting you will automatically "Camp-On" the line. (Privacy tone sounds continuously.) As soon as the Privacy mode is released, or as soon as he one-touch dials any of the keys (\textcolor{red}{1 ~ 9}, \textcolor{blue}{*}, \textcolor{green}{0}), or as soon as he picks up a handset of his station, you will be automatically connected.

This function is cancelled automatically if the station in the privacy mode may not accept the call within approximately 10 seconds.

Press-To-Talk

This function is activated when the \textcolor{red}{PTT} \(\text{Press-To-Talk Bar}\) is continuously depressed after dial tone confirmation or during hands-free conversation. This allows one-way conversation from the party depressing the function key. When the key is released, one-way conversation is reversed.

Employed when a person in a high noise level area is called by a person in a quiet area, or when no particular response is required, or when simple announcements are made. In such cases, one-way conversation flow can be used.

One-way conversation is activated while the Press-To-Talk bar is continuously depressed.

As long as the Press-To-Talk bar is depressed by either party, the voice of the party using this function has dominance. When the key is released, the other party has dominance.

One-way conversation is reversed when the Press-To-Talk bar is released.

\begin{enumerate}
\item If both parties depress the Press-To-Talk bar, the voice of the party who depresses the bar last will have dominance.
\item \textcolor{red}{Depress the \textcolor{blue}{PTT} \text{bar}} to return to ordinary hands-free 2-way conversation .......
\end{enumerate}

\begin{itemize}
\item \textcolor{red}{Note.}
\item One-way conversation is impossible even if the \textcolor{red}{PTT} \text{bar} is depressed as far as either party or both parties involved pick up a handset.
\end{itemize}
First, call the "Talk-Back" station as in a normal call.

(Press-To-Talk bar depressed)

The Calling tone will sound and the message is transmitted.

In this case, while the calling station has the Press-To-Talk bar depressed, the caller can transmit a one-way message.

When this bar is released, the "Talk-Back" station can give a one-way message to the caller.

This function is convenient for stations that normally only receive calls and do not have to call other stations.
Single Digit Dialing

Single digit registration
Register in advance as follows:

- \( \bullet 6 \cdot 0 \) Confirmation tone
  - Single digits of station number
- \( \bullet 6 \cdot 0 \cdot 1 \) Confirmation tone
  - Single digit of personal number
- \( \bullet 6 \cdot 0 \cdot 8 \) Confirmation tone
  - Single digit of paging call
- \( \bullet 6 \cdot 0 \cdot 0 \) Confirmation tone
  - Single digit of All-call paging response

- \( \bullet 6 \cdot 0 \cdot 0 \cdot 0 \) Confirmation tone
  - Any four digits
- \( \bullet 6 \cdot 0 \cdot 0 \cdot 0 \) PTT Confirmation tone
  - Any three digits
- \( \bullet 6 \cdot 0 \cdot 0 \) PTT Confirmation tone
  - Any two digits

Single digit dialing
When required, dial

\( \square \)

and the registered number will be called automatically.

Note:
1. Single digit registration can be cancelled by registering your assigned station number.
2. Any function dialing with long operation may be shortened by Single Digit Dialing.
   Example: Single digit Combination paging Dial \( \square 1 \), and \( \bullet 8 \cdot 0 \cdot 1 \) is called automatically.

3. One-shot make output may be operated even in the event every link is not free. But it may not be operated in single digit dialing if all links are busy.
4. Single digit registration is not available from any substation programmed by No.200 programming, even if its line is connected with master station.
Master/Substation associations are set up by using station #200 as the programming station. Once these relationships have been established, substations can then contact their designated master stations by simply touch dialing.

If TL-600S Handset substation is used, substations can be connected to their designated master stations by simply picking up a handset. (Only applicable to NP Type system)

With respect to this function, the stations in the system are divided into two categories: master stations and substations. Any master station can be connected to any other station in the system. However, substations can initiate calls only to specific master stations. This is done by single touch dialing, and will only connect the substation to one specific master.

Several substations can be programmed under this station to connect with a single specified master station.

To register single digit dialing, touch dial

```
  60XXXX
```

substation number

Single digit dialing from that master to a specific substation is then accomplished by touch dialing.

Programming a master station for Single Digit Dialing of a substation number under this function is programmed in the same manner as other single digit dialing, and results in one touch dialing from master to substation.

Note.

Single digit registration is not available from any substation programmed by No.200 programming, even if its line is connected with master station.

### Automatic Access To Paging

Once programming has been set up for the purpose of this function.

A paging call may be made from specific Handset Substations to the registered zone by simply picking up a handset. Refer to Fig. 1

A specific Handset substations may respond to the paging call by simply picking up a handset. Refer to Fig. 2

Note.

Single digit registration for Handset Substation as well as No.200 programming is required for this function at the time of installation.
A personal number may be registered at any master station which the person to whom the number is assigned expects to be. A party wishing to receive personal number calls at a specific station may register his number at that station by touch dialing

\[ *61\times\times\times \]

Personal Number.

Those who are frequently away from their assigned station, as well as those who share a single station may be assigned a "Personal" 4-digit number which may be programmed to any master station in the system. This personal number, which is completely independent of station numbers, may be programmed at any master station, and any previous programming of that same number at any other station is automatically cancelled. When the party calling has dialed the number to which he wishes to speak, the call is then routed to the station at which the Personal Number was last registered. The numbers which may be assigned in this group are 1000 through 1499.

Personal number program cancellation can be done at any station by merely dialing:

\[ *1\times\times\times \]

When anyone having a personal number leaves the office, he merely cancels the programming of his personal number. With the personal number cancelled, any incoming calls to that number will be answered by a dial tone, indicating that he is not available.

**Note.**

The maximum number of the Personal Number remains same even if the number of exchange to be connected is increased to 2 or 3.
Continuous Calling Tone

When a specified station receives a call, the calling tone continues until

1. ~ 9, 0, #, * or <

(except PTT key)

is depressed by this party.

1. When calls cannot be answered immediately or when it is difficult to hear a normal calling tone due to high background noise, the station should be provided with the continuous calling tone function. There is no limit to the number of stations that may be equipped with this function, but a No.200 registration must be completed.

2. When the caller depresses the PTT bar while the continuous calling tone sounds, he can talk to the person called by one-way. When the PTT bar is released, the continuous calling tone returns.

3. During two-way conversation, each party presses the PTT bar to talk and releases the PTT key to receive the other party. (Press to Talk)

Note.

1. In the event of the system without Privacy function (NP Type system), stations with Privacy switch in the ON position are called by a continuous calling tone. By No.200 programming, this continuous calling tone function may also be made available to the system having Privacy function (PV Type system) and to industrial type of station model HF-650M.

2. Two (2) different continuous calling tones may be employed in
   (1) stations used in "NP" type system having a standard function of "continuous calling tone".
   (2) specific stations provided with a "continuous calling tone" function by station No. 200 programming.

< Comparison of continuous calling tones >

<table>
<thead>
<tr>
<th>Type of system</th>
<th>Type of station (Specific station provided with &quot;continuous calling tone&quot; function by station No.200 programming</th>
<th>Nature of calling tone</th>
<th>Privacy switch in OFF position</th>
<th>Privacy switch in ON position</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;PV&quot; Type</td>
<td>Non-programmed station (standard)</td>
<td>Single &quot;trill&quot; calling tone (Call is put through immediately after calling tone)</td>
<td>Privacy tone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Programmed station</td>
<td>Continuous calling tone</td>
<td>Privacy tone</td>
<td></td>
</tr>
<tr>
<td>&quot;NP&quot; Type</td>
<td>Non-programmed station (standard)</td>
<td>Single &quot;trill&quot; calling tone (Call is put through immediately after calling tone)</td>
<td>Continuous calling tone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Programmed station</td>
<td>Continuous calling tone</td>
<td>Continuous calling tone</td>
<td></td>
</tr>
<tr>
<td>Responding to a call made by continuous calling tone</td>
<td></td>
<td>Depress any dial key other than PTT key. 1. Depress only dial key other than PTT key. 2. Pick up a handset. 3. Shift Privacy switch to OFF.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Remote Response

This feature is available only among stations programmed for this purpose. When a station at which no one is present is called by means of a continuous calling tone, remote response to that call can be made by pressing the PTT key from any other station programmed for this function.

Note.
1. This function is only possible when a station is called by a continuous calling tone.
2. When this function is used from a station with the Privacy switch ON, press the (PTT) key, after lifting a station handset or after shifting the Privacy switch to OFF.

Programming the remote response group
Establish the remote response group of stations and designate a specific station within the group as a temporary "Master station" and the rest as "Substations".

The Master station registers the number of his own station as follows.

• 6 PTT XXX
  Master's number

Each of "Substation" within the group registers the "Master"'s number by dialing

• 6 PTT XXX
  Master's number

Note.
Make sure that the temporarily designated master always registers his own station number at time of programming.

Cancelling remote response program
Touch dialing at each "Substation"

• 6 PTT XXX
  His own Substation number
cancel Is the Remote response program.

Note.
When 2 or 3 exchanges are connected by tie-line, select the Remote response group within the stations connected to the same exchange.

Dial operation for Remote response

Conversation after Remote response

Programming the remote response group (Example)
Call Transfer

Call Transfer from Called Station

During the conversation, first dial

XXX

(the Station Number of the person the call is to be transferred to).
The original call is then held and the holding tone is transmitted to the other party, while the third party is called and asked whether he will accept the call. If he agrees to accept the call, dial

or hang up a handset

and the transfer will be completed.

This function allows called party to transfer that call to another station. The party to whom the call is to be transferred, may be called using either the Station Number, the Personal Number or through Single Digit Dialing.

Call Hold and Call Back from Calling or Called Station

During the conversation, first dial

XXX

the Station Number of the third party.
The other party is then placed on hold as the third party is called. Upon completion of the conversation with the third party, the party called touch dials the

key

or the third party touch dials the

key

or the third party replaces a handset. This allows the original conversation to resume.

The Transfer function is combined with the Call Holding function.

When two parties are talking, either one can be temporarily placed on hold to permit the calling of another station. The conversation with the third party over, the original conversation can be resumed.

The third party can be called using either the Station Number, his Personal Number or through Single Digit Dialing.

Note.
When 2 or 3 exchanges are connected by tie-line, an original call can be transferred only to the third party who shares the same exchange with the party who transfers the call.
Paging during Normal Calls

A paging call can be made by a called party of an existing call to a third party, the third party’s response accepted while the original call is on hold, and the original call resumed when the response call has ended. Press 

and the desired zone number. This puts the original call on hold and makes the External PA and or Station paging call. Then, press [ ] to restore the original call, and wait for the response to the paging call. When the response is received, press [ ], or replace the handset, and the original call goes back on hold allowing the second call to be taken. When the second call is completed, press [ ] and the original call can be resumed.

Note.
1. With adoption of the selective functions “Call Transfer” and “Paging”, this function is allowed to activate.
2. When 2 or 3 exchanges are connected by tie-line, paging during a normal call is only possible within the paging zones allocated to the exchange to which a station making the paging is connected. And All-call paging during a normal call is impossible.

Group Hunting

When the party you are calling is on another line, your call is automatically rerouted to another station which is programmed from the beginning. When the party to whom the call is rerouted is also on another line, the call can further be rerouted to the other station by programming.

Note.
1. To use this function, station No.200 programming of the station number(s) to which the call is to be transferred must be set up in the exchange. Place a DIP switch for Group Hunting in the ON position and make Group Hunting programming, so that this function can be programmed.
2. The combined use of this function with the “Secretary Transfer” function makes the system more functional. When “Secretary Transfer” function is employed, setting the Privacy switch to the ON position allows any incoming call to be automatically transferred to the other stations even when one is absent.
3. If station No. 200 programming is made so that the call can be rerouted to the station which is called first when the other stations registered are busy, then any call can be transferred automatically to another station. Similarly, the original call can be rerouted one after another in the “Secretary Transfer”.
4. When 2 or 3 exchanges are connected by tie-line, select the station to which the call is to be transferred within the same exchange group.
Secretary Transfer

This function is only available when a specified station is programmed for this purpose with use of Station #200 in the programming mode. Automatic transfer of incoming calls by an executive to his secretary is accomplished by placing the Privacy Switch on his station in the ON position.

This function allows a secretary to accept all incoming calls placed to an executive.

For the executive to accept calls directed to his station once the automatic secretary function has been programmed by station #200, he simply moves the privacy switch to the left, or OFF position.

It is also possible for the executive to accept calls at his station.

There is no limit to the number of Executive/Secretary pairings except by the number of available number combinations within a given system.

When a secretary who is already programmed for this function wishes another secretary to accept all incoming calls directed to an executive, station No. 200 programming of another secretary should be set up in the exchange. Then, the calls can be rerouted to another secretary if the executive and the secretary first registered place their Privacy switches in the ON position. It is also possible to transfer the call in a daisy chain method.

Note.
When 2 or 3 exchanges are connected by tie-line, set up a Secretary/Executive association within a group of stations connected to the same exchange.
Secretary Transfer and Call Transfer

Adoption of the selective function "Transfer" allows rerouting of the call transferred to the secretary back to the executive's station.

When the secretary answering a call touch dials

Executive's station number

the privacy tone sounds continuously at both ends of the line, while the call is held. The call holding tone is transmitted to the calling station. If the executive shifts the privacy switch to the left position, or if he depresses any of the keys other than the PTT key (0~9, #, *, #), or picks up a handset he can talk with the secretary. If the call held is to then be transferred back to the executive's station, the secretary is to touch dial , or to hang up a handset, and the original calling station will be connected to the executive's station.

Secretary Transfer and Call Transfer using Single Digit Dialing

Adoption of the selective functions "Transfer" and "Single Digit Dialing" allows simple retransfer of the call transferred to the secretary back to the executive's station.

Touch dial

Executive's station number

at the secretary's station in advance. When the call transferred to the secretary has to be transferred back to the executive, the secretary simply touch dials

at her station. This sets the privacy tone sounding continuously at both ends of the line while the call is held. If the call is to be transferred back to the executive's station, the secretary touch dials

or hangs up a handset.

The calling station will then be connected to the executive's station.

Reply from the executive, the secretary touch dials

This will then return the secretary to the original call.
Secretary Transfer and Call Transfer

Adoption of the selective function "Transfer" allows rerouting of the call transferred to the secretary back to the executive's station.

When the secretary answering a call touch dials Executive's station number the continuous calling tone sounds at both ends of the line, while the call is held. The call holding tone is transmitted to the calling station. If the executive shifts the privacy switch to the left position, or if he depresses any of the keys other than the PTT key (2-9, 0, *, #), or picks up a handset he can talk with the secretary. If the call held is to then be transferred back to the executive's station, the secretary is to touch dial (c), or to hang up a handset, and the original calling station will be connected to the executive's station.

Secretary Transfer and Call Transfer using Single Digit Dialing

Adoption of the selective functions "Transfer" and "Single Digit Dialing" allows simple retransfer of the call transferred to the secretary back to the executive's station.

Touch dial Executive's station number at the secretary's station in advance. When the call transferred to the secretary has to be transferred back to the executive, the secretary simply touch dials by

at her station. This sets the continuous calling tone sounding at both ends of the line while the call is held. If the call is to be transferred back to the executive's station, the secretary touch dials

or hangs up a handset.

The calling station will then be connected to the executive's station.

Reply from the executive, the secretary touch dials

This will then return the secretary to the original call.
This function is available only for those stations specifically programmed for this function, with programming station No. 200. When the station called is busy, as indicated by the busy or privacy tone, dialing sends a priority tone. This priority tone is transmitted for a few seconds and then the call is put through, terminating the original conversation.

When the called station is busy or in the Conference mode or during a paging call, this function allows forced interruption for priority conversation.
A "Hands-Free" conference call can be made with up to 4 persons. For a conference under this function the other participants may be called either through their station number, personal number or by Single Digit Dialing. Addition of stations or personal numbers (total of only 4) may be added by anyone already connected.

The person who proposes the conference may dial

\[ \begin{align*}
\cdot &5\times\times
\end{align*} \]

(Station Number of the 1st of the participants)

After receiving 2nd person's consent, he may then dial

\[ \begin{align*}
\times\times\times
\end{align*} \]

(2nd participant)

After receiving 3rd person's consent, he may now dial

\[ \begin{align*}
\times\times\times
\end{align*} \]

(the last participant)

At this point, the 4-man conference may begin. It is also possible for any of the 4 participants to call up any of the other participants.

A person wishing to drop out of the conference should dial

\[ \begin{align*}
\cdot &\circ\circ
\end{align*} \]

or hangs up a handset at his station.

Any of the participants who wish to drop out during the conference may do so as long as it's not the party who originated the conference.

The function is cancelled and the normal mode is restored when the person who arranged the conference dials

\[ \begin{align*}
\cdot &\circ\circ
\end{align*} \]

In the event that the calls made by the person arranging the conference are not answered or that there has been a dialing error, the function can be cancelled for restoration to the normal mode.

The conference is terminated when the party who arranged the conference dials

\[ \begin{align*}
\cdot &\circ\circ
\end{align*} \]

or hangs up a handset

When the conference has been terminated by the party who originated it, the other participants cannot continue the conference.
A variety of paging modes allows paging over a wide area from any master station. The paged party may respond from the nearest master station.

Paging modes include external PA systems and/or Station paging, and Zone paging is for calling a limited area and All-call paging is for calling over the entire area.

Response to a paging call may be made by means of Automatic response or Zone number dialing.

1. External PA paging and Station paging

A. External PA paging
   1. Paging through external speakers is possible from any master station, with the paged party able to respond from the nearest master station.
   2. External PA paging zones and all-call paging are possible up to a maximum number of 7 zones per exchange.
   3. A maximum of 14 zones can be connected when 2 exchanges are tie-lined and 21 zones for 3 exchanges.

B. Station paging
   1. Paging from any master station to all stations within a certain area is possible through the station speakers. But the page will not be heard at stations in use in the area.
   2. Zone paging and all-call paging are possible up to a maximum number of 7 zones per exchange.
   3. A maximum of 14 zones can be connected when 2 exchanges are tie-lined and 21 zones for 3 exchanges.

2. Zone paging and All-call paging

A. Zone paging (Individual zone paging).
   Paging and Paging response are possible through Zone paging. The same paging zones (Exchange A: No. 1 ~ 7, B: No. 8 ~ 14, C: No. 15 ~ 21) are used for PA paging and Station paging. Therefore, both PA and Station paging calls are possible in the specific zone connected for the both paging functions.
   To page, depress
   - Zone No. (01 ~ 21)
   To respond to a zone paging, depress
   - Zone No. (01 ~ 21)

B. All-call paging
   Paging and Paging response for External PA or station paging is possible through All-call paging. All-call paging is possible over the zones (No. 1 through 21) connected for PA or Station paging, and it is possible to make the paging response from any station. However, the station not connected to any of the paging zones is not paged. This does not necessarily mean that All-call station paging must reach all the stations.
   To make an all-call paging, depress
   - Zone No. (01 ~ 21)

   To respond, depress
   - Zone No. (01 ~ 21)

3. Responding to a paging call

A. Automatic response
   1. Zone paging response
      Touch dialing
      - Zone No. (01 ~ 21)
      at the station within the paged zone permits a response to the party who placed a paging call.
      In this event, No. 200 registration of the stations (consecutive station numbers) within each zone must be made.
   2. All-call paging response
      Touch dial
      - Zone No. (01 ~ 21)

B. Zone number dialing
   1. Zone paging response
      The paged party is connected to the party calling by depressing
      - Zone No. (01 ~ 21)
      at any station.
      A response to the zone paging is possible only from a station connected to the exchange that includes the paged zone.
   2. All-call paging response
      Depressing
      - Zone No. (01 ~ 21)

permits a response to the party calling.
How to select the paging area and make the paging call

<table>
<thead>
<tr>
<th>Paging area</th>
<th>No.</th>
<th>Paging</th>
<th>Dialing operation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>External PA paging</td>
<td>Station paging</td>
</tr>
<tr>
<td>All-call paging over the entire zones of exchanges “A”, “B” and “C”</td>
<td>0</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Zone paging to the zone of exchange “A”</td>
<td>7</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Zone paging to the zone of exchange “B”</td>
<td>14</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Zone paging to the zone of exchange “C”</td>
<td>21</td>
<td>Available</td>
<td>Available</td>
</tr>
</tbody>
</table>

Note.

*1 When 2 or 3 exchanges are connected by tie-line but 1 or 2 of them have no built-in Paging unit (PI), All-call paging is done only over the remaining exchange(s).

*2 A paging response is possible only from the station in the paged zone.

*3 A paging response is possible only from the station connected to the exchange “A” (station No 200 ~ 311)

*4 A paging response is possible only from the station connected to the exchange “B” (station No 470~517)

*5 A paging response is possible only from the station connected to the exchange “C” (station No.740~851)

Total number of stations for exchange without Paging Interface Unit (PI unit)

< The case where the tie-line system consisting of 2 or 3 exchanges has an exchange without the PI unit >

1. The case where it is necessary to make the paging call from the exchange without the PI unit to the other exchange(s).
   You may not substitute the LM unit (LM 8 or LM16) for the PI unit.
   EX-610: Max. 48 stations, EX-620: Max. 112 stations

2. The case where the paging call is unnecessary from the exchange without the PI unit to the other exchange(s).
   You may substitute the LM unit (LM8 or LM16) for the PI unit.
   EX-610: Max. 56 stations, EX-620: Max. 120 stations
All-Call Paging and Individual Zone Paging

Paging call

External PA paging to a specific zone is possible from any master station by pressing after picking up a handset.

E B X (“00” = all-call)
(00 ~ 21)

It is possible to wait for a response in this mode, but anything said will be broadcasted over the entire zone. It is best to end the paging call by pressing

or hanging up a handset

and waiting for a response.

All-call paging of zones 1 through 21 can be done in both the External PA paging mode through an external amplifiers and speakers, and the station paging mode through the station speakers. In the event of All-call paging, the paging is done over the entire zones.

When all-call paging is initiated during zone paging, the Zone paging is interrupted and restored after the all-call paging is finished.

Paging response

1. Automatic response

To respond to a paging call, go to the nearest master station and press either

E D (All-call paging response)

or

E S (Zone paging response)

A paging response is possible only from the station in the paged zone.

A response to All-call paging is possible from any station.

To respond to Zone paging by pressing E B , No. 200 registration of the stations (consecutive station numbers) within each zone must be made. Such registration is required for both external and station paging.

2. Zone number dialing

To respond to an All-call paging, go to the nearest master station and press

E B (or E D)

To respond to a Zone paging call, press

E S

Zone No. 01 ~ 21

at the nearest station.

A response to the zone paging is possible only from a station connected to the exchange that includes the paged zone (Exchange “A”: Zone No. 1 ~ 7, “B”: No. 8 ~ 14, “C”: No. 15 ~ 21). It is not impossible to respond from the station connected to the other exchange.

A response to All-call paging is possible from any station.

Table of stations used for individual zone paging (Example)
(In the case of “Automatic response”)

<table>
<thead>
<tr>
<th>Zone numbers</th>
<th>First station number</th>
<th>Last station number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 0 1</td>
<td>2 0 3</td>
</tr>
<tr>
<td>2</td>
<td>2 0 5</td>
<td>2 0 7</td>
</tr>
<tr>
<td>3</td>
<td>2 1 0</td>
<td>2 1 9</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. The exchanges A, B and C permit the following Standard Station Numbering Schedules (Hardwired station number):

< Standard station numbering >

<table>
<thead>
<tr>
<th>Type of Exchange</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Personal Number (Standard)</td>
<td>200~</td>
<td>470~</td>
<td>740~</td>
</tr>
<tr>
<td>Without Personal Number</td>
<td>100~</td>
<td>400~</td>
<td>700~</td>
</tr>
</tbody>
</table>

2. If you prefer any other station numbering schedules than those given in the above Item 1, you can have the station number series (Consecutive number) to start with any of No. 100/200/300/400/500/600/700/800/900 in the order of exchange A, B and C. (Hardwired station number)

< Example >

<table>
<thead>
<tr>
<th>Type of Exchange</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example 1 With Personal Number</td>
<td>300~</td>
<td>500~</td>
<td>700~</td>
</tr>
<tr>
<td>Example 2 Without Personal number</td>
<td>100~</td>
<td>600~</td>
<td>900~</td>
</tr>
</tbody>
</table>
Programmable Station Numbering

1. This function allows the system to have "Programmable station numbers", other than the "Hardwired station numbers" by programming. The stations not registered for "Programmable Station Numbers" remain in the original "Hardwired Station Number".

2. Each station number can be programmed 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.

1. Numbering schedules can be changed easily by programming in stead of rewiring.

2. Numbering schedule (such as 200's, 300's, 900's) is available for convenient office differentiation, (architectural numbering). (Refer to Fig. 1)

3. Normally, station numbers which are included in a station paging zone must be sequential, but programmable station numbers can be randomly included in a station paging zone. (Refer to Fig. 2)

4. Programming at station No. 200, 470 and 740 must set up in each exchange to change the station numbering.

5. "Programmable station number" series for each exchange

   **< Example 1 >** With Personal Number

   **< Example 2 >** Without Personal Number

   **< Example 3 >

   (Standard)

6. People operating the intercom stations need not be aware of the Hardwired station numbers. However, care must be taken when programming using station No. 200 in the exchange, as hardwired station numbers must be used for that purpose.
Group Blocking

Function (A)
The system can be grouped or divided into a maximum of 6 groups of stations with consecutive station numbers by exchanges "A", "B" and "C". Different station groups cannot call each other.

[Example 1]

< Exchange "A" > Fig. 1

<table>
<thead>
<tr>
<th>Group 1</th>
<th>No. 201-209</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 2</td>
<td>No. 210-219</td>
</tr>
<tr>
<td>Group 3</td>
<td>No. 220-249</td>
</tr>
<tr>
<td>Group 4</td>
<td>No. 250-279</td>
</tr>
</tbody>
</table>

< Exchange "B" > Fig. 2

<table>
<thead>
<tr>
<th>Group 1</th>
<th>No. 470-479</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 2</td>
<td>No. 480-489</td>
</tr>
<tr>
<td>Group 3</td>
<td>No. 490-499</td>
</tr>
</tbody>
</table>

< Exchange "C" > Fig. 3

<table>
<thead>
<tr>
<th>Group 1</th>
<th>No. 740-759</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 2</td>
<td>No. 760-769</td>
</tr>
<tr>
<td>Group 3</td>
<td>No. 770-799</td>
</tr>
</tbody>
</table>

Function (B): 1
The group connected to the same exchange can call and/or be called by any other group(s) within the same exchange area.

Example of 3 exchanges tie-lined (Fig. 6)

1) The call can be made from Group No. 2 of exchange "A" to tie-line links (①) of exchange "A". (②→③)
2) Connect tie-line links (①) of exchange "A" to tie-line links (②) of exchange "B". (③→④)
3) The call can be made from tie-line links (①) of exchange "B" to Group No. 1 of exchange "B". (④→⑤)
4) Thus, the call is allowed to go through from Group No. 2 of exchange "A" to Group No. 1 of exchange "B".

Note.
When the paging call is made, the group of stations to which the response is made is restricted by Function B. Function B permits the normal station call in the direction of the arrows. Its paging response can be made in the opposite direction of the arrows. (Refer to Fig. 4 and Fig. 8)

< Example of Paging response >
When the programming is set up for the normal station call as is shown in Fig. 4, the paging response is only possible in the direction of the arrows of Fig. 8.
Example of Group Blocking registration

To use this function, station No. 200 programming (No.470 programming or No.740 programming) of the allocated station number, group, paging zone, etc., must be set up in the exchange.

1. Example of conversation and paging
   To make this example of Group Blocking available for the system, the following programming at steps 2 through 4 must be set up in each exchange.

2. "No. 200 programming" in Exchange A

   Function registration (A) | Function registration (B) | Function registration (C)
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |

3. "No.470 programming" in Exchange B

   Function registration (A) | Function registration (B) | Function registration (C)
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |

4. "No. 740 programming" in Exchange C

   Function registration (A) | Function registration (B) | Function registration (C)
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |
   | | |

Note. ○ Indicates that registration is not necessary.
X Indicates that the station is not within the group.
Programmable Restricted Access for Stations

Stations which can use the 6 groups of following functions must be programmed, so as to restrict access to those functions by those stations not programmed.

1. All-call paging
   - 800

2. Conference
   - 5xxxx
     Station number

3. General purpose control
   Mode 1 (One-shot make output)
   - 3xx
     00 ~ 49

4. General purpose control
   Mode 2 (Make/break output)
   - 35xxx
     00 ~ 99
   - 36xxx
     00 ~ 99

5. General purpose control
   Mode 3-A (8 selectable make output)
   - 37 x y
     1 ~ 9 1 ~ 8, 0 (Clear)
     Unit No. Condition No.

   General purpose control
   Mode 3-B (Decimal output)
   - 38 x y
     1 ~ 9 0 ~ 9
     Unit No. Condition No.

6. General purpose control
   Mode 4 (4 decimal digits output)
   - 39 x yyyy
     1 ~ 9 0000 ~ 9999
     Unit No. 4-digits

Note.
For a conference call, only those stations allowed to use the conference link can dial. The other members of the conference need not be allowed conference access.
Selectable Calling Tone

The duration of the calling tone can be set for either 0.2 second (single note tone) or 0.3 second (warble tone). It is also possible to have the station without any calling tone.

Note.
1. The duration of the continuous calling tone is impossible to change.
2. Different modes of the duration of the calling tone may not be employed in each station within the same system.

Selectable Paging Pre-Announcement Tone Duration

The duration of the all-call and zone paging tones can be set for either 2 seconds ("long") or 1 second ("short"). It is also possible to have the system without any paging pre-announcement tone.

Time-Out ofConversation

It is possible to limit the conversation duration to one through ninety-nine minutes in the unit of one minute in order to improve speech path availability. A hurry-up tone is sounded in both the calling and called stations approximately 10 seconds before the busy stations are automatically disconnected from the speech path.

Time-Out of Paging Call

This function is employed to prevent the unnecessary line occupation as a result of a paging party's failure to depress the key after a paging call establishment. The paging call is automatically cancelled after a certain period of time, which may be set at one through ninety-nine minutes in the unit of one minute, with a hurry-up tone transmitted to the paging station approximately 10 seconds prior to the automatic disconnection. When the paged party responds, the conversation is automatically cut off after the duration set by the Time-out of conversation function.
In/Out Annunciation

The in/out annunciation indicators can be turned on or off from any master station by using the personal number registering procedure.

When a personal number registration is made at a station, by dialing

\[\begin{align*}
\text{\textbullet 61XX} \\
1000-1499 (\text{personal number})
\end{align*}\]

the personal number is registered at that station and the personal number lamp on the in/out indication panel is turned on.

Personal number call
By dialing

\[\begin{align*}
\text{61XX} \\
1000-1499 (\text{personal number})
\end{align*}\]

from any station, the call is put through to the station registered with the personal number.

Cancelling personal number and turning off in/out annunciation.
By dialing

\[\begin{align*}
\text{61XX} \\
1000-1499 (\text{personal number})
\end{align*}\]

from any station, the personal number is cancelled and the personal number lamp on the in/out indication panel is turned off.

1. The maximum number of in/out annunciation windows is 500.
   This maximum number remains same even if the number of exchange to be connected is increased to 2 or 3.
2. The in/out indication panel must be used with the Data Transmitting and Receiving Units (DT-E11 and DR-B61).
Calling Party Indication (Lamp Type)

A one station/one lamp type calling party indication panel can be provided for certain specified stations (eight stations or eight groups of stations)

The system can also be divided into a maximum of 8 groups of stations (consecutive station numbers) so that each group may have the calling party indication panels which are common within the group. The party making the call is indicated even if the call is made to any station in the group.

**Calling station memory**

It is also possible to equip the system with the "Calling station Memory" function. Adopting this function causes the calling party’s lamp on the indication panel to keep on lighting even if he cancels the call when the called party is on other line or in Privacy mode.

**Indication mode without calling station memory**

1. A lamp of the calling station comes on and goes out when the conversation is over.
2. When the call is made during conversation or privacy mode, a lamp of the calling station comes on and goes out when the calling station cancels the call.

**Indication mode with calling station memory**

1. The lamp at the station receiving the call comes on when a call is made and goes out when the conversation is completed.
2. When a call (camp-on-busy) is made to the busy or the privacy station (with the privacy switch on), the lamp of calling station comes on. The lamp will not go out even if the original call is cancelled.
3. The lamp goes out after the conversation is cancelled.
4. Dialing without placing a call causes all lights to go out. *1

Note.

*1. In the case of Handset Master station TL-600M, lift a station handset and confirm that a dial tone is heard. Press [ ] after cancelling the dial tone by pressing [ ]

1. The maximum number of calling stations is 120. When 2 or 3 exchanges are connected by tie-lines, the party who is calling through the other exchange is not indicated.
2. The indication panel must be used with the Data Transmitting and Receiving Units.
3. No. 200 programming of stations or groups of stations for which a calling party indication panel is provided must be set up in exchange “A”, No. 470 programming in exchange “B” and No. 740 programming in exchange “C”.

**Example of registration**

<table>
<thead>
<tr>
<th>Indication panel</th>
<th>First station number</th>
<th>Last station number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>239</td>
<td>239</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>251</td>
<td>255</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Station No. 239 has the indication panel No.2.
2. The group of stations No. 251-255 is provided with the indication panel No. 5.
<Calling party selection>

1. When there are more than 2 incoming calls to a busy station, the calling parties' lamps on the indication panel come on. The called party may select the calling party he wishes to respond to by touch dialing [9] plus [XXX] (desired calling party's number). In this event, the original conversation is finished.

2. In the event that a station in the busy mode receives a call that is indicated on the indication panel, by touch dialing [XXX] (the calling party's number), the called party is put through to the calling party, while the original conversation partner is placed on "hold" temporarily. (Refer to "Call Transfer" and "Call Back").
Pocket Pager

The system can be connected with usual type Pocket pager using the interface with Make/break relay output.

1. Dial

```
• 7XX
```

(00 ~ 63, Pager No.)

and the pager is called after confirmation tone is heard.

2. When

```
• 4XX
```

(00 ~ 63, Pager No.)

is dialed by the party called from the nearest master station, it is possible to respond a call to the station.

Note.

1. Once a receiver is called from one station and a response is waited for, camp-on-busy will result for other callers. But, if a response to the call is not received within 3 minutes, the terminal can be called from a new calling station.
2. If the pager is called after confirmation tone is heard, a calling station is disconnected from the speech line and waits for a response while the relay for pager transmission is kept in the Make position till a response is made. The station which waits for a response can be called from the other stations.
3. The other stations can call the other pagers while one station makes a call and is waiting for a response.
4. Dialing `4XX` (pager number that is called) cancels calling the pager if the wrong number has been pressed.
5. When the exchanges are connected by tie-lines, it is only possible to call the pager from the stations connected to the exchange "A" for stations No. 200 through 327. A pager response can be made from any station.
General Purpose Control

Station may be restricted from access to this function. This function can control other equipments by employing the Data Transmitting and Receiving Units.

Select the required type of output.

(Mode 1) One-shot make output (50 contacts)

Dial

![Fig. 1 Control with one-shot make output]

and the relay output is made for 1 to 2 seconds.

Example: Door remote and VTR control

Note: Operation performed even when all links are busy.

But One-shot make output by Single digit dialing cannot be accomplished when all links are busy.

(Mode 2) Make/break output (100 contacts)

Dial

![Fig. 2 Lamp on/off indication panel]

and the make output is sent out.

Dial

![Fig. 3 8 selectable output type indication panel]

and the break output sent out.

Example: In/out annunciation, Prescription annunciation.

(Mode 3) 8 selectable make output and/or decimal output

(A) 8 selectable make output (9 units)

Dial

![Fig. 4 Decimal output type indication panel]

and one of the 8 relay outputs is made. "Clear" operation makes all 8 relays break.

Example: Destination indication, room condition indication, TV control, VTR control

(B) Decimal output

Dial

![Fig. 5 4 decimal digits type indication panel]

and the condition is indicated numerically.

Example: Destination indication, room condition

(Mode 4) 4 decimal digits output

Dial

and 4 decimal digits are indicated.

Example: Prescription annunciation
Note.
When 2 or 3 exchanges are connected by tie-lines, Data Transmitting and Receiving Units can be operated from the stations which share the same exchange but their operation is impossible from the stations which are connected to the other exchange.

Control of Data Transmitting and Receiving Units of each exchange is only possible from the stations sharing the same exchange and within the same areas circled in dotted lines.
Simplified Paging

If an external speaker is connected instead of a station, simplified paging can be made without the PA amplifier if the caller dials that station number and makes a paging call.

Note.
For further details, please refer to "Installation Handbook for Exchange".

Clear Entry and Conversation Over

1. Clear entry
In the event that an error has been made when dialing for Transfer or Conference, at the start of or during the conversation, dial

This will restore the condition before the error was made, allowing the caller to make a correction without interrupting the call.

2. Conversation over
To terminate conversation, dial

or hang up a handset