Please read this manual before connecting the KX-T123210
Thank you for purchasing the Panasonic Model KX-T123210, Electronic Modular Switching System (EMSS).

**SYSTEM COMPONENT**

<table>
<thead>
<tr>
<th>Service unit</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KX-T123210</td>
<td></td>
<td>Electronic Modular Switching System</td>
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<table>
<thead>
<tr>
<th>Telephone</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KX-T123220</td>
<td></td>
<td>EMSS Proprietary Telephone (12 CO's)</td>
</tr>
<tr>
<td>KX-T123230</td>
<td></td>
<td>EMSS Proprietary Telephone with LCD (12 CO's)</td>
</tr>
<tr>
<td>KX-T123250</td>
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<td>EMSS Proprietary Telephone (12 CO's)</td>
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<td>EMSS Proprietary Telephone with LCD (6 CO's)</td>
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<td>EMSS Proprietary Telephone with LCD (6 CO's)</td>
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<tr>
<td>KX-T61650</td>
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<td>EMSS Proprietary Telephone (6 CO's)</td>
</tr>
<tr>
<td>KX-T30820</td>
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<td>EMSS Proprietary Telephone (3 CO's)</td>
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<td>KX-T30830</td>
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<td>EMSS Proprietary Telephone with LCD (3 CO's, 8 DSS's)</td>
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<td>KX-T30850</td>
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<th>Optional equipment</th>
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<tr>
<td>KX-T123240</td>
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<td>DSS Console (32 DSS's, 16 Feature buttons)</td>
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<tr>
<td>KX-T61640</td>
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<td>KX-T123241</td>
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<td>Expansion Card (up to four extension lines)</td>
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<td>KX-T123280</td>
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<td>Expansion Card (up to two CO lines)</td>
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<td>KX-T30860D(only)</td>
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<td>Doorphone Adaptor</td>
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<td>KX-T30885</td>
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<td>Doorphone</td>
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<tr>
<td>KX-T30890</td>
<td></td>
<td>Headset</td>
</tr>
<tr>
<td>KX-A26</td>
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<td>Battery Adaptor</td>
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</table>
NOTIFY THE TELEPHONE COMPANY

Installation must be performed by a qualified professional installer.

Notify the Telephone Company
Before connecting this equipment to any telephone, call the telephone company and inform them of the following:

- Telephone numbers to which the system will be connected
- Make ................................................................. Panasonic
- Model ................................................................. KX-T123210
- FCC Registration No. ........................................ ACJ 96 N-19294-MF-E
- Ringer Equivalence ............................................ 0.4B
- Facility Interface Code ......................................... 02LS2
- Service Order Code ............................................. 9.0F
- Required Network Interface Jack .......................... RJ 11

Present FCC Regulations prohibit connecting this unit to a party line, or to a coin operated telephone.

Please read the section on “Telephone Company and FCC Requirements and Responsibilities” on page 6-8.

The serial number of this product may be found on the label affixed to the side of the unit. You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft.

MODEL NO.: KX-T123210

For your future reference

DATE OF PURCHASE

NAME OF DEALER

DEALER'S ADDRESS

SERIAL NO.:
<table>
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<td>Extension Number</td>
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<td>Operator</td>
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<td>DSS Console</td>
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<td>Hold</td>
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<td>Transfer Recall Time</td>
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**INSTALLATION (Quick Reference)**

**Wall Mounting**

1. Place the templet (included) on the wall to mark the 3 screw positions.
2. Install the 3 screws into the wall.
3. Hook the unit on the screw heads.

**Central Office Line Connection**

(See page 2-7)

- To Terminal Board or Modular Jacks from the Central Office (CO).

**Extension Connection**

(See page 2-8)

- 50 pin (Amphenol 57JE series)
- To Extensions (jack number 9 through 16)
- To Extensions (jack number 1 through 8)

**Frame Ground Connection**

(See page 2-2)

For earth ground, see page 2-2.

**How to remove the front cover from unit**

(See page 2-4)

1. Unscrew the front cover of the unit. There are four screws.
2. Open the front cover in the direction of the arrow A.

**Rechargeable Battery Installation**

(See page 2-4)

- Proprietary Telephone
  - 26 AWG: Under 460 feet
  - 24 AWG: Under 750 feet
  - 22 AWG: Under 1180 feet
- Standard Telephone
  - 26 AWG: Under 2290 feet
  - 24 AWG: Under 3700 feet
  - 22 AWG: Under 5900 feet

**Wiring**

- To Terminal Board or Modular Jacks from the Central Office (CO).
- To Extensions (jack number 9 through 16)
- To Extensions (jack number 1 through 8)
Cable Pin Numbers to be connected

<table>
<thead>
<tr>
<th>Conn. Pin</th>
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<th>Clip No.</th>
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<td>1</td>
<td>BLU-WHT</td>
<td>2</td>
<td>D1</td>
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<tr>
<td>27</td>
<td>WHT-ORN</td>
<td>3</td>
<td>D2</td>
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T : Tip  D1 : Data 1  R : Ring  D2 : Data 2

1. To protect the printed circuit board from static electricity, first discharge any body static by touching the metal board.
2. Loosen the screws to remove the metal board.
3. The location of the optional cards for the KX-T123210 is shown in the following.

Connection of the Proprietary Telephone
(4-conductor wiring is required for each extension.)

Connection of a Standard Telephone
(2-conductor wiring is required for each extension.)

Connect the pin number of "T" and "R" only.
Extension Connection
(Jack number 17 through 32) option

(Optional Expansion Card
KX-T123270 (8 Extension's)
KX-T123271 (4 Extension's)
Jack no. 17 through 24
→ LC-3
Jack no. 25 through 32
→ LC-4

Optional DSS Console Card
KX-T123241

Pair Telephone
DSS Console

Central Office Line Connection
(CO 9 through 12) option

(Optional Expansion Card
KX-T123280 (4 CO's)
KX-T123281 (2 CO's)

Use 2-conductor wiring cord
modular jack

To Terminal Board or Modular Jacks from the Central Office (CO).

Battery Adaptor (KX-A26) option

- The DSS Console (KX-T123240 or KX-T61640) needs a paired Telephone (EMSS Proprietary Telephone) for proper operation, because the DSS console cannot work by itself.
- When using the DSS Console, program must be done. See page 3-10.

Car type batteries
- Consisting of two 12 VDC (24 VDC)
- 16 amp / hour maximum rating
Optional Doorphone Connection

(See page 2-15.)

- After drawing a CPU Card, insert adaptor connector into connector on the CPU Card.

Doorphone Adaptor (KX-T30860D only)

CPU Card

Doorphone 1 (KX-T30865)

Doorphone 2 (KX-T30865)

4-conductor wiring is required.

Twisted cable

The max. length

26 AWG : Under 230 feet
24 AWG : Under 370 feet
22 AWG : Under 590 feet

Connection Chart:

KX-T123210 RS-232C

Paging Equipment

(See page 2-20.)

Speaker

Amplifier

Paging Equipment 1

Paging Equipment 2

External Music Source

(See page 2-20.)

External Music Source

Serial Interface (RS-232C)

Cables must be shielded and the maximum length is 0.5 feet.

KX-T123210

Connection parameters

If the Panasonic printer which is used has a (KX-P11D or KX-P17) board and is connected to the KX-T123210, set the communication parameters the following.

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# PROGRAMMING (Quick Reference)

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| | | | | | 1-13
<table>
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<tr>
<th>TO SET</th>
<th>PROGRAM ADDRESS</th>
<th>STEPS REQUIRED TO CHANGE PROGRAM</th>
<th>DEFAULT</th>
<th>PAGE FOR DETAILS</th>
<th>PROGRAM TABLE</th>
</tr>
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<tbody>
<tr>
<td>Toll Restriction Area Type Selection</td>
<td>1.0</td>
<td><strong>NEXT</strong> <strong>SELECT</strong> <strong>MEMORY</strong> <strong>END</strong> Type A / Type B / Type C</td>
<td>Type A</td>
<td>3-10</td>
<td>7-4</td>
</tr>
<tr>
<td>CO Operator Call-Boundary Class</td>
<td>1.1</td>
<td><strong>NEXT</strong> <strong>MEMORY</strong> <strong>END</strong> dial the boundary class number (1 through R)</td>
<td>Class 1</td>
<td>3-19</td>
<td>7-4</td>
</tr>
<tr>
<td>Toll Restriction of Speed Dialing</td>
<td>1.2</td>
<td><strong>NEXT</strong> <strong>SELECT</strong> <strong>MEMORY</strong> <strong>END</strong> Restriction / No restriction</td>
<td>Restriction</td>
<td>3-20</td>
<td>7-5</td>
</tr>
<tr>
<td>Exchange Code Selection</td>
<td>1.3</td>
<td><strong>NEXT</strong> <strong>NEXT</strong> <strong>CDE</strong> <strong>MEMORY</strong> <strong>END</strong> exchange code with 3 digits</td>
<td>Nothing is stored</td>
<td>3-21</td>
<td>7-5</td>
</tr>
<tr>
<td>Area Code Entry for class 3</td>
<td>1.4</td>
<td><strong>NEXT</strong> <strong>NEXT</strong> <strong>CDE</strong> <strong>MEMORY</strong> <strong>END</strong> area code with 3 digits</td>
<td>Nothing is stored</td>
<td>3-22</td>
<td>7-5</td>
</tr>
<tr>
<td>Exchange Code Entry for Class 5</td>
<td>1.5</td>
<td><strong>NEXT</strong> <strong>NEXT</strong> <strong>CDE</strong> <strong>MEMORY</strong> <strong>END</strong> exchange code with 3 digits</td>
<td>Nothing is stored</td>
<td>3-23</td>
<td>7-5</td>
</tr>
<tr>
<td>Exchange Code Entry for Class 7</td>
<td>1.6</td>
<td><strong>NEXT</strong> <strong>NEXT</strong> <strong>CDE</strong> <strong>MEMORY</strong> <strong>END</strong> exchange code with 3 digits</td>
<td>Nothing is stored</td>
<td>3-24</td>
<td>7-6</td>
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</table>

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<thead>
<tr>
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<th>TO SET</th>
<th>PROGRAM ADDRESS</th>
<th>PROGRAMMING</th>
<th>PROGRAM TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold Time Reminder</td>
<td>1.7</td>
<td>Refer to page 3-25</td>
<td>7-6</td>
<td>SMDR RS-232C Communication Parameters</td>
<td>2.3</td>
<td>Refer to page 3-32</td>
<td>7-7</td>
</tr>
<tr>
<td>Hold Recall Time Set</td>
<td>1.8</td>
<td>Refer to page 3-26</td>
<td>7-6</td>
<td>SMDR Parameters</td>
<td>2.4</td>
<td>Refer to page 3-35</td>
<td>7-8</td>
</tr>
<tr>
<td>Transfer Recall Time</td>
<td>1.9</td>
<td>Refer to page 3-27</td>
<td>7-6</td>
<td>Incoming/ Outgoing call Selection for printing</td>
<td>2.5</td>
<td>Refer to page 3-36</td>
<td>7-8</td>
</tr>
<tr>
<td>Call Forwarding Starting Time</td>
<td>2.0</td>
<td>Refer to page 3-20</td>
<td>7-6</td>
<td>Secret Speed dial/ One Touch Dial Printing</td>
<td>2.6</td>
<td>Refer to page 3-36</td>
<td>7-8</td>
</tr>
<tr>
<td>Pickup Dial Delay Time</td>
<td>2.1</td>
<td>Refer to page 3-29</td>
<td>7-6</td>
<td>System Data Dump</td>
<td>2.7</td>
<td>Refer to page 3-37</td>
<td>7-8</td>
</tr>
<tr>
<td>CO-uo-CO Duration Time Limit</td>
<td>2.2</td>
<td>Refer to page 3-30</td>
<td>7-7</td>
<td>Duration Time Count Start Mode</td>
<td>2.8</td>
<td>Refer to page 3-40</td>
<td>7-9</td>
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</tbody>
</table>
### Outside Line Feature

<table>
<thead>
<tr>
<th>TO SET</th>
<th>PROGRAM ADDRESS</th>
<th>STEPS REQUIRED TO CHANGE PROGRAM</th>
<th>DEFAULT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO Connection Assignment</td>
<td>4.0</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>Connect / Not Connect until the desired CO number appears</td>
<td>Connect: all CO's</td>
</tr>
<tr>
<td>Dial Mode (DTMF/Pulse)</td>
<td>4.1</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>DTMF Mode / Pulse Mode until the desired CO number appears</td>
<td>DTMF: all CO's</td>
</tr>
<tr>
<td>Pulse Speed Selection</td>
<td>4.2</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>Low Speed / High Speed until the desired CO number appears</td>
<td>Low speed: all CO's</td>
</tr>
<tr>
<td>Trunk Group Assignment</td>
<td>4.4</td>
<td>NEXT NEXT A MEMORY END</td>
<td>dial the trunk group number (1 through 8) until the desired CO number appears</td>
<td>Trunk-G1: CO 1, Trunk-G2: CO 2, Trunk-G3: CO 3, Trunk-G4: CO 4, Trunk-G5: CO 5, Trunk-G6: CO 6, Trunk-G7: CO 7, Trunk-G8: CO 8, CO 10, CO 11, CO 12</td>
</tr>
<tr>
<td>Flexible Outward Dialing Assignment</td>
<td>4.5</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>other CO number other jack number Enable / Disable until the desired jack number appears until the desired CO number appears</td>
<td>Enable: all jack numbers</td>
</tr>
<tr>
<td>Flexible Ringing Assignment</td>
<td>4.7</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>other CO number other jack number Enable / Disable until the desired jack number appears until the desired CO number appears</td>
<td>Enable: all jack numbers</td>
</tr>
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</table>

### Table

<table>
<thead>
<tr>
<th>Day Mode</th>
<th>Night Mode</th>
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</thead>
<tbody>
<tr>
<td>Flexible Ringing Assignment</td>
<td>Flexible Ringing Assignment</td>
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<tr>
<td>Enable: all jack numbers</td>
<td>Enable: all jack numbers</td>
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1-15
### TO SET

<table>
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<th>STEPS REQUIRED TO CHANGE PROGRAM</th>
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<tbody>
<tr>
<td>6.1</td>
<td>• Selecting “Normal” mode</td>
<td>Normal : all CO's</td>
</tr>
<tr>
<td></td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>3-54 7-19</td>
</tr>
<tr>
<td></td>
<td>• Selecting “DIL” mode</td>
<td>Normal : all CO's</td>
</tr>
<tr>
<td></td>
<td>NEXT NEXT SELECT CD MEMORY END</td>
<td>3-57 7-19</td>
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</table>

#### Host PBX Access Codes Assignment

<table>
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<tbody>
<tr>
<td>4.3</td>
<td>Refer to page 3-45</td>
<td>7-10</td>
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#### Delayed Ringing Assignment

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<tr>
<td>4.9</td>
<td>Refer to page 3-52</td>
<td>7-15 7-16</td>
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#### Extension Feature

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<th>PROGRAMMING</th>
<th>PAGE</th>
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</thead>
<tbody>
<tr>
<td>6.0</td>
<td>NEXT NEXT A MEMORY END</td>
<td>EXT GRP-1 : all jack numbers</td>
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<td></td>
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<td>3-63 7-21</td>
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<thead>
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<th>PROGRAM ADDRESS</th>
<th>PROGRAMMING</th>
<th>PAGE</th>
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<tbody>
<tr>
<td>6.5</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>Disable : all jack numbers</td>
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<td>3-71 7-23</td>
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# TO SET

## PROGRAM ADDRESS

### STEPS REQUIRED TO CHANGE PROGRAM

### DEFAULT

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<th>PROGRAM TABLE</th>
<th>TO SET</th>
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<th>PROGRAM TABLE</th>
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<tbody>
<tr>
<td>Service Class Assignment of Toll Restriction Day Mode</td>
<td>6.1</td>
<td>NEXT NEXT G MEMORY END</td>
<td>Class 1: all jack numbers</td>
<td>3-64 7-21</td>
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<tr>
<td>Night Mode</td>
<td>6.2</td>
<td>NEXT NEXT G MEMORY END</td>
<td>Class 1: all jack numbers</td>
<td>3-66 7-22</td>
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<tr>
<td>Call Forwarding To Outside Line</td>
<td>6.3</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>Disable: all jack numbers</td>
<td>3-72 7-23</td>
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<tr>
<td>Executive Override</td>
<td>6.4</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>Disable: all jack numbers</td>
<td>3-73 7-23</td>
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<tr>
<td>Do not Disturb Override</td>
<td>6.5</td>
<td>NEXT NEXT SELECT MEMORY END</td>
<td>Disable: all jack numbers</td>
<td>3-74 7-24</td>
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## TO SET

### PROGRAM ADDRESS

### PROGRAMMING

### PROGRAM TABLE

### TO SET

### PROGRAMMING

### PROGRAM TABLE

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<tr>
<td>Extension Name</td>
<td>6.6</td>
<td>Refer to page 3-66</td>
<td>7-1</td>
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<tr>
<td>Account Code Input Mode</td>
<td>6.7</td>
<td>Refer to page 3-70</td>
<td>7-22</td>
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<th>STEPS REQUIRED TO CHANGE PROGRAM</th>
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</thead>
<tbody>
<tr>
<td>System Data Clear</td>
<td>6.8</td>
<td>Refer to page 3-75</td>
<td>7-24</td>
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<tr>
<td></td>
<td></td>
<td>Refer to page 3-76</td>
<td>7-25</td>
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</table>

### PAGE

1-78
## MAKING CALLS

- Lift the handset or press the SP-PHONE button first.
- After finishing your conversation, hang up the handset or press the SP-PHONE button.

### INTER OFFICE CALLING (Intercom)
- **Dial extension no. (100 through 199)**

### OUTWARD DIALING

<table>
<thead>
<tr>
<th>Method</th>
<th>Dialing Method</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>Individual Line Access</td>
<td>Dial phone number</td>
<td>4-2</td>
</tr>
<tr>
<td>Automatic Line Access</td>
<td>Dial phone number</td>
<td>4-2</td>
</tr>
<tr>
<td>Individual Trunk Group Access</td>
<td>Dial Trunk Group number (1 through 8)</td>
<td>4-3</td>
</tr>
<tr>
<td></td>
<td>Dial phone number</td>
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</tbody>
</table>

### SPEED DIALING
- **Dial speed access code (00 through 99)**

### ONE TOUCH DIALING
- (Press the PROGRAMMABLE FEATURE button.)

### WHEN A LINE IS BUSY

#### AUTOMATIC CALL BACK BUSY

<table>
<thead>
<tr>
<th>Method</th>
<th>Dialing Method</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>For Outside Calls</td>
<td>I hear a busy tone</td>
<td>4-7</td>
</tr>
<tr>
<td>For Intercom Calls</td>
<td>I hang up handset or press “SP-PHONE”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dial extension no. (100 through 199)</td>
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<tr>
<td></td>
<td>Hear a busy tone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hang up handset or press “SP-PHONE”</td>
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</tbody>
</table>

#### BUSY STATION SIGNALING
- **Dial extension no. (100 through 199)**
- **Hear a busy tone**

#### LAST NUMBER REDIAL
- **Lift handset or press “SP-PHONE”**

#### EXECUTIVE OVERRIDE (Barge-in)
- **Dial extension no. (100 through 199)**
- **Hear a busy tone**

### RECEIVING CALLS

#### ANSWER
- **Lift handset** or **SP-PHONE**
- You may press the CO or ICM button.

#### DIAL CALL PICKUP
- Lift handset or press “SP-PHONE”
- You may dial the ringing extension number instead of 0.
WHILE HAVING A CONVERSATION

<table>
<thead>
<tr>
<th>CALL PARK</th>
<th>To park a call</th>
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<tbody>
<tr>
<td></td>
<td>HOLD 2</td>
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<tr>
<td>To retrieve a parked call at any extension</td>
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<td></td>
<td>WAR 5</td>
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<table>
<thead>
<tr>
<th>CALL ON HOLD</th>
<th>To place call on hold</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HOLD</td>
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<tr>
<td>To retrieve</td>
<td></td>
</tr>
<tr>
<td>(Outside calls on hold)</td>
<td></td>
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<tr>
<td>- at the holding extension</td>
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<tr>
<td>- from another extension</td>
<td></td>
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<tr>
<td>(Intercom call on hold)</td>
<td></td>
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<tr>
<td>- at the holding extension</td>
<td></td>
</tr>
<tr>
<td>- from another extension</td>
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<tr>
<td>Dial holding extension no. (100 through 199)</td>
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<table>
<thead>
<tr>
<th>CONFERENCE</th>
<th>Dial 2nd party  Consult with 2nd party</th>
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</thead>
<tbody>
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<tr>
<th>CALL TRANSFER-TO EXTENSION</th>
<th>To Transfer after the Other Extension Answers</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>TO OUTSIDE LINE</th>
<th>To transfer after the Other Outside party Answers</th>
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</thead>
<tbody>
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<table>
<thead>
<tr>
<th>CALL WAITING</th>
<th>To place the Original Call on Hold and Talk to the New Caller</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hear a call waiting tone</td>
</tr>
<tr>
<td>- To terminate the original call and talk to the new caller, you need not to press the HOLD button.</td>
<td></td>
</tr>
</tbody>
</table>

PAGING

I lift the handset or press the SP-PHONE button first.

<table>
<thead>
<tr>
<th>PAGING ALL EXTENSIONS</th>
<th>To Access</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DEF 3 DEF 3 DEF 6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAGING GROUP</th>
<th>To Access</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DEF 3 DEF 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ANSWER</th>
<th>To Paging through Built-in Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GM 4 DEF 3</td>
</tr>
</tbody>
</table>

4 - 12 4 - 14 4 - 16 4 - 18 4 - 20 4 - 23 4 - 24 4 - 25
**OTHER FEATURES**

- Lift the handset or press the SP-PHONE button first.
- After hearing confirmation tone (1 or 2 beeps), hang up the handset or press the SP-PHONE button.

### CALL FORWARDING

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>4-26</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Calls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Busy or No Answer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To Outside Line</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### DO NOT DISTURB

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
<th>4-30</th>
</tr>
</thead>
</table>

### ABSENT MESSAGE CAPABILITY

| Message 1. "Will Return Soon" | To cancel | 4-34 |
| Message 2. "Gone Home" | | |
| Message 3. "At Ext [extension no.]" | | |

### MESSAGE WAITING

To Leave the Message at each Extension from the Operator

| Dial extension no. (100 through 199) | Hear 1 beep | 4-36 |

To Call the Operator from the Extension where the Message is left.

To Cancel the Message which is left in the extension.

| From the extension | From the operator |

### FLEXIBLE NIGHT SERVICE

(Extension of jack no 01 only)

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
<th>4-37</th>
</tr>
</thead>
</table>

### SAVED NUMBER REDIAL

| Programming | Dialing | 4-31 |

### STATION FEATURE CLEAR

| | | 4-45 |

- Following features can be canceled: Dial Call Pickup Deny, Do Not Disturb, Call Forwarding, Call Waiting Tone Deny, Data Line Security, Absent Message capability, Background Music, Executive Override Deny, Message Waiting.
**STATION PROGRAMMING**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM" first.
- After programming, return the MEMORY switch to "SET".

### AUTO CO HUNTING

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prime Line Preference-</td>
<td></td>
<td>4-49</td>
</tr>
<tr>
<td>Outgoing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dial CO no. (01 through 12)</td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td>Idle Line Preference-</td>
<td></td>
<td>4-50</td>
</tr>
<tr>
<td>Outgoing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
</tbody>
</table>

### AUTOMATIC ANSWERING SELECTION

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prime Line Preference-</td>
<td></td>
<td>4-51</td>
</tr>
<tr>
<td>Incoming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dial CO no. (01 through 12)</td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td>No Line Preference-</td>
<td></td>
<td>4-52</td>
</tr>
<tr>
<td>Incoming</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
</tbody>
</table>

### FLEXIBLE CO BUTTON

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>To change into other CO numbers</td>
<td>AUTO MEMORY</td>
<td>4-53</td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td>To assign into trunk group access number</td>
<td>AUTO MEMORY</td>
<td>4-53</td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td>To change into DSS button</td>
<td>AUTO MEMORY</td>
<td>4-54</td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td>To change into other all CO numbers</td>
<td>AUTO MEMORY</td>
<td>4-55</td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td>To change into message waiting button</td>
<td>AUTO MEMORY</td>
<td>4-55</td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
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</tbody>
</table>

### INTERCOM VOICE ALERTING MODE

<table>
<thead>
<tr>
<th>Setting</th>
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<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td>4-56</td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AUTO MEMORY</td>
<td></td>
</tr>
</tbody>
</table>

### STATION NUMBER CHECK

<table>
<thead>
<tr>
<th>Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4-60</td>
</tr>
</tbody>
</table>

### F3-ONE TOUCH BUTTON MODE SELECTION

- "1": for Programmable feature
- "2": for DND/FWD/Account code

<table>
<thead>
<tr>
<th>Setting</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4-60</td>
</tr>
</tbody>
</table>

### STATION PROGRAM CLEAR

- Following programs can be reset to the default data. Auto CO Hunting, Automatic Answering Selection, Intercom Voice Alerting Mode, CO Line Ringing Selection, Call Waiting Tone Selection, F3-One Touch Button Mode Selection.

1-21
### INSTALLATION

#### Installation

**Cautions**

1. Avoid installing in the following places. (Doing so may result in malfunction, noise, or discoloration.)
2. In direct sunlight and hot, cold, or humid places. (Temperature range: 32°F-104°F)
3. Sulfuric gases produced in areas where there are thermal springs, etc. may damage the equipment or contacts.
4. Places in which shocks or vibrations are frequent or strong.
5. Dusty places, or places where water or oil may come into contact with the unit.
6. Near high-frequency generating devices such as sewing machines or electric welders.
7. On or near computers, telexes, or other office equipment, as well as microwave ovens or air conditioners. (It is preferable not to be installed in the same room with the above equipment.)
8. Install at least 6 feet from televisions. (both the electronic modular switching system and EMSS proprietary telephones)
9. Do not obstruct area around the electronic modular switching system. (for reasons of maintenance and inspection—be especially careful to allow space for cooling above and at the sides of the electronic modular switching system)

#### Wiring

**Cautions**

1. Do not wire the telephone cable in parallel with an AC power source, computer, telex, etc. If the cables are run near those wires, shield the cables with metal tubing or use shielded cables and ground the shields.
2. If cables are run on the floor, use protectors or the like to protect the wires where they may be stepped on. Avoid wiring under carpets.
3. Avoid using the same 120 VAC power supply outlet for computers, telexes, and other office equipment. Otherwise, the KX-T123210's system operation may be interrupted by the induction noise from such equipments.
IMPORTANT!!
Surely connect the frame of the KX-T123210 to earth ground properly to protect the unit.

Frame Ground Connection

In most continental United States, the ground provided by the “third wire ground” at the commercial power outlet will be satisfactory however, in a small percentage this ground may be installed incorrectly. Therefore, the following test procedure should be performed.

Test Procedure

1. Obtain a suitable voltmeter and set it for a possible reading of up to 250 VAC.

2. Connect the meter probes between the two main AC voltage points on the wall outlet. The reading obtained should be 108-132 VAC.

3. Move one of the meter probes to the 3rd prong terminal (GND). Either the same reading or a reading of 0 volt should be obtained.

4. If a reading of 0 volt at one terminal and a reading of 108-132 VAC at the other terminal is not obtained, the outlet is not properly grounded. This condition should be corrected by a qualified electrician (per article 250 of the National Electrical Code).

5. If a reading of 0 volt at one terminal and a reading of 108-132 VAC at the other terminal is obtained, then set the meter to the “OHMS/RX1” scale, place one probe at the GND Terminal and the other probe at the terminal which gave a reading of 0 volt.

A reading of less than 1 ohm should be obtained. If the reading is not obtained the outlet is not adequately grounded, see qualified electrician.
Wall Mounting

The wall where the KX-T123210 is to be mounted must be able to support the weight of the KX-T123210. If screws other than the ones supplied are used, use the same-sized diameter screws as the enclosed ones.

To Wall Mount:
1. Place the templet (included) on the wall to mark the 3 screw positions.

2. Install the 3 screws into the wall.

3. Hook the unit on the screw heads.

To Mount on Concrete or Mortar Walls:
1. Place the templet (included) on the wall to mark the 3 screw positions.

2. Drill 3 holes and drive the anchor plugs (included) with a hammer, flush to the wall.

3. Install the 3 screws into the anchor plugs.

4. Hook the unit on the screw heads.
To remove the front cover from unit

1. Unscrew the front cover of the unit. There are four screws.
2. Open the front cover in the direction of arrow @

Rechargeable Battery Installation

When a power failure take place, there is no memory loss except for the camp-on, saved number redial, the last number redial, Call park and Message waiting during power failure, memory is protected by 21 day rechargeable battery.

1. Connect the battery (included) as shown (Fig.1)
2. Install the battery into the battery compartment. (Fig.2)
   • Replace the battery every 5 years with (P-01H-F2G1). To remove connector, depress the lock to release and slide (pull) apart connector. (Fig.3)
The Power Switch of the KX-T123210 must be off during wiring.
After all the wiring are completed, turn the Power Switch ON.
Mis-Wiring may cause the KX-T123210 to operate improperly.
Refer "During Installation" page 6-1 and "During Connection" page 6-2.
50 pin configuration and Color coding
(Refer page 2-11.)
Max. length and kind of wire
(Refer pages 2-8, 2-14 and 2-16)
Insertion of Option Card
(Refer page 2-9)
Connection of printer
(Refer page 2-18)
If an extension does not operate properly (for example: The LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830 does not display properly.), disconnect the telephone from the extension line and then connect again, or turn OFF the power switch of the KX-T123210 and then ON again.

This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
In areas of frequent electrical storms and/or power failures, we recommend for additional equipment protection, surge protectors such as TELESPIKE BLOK MODEL TSB (TRIPPE MFG. CO.), SPIKE BLOK MODEL SK6-0 (TRIPPE MFG. CO.), Super MAX™ (PANAMAX) or MP1 (ITW LINX).

Paging Speaker 1

Paging Speaker 2

- Avoid using the same AC outlet for office equipment and KX-T123210. Use dedicated AC outlet only.

AC Surge Protector

Battery Adaptor KX-A26

Car type batteries
- Consisting of two 12VDC (24VDC)
Central Office Line Connection (CO1 through 6)

- We recommend that telephone CO jack is used RJ11.

Insert the modular plug of the telephone line cord (2-conductor wiring) into the modular jack on the KX-T123210.

- Mis-connection may cause the KX-T123210 to operate improperly. See "During Installation" page 6-1 and "During Connection" page 6-2 before connecting.

View of TEL Jack (CO)
To connect jack number 1 through 8 and 9 through 16, insert connector to the KX-T123210 as shown right.

**Connector type**
50 pin (Amphenol 57JE series or the equivalent)

**Cable Pin Numbers to be connected**
See page 2-11.

- The max. length of the extension line cord (twisted cable) that connects the KX-T123210 and the extension is shown below.

<table>
<thead>
<tr>
<th>AWG</th>
<th>Max. Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>Under 460 feet</td>
</tr>
<tr>
<td>24</td>
<td>Under 750 feet</td>
</tr>
<tr>
<td>22</td>
<td>Under 1180 feet</td>
</tr>
<tr>
<td>26</td>
<td>Under 2290 feet</td>
</tr>
<tr>
<td>24</td>
<td>Under 3700 feet</td>
</tr>
<tr>
<td>22</td>
<td>Under 5900 feet</td>
</tr>
</tbody>
</table>

- If a telephone or answering machine with an A-A1 relay is connected to the KX-T123210, set the A-A1 relay switch of the telephone or answering machine to OFF.
- Mis-connection may cause the KX-T123210 to operate improperly.

See "During Installation" page 6-1 and "During Connection" page 6-2 before connecting.
Optional Cards Installation

1. To protect the printed circuit board from static electricity, first discharge any body static by touching the metal board.

2. Loosen the screws to remove the metal board.

3. The location of the optional cards for the KX-T123210 is shown in the following.

- Insert the optional card with holding a lever of the card into the KX-T123210 surely.
- Do not touch parts on the card.

**Optional Cards**

<table>
<thead>
<tr>
<th>Model No</th>
<th>Description</th>
<th>Reference Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expansion Cards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KX-T123270</td>
<td>This card adds 8 Extension's.</td>
<td>2-10</td>
</tr>
<tr>
<td>KX-T123271</td>
<td>This card adds 4 Extension's.</td>
<td>2-10</td>
</tr>
<tr>
<td>KX-T123280</td>
<td>This card adds 4 CO's.</td>
<td>2-12, 2-13</td>
</tr>
<tr>
<td>KX-T123281</td>
<td>This card adds 2 CO's.</td>
<td>2-12</td>
</tr>
<tr>
<td>DSS Console Card</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KX-T123241</td>
<td>The DSS Console requires the DSS Console Card for the operation.</td>
<td>2-14</td>
</tr>
</tbody>
</table>
Extension Connection (Jack number 17 through 24) Option

To add eight extensions (jack number 17 through 24), use the optional expansion card KX-T123270.
To add four extensions (jack number 17 through 20), use the optional expansion card KX-T123271.

1. Insert the expansion card KX-T123270 or KX-T123271 into the KX-T123210.
2. Insert connector to the KX-T123270 or KX-T123271 as shown at right.

Cable Pin Numbers to be connected
See page 2-11.

- Mis-connection may cause the KX-T123210 to operate improperly.
  See “During Installation” page 6-1 and “During Connection” page 6-2 before connecting.
To Extensions (jack number 17 through 20, or 17 through 24)

Connector type
50 pin (Amphenol 57JE series or the equivalent)

Expansion card
KX-T123270 ... jack number 17 through 24
KX-T123271 ... jack number 17 through 20

Extension Connection (Jack number 25 through 32) Option

To add eight extensions (jack number 25 through 32), use the optional expansion card KX-T123270.
To add four extensions (jack number 25 through 28), use the optional expansion card KX-T123271.

1. Insert the expansion card KX-T123270 or KX-T123271 into the KX-T123210.
2. Insert connector to the KX-T123270 or KX-T123271 as shown at right.

Cable Pin Numbers to be connected
See page 2-11.

- Mis-connection may cause the KX-T123210 to operate improperly.
  See “During Installation” page 6-1 and “During Connection” page 6-2 before connecting.
To Extensions (jack number 25 through 28, or 25 through 32)

Connector type
50 pin (Amphenol 57JE series or the equivalent)

Expansion card
KX-T123270 ... jack number 25 through 32
KX-T123271 ... jack number 25 through 28
Cable Pin Numbers to be connected

- Connection of the Proprietary Telephone
  - T: Tip
  - D1: Data1
  - R: Ring
  - D2: Data2

Connect the only pin number of "T" and "R".

<table>
<thead>
<tr>
<th>CONN. PIN</th>
<th>CABLE COLOR</th>
<th>CLIP NO.</th>
<th>LC-1</th>
<th>LC-2</th>
<th>LC-3</th>
<th>LC-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BLU-WHT</td>
<td>1</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>2</td>
<td>ORN-WHT</td>
<td>2</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>3</td>
<td>GRN-WHT</td>
<td>3</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>4</td>
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<td>4</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>5</td>
<td>ORN-WHT</td>
<td>5</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>6</td>
<td>GRN-WHT</td>
<td>6</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
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<tr>
<td>7</td>
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<td>7</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>8</td>
<td>ORN-WHT</td>
<td>8</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
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<td>D1</td>
<td>D2</td>
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<tr>
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<td>R</td>
<td>D1</td>
<td>D2</td>
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<tr>
<td>11</td>
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<td>11</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
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<tr>
<td>12</td>
<td>GRN-WHT</td>
<td>12</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>13</td>
<td>BLU-WHT</td>
<td>13</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>14</td>
<td>ORN-WHT</td>
<td>14</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
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<td>GRN-WHT</td>
<td>15</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>16</td>
<td>BLU-WHT</td>
<td>16</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>17</td>
<td>ORN-WHT</td>
<td>17</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
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<td>GRN-WHT</td>
<td>18</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>19</td>
<td>BLU-WHT</td>
<td>19</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
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<td>ORN-WHT</td>
<td>20</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>21</td>
<td>GRN-WHT</td>
<td>21</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>22</td>
<td>BLU-WHT</td>
<td>22</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>23</td>
<td>ORN-WHT</td>
<td>23</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>24</td>
<td>GRN-WHT</td>
<td>24</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>25</td>
<td>BLU-WHT</td>
<td>25</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>26</td>
<td>ORN-WHT</td>
<td>26</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>27</td>
<td>GRN-WHT</td>
<td>27</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>28</td>
<td>BLU-WHT</td>
<td>28</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>29</td>
<td>ORN-WHT</td>
<td>29</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
<tr>
<td>30</td>
<td>GRN-WHT</td>
<td>30</td>
<td>T</td>
<td>R</td>
<td>D1</td>
<td>D2</td>
</tr>
</tbody>
</table>

Station wiring (2-pair twisted cabling):

- Modular Jack
- Bridging Clips
- 50 Pin Connector

Modular Jack

[Diagram showing modular jack and line code connections]
Central Office Line Connection (CO 9 through 12) Option

To add four Central Office Lines (CO 9 through 12), use the optional expansion card KX-T123280.

1. Insert the expansion card KX-T123280 into the KX T123210.

2. Insert the modular plug of the telephone line cord (2-conductor wiring) into the modular jack on the KX-T123280.

- Mis-connection may cause the KX-T123210 to operate improperly. See “During Installation” page 6-1 and “During Connection” page 6-2 before connecting.

Central Office Line Connection (CO9 and 10) Option

To add two Central Office lines (CO9 and CO10), use the optional expansion card KX-T123281.

1. Insert the expansion card KX-T123281 into the KX-T123210.

2. Insert the modular plug of the telephone line cord (2-conductor wiring) into the modular jack on the KX-T123281.

- Mis-connection may cause the KX-T123210 to operate improperly. See “During Installation” page 6-1 and “During Connection” page 6-2 before connecting.

To Terminal Board or Modular Jacks from the Central Office (CO).
To add two Central Office lines (CO7 and 8), use the optional expansion card KX-T123280.

1. Remove the card which is inserted into groove marked "CO-2".

2. Insert the expansion card KX-T123280 into the KX-T123210.

3. Insert the modular plug of the telephone line cord (2-conductor wiring) into the modular jack on the KX-T123280.

- Mis-connection may cause the KX-T123210 to operate improperly. See "During Installation" page 6-1 and "During Connection" page 6-2 before connecting.
Optional DSS Console Connection (KX-T123240/KX-T61640)

To connect the optional DSS Console (KX-T123240 or KX-T61640), the optional DSS Console card (KX-T123241) is required.

The DSS Console (KX-T123240 or KX-T61640) needs a paired Telephone (EMSS Proprietary Telephone) for proper operation, because the DSS console cannot work by itself. The EMSS Proprietary Telephone (such as KX-T123220, KX-T123230, KX-T123250, KX-T61620, KX-T61631, KX-T61630, KX-T61650, KX-T30820, KX-T30830, KX-T30850) is required as the paired telephone for dialing, storing, etc.

Place the KX-T123240 or KX-T61640 and the paired telephone side by side on your desk.

1. Insert the DSS Console card (KX-T123241) into the KX-T123210.

2. Insert the modular plug of the console line cord (4-conductor wiring) into the modular jack on the KX-T123241.

Notes:
- Up to 2 KX-T123240's or KX-T61640's can be connected to the KX-T123210. Each console requires its own paired telephone.
- KX-T123240 or KX-T61640 can not be connected in pair with a standard telephone.
- The max. length of the console line cord (twisted cable) that connects the KX-T123210 and the DSS Console is shown below.

<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>Max. Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 AWG</td>
<td>Under 460 feet</td>
</tr>
<tr>
<td>24 AWG</td>
<td>Under 750 feet</td>
</tr>
<tr>
<td>22 AWG</td>
<td>Under 1180 feet</td>
</tr>
</tbody>
</table>

When using the KX-T123240 or KX-T61640, program must be done. Refer to "Paired Telephone Assignment for DSS Console" page 3-10.
Optional Doorphone Connection (KX-T30865)

For installing the doorphone, use the Optional Doorphone Adaptor (Use the KX-T30860D only).

**Installation of the doorphone**

1. Loosen the screw to separate the doorphone into 2 halves.

2. Install the lower case to the wall with 2 screws.
   - 2 Kinds of screws are included. Please choose according to your wall type. See the followings.
   - [Diagram showing screw types and wall fixings]

3. Connect the wires from the terminal box to the screws located in the upper case to the terminal box (See page 2-16)

4. Secure both halves together and re-install the screw.

**Installation of the Doorphone Adaptor**

How to install the Doorphone Adaptor into the KX-T123210.

1. Connect a 4-conductor modular connector to the doorphone adaptor.

   [Diagram showing doorphone adaptor (KX-T30860D) and 4-conductor wiring]

2. Install the doorphone adaptor into the adaptor compartment.

3. After drawing a CPU Card, insert the adaptor connector into connector on the CPU Card (circuit board)

   [Diagram showing CPU Card, Adaptor Connector, and Connector]
Doorphone Wiring

(A) Connect the doorphone adaptor to the terminal box using a 4-conductor modular connector.
(B) Connect the wires of doorphone 1 to the red and green screws of the terminal box.
(C) Connect the wires of doorphone 2 to the yellow and black screws of the terminal box.

- The max. length of the telephone line cord (twisted cable) that connects the KX-T123210 and the doorphone (KX-T30865) is shown below.

- 26 AWG: Under 230 feet
- 24 AWG: Under 370 feet
- 22 AWG: Under 590 feet
Polarity Sensitive Telephone Connection

If the telephone you are using with the KX-T123210 is polarity sensitive.

1. Connect all extension wiring to the KX-T123210.

2. Confirm that dialing can be done from all the extensions using a tone telephone.

3. If a dialing can not be done, the polarity between the extension and the KX-T123210 must be reversed.

4. Set the Power Switch on the KX-T123210 to the OFF position.

5. Connect all Central Office (CO) Lines.

6. Confirm that dialing can be done on the following extensions using a tone telephone.
   - Extension of jack number 1--CO1
   - Extension of jack number 2--CO2
   - Extension of jack number 9--CO5
   - Extension of jack number 10--CO6
   - Extension of jack number 17--CO9
   - Extension of jack number 18--CO10

7. If dialing can not be done, the polarity between the KX-T123210 and the Central Office Line must be reversed.

8. If any extension is changed or replaced, repeat these procedures (from step 1 through step 7).

Battery Connection

Car type batteries which are customer supplied is available as a back up power supply to the KX-T123210 to operator all the features in the event of power failure.

For connecting car type batteries, use the Optional Battery Adaptor KX-A26.

1. Connect the Battery Adaptor KX-A26 to car type batteries.

2. Connect the Battery Adaptor KX-A26 to the Battery Backup Connector of the KX-T123210.

   - Consisting of two 12 VDC (24 VDC)
   - 16 amp / hour maximum rating
Make cables so that the printer will be connected to the KX-T123210 as shown in the chart. Cables must be shielded and the maximum length is 6.5 feet.

Connection Chart:

<table>
<thead>
<tr>
<th>KX-T123210 RS-232C</th>
<th>Printer RS-232C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Circuit Type (EIA)</strong></td>
<td><strong>Signal Name</strong></td>
</tr>
<tr>
<td>AA</td>
<td>FG</td>
</tr>
<tr>
<td>BA</td>
<td>TXD</td>
</tr>
<tr>
<td>BB</td>
<td>RXD</td>
</tr>
<tr>
<td>CB</td>
<td>CTS</td>
</tr>
<tr>
<td>CC</td>
<td>DSR</td>
</tr>
<tr>
<td>AB</td>
<td>SG</td>
</tr>
<tr>
<td>CD</td>
<td>DTR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Circuit Type (EIA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FG</td>
<td>AA</td>
</tr>
<tr>
<td>3</td>
<td>RXD</td>
<td>BB</td>
</tr>
<tr>
<td>2</td>
<td>TXD</td>
<td>BA</td>
</tr>
<tr>
<td>20</td>
<td>DTR</td>
<td>CD</td>
</tr>
<tr>
<td>5</td>
<td>CTS</td>
<td>CB</td>
</tr>
<tr>
<td>6</td>
<td>DSR</td>
<td>CC</td>
</tr>
<tr>
<td>8</td>
<td>DCD</td>
<td>CF</td>
</tr>
</tbody>
</table>

- Panasonic data terminal:
  KX-D4910N, KX-D4911, KX-D4920, KX-D4985, etc.

  If you connect this unit to a Panasonic Data Terminal, the Communication Parameter Transmit XON / XOFF on the Data Terminal must be set to the "YES" position.
  For further details, see the Operating Instructions of the Data Terminal.

When using special accessories such as cable, the user should use those specified in this installation manual to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules.

The pin configuration of EIA (RS-232C) connector is as follows.

<table>
<thead>
<tr>
<th>Pin Number</th>
<th>Signal Name</th>
<th>Circuit Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FG</td>
<td>EIA 101</td>
</tr>
<tr>
<td>2</td>
<td>TXD</td>
<td>CCITT 103</td>
</tr>
<tr>
<td>3</td>
<td>RXD</td>
<td>EIA 104</td>
</tr>
<tr>
<td>4</td>
<td>RTS</td>
<td>CCITT 105</td>
</tr>
<tr>
<td>5</td>
<td>CTS</td>
<td>EIA 106</td>
</tr>
<tr>
<td>6</td>
<td>DSR</td>
<td>CCITT 107</td>
</tr>
<tr>
<td>7</td>
<td>SG</td>
<td>EIA 102</td>
</tr>
<tr>
<td>8</td>
<td>DCD</td>
<td>CCITT 109</td>
</tr>
<tr>
<td>20</td>
<td>DTR</td>
<td>EIA 108</td>
</tr>
</tbody>
</table>

2-18
EIA SIGNALS:

Frame Ground (FG);
Connects to the unit frame and the earth ground conductor of the AC power cord.

Transmitted Data (TXD); (output)
Conveys signals from the unit to the printer. A “Mark” condition is held unless data or BREAK signals are being transmitted.

Received Data (RXD); (input)
Conveys signals from the printer.

Request To Send (RTS); (output)
This lead is held ON whenever DSR is ON.

Clear To Send (CTS); (input)
An ON condition of circuit CTS indicates that the printer is ready to receive data from the unit. The unit does not attempt to transfer data or receive data when circuit CTS is OFF.

Data Set Ready (DSR); (input)
An On condition of circuit DSR indicates the printer is ready. Circuit DSR ON does not indicate that communication has been established with the printer.

Signal Ground (SG);
Connects to the DC ground of the unit for all interface signal.

Data Terminal Ready (DTR); (output)
This signal line is turned ON by the unit to indicate that it is ON LINE. Circuit DTR ON does not indicate that communication has been established with the printer. It is switched OFF when the unit is OFF LINE.

Data Carrier Detect (DCD); (input)
The ON condition is an indication to data terminal (DTE) that the carrier signal is being received.

1. If the Panasonic printer which is used has a (KX-P11D or KX-P17) board and is connected to the KX-T123210, set the communication parameters below.

<table>
<thead>
<tr>
<th></th>
<th>KX-T123210</th>
<th>KX-P11D</th>
<th>KX-P17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Word length</strong></td>
<td>7 bit (default)</td>
<td>SW1-1 ON</td>
<td>SW1-4 ON</td>
</tr>
<tr>
<td><strong>Parity</strong></td>
<td>Program to “EVEN” (See page 3-32)</td>
<td>SW1-2 ON</td>
<td>SW1-5 OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SW1-3 ON</td>
<td>SW1-6 OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SW1-5 ON</td>
<td>SW1-7 OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SW1-6 OFF</td>
<td>SW1-8 OFF</td>
</tr>
<tr>
<td><strong>Baud Rate</strong></td>
<td>1200B (default)</td>
<td>SW1-7 ON</td>
<td>SW1-3 ON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SW1-8 OFF</td>
<td>SW1-8 ON</td>
</tr>
<tr>
<td><strong>Protocol</strong></td>
<td>XON / XOFF mode only</td>
<td>SW2-8 OFF</td>
<td>SW1-8 ON</td>
</tr>
</tbody>
</table>

2. If the Panasonic data terminal is a KX-D4985 or KX-D4920 and is connected to the KX-T123210, the default value of communication parameter is the same as that of the KX-T123210.
If the KX-D4910D is connected to the KX-T123210, set the baud rate of the KX-D4910D to 1200 baud, the other default value is the same as that of the KX-T123210.
Paging Equipment

Speaker
Amplifier
Paging equipment 1
Use an RCA connector.
- Output impedance: 600Ω
Use shielded cable.
Speaker
Amplifier
Paging equipment 2

External Music Source

Use a two-conductor plug
(9/64 inch in diameter)
- Input impedance 5kΩ
- Input Level -10dBm
Please use a cord that has an internal resistance of 10Ω
External Music Source Adjust the sound level of the music on hold with the Volume control.
EXT MUSIC Jack

2 20
PROGRAMMING

To activate this system, the requirements from telephone company and the customer must be programmed once the Power Switch has been turned on.

Programming Instructions

1. At extension connected to jack number 01: All system programming changes (example: system clear, toll restriction, system speed dialing entry…) are done through extension connected to jack number 01.

   ● Extension connected to jack number 01 must always be a Panasonic model, KX-T123230.

2. System Program Switch setting:
   The System Program Switch located on the KX-T123210 must be set to the “PITS” (Proprietary Integrated Telephone System) position while making program changes. After all programming changes are completed, return the program switch to the “SET” position.

3. Overlay:
   This overlay is used for programming the system and the program function names are inscribed on this card. Refer to page 3-2.

4. Before system programming, operate the system clear to set to the default data of the program. See page 3-78.

   System Clear:
   ● Set the System Program Switch of the KX-T123210 to the “PITS” position.

   1. Dial (99).
      “System Clear” will be displayed.
   2. Press the NEXT button.
   3. Repeat pressing the SELECT button until the “Menu: All Para” is displayed.

4. Press the MEMORY button to clear system.

5. To return to the initial program mode, press the END button.

   ● The following parameters are preset as the default data.
     System parameters
     CO parameters
     Extension parameters
     DSS parameters
     Speed call
When the System Program Switch on the KX-T123210 is set to the “PITS” position, the operation of the KX-T123230 connected to jack number 01 will change as follows.
Example of Programming

1. Turn the Power Switch to ON.

2. Set the System Program Switch to "PITS" position. The LCD on the KX-T123230 will show "SYS-PGM NO ?-I".
   - Be sure the handset of the extension connected to jack number 01 is in the cradle and the speakerphone button off.

3. To program automatic line access number 9 and the phone number 987-654-3210 into speed access code 00. (Refer to page 3-5.)

| KX-T123230 at extension connected to jack number 01. (Extension connected to jack number 01 must be a KX-T123230.) |
|---|---|
| 1. Dial (01) or press the Auto button. | Display Speed Dialing |
| 2. Press the NEXT button. | Speed NO? → |
| 3. Dial (00) or press the NEXT button. | • If nothing is stored in access code "00", 00: Not Stored • If already stored the automatic line access number 9 and the phone number 123-456-7890, 00: 9-123-456-789 |
| 4. ① Dial "9". ② Press "-" button. ③ Dial "987". ④ Press "-" button. ⑤ Dial "654". ⑥ Press "-" button. ⑦ Dial "3210". | 00: -987-654-3210 |
| 5. Press the MEMORY button. | 00: -987-654-3210 |
| 6. • To program the next access code, press the NEXT button. • To program a desired access code, press the SELECT button and dial speed access code. | |
| 7. Repeat steps 4 to 6. | |
| 8. To return to the initial program mode, press the END button. | SYS-PGM NO ?-I |

4. Return the System Program Switch to "SET" position.
   - To make program change, start from the beginning.

While programming if a mistake is made,

1. Press the "END" button.

2. Start programming procedure from the beginning.

• You will hear a beep after pressing the MEMORY button.

• The MEMORY indicator light will go on when the MEMORY button is pressed, and then the Indicator light will go out when the NEXT or PREV button is pressed.
Description
Entry of the current day, date and time.

Programming

1. Dial(00). “Day/Time Set” will be displayed.
2. Press the NEXT button. “87Jan.1 THU” will be displayed and “87” will blink.
3. Enter the year (last 2 digits) using the dialing button.
4. Press the button and then repeat pressing the SELECT button until the desired month is displayed.
5. Press the button and then enter the day with 1 or 2 digits.
6. Press the button and then repeat pressing the SELECT button until the desired day of the week is displayed.
7. Press the button. “12:00 AM” will be displayed.
8. Enter the hour with 1 or 2 digits.
9. Press the button and then enter the minute with 2 digits.
10. Press the button and then repeat pressing the SELECT button until the desired AM/PM is displayed.
11. Press the MEMORY button.
12. To return to the initial program mode, press the END button.

Condition

- If button is pressed, the display will return to the previous sequence in the programming step.
- Instantly after pressing the MEMORY button, the new time will start. However, the LCD of extension connected to jack number 01 will display the new time only after the System Program Switch is set to “SET”.

00 NEXT AB → SELECT → CD → SELECT → EF → GH → SELECT → MEMORY → END
System Speed Dialing Entry

**Description**
100 system phone numbers can be stored with each number capable of storing 32 digits and may be accessed from any extension.

Pushing the "*", "#", "PAUSE", "-", "FLASH" or "ICM (Secret)" button counts as 1 digit.

Refer to "Speed Dialing" on page 4-3.

**Programming**
1. Dial (01) or press the AUTO button.
   "Speed Dialing" will be displayed.
2. Press the NEXT button.
   "Speed NO?—" will be displayed.
3. Dial (00 through 99) or press the NEXT button, for speed access code entry.
   **Example:**
   When dialing (00) or pressing the NEXT button.
   - The LCD will show "00:Not Stored" when nothing is stored in speed access code "00". When the automatic line access number 9 and the phone number 123 - 456 - 7890 are stored, "00: 9- 123- 456- 7890" will be displayed.

4. Enter automatic line access number or trunk group number.
   See page 4-2, regarding automatic selection.
   See page 3-46 and 4-3, regarding trunk group.
   9 : automatic line access number
   81 : access number of Trunk Group 1
   82 : access number of Trunk Group 2
   83 : access number of Trunk Group 3
   84 : access number of Trunk Group 4
   85 : access number of Trunk Group 5
   86 : access number of Trunk Group 6
   87 : access number of Trunk Group 7
   88 : access number of Trunk Group 8

5. Enter the phone number.
   - You may enter punctuations during a phone number.
   - To erase a wrong entry, press the CLEAR button.
   - When you don't want to display the dialed phone number on the LCD in speed dialing, press the ICM (SECRET) button before and after dialing the phone number that you want to keep secret. Do not press the ICM button before line access number (9 or 81 through 88) and account code.

   **Example:**
   9-123- [ICM] 456 [ICM]
   press the ICM button
   The display shows as follows when programming.
   01 : 9-123 [456]
   The display shows as follows when dialing.
   -123---
6. Press the MEMORY button.
   - The memory indicator will be lit.

7. To advance to the next speed access code, press the NEXT button.
   - To return to the previous speed access code, press the PREV button.
   - To go to the desired speed access code, press the SELECT button and then dial the speed access code.

8. Repeat steps 4 to 7, to program the other phone numbers.

9. To return to the initial program mode, press the END button.

**To change**
Repeat steps 1 to 9.

**To erase after programming**
1. Dial (01) or press the AUTO button.
   “Speed Dialing” will be displayed.

2. Press the NEXT button.
   “Speed NO ?" will be displayed.

3. Dial (00 through 99) or press the NEXT button, for speed access code entry.
   The speed access code and the phone number will be displayed.

4. Press the CLEAR button.

5. Press the MEMORY button.

6. To advance to the next speed access code, press the NEXT button.
   - To return to the previous speed access code, press the PREV button.
   - To go to the desired speed access code, press the SELECT button and then dial the speed access code.

7. Repeat steps 4 to 6, to erase the programmed other phone number.

8. To return to the initial program mode, press the END button.

**Conditions**
- Use the "→", or "←" button for scrolling the display.
- Automatic line access number 9 or trunk group access number (81 through 88) should be stored.
- When dialing, the pause is automatically entered after automatic line access number 9 or trunk group access number (81 through 88) has been dialing.
- Continuous use of speed dialing is possible.

**Example:**

```
AUTO 01 AUTO 02
```

In this case, speed access code “02” should not include the automatic line access number or trunk group access number.

- When dialing, the dialed number will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830.
- The limit of the LCD is 16 characters but will scroll all numbers stored.
- To erase all entries, refer to “System Data Clear” on page 3-78.

There is a blank phone number directory on page 7-1.
Examples

1) To enter trunk group access number 81 and telephone number 201-392-4669 into speed access code 00.

\[
\text{(01 NEXT 00 81 201-392-4669 MEMORY END)}
\]

2) To enter automatic line access number 9, account code 1234 and telephone number 201-392-4669 into speed access code 02.

\[
\text{(01 NEXT 02 9 * * 1234 201-392-4669 MEMORY END)}
\]

- Refer to “Account code Input mode” page 3-70 and “Account code” page 4-39.

3) To access MCI

\[
\text{(01 NEXT 01 9 123-4567 PAUSE PAUSE 9876 201-348-7000 MEMORY END)}
\]

4) To access ITT

\[
\text{(01 NEXT 02 81 765-4321 PAUSE PAUSE 201-348-7000 6789 MEMORY END)}
\]

When required to change the dialing mode from the pulse mode to the tone mode. (See page 4-45)
## Extension Number Assignment

### Description

Enables programming of a 3-digit extension number (100 through 199) for each extension phone. This provides the freedom to develop a logical extension numbering system by department or by building floor as desired.

### Programming

1. Dial (02).
   "Extension NO Set" will be displayed.

2. Press the NEXT button.
   "Jack NO ? +" will be displayed.

3. Press the NEXT button or dial the Jack number (01 through 32).
   "Jack 01 : EXT 101" will be displayed and "101" will blink.

4. Dial the extension number which is set newly (100 through 199).
   - When dialing (150), the LCD will show "Jack 01 : EXT 150" will be displayed.
   - To erase a wrong entry, press the CLEAR button.

5. Press the MEMORY button.

6. To advance to the next jack number, press the NEXT button.
   - To return to the previous jack number, press the PREV button.
   - To go to the desired jack number, press the SELECT button and then dial the jack number.

7. Repeat steps 4 to 6, to program the extension number on the other jack number.

8. To return to the initial program mode, press the END button.
   - The LCD will show the initial program mode, "SYS-PGM NO ? +".

### Conditions

- The extension number has been already programmed can not be entered.
  In case programmed extension number is the same as what was previously stored, when the MEMORY button is pressed, three beeps will be heard.
- When the extension number 125 have been already assigned to the jack number 25, for programming to assign the extension number 125 to the jack number 02, after programming to assign the other extension number (100 through 199) to the jack number 25, program to assign the extension number 125 to the jack number 02.

### Example:

<table>
<thead>
<tr>
<th>Jack number</th>
<th>Extension number</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>170</td>
</tr>
<tr>
<td>30</td>
<td>180</td>
</tr>
</tbody>
</table>

### Programming Table

See page 7-3.
Operator Assignment

until the desired operator number (1 or 2) appears

AB = 01 : to assign extension (Jack no. 01) for Operator use
32 : to assign extension (Jack no. 32) for Operator use

default — Nothing is stored

03 NEXT NEXT AB MEMORY END

Description

Up to 2 extension numbers can be selected as operator extensions for any extensions.
The Message Waiting (on page 4-36) feature can be used by the extension number assigned as the operator. Also, 01 can be dialed to call operator 1, and 02 can be dialed to call operator 2. "CO Direct In Line Assignment (on page 3-54)" can be used to program all incoming calls to be answered by the operator.

Programming

1. Dial (03).
   "Operator Ext" will be displayed.
2. Press the NEXT button.
   "Operate NO?->" will be displayed.
3. Press the NEXT button.
   "OPT 1 : Disable" will be displayed and
   "Disable" will blink.
4. Dial the jack number which is set the operator 1.
   • When you dial (01),
     "OPT 1 : Jack-01" will be displayed.
5. Press the MEMORY button.
The LCD will stop blinking.
6. Repeat steps 3 to 5, to program the jack number which is set the operator 2.
7. To return to the initial program mode, press the END button.

Conditions

To clear the jack number which is set operator, press the CLEAR button at step 4.

Programming Table

See page 7-3.
Paired Telephone Assignment for DSS Console

To activate an extension as a paired telephone for console 1
AB = 01 : extension (Jack number 01) ...... default
                [3 2] : extension (Jack number 32)

To activate an extension as a paired telephone for console 2
CD = 01 : extension (Jack number 01)
        02 : extension (Jack number 02) ...... default
                [3 2] : extension (Jack number 32)

04 NEXT NEXT AB MEMORY NEXT CD MEMORY END

Description
The extension number paired with the DSS Console (KX-T123240) must be assigned when the DSS Console is used. The jack number of the extension phone is programmed to identify the paired phone. Up to two DSS Consoles can be used for each 32 extension phones. When all in-coming calls on outside lines are set (using “CO Direct In Line Assignment” on page 3-54) to ring at the operator extension phone, assigning the DSS Console to the operator extension will make the operator’s job much easier.

Programming
1. Dial (04)
   “DSS Assign” will be displayed.
2. Press the NEXT button.
   “DSS NO ? → ” will be displayed.
3. Press the NEXT button.
   “DSS 1 : Jack - 01” will be displayed and “01” will blink.
4. Dial the jack number which is paired with the console 1.
5. Press the MEMORY button.
   The LCD will stop blinking.
   ● If console 2 is not connected, proceed to step 9.
6. Press the NEXT button.
   “DSS 2 : Jack - 02” will be displayed and “02” will blink.
7. Dial the jack number which is paired with the console 2.
8. Press the MEMORY button.
   The LCD will stop blinking.
9. To return to the initial program mode, press the END button.

Conditions
● Up to two DSS console can be connected.
● The DSS console can not be connected in pair with a standard telephone.

Example :
If Mr. Jay’s secretary has KX-T123230 at extension jack number 10 and is to use the DSS console (KX-T123240), the console should be connected to the modular jack (marked MJ1) of the DSS card (KX-T123241).
(Paired extension is jack number 10.)

If Mr. Brown’s secretary has KX-T123220 at extension jack number 20 and is to use the DSS console (KX-T123240), the console should be connected to the modular jack (marked MJ2) of the DSS card (KX-T123241).
(Paired extension is jack number 20.)

[04] NEXT NEXT 10 MEMORY
      NEXT 20 MEMORY END

Programming Table
See page 7-3.
**Automatic CO Hold Using DSS Button**

until the desired mode appears

<table>
<thead>
<tr>
<th>With Transfer-----default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Transfer</td>
</tr>
</tbody>
</table>

**05** NEXT SELECT MEMORY END

**Description**

Outside calls can be transferred to any extension manually.

- While an extension paired with the DSS Console having a conversation with outside calls, "With Transfer" mode allows you to transfer outside call by only pressing the DSS button of the DSS Console.

- While an extension paired with the DSS Console having a conversation with outside calls, "Without Transfer" mode allows you to transfer outside call by pressing the TRANSFER button and then DSS button of the DSS Console.

**Programming**

1. Dial (05).
   "DSS Mode" will be displayed.
2. Press the NEXT button.
   "With Transfer" will be displayed and blink.
3. Repeat pressing the SELECT button to alternate between "With Transfer" and "Without Transfer" to select the desired mode.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

**Programming Table**

See page 7-3.
Description

Allows Day/Night service to be selected manually or automatically.
In case of manual switching, refer to “Flexible Night Service” on page 4-37.
In case of automatic switching, set the “Starting Time (Day/Night Service mode)” on page 3-13.
The following features will be switched Day mode or Night mode.

- “Flexible Outward Dialing Assignment” on page 3-47.
- “Flexible Ringing Assignment” on page 3-49.
- “Delayed Ringing Assignment” on page 3-52.
- “CO Direct In Line Assignment” on page 3-54.
- “Service Class Assignment of Toll Restriction” on page 3-64.
- “Ringing Assignment from Doorphone” on page 3-75.

Programming

1. Dial (06).
   “Day/Night Mode” will be displayed.
2. Press the NEXT button.
   “Mode Change : Man” will be displayed and “Man” will blink.
3. Press the SELECT button to alternate between “Man” and “Auto” to select the desired mode.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Conditions

When the Switching of Service Mode (Day/Night Service Mode) is set to “Auto”, the present Day/Night Service mode will not change after you finish programming. To change the present mode, manual operation is required. After you selected the Starting time (Day/Night Service Mode) page 3-13, select the present Day/Night mode by “Flexible Night Service” on page 4-37.

Programming Table

See page 7-4.
Starting Time:

AB = 1 : to start at 1 o'clock for day service
9 : to start at 9 o'clock for day service
12 : to start at 12 o'clock for day service

CD = 00 : to start at 0 minute
default
59 : to start at 59 minutes

until the desired mode appears
AM default
PM

EF = 1 : to start at 1 o'clock for night service
5 : to start at 5 o'clock for night service
default
12 : to start at 12 o'clock for night service

GH = 00 : to start at 0 minute
default
59 : to start at 59 minutes

until the desired mode appears
PM default
AM

07 NEXT AB -> CD -> SELECT MEMORY NEXT EF -> GH -> SELECT MEMORY END
Description

If you select the automatic switching mode for day/night service, enter the starting time.
Refer to "Switching of Service Mode (Day/Night Service Mode)" on page 3-12.

Programming

1. Dial (07).
   "Day/Night Time" will be displayed.

2. Press the NEXT button.
   "Day: 9:00 AM" will be displayed as a default value and "9" will blink.

3. Enter the starting time for day service using 1 or 2 digits.

4. Press the " → " button.
   "00" will blink.

5. Enter the minutes using 2 digits.

6. Press the " → " button.
   "AM" will blink.

7. Press the SELECT button to alternate between "AM" and "PM" to select the correct setting.

8. Press the MEMORY button.
   The LCD will stop blinking.

9. Press the NEXT button.
   "Night: 5:00 PM" will be displayed as a default value and "5" will blink.

10. Enter the starting time for night service using 1 or 2 digits.

11. Press the " → " button.
    "00" will blink.

12. Enter the minutes using 2 digits.

13. Press the " → " button.
    "PM" will blink.

14. Press the SELECT button to alternate between "AM" and "PM" to select the correct setting.

15. Press the MEMORY button.
    The LCD will stop blinking.

16. To return to the initial program mode, press the END button.

Conditions

- If the NEXT button is pressed at step 3 through 7, the display will advance to the "Night Time input" mode (step 9). The operations of step 3 through 7 will not be stored.
- If the PREV button is pressed at step 10 through 14, the display will return to the "day time input" mode (step 2). The operations of step 10 through 14 will not be stored.

Example:

8:30 AM  → starting time for day plan
6:30 PM  → starting time for night plan

Programming Table

See page 7-4.
Call Hunting

**Description**

Enables programming to automatically locate an idle extension within the same extension group as the dialed extension when the dialed extension number is busy. Call Hunting is set by group units. "Extension Group Assignment" (on page 3-63) is used to specify which extensions belong to each group.

**Programming**

1. Dial (08). "Hunting Group" will be displayed.

2. Press the NEXT button. "Group NO ? ➔ " will be displayed.

3. Press the NEXT button or dial the extension group number (1 through 8). "Group 1 : Disable" will be displayed and "Disable" will blink.

4. Press the SELECT button to alternate between "Disable" and "Enable".

5. Press the MEMORY button. The LCD will stop blinking.

6. To advance to the next extension group number, press the NEXT button.
   - To return to the previous extension group number, press the PREV button.
   - To go to the desired extension group number, press the SELECT button and then dial the extension group number.

7. Repeat steps 4 to 6, to program the assignment of the other hunting groups.

8. To return to the initial program mode, press the END button.

**Conditions**

- When you dial "w" instead of pressing the NEXT button at step 3, in case all of 8 groups have been programmed to "Disable", "CO *: Disable" will be displayed.

- In case each of 8 groups has been programmed either "Disable" or "Enable", "CO *: Confused" will be displayed.

**Programming Table**

See page 7-4.
until the desired extension group number (1 through 8) appears.

until the desired hunting type appears

- Terminate : searching for larger jack numbers upward ...... default (all 8 groups)
- Circular : circular searching for other numbers

A=B : to assign the same of all 8 extension groups
1 : extension group 1
8 : extension group 8

Description

Specifies the order in which idle extensions are searched when "Call Hunting" is used. The "Terminate Mode" searches for idle extensions with a higher order extension than the jack number of the dialed extension, and terminates when the search reaches the highest jack number of extension in the same group. If all higher order numbers are busy, a busy tone will be heard.

The "Circular Mode" searches for any idle extension in the same group. If all extensions are busy, a busy tone will be heard.

The "Setting (Call Hunting)" on page 3-15 must be set to "Enable" mode for Hunting Type to be used.

Programming

1. Dial (09).
   "Hunting Type" will be displayed.

2. Press the NEXT button.
   "Group NO ? → " will be displayed.

3. Press the NEXT button or dial the extension group number (1 through 8).
   "Group 1 : Terminate" will be displayed and "Terminate" will blink.

4. Press the SELECT button to alternate between "Terminate" and "Circular".

5. Press the MEMORY button.
   The LCD will stop blinking.

6. ● To advance to the next extension group number, press the NEXT button.
   ● To return to the previous extension group number, press the PREV button.
   ● To go to the desired extension group number, press the SELECT button and then dial the extension group number.

7. Repeat steps 4 to 6, to program the hunting Type of the other groups.

8. To return to the initial program mode, press the END button.

Programming Table

See page 7-4.
The selective use of this feature permits restricted dialing to specific stations. A Class of Service can be assigned to a particular station which prohibits or limits that station's dialing ability. The following are the available eight Classes of Service.

<table>
<thead>
<tr>
<th></th>
<th>Service Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1  2  3  4  5  6  7  8</td>
</tr>
<tr>
<td>operator calls</td>
<td>A  D  D  D  D  D  D  D</td>
</tr>
<tr>
<td>international calls</td>
<td>A  D  D  D  D  D  D  D</td>
</tr>
<tr>
<td>toll calls</td>
<td>A  A  E  D  D  D  D  D</td>
</tr>
<tr>
<td>local calls(charged)</td>
<td>A  A  A  A  F  D  D  D</td>
</tr>
<tr>
<td>local calls</td>
<td>A  A  A  A  A  A  G  D</td>
</tr>
</tbody>
</table>

A : Allow  
D : Deny  
E (Service Class 3) : Only area code selected can be dialed.  
F (Service Class 5) : Only Exchange code selected can be dialed.  
G (Service Class 7) : Only Exchange code selected cannot be dialed.

The following feature should be set.  
- "Area Type Selection" on page 3-18.  
- "CO Operator Call-Boundary Class" on page 3-19.  
- "Toll Restriction of Speed Dialing" on page 3-20.  
- "Area Code Entry For Class 3" on page 3-22.  
- "Exchange Code Entry For Class 5" on page 3-23.  
- "Service Class Assignment of Toll Restriction" on page 3-64.
Description

Area types specific to local telephone numbers can be selected for toll restrictions. There are three area types available as shown below.

**Type A**: Toll calls (long distance)  
Local calls  

<table>
<thead>
<tr>
<th>1</th>
<th>Area code</th>
<th>Exchange code</th>
<th>Subscriber number</th>
</tr>
</thead>
</table>

Type B: Toll calls (long distance)  
Local calls  

<table>
<thead>
<tr>
<th>Area code</th>
<th>Exchange code</th>
<th>Subscriber number</th>
</tr>
</thead>
</table>

Type C: Toll calls (long distance)  
Local calls (charge)  
Local calls  

<table>
<thead>
<tr>
<th>1</th>
<th>Exchange code</th>
<th>Subscriber number</th>
</tr>
</thead>
</table>

"Service Class Assignment of Toll Restriction" (on page 3-64) should be programmed. When area type B or C is selected, the selected Exchange Code must be entered using the “Exchange Code Selection” (on page 3-21) programming.

**Programming**

1. Dial (10).  
   “Area Type” will be displayed.

2. Press the NEXT button.  
   “Area Type - A” will be displayed and the “A” will blink.

3. Repeat pressing the SELECT button until the desired type (A, B, C) is displayed.

4. Press the MEMORY button.  
   The LCD will stop blinking.

5. To return to the initial program mode, press the END button.

**Programming Table**

See page 7-4.
Description

The exchange code and area code usually differ for local and non-local calls, but in some circumstances an area code may be the same as a local exchange code. These are important when Type B or Type C is selected with the "Area Type Selection" (on page 3-18) programming. After Type B or Type C is selected with the "Area Type Selection" (on page 3-18) programming, it is therefore necessary to register these Exchange Codes to enable dialing of these numbers.

Local call Exchange Codes when Type B is selected
Exchange code

```
00 00 00
```

"0" or "1"

Local call (charge) Exchange Codes when Type C is selected
Exchange code

```
1 0 0 0 0 0 0 0
```

"0" or "1"

A maximum 20 Exchange Codes can be registered.

Programming

1. Dial (13).
   "Ext. Local Code" will be displayed.
2. Press the NEXT button.
   "Local NO ? + " will be displayed.
3. Dial the memory code number (01 through 20) or press the NEXT button.
   **Example:**
   When dialing (01) or pressing the NEXT button.
   - The LCD will show "Local 01: ... " when nothing is stored in memory code number "01".
   - When area code 212 has been stored, "Local 01: 212" will be displayed.
4. Dial the local code, using 3 digits.
   - To erase a wrong entry, press the CLEAR button.
5. Press the MEMORY button.
   - The memory indicator will be lit.
6. To advance to the next memory code number, press the NEXT button.
   - To return to the previous memory code number, press the PREV button.
   - To go to the desired memory code number, press the SELECT button and then dial the memory code number.
7. Repeat steps 4 to 6.
8. To return to the initial program mode, press the END button.

Programming Table.
See page 7-5.
**Description**

For Service Class 3 (see "Toll Restriction" on page 3-17), up to 20 area codes can be selected for use in toll dialing.

All area codes except those entered will be denied.

All the extensions that are programmed for Service Class Selections 3 are assigned to the same area code selection plan.

**Programming**

1. Dial (14).
   "Cls-3 Area Code" will be displayed.

2. Press the NEXT button.
   "Area NO ? → " will be displayed.

3. Dial the memory number (01 through 20) or press the NEXT button.
   Example:
   When dialing (01) or pressing the NEXT button.
   - The LCD will show "Area-01 : ..." when nothing is stored in memory number "01".
   - When area code 212 has been stored, "Area 01 : 212" will be displayed.

4. Dial the area code, using 3 digits.
   - To erase a wrong entry, press the CLEAR button.

5. Press the MEMORY button.
   - The memory indicator will be lit.

6. To advance to the next memory number, press the NEXT button.
   - To return to the previous memory number, press the PREV button.
   - To go to the desired memory number, press the SELECT button and then dial the memory number.

7. Repeat steps 4 to 6.

8. To return to the initial program mode, press the END button.

**Programming Table.**

See page 7-5.
Description

“Toll Restriction”, if it is programmed, prohibits CO Operator Calls. However, the desired extensions can be permitted to call to CO Operator by programming a boundary number of service class. CO Operator Calls are allowed at all the extension from service class 1 to the same service class number as the programmed boundary number, but are prohibited at the other extensions.

Example: If Boundary Class 4 is set for all extension numbers for which service classes 1 to 4 have been assigned then CO operator calls are allowed, but extensions assigned service class 5 to 8 will be prohibited from placing CO operator calls. (See the table below.)

Programming

1. Dial (11).
   “Operator Class” will be displayed.
2. Press the NEXT button.
   “Boundary Class-1” will be displayed and “1” will blink.
3. Dial the boundary class number (1 through 8).
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Programming table

See page 7-4.

See “Service Class Assignment of Toll Restriction” on page 3-64.
Toll Restriction of Speed Dialing

Description
Through programming, Toll restrictions (service classes 1 through 8) set for each extension can be applied to speed dialing, too.
In the “Restriction” mode, Speed dialing is restricted by the Service Class.
In the “No Restriction” mode, Speed dialing is not restricted by the Service Class.

Programming Table
See page 7-5.

Programming
1. Dial (12).
   “Restrict of Speed” will be displayed.
2. Press the NEXT button.
   “Restriction” will be displayed and blink.
3. Press the SELECT button, to alternate between “Restriction” and “No Restriction” to select the desired mode.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.
**Description**

For Service Class 5 (See “Toll Restriction” on page 3-17), up to 20 exchange codes can be selected for use in local dialing (charged). All exchange codes except those entered will be denied. All extensions programmed for Service Class Selections 5 are assigned to the same exchange code selection plan.

**Programming**

1. Dial (15).
   “Cls-5 Local Code” will be displayed.

2. Press the NEXT button.
   “Local NO ? → ” will be displayed.

3. Dial the memory number (01 through 20) or press the NEXT button.

**Example:**
When dialing (01) or pressing the NEXT button.
- The LCD will show “Local 01 : …” when nothing is stored in memory number “01”.
- When exchange code 392 has been stored, “Local 01 : 392” will be displayed.

4. Dial the exchange code, using 3 digits.
   - To erase a wrong entry, press the CLEAR button.

5. Press the MEMORY button.
   - The memory indicator will be lit.

6. To advance to the next memory number, press the NEXT button.
   - To return to the previous memory number, press the PREV button.
   - To go to the desired memory number, press the SELECT button and then dial the memory number.

7. Repeat steps 4 to 6.

8. To return to the initial program mode, press the END button.

**Programming Table.**

See page 7-5.
**Exchange Code Entry for Class 7**

until the desired memory number (01 through 20) appears

**CDE** = exchange code with 3 digits
Nothing is stored default (all 20 memory numbers)

<table>
<thead>
<tr>
<th>16</th>
<th>NEXT</th>
<th>NEXT</th>
<th>CDE</th>
<th>MEMORY</th>
<th>END</th>
</tr>
</thead>
<tbody>
<tr>
<td>or</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>NEXT</td>
<td>AB</td>
<td>CDE</td>
<td>MEMORY</td>
<td>END</td>
</tr>
</tbody>
</table>

**AB=01**: memory number 01 for storage of exchange code

**20**: memory number 20 for storage of exchange code

---

**Description**

For Service Class 7 (See “Toll Restriction” on page 3-17), up to 20 exchange codes can be selected for use in local dialing.

Exchange codes programmed will be denied. All the extensions that are programmed for Service Class Selections 7 are assigned to the same exchange code selection plan.

**Programming**

1. Dial (16).
   “Cls-7 Local Code” will be displayed.

2. Press the NEXT button.
   “Local NO ? →” will be displayed.

3. Dial the memory number (01 through 20) or press the NEXT button.
   **Example:**
   - When dialing (01) or pressing the NEXT button.
   - The LCD will show “Local U1 : ...” when nothing is stored in memory number “01”.
   - When exchange code 392 has been stored, “Local 01 : 392” will be displayed.

4. Dial the exchange code, using 3 digits.
   • To erase a wrong entry, press the CLEAR button.

5. Press the MEMORY button.
   • The memory indicator will be lit.

6. To advance to the next memory number, press the NEXT button.
   • To return to the previous memory number, press the PREV button.
   • To go to the desired memory number, press the SELECT button and then dial the memory number.

7. Repeat steps 4 to 6.

8. To return to the initial program mode, press the END button.

**Programming Table.**

See page 7-6.
Hold Time Reminder

Description
An alarm tone indication will be heard at the holding extension to remind the user that he still has a call on hold.
The reminder will sound after 3 minutes but can be changed.
There are 9 choices ranging from (1) minute to (9).
An alarm tone is heard from the built-in speaker of the proprietary telephone and the handset receiver of the standard telephone.
See “List of Tones” on page 6-6.

Programming
1. Dial (17).
   “Auto Hold Alarm” will be displayed.
2. Press the NEXT button.
   “Time: 3 min” will be displayed and “3” will blink.
3. Dial the time number (1 through 9).
4. Press the MEMORY button.
The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Conditions
The hold time reminder is activated, even if the hold recall time set is programmed to “Disable”.

Example:

Programming Table
See page 7-6.
Hold Recall Time Set

Description

When the handset of the holding extension is replaced back on call, you may have the automatic hold recall after the desired time elapses. The hold recall time set can be removed or added at the customer's request.

Example:

1.5 minutes = 18 NEXT SELECT SELECT MEMORY END

Programming Table

See page 7-6.

Programming

1. Dial (18).
   "Hold Recall Time" will be displayed.

2. Press the NEXT button.
   "Time: 30 sec" will be displayed and "30 sec" will blink.

3. Repeat pressing the SELECT button until the desired time (30 sec, 1 min, 1.5 min, 2 min, Disable) is displayed.

4. Press the MEMORY button.
   The LCD will stop blinking.

5. To return to the initial program mode, press the END button.
Transfer Recall Time

until the desired mode appears

30sec. default
15sec.

19 NEXT SELECT MEMORY END

Description

If a call is transferred to an extension, and the other extension does not answer the transferred call within 30 seconds, the call will return to you. The time may be changed to 15 seconds. Refer to “Call Transfer-To Extension” on page 4-18.

Programming

1. Dial (19).
   “Transfer Recall” will be displayed.

2. Press NEXT button.
   “Time: 30 sec” will be displayed and the “30” will blink.

3. Press the SFI FCT button to alternate between “15 sec” and “30 sec” to select the desired mode.

4. Press the MEMORY button.
   The LCD will stop blinking.

5. To return to the initial program mode, press the END button.

Programming Table

See page 7-6.
Call Forwarding Starting Time

Description
Enables programming the call forwarding delayed start time (after 1, 2, 3, or 4 rings) in case of no receiving the call when the “Call Forwarding-Busy or No Answer” (on page 4-26) feature is set.

Programming Table
See page 7-6.

Programming
1. Dial (20).
   “Call FWD Delay” will be displayed.

2. Press the NEXT button.
   “3 rings delay” will be displayed and will blink.

3. Repeat pressing the SELECT button until the desired time is displayed.

4. Press the MEMORY button.
   The LCD will stop blinking.

5. To return to the initial program mode, press the END button.

until the desired time appears
1 ring delay
2 rings delay
3 rings delay ---- default
4 rings delay

20 NEXT SELECT MEMORY END
**Pickup Dial Delay Time**

<table>
<thead>
<tr>
<th>1sec</th>
<th>dials after 1 second</th>
</tr>
</thead>
<tbody>
<tr>
<td>2sec</td>
<td>dials after 2 seconds</td>
</tr>
<tr>
<td>3sec</td>
<td>dials after 3 seconds</td>
</tr>
<tr>
<td>4sec</td>
<td>dials after 4 seconds</td>
</tr>
</tbody>
</table>

until the desired time appears

**Description**

Enables programming of the pickup dial (on page 5-17) start time (the delay between picking up the handset and automatic dialing).

The default is 3 sec., which can be changed to 1, 2, or 4 sec.

**Programming**

1. Dial (21).
   “Pickup Dial Time” will be displayed.
2. Press the NEXT button.
   “PUD Time : 3sec” will be displayed and “3” will blink.
3. Repeat pressing the SELECT button until the desired time (1sec, 2sec, 3sec, 4sec) is displayed.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

**Programming Table**

See page 7-6.
CO-to-CO Duration Time Limit

Description
Enable limiting of the time any outside line can be used when "Call Transfer-To Outside Line" (on page 4-19) or "Call Forwarding-To Outside Line" (on page 4-28) is used to forward a outside call to an outside line.
The default time is 10 min., but this can be changed from 1 minute through 32 minutes.

Conditions
- To erase a wrong entry, press the CLEAR button.

Programming Table
See page 7-7.

Programming
1. Dial (22).
   "CO-CO Dur. Limit" will be displayed.
2. Press the NEXT button.
   "Time : 10 min" will be displayed and "10" will blink.
3. Enter the duration limit with 1 or 2 digits (1 through 32).
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.
Station Message Detail Recording (SMDR)

Description
SMDR is a cost saving feature that records on a printer a record of all incoming and outgoing calls. The following information is provided on the printout. The SMDR will print out the security code of the long distance service. (MCI, SPRINT etc.)

NOTE:
When plugging a printer into the KX-T123210 make sure that the printer power is off. Select the RS-232C Communication Parameters, SMDR Parameters, Incoming/Outgoing Call Selection for printing, Secret Speed Dial/One Touch Dial Printing, System Data Dump, Duration Time Count Start Mode and Account Code Input Mode for proper operation.

Example of print

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>EXT. CO</th>
<th>Dial Number</th>
<th>Duration</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/20/87</td>
<td>8:00AM</td>
<td>101</td>
<td>1-201-234-5678</td>
<td>00:00'30&quot;</td>
<td>0123</td>
</tr>
</tbody>
</table>

- When you have an incoming call, the printer will print <incoming>.
- When "=" appears in the Dial Number, the previous number of "=" indicates the line access number of the Host PBX (See page 3-45).
- When "=" appears in front of the Time, this means the time that the call is transferred.

- The following features should be set.
  - "RS-232C Communication Parameters" on page 3-32.
  - "SMDR Parameters" on page 3-35.
  - "Incoming/Outgoing Call Selection for printing" on page 3-36.
  - "Secret Speed Dial/One Touch Dial Printing" on page 3-36.
  - "System Data Dump" on page 3-37.
  - "Duration Time Count Start Mode" on page 3-40.
  - "Account Code Input Mode" on page 3-70.
(Carriage return for a new line)

until the desired code appears

\[
\begin{align*}
\text{CR+LF} & \quad \text{default} \\
\text{CR} & 
\end{align*}
\]

(Baud rate)

until the desired baud rate appears

\[
\begin{align*}
110B & \\
150B & \\
300B & \\
600B & \\
1200B & \quad \text{default} \\
2400B & \\
4800B & \\
9600B & 
\end{align*}
\]

(Word length)

until the desired length appears

\[
\begin{align*}
7\text{bits} & \quad \text{default} \\
8\text{bits} & 
\end{align*}
\]

(Parity)

until the desired mode appears

\[
\begin{align*}
\text{None} & \\
\text{Mark} & \quad \text{default} \\
\text{Space} & \\
\text{Even} & \\
\text{Odd} & 
\end{align*}
\]

(Stop bit length)

until the desired mode appears

\[
\begin{align*}
1\text{bit} & \quad \text{default} \\
2\text{bits} & 
\end{align*}
\]
Carriage return for a new line
A new line code indicates what type of code is needed for the print head on a printer to move the first character position on the next line.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR+LF</td>
<td>when &quot;CR+LF&quot; is required from a printer.</td>
</tr>
<tr>
<td>CR</td>
<td>when &quot;CR&quot; is required from a printer.</td>
</tr>
</tbody>
</table>

CR = Carriage Return
LF = Line Feed.

Baud rate
A baud rate code indicates the data transmission speed from the system to a printer.

<table>
<thead>
<tr>
<th>Baud Rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 B</td>
<td>when 110 baud is required.</td>
</tr>
<tr>
<td>150 B</td>
<td>when 150 baud is required.</td>
</tr>
<tr>
<td>300 B</td>
<td>when 300 baud is required.</td>
</tr>
<tr>
<td>600 B</td>
<td>when 600 baud is required.</td>
</tr>
<tr>
<td>1200 B</td>
<td>when 1200 baud is required.</td>
</tr>
<tr>
<td>2400 B</td>
<td>when 2400 baud is required.</td>
</tr>
<tr>
<td>4800 B</td>
<td>when 4800 baud is required.</td>
</tr>
<tr>
<td>9600 B</td>
<td>when 9600 baud is required.</td>
</tr>
</tbody>
</table>

Parity
A parity code indicates what type of parity is used to detect an error in a string of bits composing a character.

<table>
<thead>
<tr>
<th>Parity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>when an error checking function is not required from a printer.</td>
</tr>
<tr>
<td>Mark</td>
<td>when a Mark is required from a printer.</td>
</tr>
<tr>
<td>Space</td>
<td>when a Space is required from a printer.</td>
</tr>
<tr>
<td>Even</td>
<td>when an Even is required from a printer.</td>
</tr>
<tr>
<td>Odd</td>
<td>when an Odd is required from a printer.</td>
</tr>
</tbody>
</table>

Word length
A word length code indicates how many bits compose a character.

<table>
<thead>
<tr>
<th>Bits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>when 7 bits are required.</td>
</tr>
<tr>
<td>8</td>
<td>when 8 bits are required.</td>
</tr>
</tbody>
</table>

Stop bit length
A stop bit length code indicates the end of a bit string which composes a character.

<table>
<thead>
<tr>
<th>Bits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>when one bit is required for end detection.</td>
</tr>
<tr>
<td>2</td>
<td>when two bits are required for end detection.</td>
</tr>
</tbody>
</table>

The default value is the same as that of the Panasonic data terminal, KX-D4985, KX-D4910D, KX-D4911, KX-D4920, etc., except baud rate.
Programming

1. Dial (23). “RS232C Parameter” will be displayed.

2. Press the NEXT button. “Nl-Code : CR + LF” will be displayed and “CR + LF” will blink.

3. Press the SELECT button to alternate between “CR + LF” and “CR” to select the desired mode.

4. Press the MEMORY button. The LCD will stop blinking.

5. Press the NEXT button. “Baud Rate : 1200” will be displayed and the “1200” will blink.

6. Repeat pressing the SELECT button until the desired baud rate is displayed.

7. Press the MEMORY button. The LCD will stop blinking.

8. Press the NEXT button. “Word Length : 7bits” will be displayed and the “7bits” will blink.

9. Press the SELECT button to alternate between “7bits” and “8bits” to select the desired mode.

10. Press the MEMORY button. The LCD will stop blinking.

11. Press the NEXT button. “Parity : Mark” will be displayed and the “Mark” will blink.

12. Repeat pressing the SELECT button until the desired parity code is displayed.

13. Press the MEMORY button. The LCD will stop blinking.

14. Press the NEXT button. “Stop Bit : 1 bit” will be displayed and the “1 bit” will blink.

15. Press the SELECT button to alternate between “1 bit” and “2 bit” to select the desired mode.

16. Press the MEMORY button. The LCD will stop blinking.

17. To return to the initial program mode, press the END button.

Programming Table
See page 7-7.

Conditions
- To return to the previous mode, press the PREV button instead of the NEXT button.
- The following combinations are disallowed.

<table>
<thead>
<tr>
<th>parity</th>
<th>word length</th>
<th>stop bit length</th>
</tr>
</thead>
<tbody>
<tr>
<td>mark</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>space</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>space</td>
<td>8</td>
<td>2</td>
</tr>
</tbody>
</table>

If any of the above disallowed combinations are selected, Warning tone will be heard. Press the NEXT button and then repeat the procedure of programming.
The page length may be selected to position a title and data on each page.
A page length code indicates the number of lines per page.
A title will be printed on the first 3 lines of each page.

<table>
<thead>
<tr>
<th>Page length code</th>
<th>Lines per page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4 lines</td>
</tr>
<tr>
<td>99</td>
<td>99 lines</td>
</tr>
</tbody>
</table>

STANDARD CONTINUOUS PAPER (11 inches)

To print data, page length must be longer than skip perforation by 4 or more lines.

Skip perforation
The skip perforation code indicates the number of lines to be skipped. When the print head reaches the line designated, the print head moves to the top position of the next page.

**Programming**

1. Dial (24). "SMDR Parameter" will be displayed.
2. Press the NEXT button. "Page Length: 66" will be displayed and the "66" will blink.
3. Dial (4 through 99) for the page length entry.
4. Press the MEMORY button. The LCD will stop blinking.
5. Press the NEXT button. "Skip Perf: 0" will be displayed and the "0" will blink.
6. Dial (0 through 95) for the skip perforation code entry.
7. Press the MEMORY button. The LCD will stop blinking.
8. To return to the initial program mode, press the END button.

**Programming Table**
See page 7-8.
Incoming / Outgoing Call Selection for printing

- Outgoing: On ...... to print outgoing calls ...... default
- Outgoing: Off ...... to stop printing

until the desired mode appears

- Incoming: On ...... to print incoming calls ...... default
- Incoming: Off ...... to stop printing

until the desired mode appears

Description
It is possible to print either outgoing outside calls, incoming outside calls or both.

Programming
1. Dial (25).
   “Duration Log” will be displayed.
2. Press the NEXT button.
   “Outgoing : On” will be displayed and the “On” will blink.
3. Press the SELECT button to alternate between the “On” and “Off” to select the desired mode.
4. Press the MEMORY button.
The LCD will stop blinking.
5. Press the NEXT button.
   “Incoming : On” will be displayed and the “On” will blink.
6. Press the SELECT button to alternate between “On” and “Off” to select the desired mode.
7. Press the MEMORY button.
The LCD will stop blinking.
8. To return to the initial program mode, press the END button.

Programming Table
See page 7-8.

Secret Dial / One Touch Dial Printing

- No Printing ............default
- Printing

until the desired mode appears

Description
Enables programming to print out secret dialing numbers, even though these secret numbers are not displayed on the LCD during speed dialing (“System Speed Dialing Entry” on page 3-5) or one-touch dialing (on page 4-4) are used.

Programming
1. Dial (26)
   “Secret Printing” will be displayed.
2. Press the NEXT button.
   “No Printing” will be displayed and blink.
3. Press the SELECT button to alternate between “No Printing” and “Printing” to select the desired mode.
4. Press the MEMORY button.
The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Programming Table
See page 7-8.
System Data Dump

- Stop Output
  
  until the Stop Output appears

  27 NEXT SELECT MEMORY END

- All Parameters
- System Parameter
- Speed Call

  until desired data dump mode appears

  All Para default
  System Para
  CO Para
  EXT Para
  DSS Para
  Speed Call
  Stop Output

  27 NEXT SELECT MEMORY END

- CO Parameter (Outside)

  until the CO Para appears

  \[ AB = \star \] to assign the same on all 12 CO's
  \[ 0 1 \] : on CO 01
  \[ 1 2 \] : on CO 12

  27 NEXT SELECT MEMORY AB MEMORY END

- Extension Parameter

  until the EXT Para appears

  \[ AB = \star \] to assign the same on all 32 jack numbers
  \[ 0 1 \] : on jack number 01
  \[ 3 2 \] : on jack number 32

  27 NEXT SELECT MEMORY AB MEMORY END

- DSS Parameter

  until the DSS Para appears

  \[ A = \star \] to assign the same on all 2 DSS's
  \[ 1 \] : on DSS 1
  \[ 2 \] : on DSS 2

  27 NEXT SELECT MEMORY A MEMORY END
Description

Six separate printouts are available. They are (1) System parameters (2) CO parameters (3) Extension parameters (4) DSS parameters (5) Speed call (6) All parameters

System parameters

- Day / Night
- Trunk group assignments
- Extension number assignments
- Extension group assignments
- Hunting group
- Operator extension
- DSS console set
- DSS operation mode
- Doorphone receive extensions
- Area type
- Speed dial restriction
- Operator call class
- Area code of class-3
- Exchange code of class-5
- Exchange code of class-7
- Exchange code with exception
- SMDR (Station Message Detail Recording) parameters
- RS-232C parameters
- Hold recall time
- Auto hold alarm time
- Transfer recall time
- Call forwarding count
- Pickup dial waiting time
- External paging access tone
- Active DTMF receiver
- CO-CO Duration time limit

CO parameters

- Connection
- CO mode
- Dialing parameters
- Trunk group
- Host PBX access code
- Hookswitch flash time
- Disconnect time
- Pause time
- CPC detection
- Outgoing extension
- Incoming extension
- Delayed ringing extension

Extension parameters

- When the Proprietary telephone is connected at extension:
  - Telephone type
  - Extension name
  - Extension group
  - Toll restriction
  - Account code input mode
  - CO transfer mode
  - CO forward mode
  - Executive busy override
  - Executive busy override deny
  - DND override
  - Outgoing preference
  - Incoming preference
  - Line ringing assignment
  - Intercom call
  - BGM mode
  - Do not disturb
  - Call forwarding
  - Call waiting
  - Call waiting tone
  - Data line security
  - Dial Call pickup deny
  - Absent message
  - Auto answer mode
  - CO button assignments
  - DSS button assignments
  - Feature button assignment

<<DSS Console Items>>

- Console type
- DSS connection
- DSS button assignments
- Feature button assignments

- When the standard telephone is connected at extension:
  - Telephone type
  - Extension name
  - Extension group
  - Toll restriction
  - Account code input mode
  - CO transfer mode
  - CO forward mode
  - Executive busy override
  - Executive busy override deny
  - DND override
  - Outgoing preference
  - Incoming preference
Line ringing assignment
Intercom call
Do not disturb
Call forwarding
Call waiting
Call waiting tone
Data line security
Dial call pickup deny
Absent message
Pickup dial

DSS parameters
Console type
Pair extension
DSS connection
DSS button assignment
Feature button assignment

Speed call
Speed access codes (00 through 99) in which phone numbers are stored may be printed.

All parameters
System parameters
CO parameters
Extension parameters
DSS parameters
Speed call

Operation
To stop the printout;
1. Dial (27).
2. Press the NEXT button.
3. Repeat pressing the SELECT button until Stop Output is displayed.
4. Press the MEMORY button.

To print System Parameters, Speed call or All Parameters;
1. Dial (27).
   "System Data Out" will be displayed.
2. Press the NEXT button.
   "Menu : All Para" will be displayed and "All Para" will blink.
3. Repeat pressing the SELECT button until the desired data dump mode is displayed.
4. Press the MEMORY button.
   SMDR printer will print out.
5. Repeat steps 3 to 4, to print the other data dumps.

To print CO Parameter;
1. Dial (27).
2. Press the NEXT button.
3. Repeat pressing the SELECT button until the "CO Para" is displayed.
4. Press the MEMORY button.
   "CO NO ? →" is displayed.
5. Dial the CO number (01 through 12).
   When dialing (01), "CO NO ? → 01" will be displayed.
6. Press the MEMORY button.
   SMDR printer will print out.
7. Repeat steps 5 to 6, to print the other CO parameter.

To print Extension Parameter;
1. Dial (27).
2. Press the NEXT button.
3. Repeat pressing the SELECT button until the "EXT Para" is displayed.
4. Press the MEMORY button.
   "Jack NO ? →" will be displayed.
5. Dial the jack number (01 through 32).
   When dialing (01), "Jack NO ? → 01" will be displayed.
6. Press the MEMORY button.
   SMDR printer will print out.
7. Repeat steps 5 to 6, to print the other jack number.

To print DSS Parameter;
1. Dial (27).
2. Press the NEXT button.
3. Repeat pressing the SELECT button until the "DSS Para" is displayed.
4. Press the MEMORY button.
   "DSS NO ? →" will be displayed.
5. Dial the DSS number (1 or 2).
   When dialing (1), "DSS NO ? → 1" will be displayed.
6. Press the MEMORY button.
   SMDR printer will print out.
7. Repeat steps 5 to 6, to print the other DSS parameter.

After completing printing, to return to the initial mode;
1. Press the END button.

Programming Table
See page 7-8.
**Duration Time Count Start Mode**

![Duration Time Count Start Mode](image)

**Description**

The duration time of the conversation is displayed on the LCD and is printed on the printer.

Program the starting time of the timer.
- Instantly after the CO line is captured.
- 5 seconds after the dialing.
- 10 seconds after the dialing.
- 15 seconds after the dialing.

**Programming**

1. Dial (28).
   “Durat-Time Count” will be displayed.

2. Press the NEXT button.
   “5s after dial” will be displayed and blink.

3. Repeat pressing the SELECT button until the desired time (Instantly, 5s after dial, 10s after dial, 15s after dial) is displayed.

4. Press the MEMORY button.
   The LCD will stop blinking.

5. To return to the initial program mode, press the END button.

**Example:**

10 seconds after dialing

\[ = 28 \text{ NEXT SELECT MEMORY END} \]

**Programming Table**

See page 7-9.
External Paging Access Tone

Description

The acknowledge tone that is heard after accessing the external paging equipment can be removed or added at the customer's request. Refer to "Paging-External" on page 4-24.

Programming

1. Dial (29).
   "Ext-Pag Ack-Tone" will be displayed.

2. Press the NEXT button.
   "Pag NO?+" will be displayed.

3. Press the NEXT button.
   "Pag 1: Enable" will be displayed and "Enable" will blink.

4. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.

5. Press the MEMORY button.
   The LCD will stop blinking.

6. Repeat steps 3 to 5, to program the access tone of the other external paging equipment.

7. To return to the initial program mode, press the END button.

Example:

To eliminate the access paging tone on external paging1.

```
29 NEXT NEXT SELECT MEMORY END
```

Programming Table

See page 7-9.
Outside Line Feature

CO Connection Assignment

Description
You can program which outside line is connected and which one is not connected. When an extension automatically selects an idle outside line, the extension can be connected to it quickly.

Programming
1. Dial (40). “CO Connection” will be displayed.
2. Press the NEXT button. “CO NO ? →” will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12). “CO 01 : Connect” will be displayed and “Connect” will blink.
4. Press the SELECT button, to alternate between Connect and Not Connect to select the desired mode.
5. Press the MEMORY button. The LCD will stop blinking.
6. To advance to the next CO number, press the NEXT button.
   • To return to the previous CO number, press the PREV button.
   • To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to program the mode on the other CO lines.
8. To return to the initial program mode, press the END button.

Conditions
- When you dial “*” instead of pressing the NEXT button at step 3, in case all of 12 CO’s have been programmed to “Connect”, “CO *: Connect” will be displayed. In case each of 12 CO’s has been programmed either “Connect” or “Not Connect”, “CO *: Confused” will be displayed.

Example :
CO 1 and 2 ............... Connect
CO 3 ................. Not Connect

Programming Table
See page 7-9.
Dial Mode (DTMF/Pulse)

Description
Allow the user to select the dialing mode (tone or pulse) of each CO (Central Office) line.
- **DTMF Dial Mode**
  The dial signal from the extension (with tone or pulse dial mode) will be converted to TONE. TONE will be transmitted to the Central Office.
- **PULSE Dial Mode**
  The dial signal from the extension (with tone or pulse dial mode) will be converted to PULSE. PULSE will be transmitted to the Central Office.

Programming
1. Dial (41).
   "CO Dial Mode" will be displayed.
2. Press the NEXT button.
   "CO NO ?-" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : DTMF Mode" will be displayed and "DTMF Mode" will blink.
4. Repeat pressing the SELECT button until the desired dial mode is displayed.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat Steps 4 to 6, to program the dialing mode on the other central office lines.
8. To return to the initial program mode, press the END button.

Conditions
- If the KX-T123210 is connected to the Central Office directly or installed behind a host PBX, which receives both tone and pulse dialing mode, the KX-T123210 must be used only in the tone dial mode.
- If your extension is not a Proprietary telephone but a standard telephone, and the dial tone frequency of CO Lines is 600Hz, the KX-T123210 must be used only for the pulse dialing mode for the CO Lines.

Example:
- TONE on the CO 1 =
  \[ 41 \text{ NEXT } 01 \text{ [MEMORY END] } \]
  or
  \[ 41 \text{ NEXT NEXT [MEMORY END] } \]
- PULSE on the CO 2 =
  \[ 41 \text{ NEXT } 02 \text{ [SELECT MEMORY END] } \]
  or
  \[ 41 \text{ NEXT NEXT NEXT [SELECT MEMORY END] } \]

Programming Table
See page 7-9.
until the desired CO number (01 through 12) appears.

Until the desired time appears

Low Speed — default (all 12 CO's)
High Speed

42 NEXT NEXT SELECT MEMORY END

or

SELECT

42 NEXT AB SELECT MEMORY END

AB *= to assign the same on all 12 CO's
0 1 : on CO 01
1 2 : on CO 12

Description

In "Dial Mode (DTMF/ Pulse) Selection" on page 3-43, when "Pulse Dial Mode" is selected, dial pulse may be speeded up by programming. There are Pulse Low (10pps) and Pulse High (20pps) in the Dial Pulse Speed.

Programming

1. Dial (42).
   "Pulse Speed" will be displayed.

2. Press the NEXT button.
   "CO NO ?→" will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : Low Speed" will be displayed and "Low Speed" will blink.

4. Press the SELECT button to alternate between "Low Speed" and "High Speed".

5. Press the MEMORY button.
   The LCD will stop blinking.

6. • To advance to the next CO number, press the NEXT button.
• To return to the previous CO number, press the PREV button.
• To go to the desired CO number, press the SELECT button and then dial the CO number.

7. Repeat steps 4 to 6, to program the assignment of the other CO numbers.

8. To return to the initial program mode, press the END button.

Programming Table

See page 7-9.
Host PBX Access Codes Assignment

Description

If the system, (KX-T123210) is installed behind a host PBX, the host PBX may require a pause time to access Central Office Lines. This feature enables the host PBX to automatically pause via programming the outward dialing access codes of the host PBX.

Programming

1. Dial (43).
   “Host PBX Access” will be displayed.

2. Press the NEXT button.
   “CO NO?→” will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   - The LCD will show “CO 01: Not Stored” when nothing is stored in CO1.
     When the outside access codes 81,82 has been stored, “CO 01: 81, 82” will be displayed.

4. Enter up to 8 outward access codes each with a maximum of 2 digits, punctuating each code with the “#” button.
   - To erase a wrong entry, press the CLEAR button.

5. Press the MEMORY button.

6. To advance to the next CO number, press the NEXT button.
   - To return to the previous CO number, press the PREV button.
   - To go to the desired CO number, press the SELECT button and then dial the CO number.

7. Repeat steps 4 to 6 to program each of the CO’s of the KX-T123210.

8. To return to the initial program mode, press the END button.

Example:

- Access Codes 81, 82, 83, 9 on CO1
  
  43 | NEXT | 01 | 81 | 82 | 83 | 9 | MEMORY | END

Programming Table

See page 7-10.
Trunk Group Assignment

until the desired CO number (01 through 12) appears

\[ C \] dial the trunk group number (1 through 8)

\[ \begin{array}{l}
1 : \text{trunk group number 1} \\
8 : \text{trunk group number 8}
\end{array} \]

default

- CO 01 is assigned to Trunk group 1.
- CO 07 is assigned to Trunk group 7.
- CO 08, 09, 10, 11 and 12 is assigned to Trunk group 8.

\[ AB = \quad * : \text{to assign the same on all 12 CO's} \\
01 : \text{on CO 01} \\
12 : \text{on CO 12} \]

Description

When outside lines are grouped, an idle line within the trunk group is automatically found and connected when an outside call is placed. A maximum of 8 groups can be assigned. For example, if subscribing with multiple telephone service companies, the CO lines can be grouped as shown below by each company.

Trunk Group 1

\[ \begin{array}{l}
\text{CO 1} \\
\text{CO 2} \\
\text{CO 3}
\end{array} \]
Telephone Service Company A

Trunk Group 2

\[ \begin{array}{l}
\text{CO 4} \\
\text{CO 6} \\
\text{CO 7}
\end{array} \]
Telephone Service Company B

Trunk Group 3

\[ \begin{array}{l}
\text{CO 8} \\
\text{CO 10} \\
\text{CO 11}
\end{array} \]
Telephone Service Company C

Refer to “Outward Dialing (Individual Trunk Group Access)” on page 4-3 and “Flexible CO Button (To Assign into Trunk Group Access Number)” on page 4-53.

Programming

1. Dial (44).
   "Trunk Group" will be displayed.

2. Press the NEXT button.
   "CO NO ? ➔" will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01: TRK GRP-1" will be displayed and "1" will blink.

4. Dial the trunk group number (1 through 8).

5. Press the MEMORY button.
   The LCD will stop blinking.

6. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.

7. Repeat steps 4 to 6, to program the trunk group number on the other CO lines.

8. To return to the initial program mode, press the END button.

Programming Table

See page 7-10.
Flexible Outward Dialing Assignment

Description
Through programming, you can select which extensions may be used for outward dialing by using the day mode of operation.

Programming
1. Dial (45).
   "Day Out CO" will be displayed.
2. Press the NEXT button.
   "CO NO ? >" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : #01 : Enable" will be displayed.
4. Repeat pressing the NEXT button until the desired jack number appears, or press the # button and then dial the jack number.
5. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. To advance to the next jack number, press the NEXT button.
   To return to the previous jack number, press the PREV button.
   To go to the desired jack number, press the # button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.
10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.
11. To return to the initial program mode, press the END button.

Programming Table
See page 7-11.
Description
Through programming, you can select of which extensions may be used for outward dialing by using the night mode of operation.

Programming
1. Dial (46).
   “Night Out CO” will be displayed.
2. Press the NEXT button.
   “CO NO ? →” will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01 : #01 : Enable” will be displayed.
4. Repeat pressing the button until the desired jack number appears, or press the button and then dial the jack number.
5. Press the SELECT button to alternate between “Enable” and “Disable” to select the desired mode.
6. Press the MEMORY button.
   The LCD will stop blinking.

7. To advance to the next jack number, press the button.
   To return to the previous jack number, press the button.
   To go to the desired jack number, press the button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.
10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.
11. To return to the initial program mode, press the END button.

Programming Table
See page 7-12.
Flexible Ringing Assignment

Description
Through programming, you can select which extensions will ring on incoming calls from the Central Office during the day time.

Programming
1. Dial (47).
   “Day In CO ” will be displayed.
2. Press the NEXT button.
   “CO NO ?” will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01 : #01 : Enable” will be displayed.
4. Repeat pressing the button until the desired jack number appears, or press the button and then dial the jack number.
5. Press the SELECT button to alternate between “Enable” and “Disable” to select the desired mode.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. To advance to the next jack number, press the button.
   To return to the previous jack number, press the button.
   To go to the desired jack number, press the button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.
10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.
11. To return to the initial program mode, press the END button.

Programming Table
See page 7-13.
Example:
- Company XYZ would like incoming calls from the Central Office during the day mode to be received at the following zone.

<table>
<thead>
<tr>
<th>Zone</th>
<th>Jack no. of Extension</th>
<th>Programming CO no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>01, 02</td>
<td>01</td>
</tr>
<tr>
<td>B</td>
<td>03, 04</td>
<td>02</td>
</tr>
<tr>
<td>C</td>
<td>05, 06</td>
<td>03</td>
</tr>
</tbody>
</table>

Programming

1. 47 NEXT #1 #2 SELECT MEMORY ................................................. All CO numbers have been set to "Disable" on all jack numbers.
2. (NEXT or SELECT 0.1) SELECT MEMORY ........................................... CO number 01 has been set to "Enable" on jack number 01.
3. ( # or #02 ) SELECT MEMORY ................................................ CO number 01 has been set to "Enable" on jack number 02.
4. (NEXT or SELECT 0.2) #1 #03 SELECT MEMORY ................................. CO number 02 has been set to "Enable" on jack number 03.
5. ( # or #04 ) SELECT MEMORY ................................................ CO number 02 has been set to "Enable" on jack number 04.
6. (NEXT or SELECT 0.3) #1 #05 SELECT MEMORY ................................. CO number 03 has been set to "Enable" on jack number 05.
7. ( # or #06 ) SELECT MEMORY ................................................ CO number 03 has been set to "Enable" on jack number 06.
8. END
Description
Through programming, you can select which extensions will ring on incoming calls from the Central Office during the night time.

Programming
1. Dial (48).
   "Night In CO" will be displayed
2. Press the NEXT button.
   "CO NO ? " will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : #01 : Enable" will be displayed.
4. Repeat pressing the → button until the desired jack number appears, or press the # button and then dial the jack number.
5. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. ● To advance to the next jack number, press the → button.
   ● To return to the previous jack number, press the ← button.
   ● To go to the desired jack number, press the # button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.
11. To return to the initial program mode, press the END button.

Programming Table
See page 7-14.
Delayed Ringing Assignment

until the desired CO number (01 through 12) appears

until the desired jack number appears

# 01 : on jack number 01

# 32 : on jack number 32

# * : to assign the same on all 32 jacks

until the desired mode appears

Immdty   default (all 32 jack numbers)

1 ring

2 ring

3 ring

CD=* : to assign the same on all 32 jack numbers

01 : on jack number 01

32 : on jack number 32

AB=* : to assign the same on all 12 CO's

01 : on CO 01

12 : on CO 12

Description

The ringing start time during the day can be delayed on a designated extension(s) when an incoming call is received from the CO. The CO line(s) that you want to delay the ring start time during the day can be selected through the programming.

Programming

1. Dial (49).
   "Day Delayed CO" will be displayed.

2. Press the NEXT button.
   "CO NO ?\rightarrow" will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : #01 : Immdty" will be displayed.

4. Repeat pressing the \[ \rightarrow \] button until the desired jack number appears, or press the # button and then dial the jack number.

5. Repeat pressing the SELECT button until the desired mode is displayed.

6. Press the MEMORY button.
   The LCD will stop blinking.

7. ● To advance to the next jack number, press the \[ \rightarrow \] button.
   ● To return to the previous jack number, press the # button.
   ● To go to the desired jack number, press the # button and then dial the jack number.

8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.

9. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.

10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.

11. To return to the initial program mode, press the END button.

Programming Table

See pages 7-15 and 7-16.
Description

The ringing start time during the night can be delayed on a designated extension(s) when an incoming call is received from the CO. The CO line(s) that you want to delay the ring start time during the night can be selected through the programming.

Programming

1. Dial (60). “Night Delayed CO” will be displayed.
2. Press the NEXT button. “CO NO ? →” will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12). “CO 01 : #01 : Immdly” will be displayed.
4. Repeat pressing the button until the desired jack number appears, or press the button and then dial the jack number.
5. Repeat pressing the SELECT button until the desired mode is displayed.
6. Press the MEMORY button. The LCD will stop blinking.

7. ● To advance to the next jack number, press the button.
   ● To return to the previous jack number, press the button.
   ● To go to the desired jack number, press the button and then dial the jack number.

8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.

9. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.

10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.

11. To return to the initial program mode, press the END button.

Programming Table

See page 7-17 and 7-18.
Selecting the "Normal" mode

until the desired CO number (01 through 12) appears.

until the Normal mode appears

Normal default (all 12 CO's)

DIL

51 NEXT SELECT MEMORY END

or

51 NEXT AB SELECT MEMORY END

AB = * : to assign the same on all 12 CO's

0 1 : on CO 01

1 2 : on CO 12

Selecting the "DIL" mode

until the desired CO number (01 through 12) appears.

until the DIL mode appears

Normal default (all 12 CO's)

DIL

CD = 0 1 : jack number 01

3 2 : jack number 32

51 NEXT SELECT CD MEMORY END

SELECT

51 NEXT AB SELECT CD MEMORY END

AB = * : to assign the same on all 12 CO's

0 1 : on CO 01

1 2 : on CO 12

Description

Enable all outside line incoming calls to be directed to a specific extension phone (e.g., the assigned operator extension) during the day mode.

By programming an outside line to the jack number of the corresponding extension phone, all incoming calls on that outside line will be received at the assigned extension phone. The call can be accepted by simply picking up the receiver.
Programming

■ Selecting the “Normal” mode

1. Dial (51).
   “CO Day/Mode” will be displayed.
2. Press the NEXT button.
   “CO NO ?” will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01 : Normal” will be displayed and “Normal” will blink.
4. Press the SELECT button until the “Normal” mode is displayed.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to program the assignment of the other CO numbers.
8. To return to the initial program mode, press the END button.

■ Selecting the “DIL” mode

1. Dial (51).
   “CO Day/Mode” will be displayed.
2. Press the NEXT button.
   “CO NO ?” will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01 : Normal” will be displayed and “Normal” will blink.
4. Press the SELECT button until the “DIL” mode is displayed.
   “CO 01 : DIL : Jack-” will be displayed.
5. Dial the jack number (01 through 32).
6. Press the MEMORY button.
   The LCD will stop blinking.
7. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.
8. Repeat steps 4 to 7, to program the assignment of the other CO numbers.
9. To return to the initial program mode, press the END button.

Programming Table
See page 7-19.
Example:

- Company XYZ would like incoming calls from Central Office during the day mode to be received by operators 1 and 2.
  - Operator 1 has been connected to jack number 01.
  - Operator 2 has been connected to jack number 02.

<table>
<thead>
<tr>
<th>Operator</th>
<th>Programming CO no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01, 02</td>
</tr>
<tr>
<td>2</td>
<td>03, 04</td>
</tr>
</tbody>
</table>

1. **EXT (NEXT or 01) SELECT 01 MEMORY** .... Extension jack number 01 only has been set to receive all incoming calls through CO 01.

2. **(NEXT or SELECT 02) SELECT 01 MEMORY** ....... Extension jack number 01 only has been set to receive all incoming calls through CO 02.

3. **(NEXT or SELECT 03) SELECT 02 MEMORY** ....... Extension jack number 02 only has been set to receive all incoming calls through CO 03.

4. **(NEXT or SELECT 04) SELECT 02 MEMORY** ....... Extension jack number 02 only has been set to receive all incoming calls through CO 04.

5. **END**
■ Selecting the "Normal" mode

until the desired CO number (01 through 12) appears.

until the Normal mode appears

Normal default (all 12 CO's)

DIL

52 NEXT NEXT SELECT MEMORY END

or

SELECT

52 NEXT AB SELECT MEMORY END

AB = \[
\begin{array}{l}
\times \\
01 \\
12
\end{array}
\]: to assign the same on all 12 CO's

01 : on CO 01

12 : on CO 12

■ Selecting the "DIL" mode

until the desired CO number (01 through 12) appears.

until the DIL mode appears

Normal default (all 12 CO's)

DIL

CD = \[
\begin{array}{l}
01 \\
32
\end{array}
\]: jack number 01

32 : jack number 32

52 NEXT NEXT SELECT CD MEMORY END

SELECT

52 NEXT AB SELECT CD MEMORY END

AB = \[
\begin{array}{l}
\times \\
01 \\
12
\end{array}
\]: to assign the same on all 12 CO's

01 : on CO 01

12 : on CO 12

Description

Enables all outside line incoming calls to be directed to a specific extension phone during the night mode.

By programming an outside line to the jack number of the corresponding extension phone, all incoming calls on that outside line will be received at the assigned extension phone. The call can be accepted by simply picking up the receiver.
Programming

Selecting the “Normal” mode

1. Dial (52).
   “CO Night/ Mode” will be displayed.

2. Press the NEXT button.
   “CO NO ?→” will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01 : Normal” will be displayed and “Normal” will blink.

4. Press the SELECT button until the “Normal” mode is displayed.

5. Press the MEMORY button.
   The LCD will stop blinking.

6. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.

7. Repeat steps 4 to 6, to program the assignment of the other CO numbers.

8. To return to the initial program mode, press the END button.

Selecting the “DIL” mode

1. Dial (52).
   “CO Night/ Mode” will be displayed.

2. Press the NEXT button.
   “CO NO ?→” will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01 : Normal” will be displayed and “Normal” will blink.

4. Press the SELECT button until the “DIL” mode is displayed.
   “CO 01 : DIL : Jack-” will be displayed.

5. Dial the jack number (01 through 32).

6. Press the MEMORY button.
   The LCD will stop blinking.

7. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.

8. Repeat steps 4 to 7, to program the assignment of the other CO numbers.

9. To return to the initial program mode, press the END button.

Programming Table

See page 7-19.
Pause Time Assignment

until the desired CO number (01 through 12) appears.

until the desired time appears
1.5 sec
2.5 sec
3.5 sec default (all 12 CO’s)
4.5 sec

1.5 set
2.5 set
3.5 set
4.5 set

Description
The KX-T123210 may require a pause time to access Central Office Line or computer accessed line.
The pause time may be changed to 1.5sec, 2.5sec, 3.5sec or 4.5sec.

Programming
1. Dial (53).
“Pause Time” will be displayed.

2. Press the NEXT button.
“CO NO ? →” will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
“CO 01 : 3.5sec” will be displayed and 3.5sec will blink.

4. Repeat pressing the SELECT button until the desired time (1.5sec, 2.5sec, 3.5sec, 4.5sec) is displayed.

5. Press the MEMORY button.
The LCD will stop blinking.

6. To advance to the next CO number, press the NEXT button.
   To return to the previous CO number, press the PREV button.
   To go to the desired CO number, press the SELECT button and then dial the CO number.

7. Repeat steps 4 to 6, to program the assignment of the other CO numbers.

8. To return to the initial program mode, press the END button.

Programming Table
See page 7-20.
Description

The timing of the hookswitch flash signal must be within the requirements from your Central Office. There are four choices available: 0.3, 0.6, 0.9, or 1.2 seconds.

Programming

1. Dial (54).
   "Flash Time Set" will be displayed.
2. Press the NEXT button.
   "CO NO ? " will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : 600ms" will be displayed and "600ms" will blink.
4. Repeat pressing the SELECT button until the desired value is displayed.
5. Press the MEMORY button.
   The LCD will stop blinking.

6. To advance to the next CO number, press the NEXT button.
7. To return to the previous CO number, press the PREV button.
8. To go to the desired CO number, press the SELECT button and then dial the CO number.

Example:

0.3 sec on all 12 COs =

Programming Table

See page 7-20.
Calling Party Control (CPC) Signal

Description

To detect that an outside party has hung up and then terminated the outside line (after a conversation, conference etc.) a CPC signal is needed. CPC signal detection can be removed or added at customer's request.

Programming

1. Dial (55).
   “CPC Detection” will be displayed.

2. Press the NEXT button.
   “CO NO ? ->” will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01: 400ms” will be displayed and “400ms” will blink.

4. Repeat pressing the SELECT button until the desired mode is displayed.

5. Press the MEMORY button.
   The LCD will stop blinking.

6. ● To advance to the next CO number, press the NEXT button.
    ● To return to the previous CO number, press the PREV button.
    ● To go to the desired CO number, press the SELECT button and then dial the CO number.

7. Repeat steps 4 to 6, to program the assignment of the other CO's.

8. To return to the initial program mode, press the END button.

Programming Table

See page 7-20.


**Description**

A certain amount of time is needed for an outside call to be released, this is necessary so that a new call may be attempted after disconnecting with the previous call. There are two choices available, 1.5 and 4.0 seconds. The time you select must be longer than the requirements from your Central Office or host PBX.

**Programming**

1. Dial (56).
   “Disconnect Time” will be displayed.

2. Press the NEXT button.
   “CO NO ?” will be displayed.

3. Press the NEXT button or dial the CO number (01 through 12).
   “CO 01:1.5 sec” will be displayed and “1.5 sec” will blink.

4. Press the SELECT button to alternate between 1.5 sec and 4.0 sec.

5. Press the MEMORY button.
   The LCD will stop blinking.

6. To advance to the next CO number, press the NEXT button.
7. To return to the previous CO number, press the PREV button.
8. To go to the desired CO number, press the SFI FCT button and then dial the CO number.

7. Repeat steps 4 to 6, to set the disconnect time for the other CO’s.

8. To return to the initial program mode, press the END button.

**Example:**

- 4.0 sec on all 12 CO’s=
  
  4.0 sec on all 12 CO’s=

**Programming Table**

See page 7-20.
Extension Feature

Extension Group Assignment

until the desired jack number (01 through 32) appears.

A = 1 : extension group 1 default (all 32 jacks)

8 : extension group 8

Description

Enables grouping of extension numbers by department or floor by all extension numbers into a maximum of 8 separate extension groups. Each group has access to the "Paging Group" (on page 4-24), "Call Hunting" (on page 3-15), and "Dial Call Pickup" (on page 4-11) functions.

Programming

1. Dial (60). "Extension Group" will be displayed.

2. Press the NEXT button. "Jack NO ? → " will be displayed.

3. Press the NEXT button or dial the jack number (01 through 32). "#01 : EXT GRP-1" will be displayed.

4. Dial the extension group number (1 through 8).

5. Press the MEMORY button. The LCD will stop blinking.

6. To advance to the next jack number, press the NEXT button.

7. Repeat steps 4 to 6, to program the assignment of the other jack numbers.

8. To return to the initial program mode, press the END button.

Conditions

- When you dial "*" instead of pressing the NEXT button at step 3, in case all of 32 jack numbers have been programmed to extension group 1, "# : EXT GRP-1" will be displayed.

Programming Table

- See page 7-21.
Service Class Assignment of Toll Restriction

until the desired jack number (01 through 32) appears.

\[ C = \begin{align*} 
1 & : \text{service class 1} \quad \text{default (all 32 jacks)} \\
8 & : \text{service class 8} 
\end{align*} \]

\[ \begin{align*} 
61 & \quad \text{NEXT} \quad \text{NEXT} \quad \text{C} \quad \text{MEMORY} \quad \text{END} \\
\text{or} & \quad \text{SELECT} \\
61 & \quad \text{NEXT} \quad \text{AB} \quad \text{C} \quad \text{MEMORY} \quad \text{END} 
\end{align*} \]

\[ AB = \begin{align*} 
x & : \text{to assign the same on all 32 jack numbers} \\
01 & : \text{on jack number 01} \\
32 & : \text{on jack number 32} 
\end{align*} \]

Description

Used to prohibit selected extensions from making long distance calls during the day time.

Toll restriction can help eliminate telephone abuse and contribute to controlling telephone costs.

There are eight service classes available for each extension.

“Area Type Selection” on page 3-18 should be set.

To allow or deny dialing an Operator Call, see “CO Operator Call-Boundary Class” on page 3-19.
### Service Class Selections

<table>
<thead>
<tr>
<th>Allowed</th>
<th>Denied</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. all calls</td>
<td></td>
</tr>
<tr>
<td>2. toll calls, local calls (charged), local calls</td>
<td>international calls</td>
</tr>
<tr>
<td>3. selected area codes, local calls (charged), local calls</td>
<td>international calls, any calls other than specific area code programmed</td>
</tr>
<tr>
<td>4. local calls (charged), local calls</td>
<td>international calls, toll calls</td>
</tr>
<tr>
<td>5. selected exchange codes (charged), local calls</td>
<td>international calls, toll calls, any calls other than specific exchange codes (charged) programmed</td>
</tr>
<tr>
<td>6. local calls</td>
<td>international calls, toll calls, local calls (charged)</td>
</tr>
<tr>
<td>7. any calls other than specific exchange codes programmed</td>
<td>international calls, toll calls, local calls (charged), selected exchange codes</td>
</tr>
<tr>
<td>8. all calls</td>
<td></td>
</tr>
</tbody>
</table>

- For service class 3, up to 20 area codes can be selected for use in toll dialing. See “Area Code Entry for Class 3” on page 3-22.
- For service class 5, up to 20 exchange code (charged) can be selected for use in local dialing (charged). See “Exchange Code Entry for Class 5” on page 3-23.
- For service class 7, up to 20 exchange code can be selected for no use in local dialing. See “Exchange Code Entry for Class 7” on page 3-24.
- For an area that uses Area code type as the exchange code, up to 20 exchange codes can be selected for use in local dialing. See “Exchange Code Selection” on page 3-21.

### Programming

1. Dial (61).
   “Day Toll Restrct” will be displayed.

2. Press the NEXT button.
   “Jack NO ? → ” will be displayed.

3. Press the NEXT button or dial the jack number (01 through 32).
   “#01 : Class-1” will be displayed and “1” will blink.

4. Press the service class number (1 through 8).

5. Press the MEMORY button.
   The LCD will stop blinking.

6. To advance to the next jack number, press the NEXT button.
   - To return to the previous jack number, press the PREV button.
   - To go to the desired jack number, press the SELECT button and then dial the jack number.

7. Repeat steps 4 to 6, to program the assignment on the other jack numbers.

8. To return to the initial program mode, press the END button.

### Programming Table

See page 7-21.
until the desired jack number (01 through 32) appears.

<table>
<thead>
<tr>
<th>C</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>service class 1</td>
</tr>
<tr>
<td>8</td>
<td>service class 8</td>
</tr>
</tbody>
</table>

```
62 NEXT NEXT C MEMORY END

or

SELECT
```

```
62 NEXT AD C MEMORY END

AB= [* : to assign the same on all 32 jack numbers
0 1 : on jack number 01
3 2 : on jack number 32
```

**Description**

Used to prohibit selected extensions from making long distance calls during the night time.

Toll restriction can help eliminate telephone abuse and contribute to controlling telephone costs.

There are eight service classes available for each extension.

"Area Type Selection" on page 3-18 should be set.

To allow or deny dialing an Operator Call, see "CO Operator Call-Boundary Class" on page 3-19.
### Service Class Selections

<table>
<thead>
<tr>
<th></th>
<th>Allowed</th>
<th>Denied</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>all calls</td>
<td>international calls</td>
</tr>
<tr>
<td>2.</td>
<td>• toll calls</td>
<td>• international calls</td>
</tr>
<tr>
<td></td>
<td>• local calls (charged)</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>• selected area codes</td>
<td>• international calls</td>
</tr>
<tr>
<td></td>
<td>• local calls (charged)</td>
<td>• any calls other than specific area code</td>
</tr>
<tr>
<td></td>
<td>• local calls</td>
<td>programmed</td>
</tr>
<tr>
<td>4.</td>
<td>• local calls (charged)</td>
<td>• international calls</td>
</tr>
<tr>
<td></td>
<td>• local calls</td>
<td>• toll calls</td>
</tr>
<tr>
<td>5.</td>
<td>• selected exchange codes (charged)</td>
<td>• international calls</td>
</tr>
<tr>
<td></td>
<td>• local calls</td>
<td>• toll calls</td>
</tr>
<tr>
<td></td>
<td>• any calls other than specific exchange</td>
<td>• any calls other than</td>
</tr>
<tr>
<td></td>
<td>codes programmed</td>
<td>specific exchange codes (charged)</td>
</tr>
<tr>
<td>6.</td>
<td>• local calls</td>
<td>• international calls</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• toll calls</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• local calls (charged)</td>
</tr>
<tr>
<td>7.</td>
<td>• any calls other than</td>
<td>• international calls</td>
</tr>
<tr>
<td></td>
<td>specific exchange codes programmed</td>
<td>• toll calls</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• local calls (charged)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• selected exchange codes</td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td>all calls</td>
</tr>
</tbody>
</table>

- For service class 3, up to 20 area codes can be selected for use in toll dialing. See "Area Code Entry for Class 3" on page 3-22.

- For service class 5, up to 20 exchange code (charged) can be selected for use in local dialing (charged). See "Exchange Code Entry for Class 5" on page 3-23.

- For service class 7, up to 20 exchange code can be selected for no use in local dialing. See "Exchange Code Entry for Class 7" on page 3-24.

- For an area that uses area code type as that exchange codes, up to 20 exchange codes can be selected for use in local dialing. See "Exchange Code Selection" on page 3-21.

### Programming

1. Dial (62).

   "Nig Toll Restrct" will be displayed.

2. Press the NEXT button.

   "Jack NO ? → " will be displayed.

3. Press the NEXT button or dial the jack number (01 through 32).

   "#01 : Class-1" will be displayed and "1" will blink.

4. Press the service class number (1 through 8).

5. Press the MEMORY button.

   The LCD will stop blinking.

6. To advance to the next jack number, press the NEXT button.

   To return to the previous jack number, press the PREV button.

   To go to the desired jack number, press the SELECT button and then dial the jack number.

7. Repeat steps 4 to 6, to program the assignment on the other jack numbers.

8. To return to the initial program mode, press the END button.

### Programming Table

See page 7-22.
**Extension Name**

- **Dial (0 through 9, * or #)** until the desired letter appears
- **Dial (0 through 9, * or #)** until the desired jack number (01 through 32) appears

```
63 NEXT NEXT D SELECT MEMORY END
```

or

```
63 NEXT AB D SELECT MEMORY END
```

**Description**

Each extension can be programmed by name and will be displayed on the display phone when making or receiving intercom calls.

**Programming**

1. **Dial (63).**
   
   "Extension Name" will be displayed.

2. **Press the NEXT button.**
   
   "Jack NO ? → " will be displayed.

3. **Press the NEXT button or dial jack number (01 through 32).**
   
   "#01 : " will be displayed.

4. **To program the extension name,**
   
   ① **Dial (0 through 9, * or #)**
   
   ② **Press the SELECT button until the desired letter appears.**
   
   ③ **Repeat steps ① and ②, to program the desired name.**

5. **Press the MEMORY button.**
   
   The LCD will stop blinking.

6. **To advance to the next jack number,**
   
   press the NEXT button.

   **To return to the previous jack number,**
   
   press the PREV button.

   **To go to the desired jack number,**
   
   press the SELECT button and then dial the jack number.

7. **Repeat steps 4 to 6, to program the other extension names of jack numbers.**

8. **To return to the initial program mode,** press the END button.

---

**Dial**

- **Press the SELECT button**

<table>
<thead>
<tr>
<th>Dial</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Q q Z z ! ?</td>
</tr>
<tr>
<td>2</td>
<td>A a B b C c</td>
</tr>
<tr>
<td>3</td>
<td>D d E e F f</td>
</tr>
<tr>
<td>4</td>
<td>G g H h I i</td>
</tr>
<tr>
<td>5</td>
<td>J j K k L l</td>
</tr>
<tr>
<td>6</td>
<td>M m N n O o</td>
</tr>
<tr>
<td>7</td>
<td>P p R r S s</td>
</tr>
<tr>
<td>8</td>
<td>T t U u V v</td>
</tr>
<tr>
<td>9</td>
<td>W w X x Y y</td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>+ - = &lt; &gt;</td>
</tr>
<tr>
<td>#</td>
<td>S % &amp; ( )</td>
</tr>
</tbody>
</table>
Conditions

- To erase all letters, press the CLEAR button.
- To erase one letter, press the button.
- The maximum number of letters can not exceed ten.

Example:

- To program jack number 01 for Mr. Brown

1. 63 NEXT 01

Display

2. Dial (2). ............................................................... #01: 2

3. Press the SELECT button three times. ...................... #01: B

4. Dial (7). ............................................................... #01: B7

5. Press the SELECT button four times. ...................... #01: Br

6. Dial (6). ............................................................... #01: Br6

7. Press the SELECT button six times. ...................... #01: Bro

8. Dial (9). ............................................................... #01: Bro9

9. Press the SELECT button two times. ...................... #01: Brow

10. Dial (6). ............................................................... #01: Brow6

11. Press the SELECT button four times. ...................... #01: Brown

12. MEMORY END

There is a phone number directory on page 7-1
Description

This feature gives each message of the SMDR an account code of the called or calling party. This feature has two modes “Forced” and “Option”. In the “Forced” mode, the account code must be entered every time extension user dials. In the “Option” mode, the account code may be entered when a record is needed. Refer to “Account Code” page 4-39.

Programming

1. Dial (64).
   “Call Accounting” will be displayed.

2. Press the NEXT button.
   “Jack NO? →” will be displayed.

3. Press the NEXT button or dial the jack number (01 through 32).
   “#01 : Option” will be displayed and the jack number
   “Option” will blink.

4. Press the SELECT button to alternate between “Option” and “Forced” to select the desired mode.

5. Press the MEMORY button.
   The LCD will stop blinking.

6. ● To advance to the next jack number, press the NEXT button.
   ● To return to the previous jack number, press the PREV button.
   ● To go to the desired jack number, press the SELECT button and then dial the jack number.

7. Repeat steps 4 to 6, to program the account code of the other jack numbers.

8. To return to the initial program mode, press the END button.

Programming Table

See page 7-22.
Call Transfer To Outside Line

Description
Through programming, you can select whether an extension can transfer an intercom or outside call to another outside line manually.

Programming
1. Dial (65). “Transfer to CO” will be displayed.

2. Press the NEXT button. “Jack NO ?” will be displayed.

3. Press the NEXT button or dial the jack number (01 through 32).
   “#01: “Disable” will be displayed and “Disable” will blink.

4. Press the SELECT button to alternate between “Enable” and “Disable” to select the desired mode.

5. Press the MEMORY button. The LCD will stop blinking.

6. To advance to the next jack number, press the NEXT button.
   To return to the previous jack number, press the PREV button.
   To go to the desired jack number, press the SELECT button and then dial the jack number.

7. Repeat steps 4 to 6, to program the assignment of the other jack numbers.

8. To return to the initial program mode, press the END button.

Programming Table
See page 7-23.
Call Forwarding To Outside Line

Description
“Call Forwarding To Outside Line” (on page 4-28) can be enabled for each extension.

Programming
1. Dial (66). “CO Forward” will be displayed.
2. Press the NEXT button. “Jack NO ? →” will be displayed.
3. Press the NEXT button or dial the jack number (01 through 32).
   “#01: Disable” will be displayed and “Disable” jack number will blink.
4. Press the SELECT button to alternate between “Enable” and “Disable” to select the desired mode.
5. Press the MEMORY button. The LCD will stop blinking.
6. • To advance to the next jack number, press the NEXT button.
   • To return to the previous jack number, press the PREV button.
   • To go to the desired jack number, press the SELECT button and then dial the jack number.
7. Repeat steps 4 to 6 to program the assignment of the other jack numbers.
8. To return to the initial program mode, press the END button.

Programming Table
See page 7-23.
Executive Override

until the desired jack number (01 through 32) appears

until the desired mode appears

<table>
<thead>
<tr>
<th>Disable</th>
<th>default (all 32 jack numbers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>67</th>
<th>NEXT</th>
<th>NEXT</th>
<th>SELECT</th>
<th>MEMORY</th>
<th>END</th>
</tr>
</thead>
</table>

or

<table>
<thead>
<tr>
<th>67</th>
<th>NEXT</th>
<th>AB</th>
<th>SELECT</th>
<th>MEMORY</th>
<th>END</th>
</tr>
</thead>
</table>

AB = \( \times \): to assign the same on all 32 jack numbers
0 1 : on jack number 01
3 2 : on jack number 32

Description

Through programming, allows an extension user to intrude into another extension that is in conversation with an outside party or inside party. Refer to “Executive Override (Barge-In)” on page 4-9.

Programming

1. Dial (67).
   “Busy Override” will be displayed.

2. Press the NEXT button.
   “Jack NO ? →” will be displayed.

3. Press the NEXT button or dial the jack number (01 through 32).
   “#01: Disable” will be displayed and “Disable” will blink.

4. Press the SELECT button to alternate between “Enable” and “Disable” to select the desired mode.

5. Press the MEMORY button.
   The LCD will stop blinking.

6. To advance to the next jack number, press the NEXT button.
   To return to the previous jack number, press the PREV button.
   To go to the desired jack number, press the SELECT button and then dial the jack number.

7. Repeat steps 4 to 6, to program the assignment of the other jack numbers.

8. To return to the initial program mode, press the END button.

Programming Table

See page 7-23.
**Do not Disturb Override**

This feature can dial to the extension that is setting the Do Not Disturb by programming. Refer to “Do Not Disturb Override” on page 4-31.

**Description**
This feature allows you to ring an extension that is set for the “Do Not Disturb” mode.

**Programming**

1. Dial (68).
   “DND Override” will be displayed.

2. Press the NEXT button.
   “Jack NO ? → ” will be displayed.

3. Press the NEXT button or dial the jack number (01 through 32).
   “#01 : Disable” will be displayed and “Disable” will blink.

4. Press the SELECT button to alternate between “Enable” and “Disable” to select the desired mode.

5. Press the MEMORY button.
   The LCD will stop blinking.

6. • To advance to the next jack number, press the NEXT button.
   • To return to the previous jack number, press the PREV button.
   • To go to the desired jack number, press the SELECT button and then dial the jack number.

7. Repeat steps 4 to 6, to program the assignment of the other jack numbers.

8. To return to the initial program mode, press the END button.

**Conditions**
This feature allows you to ring an extension that is set for the “Do Not Disturb” mode.

**Programming Table**
See page 7-24.
Doorphone Feature

Ringing Assignment from Doorphone

Description

Allows each extension to be programmed for receiving calls from up to 2 doorphones during the day mode.

(Doorphone is an option.)

Programming

1. Dial (70).
   "Day Door Phone" will be displayed.

2. Press the NEXT button.
   "Door NO ? →" will be displayed.

3. Press the NEXT button or dial the doorphone number (1 or 2).
   "DP-1 : #01 : Enable" will be displayed.

4. Repeat pressing the button until the desired jack number appears, or press the button and then dial the jack number.

5. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.

6. Press the MEMORY button.
   The LCD will stop blinking.

7. To advance to the next jack number,
   press the button.

   To return to the previous jack number,
   press the button.

   To go to the desired jack number,
   press the button and then dial the jack number.

8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.

9. Repeat steps 3 to 8, to program the assignment of the another doorphone.

10. To return to the initial program mode, press the END button.

Programming Table

See page 7-24.
Description

Allows each extension to be programmed for receiving calls from up to 2 doorphones during the night mode.
(Doorphone is an option.)

Programming

1. Dial (71).
   "Night Door Phone" will be displayed.

2. Press the NEXT button.
   "Door NO ? " will be displayed.

3. Press the NEXT button or dial the doorphone number (1 or 2).
   "DP-1 : # 01 : Enable" will be displayed.

4. Repeat pressing the button until the desired jack number appears, or press the button and then dial the jack number.

5. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.

6. Press the MEMORY button.
   The LCD will stop blinking.

7. • To advance to the next jack number, press the button.
• To return to the previous jack number, press the button.
• To go to the desired jack number, press the button and then dial the jack number.

8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.

9. Repeat steps 3 to 8, to program the assignment of the another doorphone.

10. To return to the initial program mode, press the END button.

Programming Table

See page 7-25.
Call on Hold for Standard Telephone

until the desired mode appears
[Hold-1] Flash hookswitch only ........ default
[Hold-2] Flash hookswitch and dial 20

91 NEXT SELECT MEMORY END

Description
If a standard telephone at the extension ring immediately after hanging up or about 30 sec later, this programming step will eliminate the problem by requiring the extension to dial 20 after hook flashing in the Hold-2 mode.

The following operation is changed when "Hold-2" mode is set.

Call Park (on page 5-4)
Call on Hold (on page 5-4)
Conference (on page 5-5)
Call Waiting (on page 5-5)
Call Splitting (on page 5-6)
Call Transfer (on page 5-6)
Paging And Transfer (on page 5-8)
External Feature Access (on page 5-9)
Account Code (on page 5-10)

Programming
1. Dial (91)
   "Option" will be displayed
2. Press the NEXT button.
   "Hold-1" will be displayod and blink.
3. Press the SELECT button to alternate between "Hold-1" and "Hold-2" to select the desired mode.
4. Press the MEMORY button.
The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Programming Table
See page 7-25
System Data Clear

- All Parameters
- System Parameter
- Speed Call

until the desired mode appears
- All Para  default
- System Para
- CO Para
- EXT Para
- DSS Para
- Speed Call

99 NEXT SELECT MEMORY END

- CO Parameter (Outside)

until the CO Para appears

99 NEXT SELECT MEMORY AB MEMORY END

- Extension Parameter

until the EXT Para appears

99 NEXT SELECT MEMORY AB MEMORY END

- DSS Parameter

until the DSS Para appears

99 NEXT SELECT MEMORY A MEMORY END
Description
The system Data features are preset as the default data of the programming.

All parameters
System parameters
CO parameters
Extension parameters
DSS parameters
Speed call

System parameters
Extension Number Assignment
Operator Assignment
Paired Telephone Assignment for DSS Console
Automatic CO Hold Using DSS Button
Day/Night Service Mode
Call Hunting
Toll Restriction
Hold Time Reminder
Hold Recall Time Set
Transfer Recall Time
Call Forwarding Starting Time
Pickup Dial Delay Time
Co-to-Co Duration Time Limit
Station Message Detail Recording (SMDR)
Duration Time Count Start Mode
External Paging Access Tone
Call on Hold for Standard Telephone
Ringing Assignment from Doorphone

CO parameters
CO Connection Assignment
Dial Mode (DTMF/Pulse)
Host PBX Access Codes Assignment
Trunk Group Assignment
Flexible Outward Dialing Assignment
Flexible Ringing Assignment
Delayed Ringing Assignment
CO Direct Line Assignment
Pause Time Assignment
Hookswitch Flash Timing
Calling Party Control (CPC) Signal
Disconnect Time

Extension parameters
Extension Group Assignment
Service Class Assignment of Toll Restriction
Extension Name
Account Code Input Mode
Call Transfer to Outside Line
Call Forwarding to Outdido Line
Executive Override
Do not Disturb Override

One Touch Access for System Features
CO Line Ringing Selection
Auto CO Hunting
Automatic Answering Selection
Flexible CO Button
Intercom Voice Alerting Mode
Background Music
Station Number Check
F3 - One Touch Button Mode Selection
Call waiting Tone Selection

Call Forwarding
Do Not Disturb
Dial Call Pickup Deny
Data Line Security
Pickup Dial
Absent Message Capability
Call Waiting Tone Deny
Flexible Night Service
Executive Override Deny

DSS parameters
DSS button of the DSS Console
Feature button of the DSS Console

Speed call
Speed access codes (00 through 99) in which phone numbers are stored may be preset.
Programming

To set System Parameters, Speed Call or All Parameters to the default data :

1. Dial (99).
   "System Clear" will be displayed.

2. Press the NEXT button.
   "Menu : All Para" will be displayed and
   "All Para" will blink.

3. Repeat pressing the SELECT button until the desired data mode is displayed.

4. Press the MEMORY button.
   The LCD will stop blinking.

5. Repeat steps 3 to 4, to clear the other system data.

To set CO Parameter to the default data :

1. Dial (99).

2. Press the NEXT button.

3. Repeat pressing the SELECT button until the "CO Para" is displayed.

4. Press the MEMORY button.
   "CO NO ?→" is displayed.

5. Dial the CO number (01 through 12). When dialing (01),
   "CO NO ?→ 01" will be displayed.

6. Press the MEMORY button.
   The LCD will stop blinking.

7. Repeat steps 5 to 6, to clear the other CO parameter.

To set Extension Parameter to the default data :

1. Dial (99).

2. Press the NEXT button.

3. Repeat pressing the SELECT button until the "EXT Para" is displayed.

4. Press the MEMORY button.
   "Jack NO ?→" is displayed.

5. Dial the jack number. (01 through 32) When dialing (01),
   "Jack NO ?→ 01" will be displayed.

6. Press the MEMORY button.
   The LCD will stop blinking.

7. Repeat steps 5 to 6, to clear the other extension parameter.

To set DSS Parameter to the default data :

1. Dial (99).

2. Press the NEXT button.

3. Repeat pressing the SELECT button until the "DSS Para" is displayed.

4. Press the MEMORY button.
   "DSS NO ?→" is displayed.

5. Dial the DSS number (1 or 2). When dialing (1),
   "DSS NO ?→ 1" will be displayed.

6. Press the MEMORY button.
   The LCD will stop blinking.

7. Repeat steps 5 to 6, to clear the another DSS parameter.

After completing clearing, and to return to the initial mode :

1. Press the END button.
Example of Flexible CO Button
(KX-T61631, KX-T61630, KX-T61620, KX-T61650, KX-T30830, KX-T30820, KX-T30850)

When you connect EMSS PROPRIETARY TELEPHONE (KX-T61631, KX-T61630, KX-T61620, KX-T61650, KX-T30830, KX-T30820 or KX-T30850) to the KX-T123210 system, change the programming of CO button or DSS button to have them operate properly.

The default of CO button or DSS button is assigned as following.

- In case of KX-T61631, KX-T61630, KX-T61620 and KX-T61650,
  - CO button on which "CO1" is printed ——— CO1 Line
  - CO button on which "CO2" is printed ——— CO2 Line
  - CO button on which "CO3" is printed ——— CO3 Line
  - CO button on which "CO4" is printed ——— CO4 Line
  - CO button on which "CO5" is printed ——— CO5 Line
  - CO button on which "CO6" is printed ——— CO6 Line

- In case of KX-T30830, KX-T30820 and KX-T30850,
  - CO button on which "CO1" is printed ——— CO1 Line
  - CO button on which "CO2" is printed ——— CO2 Line
  - CO button on which "CO3" is printed ——— CO3 Line

- In case of KX-T30830 only,
  - DSS button on which "DSS11" is printed ——— Extension no. of Jack no. 01
  - DSS button on which "DSS12" is printed ——— Extension no. of Jack no. 02
  - DSS button on which "DSS13" is printed ——— Extension no. of Jack no. 03
  - DSS button on which "DSS14" is printed ——— Extension no. of Jack no. 04
  - DSS button on which "DSS15" is printed ——— Extension no. of Jack no. 05
  - DSS button on which "DSS16" is printed ——— Extension no. of Jack no. 06
  - DSS button on which "DSS17" is printed ——— Extension no. of Jack no. 07
  - DSS button on which "DSS18" is printed ——— Extension no. of Jack no. 08

Change the default of CO button or DSS button by the programming of “Flexible CO Button” or “Flexible DSS Button”.

Flexible CO Button
- “To change into other CO number” on page 4-53
- “To assign into trunk group access number” on page 4-53
- “To change into DSS button” on page 4-54
- “To change into one touch dialing button” on page 4-54
- “To change into message waiting button” on page 4-55
- “To change into other all CO numbers” on page 4-55

Flexible DSS Button (KX-T30830 only).
- “To change into other DSS number” on page 4-57
- “To change into one touch dialing button” on page 4-57
- “To change into message waiting button” on page 4-58
Examples

The outside lines of KX-T123210 is connected 8 CO's from Central Office (CO).
Extension No 105 (Jack No. 05) is set up beforehand by System Programming as followings.

System Programming
- Flexible Outward Dialing Assignment (Both Day and Night Mode)
  CO1 through CO7 are “Enable”
  CO8 is “Disable”.
- Flexible Ringing Assignment (Both Day and Night Mode)
  CO1 through CO7 are “Enable”
  CO8 is “Disable”.
- Trunk Group Assignment
  Trunk Group 1 : CO1, CO2, CO3
  Trunk Group 2 : CO4, CO5, CO6
  Trunk Group 3 : CO7, CO8

If you connect KX-T30820 at Extension 105 (Jack No. 05) and set the CO button of KX-T30820 as shown in Fig.1,
Outgoing calls and Incoming calls in Extension 105 (Jack No. 05) are operated as followings.

CO Button on which “CO1” is printed → Change → CO3 Button.
CO Button on which “CO2” is printed → CO4 Button.
CO Button on which “CO3” is printed → CO5 Button.

- To change into other CO Button, see page "To change into other CO number" on page 4-53.

Outgoing calls:
- Pressing CO3 Button → Access CO3 Line
- Pressing CO4 Button → Access CO4 Line
- Pressing CO5 Button → Access CO5 Line
- Dialing 81 (Trunk group 1) → Access only CO3 Line
- Dialing 82 (Trunk group 2) → Access only CO4 and CO5 Lines
- Dialing 83 (Trunk group 3) → No access CO Line
- You cannot dial through CO1 Line, CO2 Line and CO6 Line through CO8 Line

Incoming calls:
- The calls which reaches through the CO3 Line through CO5 Line can be received.
- The calls which reaches through the CO1 Line, CO2 Line, CO6 Line through CO8 Line can not be received.

The CO Line which is not assigned to the CO Button cannot be dialed or received.
If you connect KX-T30820 at Extension 105 (Jack No. 05) and set the CO button of KX-T30820 as shown in Fig. 2, Outgoing calls and Incoming calls in Extension 105 (Jack No. 05) are operated as followings.

**Outgoing calls:**
- Pressing CO Button which can access to Trunk group 1 ➔ Access CO1 Line through CO3 Line
- Pressing CO Button which can access to Trunk group 2 ➔ Access CO4 Line through CO6 Line
- Pressing CO Button which can access to Trunk group 3 ➔ Access only CO7 Line

**Incoming calls:**
- The calls which reaches through the CO1 Line through CO7 Line can be received.
- The calls which reaches the CO8 Line cannot be received.

---

If you connect KX-T30820 at Extension 105 (Jack No. 05) and set the CO Button of KX-T30820 as shown in Fig. 3, Outgoing calls and Incoming calls in Extension 105 (Jack No. 05) are operated as followings.

**Outgoing calls:**
- Pressing CO Button which can access to Trunk group 1 ➔ Access CO1 Line through CO3 Line
- Pressing CO4 Button ➔ Access CO4 Line
- Pressing CO Button which can access to other all CO Line ➔ Access CO5 Line through CO7 Line

**Incoming calls:**
- The calls which reaches through the CO1 Line through CO7 Line can be received.
- The calls which reaches the CO8 Line cannot be received.
To operate this system, after making program changes, set the System Program Switch located on the KX-T123210 (Electronic Modular Switching System) to the SET position.

Making Calls

When the unit is unused, Liquid Crystal Display will show the month, day and the present time.

### Inter Office Calling (Intercom)

**Using the Handset**

1. Lift the handset.
2. Dial the extension number (100 through 199).
3. Start talking.
4. Hang up.

**Hands-free**

1. Press the SP-PHONE or ICM button.
2. Dial the extension number (100 through 199).
3. Start talking.
4. Press the SP-PHONE button again after completion of the conversation.

#### Description

Station to station dialing within the KX-T123210 system.

#### Operation

**Using the Handset**

1. Lift the handset.
2. Dial the extension number (100 through 199).
3. Start talking.
4. Hang up upon completion of the conversation.

**Hands-free**

1. Press the SP-PHONE or ICM button.
2. Dial the extension number (100 through 199).
3. Start talking.
4. Press the SP-PHONE button again after completion of the conversation.

#### Conditions

- The extension number is set below. Through programming, you may change the extension number to other number. See the page 3-8.
- Default:
  
  101: is assigned to extension of jack number 01

  132: is assigned to extension of jack number 32

- When a called party has the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830 equipped with an LCD, the extension number of the calling party will be displayed on the LCD of the called party.

- The extension number of the calling party will be displayed on the LCD of the KX-T123230 / KX-T61630 / KX-T30830 / KX-T61631.

- The ICM indicator will be lit green while using the unit.

- The KX-T123250, KX-T61650 or KX-T30850 will not function for hands-free mode but can hear the other party's voice in the on-hook mode.
### Automatic Line Access

- **Description**
  Each extension can automatically select an idle CO (Central Office) line within the KX-T123210.

- **Operation**
  1. Lift the handset or press the SP-PHONE button.
  2. Dial (9).
     - Dial tone from CO (Central Office) will be heard.
     - The CO indicator will be lit green at your extension and lit red at other extensions.
  3. Dial the phone number.
  4. Start talking.
  5. Hang up or press the SP-PHONE button upon completion of the conversation.

- **Conditions**
  - The 9 dialed, will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830 and you will hear following.
  - Dial tone from CO : indicates that the CO line is captured.
  - Busy tone : indicates that the all CO lines are busy.
  - Reorder tone : indicates that the extension is denied access to an outside line.

### Individual Line Access

- **Using the Handset**

- **Description**
  Any of the 12 CO's may be directly selected.

- **Operation**
  1. Lift the handset.
  2. Press the CO button.
     - Dial tone from CO will be heard.
  3. Dial the phone number.
  4. Start talking.
  5. Hang up.

- **Hands-free**
  1. Press the CO button.
     - Dial tone from CO will be heard.
  2. Dial the phone number.
  3. Start talking.
  4. Press the SP-PHONE button.
     - The phone number dialed will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830.
     - You can not use the CO button whose indicator is lit (red) as this CO line is use.
     - The KX-T123250, KX-T61650 or KX-T30850 will not function for hands-free mode but can hear the other party's voice in the on-hook mode.
Outward Dialing (cont.)

**Individual Trunk Group Access**

1. Lift the handset or press SP-PHONE.
2. Dial "8" or press SP-PHONE.
3. Dial trunk group number (1 through 8).
5. Dial phone number.
6. Talk.
7. Hang up handset or press SP-PHONE.

- You may press the CO button instead of dialing 8 and trunk group number (1 through 8). In this case, you must assign the trunk group access number to the CO button. To assign, see "Flexible CO button" on page 4-53.

**Description**

Each extension can automatically select an idle CO line within the same trunk group. Through programming, 12 CO lines can be divided up to 8 groups. See the page 3-46.

**Operation**

1. Lift the handset or press the SP-PHONE button.
2. Dial (8) and the trunk group number (1 through 8) or press the CO button which is changed into trunk group access number.
   - Dial tone from the CO (Central Office) will be heard.
3. Dial the phone number.
4. Start talking.
5. Hang up or press the SP-PHONE button.

**Conditions**

- The CO line which is not assigned to the CO Button cannot be dialed.
- The CO lines that is assigned to the trunk group are set below.
  - Default;
    - CO 1 is assigned to Trunk group 1.
    - CO 2 is assigned to Trunk group 2.
    - CO 3 is assigned to Trunk group 3.
    - CO 4 is assigned to Trunk group 4.
    - CO 5 is assigned to Trunk group 5.
    - CO 6 is assigned to Trunk group 6.
    - CO 7 is assigned to Trunk group 7.
    - CO 8 through CO 12 is assigned to Trunk group 8.

- Each extension can access a new CO line without hanging up.

While having a conversation,

- The original conversation will be terminated and a new CO line will be accessed.

---

**Speed Dialing**

**Description**

There are 100 memory locations of system speed dialing available. A maximum of each memory location is 32 digits.

For programming, refer to "System Speed Dialing Entry" on page 3-5.

**Operation**

1. Lift the handset or press the SP-PHONE button.
2. Press the AUTO button.
3. Dial the speed access code (00 through 99).
   - You may press the CO button to select the CO line directly after lifting the handset or press the SP-PHONE button.

**Conditions**

- The dialed number will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830.
- Continuous use of speed dialing is possible.
  - ex. [AUTO] [0] [0] [AUTO] [0] [1]
  - Chaining together two or more memory locations.
- Combinations of speed dialing, one touch dialing and manual dialing is possible.

While having a conversation,

- The original conversation will be terminated and a new CO line will be accessed.
One Touch Dialing

- Be sure the handset is in the cradle and the SP-PHONE or MONITOR button is OFF.
- Set the MEMORY switch of the Proprietary telephone to “PROGRAM”.

### Storage

- You may dial 01 through 88 instead of 9.
  - 9 - - - Each extension can automatically select an idle CO line.
  - 91 through 88 - - - Each extension can select a trunk group designated.
  - 9 or 81 through 88 must be dialed for storage.

### To Correct an Error while Programming

- After pressing the CLEAR button, reprogram the correct number.
- The TRANSFER button is used as the CLEAR button.

### To Change a Stored Number

Repeat "Storage" above.

### To Confirm a Stored Number

Repeat programming the same number into the same station.

### To Erase after Programming

- The TRANSFER button is used as the CLEAR button.

#### Description

There are 12 memory locations for automatic dialing available. (KX-T123230, KX-T123220, KX-T61631, KX-T61630, KX-T61620, KX-T61620, KX-T30830, KX-T30820)

There are 3 memory locations for automatic dialing available. (KX-T123250, KX-T61050, KX-T30850)

Up to 16 digits can be stored into each of the 12 or 3 memory locations. Pushing the “*”, “#”, “-”, “FLASH”, “PAUSE” or “ICM (Secret)” button counts as 1 digit.

- For your convenience, program private phone numbers into the KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630, KX-T61620, KX-T61620, KX-T61650, KX-T30830, KX-T30820 or KX-T30850.
Programming
Be sure the handset is in the cradle and the SP-PHONE or MONITOR button is OFF.

1. Set the MEMORY switch to "PROGRAM". "PILT-PGM NO ? +" will be displayed.
2. Press a programmable feature button.
   The LCD will show "M01/P : Not Stored" when nothing is stored in the programmable feature button "1".
   When automatic line access number 9 and the phone number 123-456-7890 has been stored, "M01/P : 9-123-456-" will be displayed.
3. Enter the line access number.
   9: automatic line access number
   81: access number of trunk group 1
   82: access number of trunk group 2
   83: access number of trunk group 3
   84: access number of trunk group 4
   85: access number of trunk group 5
   86: access number of trunk group 6
   87: access number of trunk group 7
   88: access number of trunk group 8
4. Enter the phone number.
   • You may enter punctuations during a phone number.
     The SAVE button is used as the "-" button.
   • To erase a wrong entry, press the CLEAR button.
     The TRANSFER button is used as the CLEAR button.
   • When you don't want to display the dialed phone number on the LCD in OneTouch Dialing, press the ICM button before and after dialing the phone number that you want to keep secret. Do not press the ICM button before line access number (9 or 81 through 88).

Example:
9-123 [ICM] 456 [ICM]
press the ICM button

The display shows the following when programming.

M01/P : 9-123[456]

The display shows the following when dialing.

-123 ...

5. Press the MEMORY button.
   The MEMORY indicator will be lit.

6. Repeat steps 2 to 5, to program on other programmable feature button.

7. After programming all the numbers, return the MEMORY switch to the "SET" position.
   The MEMORY indicator will go out.

Dialing
1. Lift the handset or press the SP-PHONE button.
2. Press a programmable feature button.
   • You may press the CO button to select the CO line directly after lifting the handset or press the SP PHONE button.

Conditions
• Use the "→ (FWD/DND)" or "← (CONF)" button for scrolling the display from side to side.
• The dialed phone number will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-161630 / KX-130830. The dialed phone number can be kept secret by not being displayed also.
• The combinations of speed dialing, one-touch dialing and manual dialing is possible.
• The line access number (9) or trunk group access number (81 through 88) should be stored.
• Continuous use of one touch dialing is possible.

Example:
[PROGRAMMABLE FEATURE 1]
[PROGRAMMABLE FEATURE 2]

In this case, programmable feature button "2" should not include the line access number or trunk group access number.

• When dialing, the pause is automatically entered after line access number (9) or trunk group access number (81 through 88) should be stored.
• Features that can be accessed by using the dialing button also can be programmed into memory.

Refer to "One Touch Access for System Features" page 4-48.

Examples:
Automatic line access number 9 and phone number 123-4567 into the programmable feature button "1".

Programming:
Set the MEMORY switch to "PROGRAM" position.
Press [PROGRAMMABLE FEATURE 1] [Dial] [9] [123-4567]
Press [MEMORY]
Return the MEMORY switch to "SET" position.

Dialing
Lift the handset.
Press [PROGRAMMABLE FEATURE 1]
• You may press the CO button to select the CO line directly after lifting the handset.
### Calling Doorphone

**Calling doorphone 1**

Lift handset or press SP-PHONE

Dial "311"

**Calling doorphone 2**

Lift handset or press SP-PHONE

Dial "312"

### Operator Call

- Lift handset or press SP-PHONE
- Dial "0"
- Dial "0" or "1" ('0': for Operator 1, '1': for Operator 2)

**Description**

You can call the operator within the KX-T123210 system. This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-9.

**Operation**

1. Lift the handset or press the SP-PHONE button.
2. Dial (0).
3. Dial (0) for calling the operator 1.
   Dial (1) for calling the operator 2.
   - In case one operator is programmed, you have only to dial 0.

### Distinctive Dial Tone

**Description**

A distinctive dial tone will be heard from the handset if the extension user has previously activated a special feature.

**Operation**

None

**Conditions**

- There are two types of dial tones.
  - Dial tone 1: ordinary dial tone
  - Dial tone 2: when any of the following features are activated:
    - Pickup Dial
    - (only a standard telephone)
    - Do not Disturb.
    - Dial Call Pickup Deny
    - Call Forwarding.

- 1 sec

---

### Description

Up to two doorphones (KX-T30865) can be connected to the KX-T123210.

**Operation**

Dialing to the doorphones

1. Lift the handset or press the SP-PHONE button.
2. Dial (311) for calling doorphone 1.
   Dial (312) for calling doorphone 2.
   - "Door Phone-1" or "Door Phone-2" will be displayed.
3. Wait for the confirmation tone and then start talking.
4. Hang up or press the SP-PHONE button upon completion of the conversation.

**Conditions**

- The features, for instance, hold, transfer and so on, can not be activated by the doorphone.
When a Line is Busy

Automatic Call Back Busy (Camp-on)

<table>
<thead>
<tr>
<th>Setting</th>
<th>When hearing a recall for camp-on</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For outside (trunk) calls</strong></td>
<td><strong>When outside calls</strong></td>
</tr>
<tr>
<td>CO</td>
<td>Lift handset or press SP-PHONE</td>
</tr>
<tr>
<td>Press CO</td>
<td>You will hear CO dial tone</td>
</tr>
<tr>
<td>If you will hear a busy tone</td>
<td></td>
</tr>
<tr>
<td>Dial “6”</td>
<td>Hang up or press SP-PHONE</td>
</tr>
<tr>
<td>Confirmation tone of 2 beeps will be heard</td>
<td></td>
</tr>
<tr>
<td><strong>For intercom calls</strong></td>
<td><strong>When intercom calls</strong></td>
</tr>
<tr>
<td>Dial extension number (100 through 199)</td>
<td>Lift handset or press SP-PHONE</td>
</tr>
<tr>
<td>If you will hear a busy tone</td>
<td>You will hear ring back tone</td>
</tr>
<tr>
<td>Dial “6”</td>
<td>Hang up or press SP-PHONE</td>
</tr>
<tr>
<td>Confirmation tone of 2 beeps will be heard</td>
<td></td>
</tr>
</tbody>
</table>

Description

If the intercom extension or the outside line (CO line) you have dialed is busy, you will be automatically called back when the extension or the outside line (CO line) becomes free using this function. This feature is also known as camp-on.

Operation

Setting

1. Lift the handset or press the SP-PHONE button.
2. For intercom calls, dial the extension number.
   For outside calls, press the CO button or dial (9 or 81 through 88).
3. Dial (6) after a busy tone is heard.
4. Wait for the confirmation tone.
   “Call back CO 01” or “Call back Ext 105” will be displayed.
5. Hang up or press the SP-PHONE button.

When hearing a recall for camp-on:

Lift the handset or press the SP-PHONE button.

- When using an intercom call, you will hear the ring back tone.
- When using an outside call, you will hear the CO dial tone.

Conditions

- Lifting the handset (or pressing the SP-PHONE button) during the camp-on mode will cause the camp-on feature to be cancelled.
- An extension may be the recipient of more than one call back busy, the call backs will be executed in the order of their arrival.
- If a call back is not answered at the originating extension within 10 seconds, the call back will be cancelled.

Recall for camp-on

1 sec
**Last Number Redial**

**Description**
The last phone number dialed on an outgoing call (CO line) can be redialed.

**Operation**
1. Lift the handset or press the SP-PHONE button.
2. Press the REDIAL button.
   - You may press the CO button to select the CO line directly after lifting the handset or pressing the SP-PHONE button.
   - You may dial 8 and the trunk group number (1 through 8) to select the trunk group directly after lifting the handset or pressing the SP-PHONE button.

**Conditions**
- Up to 32 digits can be stored and redialed. Pushing the "*" "#" or "PAUSE" button counts as 1 digit.
- When calling or while in the conversation mode, pressing the REDIAL button will cause the redial to operate after about 3 seconds.

**Busy Station Signaling**

**Description**
If the extension you have dialed is busy, you can inform the extension that another intercom call is waiting by three beeps.

**Operation**
1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number.
3. When you will hear a busy tone, dial (1) and wait for an answer.

**Conditions**
- To answer your signal, see "Call Waiting" on page 4-20.
- If the other party is setting "Call Waiting Tone-From Extension Deny" on page 4-42 or is using data equipment, you may not be able to use this feature. A reorder tone is heard after dialing 1.
Executive Override (Barge-In)

Description
Allows an extension user to intrude into another extension that is in conversation with an outside or inside party.
For the use of this feature, the extension is required to be set for this feature beforehand in the KX-T123210. For programming, see page 3-73.

Operation
1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number.
3. When you hear a busy tone, dial (2). A 3-party conference will now be established.

To terminate one caller and talk to the other caller.
- If the conference parties are one outside caller and one extension:
  To talk to the outside party, press the CO button.
  To talk to the extension party, press the ICM button.

Conditions
- If the other party is using data equipment or is set for "Executive Override Deny" on page 4-32, you can not intrude into the other party that is in conversation. A reorder tone is heard after dialing 2.
Receiving Calls

**Answer**

Lift the handset or press the SP-PHONE button.

- When receiving an intercom call, you may press the ICM button whose indicator is flashing quickly and talk. (Hands-free mode)
- When receiving an outside call, you may press the CO button whose indicator is flashing red quickly and talk. (Hands-free mode)
- When the “Automatic Answering Selection” feature (on page 4-51) is selected “Prime Line Preference-Incoming” in the extension and any incoming calls from the Central Office are received at the same time except preferred CO line, you must lift the handset and then press the CO button whose indicator is flashing (red color) quickly.
- When the “Automatic Answering Selection” feature (on page 4-51) is selected “No Line Preference-Incoming” in the extension and outside call reaches, lift the handset and then press the CO button whose indicator is flashing (red color) quickly.

**Conditions**

If a call is received through the CO line which is not assigned to the CO button of an extension, the extension can not receive the CO call. Therefore, if the extension user wants to receive the CO call, the CO line is required to be assigned to the CO button. To assign the CO button to the CO line, there are 3 ways as follows.

- Way to change into other CO numbers (on page 4-53)
- Way to assign to trunk group access number (on page 4-53)
- Way to change into other all CO numbers which are not assigned to CO button. (on page 4-55)

**Automatic Answer-Intercom**

**Setting**

Press AUTO ANS
(Indicator will be lit)

**To cancel**

Press AUTO ANS
(Indicator will go out)

**Description**

- Allows an extension user to answer an intercom call in the automatic hands-free mode without any operation when receiving an intercom call.

**Operation**

1. For setting, press the AUTO ANS button. The AUTO ANS indicator will be lit.
2. For cancellation, press the AUTO ANS button again. The AUTO ANS indicator will go out.

**Description**

- This feature is required to be set beforehand while the unit is not in use.
- The KX-T123250, KX-T61650 or KX-T30850 will not function for Automatic Answer.
**Description**
An extension user can answer any ringing extension within their own extension group.

**Operation**
1. Lift the handset or press the SP-PHONE button.
2. Dial (40) and wait for the confirmation tone.
3. Start talking.

**Conditions**
- Dial Call Pickup will work for incoming calls (intercom, outside and doorphone) but will not work for camp-on recall and hold recall.
- If a ringing extension is outside the extension group or is in the do not ring mode, then a reorder tone will be heard through the use of this feature.
- Refer to “Extension Group Assignment” on page 3-63.
- Dial Call Pickup can use with the present call placed on hold.

---

**Description**
An extension may answer an incoming call that is ringing at another extension regardless of the extension group.

**Operation**
1. Lift the handset or press the SP-PHONE button.
2. Dial (4) and then the extension number (100 through 199) at which call is ringing.
3. Wait for confirmation tone and then start talking.

**Conditions**
- It is possible to answer calls outside your assigned extension group.
- Directed Call Pickup can be used with the present call placed on hold.

**Example:**
Mr Brown's extension number is 110. He is now out of the office.
Mark receives the call instead of Mr Brown with the telephone on his desk (extension 120).
Call Park

To park a call

1. Press the HOLD button.
2. Dial "2".
3. Dial the parking station number (20 through 29).
4. Hang up or press SP-PHONE button.

If a busy tone is heard after the parking station number is dialed, dial only last 1 digit of the other parking station number (0 through 9).

To retrieve a parked call at any extension

1. Lift the handset or press SP-PHONE button.
2. Dial "5".
3. Dial the parking station number (20 through 29).
4. Wait for the confirmation tone and then start talking.

Description

Extension user can place up to ten calls in the park zones. Allows any extension user to retrieve a parked call (intercom or outside) on hold at any extension.

Operation

To park a call

1. You are in conversation with an internal or outside party.
2. Press the HOLD button.
3. Dial (2).
4. Dial the parking station number (20 through 29).
   - When dialing (20), "Call Prked at 20" will be displayed.
   - A confirmation tone will be heard.
   - If a busy tone is heard, dial only last 1 digit of the other parking station number (0 through 9).
5. Hang up or press the SP-PHONE button.

To retrieve a parked call at any extension.

1. Lift the handset or press the SP-PHONE button at any extension.
2. Dial (5).
3. Dial the parking station number (20 through 29) on which the call is placed on hold.
4. Wait for the confirmation tone and then start talking.

Conditions

- Up to ten calls can be parked.
- If a parked call is not retrieved by an extension within 3 minutes, a hold time reminder will be sounded at the extension who placed the call on hold.
  - There are 9 choices ranging from 1 to 9 minutes for the hold time reminder.
  - For programming, see the page 3-25.

Example:

Mark is talking with extension 130 on his desk, and then moves to another room placing the call park.

He resumes the conversation using another extension.

Press the HOLD button, dial 2, dial 20 (parking station number), hang up and then go to Mr. Jay's office.

Dial 5 and the parked station number 20 at Mr. Jay's office.
Calling from Doorphone

Press doorphone button 1 second

Confirmation tone

Talk

To answer a doorphone

Lift handset or press SP-PHONE

Description
A different ringing pattern is used to distinguish intercom calls from incoming outside calls.

Operation
None

Conditions
- If calls from doorphones are not answered within 15 seconds, the calls will be cancelled.
- Ring from doorphone.

Incoming outside calls (including outside hold recall)

Intercom calls (including intercom hold recall)

Doorphone calls

Each extension has been programmed beforehand for receiving from doorphones. See “Ringing Assignment from Doorphone” on page 3-75.
While Having a Conversation

Call on Hold

<table>
<thead>
<tr>
<th>To place a call on hold:</th>
<th>To retrieve:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HOLD</strong></td>
<td>(Outside calls on hold)</td>
</tr>
<tr>
<td>Press HOLD</td>
<td>• at the holding extension</td>
</tr>
<tr>
<td>Confirmation tone of 2 beeps will be heard</td>
<td></td>
</tr>
</tbody>
</table>

- **ICM** (flashing slowly)

- **CO** (flashing slowly in green)

- **CO** (flashing slowly in red)

- Dial "5" and then the extension (100 through 199) or CO (301 through 312) number of the phone on which the call was placed on hold.

**Description**

If you wish to leave your phone unattended but want the caller you are in conversation with to wait, call hold may be used. Outside or intercom calls may be placed on hold. Calls on hold can be released by other extensions.

**Operation**

1. You are in conversation with an outside or internal party.
2. Press the HOLD button.
   - The indicator of CO or ICM button which is on hold will flash slowly (green color).
   - The confirmation tone of 2 beeps will be heard.

**To Retrieve at the holding extension,**

- press the CO or ICM button (flashing green).
  - The indicator light will return to a steady green.

**To Retrieve from another extension,**

- press the CO button (flashing slowly in red).
  - or

- dial (5) and then the extension (100 through 199) or CO (301 through 312) number of the phone on which the call was placed on hold.

- The green flashing indicator at the held extension will turn to red.

**Conditions**

- An Intercom hold can be activated on one extension only.
- Outside Call holds can be activated on all CO's.
- Calls on hold will be recalled either after 30 seconds, 1 minute, 1 minute and 30 seconds or 2 minutes, once handset is replaced (or the SP-PHONE button is pressed).
  - If hold recall time is set to "Disable", it will not be recalled.
  - Refer to "Hold Recall Time Set" on page 3-26.
- If a call is placed on hold for more than 3 minutes, a hold time reminder will be sounded and the call will be terminated automatically after 30 minutes.
  - A hold time reminder is sounded through the built-in speaker of the extension.
  - There are 9 choices ranging from 1 minute to 9 minutes in the hold time reminder.
  - For programming, see the page 3-25.
- The hold time reminder is activated, even if the hold recall time set is programmed to "Disable".
- When lifting the handset (or press the SP-PHONE button):
  - before recalling - - - - A dial tone will be heard with the call on hold.
    - You may dial another phone number.
  - while recalling - - Only the first call on hold will be released and entered into the conversation mode.
Call on Exclusive Hold

To place a call on exclusive hold:

- Press HOLD.

To retrieve:

(Outside calls on hold)

- Press CO.

(Intercom call on hold)

- Press ICM.

Description

Intercom or outside calls placed on exclusive hold cannot be released by any extension other than the phone which has placed the call on hold.

Operation

1. You are in conversation with an outside or internal party.
2. Press the HOLD button.
   - The indicator of CO or ICM button which is on hold will flash slowly (green color).
   - A confirmation tone of 2 beeps will be heard.
3. Press the HOLD button, again.
   - The indicator will flash in groups of 2 (green color).
4. To retrieve, press the ICM button or the CO button whose indicator is flashing in groups of 2 (green color).
   - The indicator on the ICM or CO button will return to a steady green.

Conditions

- An Intercom hold can be activated on one extension only.
- Outside Call holds can be activated on all CO’s.
- Calls on hold will be recalled either after 30 seconds, 1 minute, 1 minute and 30 seconds or 2 minutes, once handset is replaced (or the SP-PHONE button is pressed). If hold recall time set is set to “Disable”, will not be recalled. Refer to “Hold Recall Time Set” on page 3-26.
- If a call is placed on hold for more than 3 minutes, a hold time reminder will be sounded, and the call will be terminated automatically after 30 minutes.
  - A hold time reminder is sounded through the built-in speaker of the extension.
  - There are 9 choices ranging from 1 to 9 minutes for the hold time reminder.
  - For programming, see the page 3-25.
- The hold time reminder is activated, even if the hold recall time set is programmed to “Disable”.
- When lifting the handset (or press the SP-PHONE button):
  - before recalling ... A dial tone will be heard with the call on hold.
    - You may dial another phone number.
  - while recalling ... Only the first call on hold will be released and entered into the conversation mode.
###Conference

![Conference Diagram](image)

**Description**

Allows for up to a three party conference, (2-outside / 1-inside) (1-outside / 2-inside) or (3-inside).

**Operation**

1. Press the CONF button, to place the first party on hold.

2. Dial the number of the second party.
   - If second party does not answer, press the CO button of the outside party concerned, or the ICM button to return to the first party.

3. Press the CONF button.
   - A confirmation tone will be heard.
   - 3 party conference is now established.
   - "Ext 102 & CO 02" will be displayed

- You may press the HOLD button instead of the first CONF button.

**To terminate one caller and talk to the other caller.**

- If both the conference parties are on an outside line:
  - Press the CO button to talk to the desired party.

- If the conference parties are an outside caller and an extension caller:
  - To talk to the outside party, press the CO button.
  - To talk to the extension party, press the ICM button.

**To place the other two parties on hold at the same time.**

- Press the HOLD button.

- In case the other two parties are on the extension, the other two parties can not be placed on hold.

**Conditions**

- Pressing a CO button which is out of conference, allows you to exit from the conference and to access an outside party and the other parties to be connected together.

- If the other parties are outside ones, they are disconnected.

- If the other parties are on the outside and extension, they are connected.

- When both the conference parties are on the extension, even if anyone of the conference parties press the ICM button, a three party conference is gone on.
While you are speaking on a CO line,

- Before pressing the CO button, inform another extension user to join into the conversation by word of mouth.

### Description

Allows an extension user that is in conversation with an outside party to make a three party conference by having another extension join into the conversation.

### Operation

1. You are in conversation with an outside party.

2. Inform another extension user to join into the conversation by word of mouth.

3. Press the CO button that you are using, and the CO indicator of the other extensions will quickly flash (green color) for 5 seconds.

4. When another extension user that want to join into the conversation presses the CO button whose indicator is quickly flashing (green color) within 5 seconds, a confirmation tone will be heard at another extension.

3 party conference is now established.

(_1-outside / 2-inside_)

### Conditions

- After an extension user presses the CO button, the indicator of the other extension will flash for only 5 seconds.

Pressing of the CO button again will add another 5 seconds.

### To terminate one caller and talk to the other caller.

To talk to the outside party, press the CO button.

To talk to the extension party, press the ICM button.

### To terminate conference. (1-outside/2-inside)

Replace the handset back on hook or press the SP-PHONE button.

- The other two parties will be directly connected together and can converse with each other.
Call Transfer - To Extension

To transfer a call after the other extension answers

- Press TRANSFER
- Dial extension number (100 through 199)
- Announce and wait for an answer
- Hang up or press SP-PHONE

To transfer a call without announcing to the other extension

- Press TRANSFER
- Dial extension number (100 through 199)
- Hang up or press SP-PHONE

To retrieve the Call

If the other extension does not answer the transferred call within 30 seconds after the call has been transferred, the call will return to you. In this case:

While the ring back is heard,

Lift handset to return to the calling party

Description

Outside or intercom calls may be transferred to any extension manually.

Operation

1. You are engaged in a call (outside or intercom).
2. Press the TRANSFER button.
3. Dial number of extension (100 through 199) to which the call is transferred.
4. For Unscreened call transfer, replace the handset or press the SP-PHONE button.
   For Screened call transfer, wait for new party to answer and announce call, then replace the handset or press the SP-PHONE button.

To change the party to whom a call is transferred before hanging up

Press the CO or ICM button whose indicator is flashing slowly to retrieve the call, then repeat the procedure of Call Transfer.

Conditions

- Upon recall to the transferring extension, if call is not answered within 30 minutes it will be terminated.
- When busy, you may access the other extension by dialing 1 (Busy station signaling) or dialing 2 (Executive Override) and hang up. Also you may return to the calling party by pressing the CO or ICM button whose indicator is flashing slowly (green color).
- The time that the call returns to you when the transferred call is not answered can be changed from 30 seconds to 15 seconds. For changing, see page 3-27.
**Call Transfer - To Outside Line**

**Description**
Outside or intercom calls may be transferred to any outside line manually. This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-71.

**Conditions**
- Even if you dial the incorrect phone number to which the call is transferred, it is possible to redial the correct phone number after pressing the FLASH button.
- If outside call is transferred to any outside line, the KX-T123210 will disconnect the call from the line after 10 minutes. For changing the time, see “CO to CO Duration Time Limit” on page 3-30. 3 beeps tone will be heard every 5 seconds for 15 seconds before the call is disconnected from the line.
- If the outside call is transferred to another outside line through the KX-T123210, the KX-T123210 may not disconnect both lines after the calling party hangs up if the calling parties line (central office exchange) does not release a CPC (Calling Party Control) signal to the line. However the KX-T123210 will disconnect the line after the time that you have programmed. (See page 3-30.)

**Operation**
1. You are engaged in a call (outside or intercom).
2. Press the TRANSFER button.
3. Press the CO button to which the call is transferred.
4. Dial the phone number to which the call is transferred.
5. For Unscreened call transfer, replace the handset back on hook or press the SP-PHONE button.
   For Screened call transfer, wait for new party to answer and announce call, then replace the handset back on hook or press the SP-PHONE button.

To change the party to whom a call is transferred before hanging up
Press the CO button whose indicator is flashing slowly to retrieve the call, then repeat the procedure of Call Transfer.
Call Waiting

To terminate the original call and talk to the new caller.

- Press CO or ICM whose indicator is flashing quickly. The original call is now terminated.
- Press CO or ICM whose indicator is flashing slowly to terminate the second call and to return to the original call.

To place the original call on hold and talk to the new caller.

- If both original call and new call are intercom calls:
  (The ICM indicator will change into quickly flashing when the new call is reached.)
  1. You will hear a call waiting tone (3 beeps).
  2. Press the HOLD button for placing a conversation on hold.
  3. Consult with the new caller.
  4. Press the ICM button to terminate the second call and to return to the original call.

Description
Call waiting tone during a conversation indicates there is a new incoming CO line call or Intercom call. This feature has been set beforehand in the extension. See page 4-42.

Conditions
- If a call waiting tone is heard and the CO or ICM indicator does not flash, this tone indicates a call waiting tone by your telephone company. In this case, see “Call Waiting-Outside Line” on page 4-38.
Call Splitting — Between CO and Intercom

Description

Allows an extension user to alternate between a CO party and an intercom party.

Operation

1. Press the HOLD button to place the first party on hold.

2. Dial the second party.

3. Consult with the second party.

4. Press the HOLD button to place the second party on hold.

5. Press the CO or ICM button whose indicator is flashing slowly.

6. Consult with the first party.

7. Press the HOLD button to place the first party on hold.

8. Press the ICM or CO button whose indicator is flashing slowly.

9. Consult with the second party.

10. Repeat step 4 to 9.

Conditions

- To release the call splitting mode, press the CO or ICM button without pressing the HOLD button. Conversation will be terminated and call on hold will be returned into conversation.
Description

Allows an extension user to alternate between two intercom parties.

Operation

1. Press the HOLD button to place the first party on hold.
2. Dial the second party.
3. Consult with the second party.
4. Press the HOLD button to place the second party on hold.
5. Consult with the first party.
6. Press the HOLD button to place the first party on hold.
7. Repeat step 3 to 6.

Conditions

- To release the call splitting mode, press the ICM button instead of the HOLD button. Conversation will be terminated and call on hold will be returned into conversation.

Mute Operation

To enable

Be sure the SP-PHONE indicator is on.

Press MUTE

- The MUTE indicator will flash.

To cancel

Press the MUTE button again.

- The MUTE indicator will go out.

Description

Use when you do not want your voice to be heard by the other party.

Operation

To enable

Be sure the SP-PHONE indicator is on.

Press the MUTE button.

- The MUTE indicator will flash.

To cancel

Press the MUTE button again.

- The MUTE indicator will go out.

Conditions

- This feature can be activated only in the speakerphone mode.
Switching between Using Handset and Hands-free

To Use the Handset
While having a conversation using speakerphone

To Use the Hands-free
While having a conversation using the handset

Description
You may choose the handset or hands-free.

Operation
To use the handset
While having a conversation using speakerphone;
lift the handset.

To use hands-free
While having a conversation using the handset;
1. Press the SP-PHONE button.
2. Hang up the handset.

- When the other party finds it difficult to hear your voice:
  Lower the sound level using the SPEAKER VOLUME CONTROL or speak louder.
- Absorbing echoes:
  Use in a room which has curtains or carpeting.
- To avoid lost conversations:
  If some part of the conversation is lost while talking, speak alternately.

Paging

Paging All Extensions

To access
Lift handset or press SP-PHONE
Dial "330"
Confirmation tone of 1 beep will be heard

Page
Wait for an answer and talk

Paging will be heard only from the built-in speaker of proprietary telephone.

Description
Allows paging to all extensions.
The page can only be heard from either proprietary telephones (KX-T123230, KX-T123220, or KX-T123250, etc).

Operation
To access paging:
1. Lift the handset or press the SP-PHONE button.
2. Dial (330) and wait for confirmation tone (one beep).
   "Paging All Ext" will be displayed.
   - You may dial (33*) instead of (330).
4. Wait for an answer and talk.

Conditions
- When an extension is in use, that extension cannot gain access to paging.
- When any extension is using the paging (all extensions or group), you cannot access to paging.
**Paging Group**

**To access**

<table>
<thead>
<tr>
<th>Lift handset or press SP-PHONE</th>
<th>Dial “33”</th>
<th>Dial extension group number (1 through 8)</th>
<th>Confirmation tone</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Phone icon]</td>
<td>![Phone icon]</td>
<td>![Phone icon]</td>
<td>![Phone icon]</td>
</tr>
<tr>
<td>![Page icon]</td>
<td>Wait for an answer and talk</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Paging will be heard only from the built-in speaker of proprietary telephone.

**Description**

Allows paging to one of eight extension groups. The page can only be heard from either proprietary telephones (KX-T123230, KX-T123220 or KX-T123250 etc).

**Operation**

To access paging:

1. Lift the handset or press the SP-PHONE button.
2. Dial (33).
3. Dial the extension group number (1 through 8).
   A confirmation tone (one beep) will be heard.
4. Start paging.
5. Wait for an answer and talk.

**Conditions**

- If an extension is in use, that extension will not gain access to paging.
- Refer to “Extension Group Assignment” on page 3-63.

---

**Paging — External**

**To access**

<table>
<thead>
<tr>
<th>Lift handset or press SP-PHONE</th>
<th>Dial “32”</th>
<th>Dial external paging number</th>
<th>Confirmation tone</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Phone icon]</td>
<td>![Phone icon]</td>
<td>![Phone icon]</td>
<td>![Phone icon]</td>
</tr>
<tr>
<td>![Page icon]</td>
<td>Wait for answer and talk</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Paging will be heard from external paging equipment (1 and/or 2).

**Description**

Allows access to external paging equipment.

**Operation**

To access external paging:

1. Lift the handset or press the SP-PHONE button.
2. Dial (32).
3. Dial the external paging number (0 through 2) and wait for confirmation tone (one beep).
   - 0: for external paging 1 and 2
     - “Extrnl Page 1 & 2” will be displayed.
   - 1: for external paging 1
     - “Extrnl Page 1” will be displayed.
   - 2: for external paging 2
     - “Extrnl Page 2” will be displayed.
4. Start paging.
   When the page is answered, one beep will be heard. Start talking.

**Conditions**

- If external paging access tone is set to “Disable”, confirmation tone from external paging equipment will not be heard after accessing the external paging.
  Refer to “External Paging Access Tone” on page 3-41.
To transfer a call to the paged person:

1. You are in conversation.
2. Press the TRANSFER button.
3. Dial (330) for paging all extensions.
   - Dial (331) for paging extension group 1.
   - Dial (332) for paging extension group 2.
   - Dial (333) for paging extension group 3.
   - Dial (334) for paging extension group 4.
   - Dial (335) for paging extension group 5.
   - Dial (336) for paging extension group 6.
   - Dial (337) for paging extension group 7.
   - Dial (338) for paging extension group 8.
   - Dial (320) for external paging 1 and 2.
   - Dial (321) for external paging 1.
   - Dial (322) for external paging 2.
   - Wait for confirmation tone.
4. Start paging.
5. Wait for an answer.
6. Hang up or press the SP-PHONE button.

To page from built-in speaker:

1. Lift the handset or press the SP-PHONE button.
2. Dial (43) and wait for confirmation tone (one beep).
3. Start talking.

To page from External Equipment:

1. Lift the handset or press the SP-PHONE button.
2. Dial (42).
3. Dial the external paging number (1 or 2) and wait for confirmation tone (one beep).
   - "1" for external paging 1.
   - "2" for external paging 2.

Conditions

- If a call and CO number has been paged and transferred, you may answer by pressing the CO button whose number has been paged and indicator is flashing slowly (red color), instead of dialing 43, 421 or 422.
Use of Other Features

Call Forwarding — All Calls / Busy or No Answer

Setting

### All Calls
- **Description:**
  All intercom calls to your extension can be automatically forwarded to any extension within the system.
  For outside calls to your extension, if your extension is set to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.
  For programming to the DIL mode, see page 3-54.

- **Operation:**
  1. Lift the handset or press the SP-PHONE button.
  2. Press the FWD/DND (or F3) button.
  3. To forward all calls, dial (1).
  4. To forward calls when your extension is busy or does not receive, dial (2).
  5. Dial the number of the extension to which the calls are to be forwarded (100 through 199).
  6. Hang up or press the SP-PHONE button. The FWD/ DND indicator will flash.

### Busy or No Answer
- **Description:**
  If your extension is busy or does not answer the call within 3 rings ("Call Forwarding Starting Time" on page 3-28 can change from 3 rings to 1 ring, 2 rings or 4 rings.), Intercom calls to your extension can be automatically forwarded to any extension within the system.
  For outside calls to your extension, if your extension is set to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.

- **Operation:**
  1. Lift the handset or press the SP-PHONE button.
  2. Press the FWD/DND (or F3) button.
  3. Dial "1" or press SP-PHONE (F3).
  4. Dial extension number to whom the call is forwarded.
  5. Dial "#".
  6. Hang up or press SP-PHONE.

---

### To cancel
- **Description:**
  If your extension is busy or does not answer the call within 3 rings ("Call Forwarding Starting Time" on page 3-28 can change from 3 rings to 1 ring, 2 rings or 4 rings.), Intercom calls to your extension can be automatically forwarded to any extension within the system.
  For outside calls to your extension, if your extension is set to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.

- **Operation:**
  1. Lift the handset or press the SP-PHONE button.
  2. Press the FWD/DND (or F3) button.
  3. Dial "0" or press SP-PHONE (F3).
  4. Dial "#".
  5. Hang up or press SP-PHONE.
To cancel
1. Lift the handset or press the SP-PHONE button.
   The indicator light of the FWD/DND button will be off.

2. Press the FWD/DND (or F3) button.

3. Dial (0).

4. Dial the (#) button.
   A confirmation tone will be heard.
   "FWD/DND Cancel" will be displayed.

5. Hang up or press the SP-PHONE button.

Conditions
- Do Not Disturb is cancelled when call forwarding is established.
- Recall for camp-on and Hold recall are not forwarded.

- The tone (busy tone or do not disturb tone etc.) the caller receives depends on the condition of the forwarded extension.

- When an intercom call to the forwarding extension is originated from the forwarded extension, the forwarded extension user will hear a reorder tone.

- This feature will not function in "Automatic Answer" mode on page 4-10 and "Intercom Voice Alerting" mode on page 4-56.

- An extension can not accommodate more than one forwarded extension.
  At each time of newly setting "Call Forwarding", a destination (forwarded extension code) will be renewed.
  Old entry will be canceled.

- If extension A is forwarding all calls to extension B and B is forwarding all calls to C,
  if any extension calls A, they will be connected to B and can not be connected to C.
  Call Forwarding can be connected to only 1st forwarded extension.

- Any extension calls A can not be forwarded to C.
**Call Forwarding-To Outside Line**

### Setting

1. Lift the handset or press the SP-PHONE button.
2. Press the FWD/DND (or F3) button.
3. Dial (3).
4. Dial (9).
5. Dial (0).
6. Dial (#).
7. You may dial 81 through 88 instead of 9.
   - Each extension can automatically select an idle CO line.
8. 81 through 88 ...... Each extension can select a trunk group designated.
9. Hang up or press the SP-PHONE button.

### To cancel

1. Lift the handset or press the SP-PHONE button.
2. Press the FWD/DND button.
3. Dial (0).
4. Dial (#).
5. Hang up or press the SP-PHONE button.

### Description

Intercom calls to your extension can be automatically forwarded to any outside line. For outside calls to your extension, if your extension is set to the Direct In Line (DIL) mode the outside calls can be automatically forwarded to any outside line.

For programming to the DIL mode, see page 3-54.

This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-72.

The programmable feature (F3 only) button of the KX-T123250, KX-T61650 or KX-T30850 can also be used for “Call Forwarding” if programming is done beforehand in the extension. For programming, see page 4-60.

### Operation

#### Setting

1. Lift the handset or press the SP-PHONE button.
2. Press the FWD/DND (or F3) button.
3. Dial (3).
4. Dial (9).
5. The indicator light of the FWD/DND button will be off.
6. Dial (0).
7. Dial (#).
8. You may dial 81 through 88 instead of 9.
   - Each extension can automatically select an idle CO line.
9. 81 through 88 ...... Each extension can select a trunk group designated.
10. Dial the phone number of the outside line to which the calls are to be forwarded.
11. Dial (#).
12. A confirmation tone will be heard.
   - “FWD (All) All COs” or “FWD (All) CO G1” will be displayed.
13. Hang up or press the SP-PHONE button.
   - The FWD/DND indicator will flash.

### To cancel

1. Lift the handset or press the SP-PHONE button.
2. The indicator light of the FWD/DND button will be off.
3. Press the FWD/DND (or F3) button.
4. Dial (0).
5. Dial (#).
6. A confirmation tone will be heard.
   - “FWD/DND Cancel” will be displayed.
7. Hang up or press the SP-PHONE button.

### Conditions

- Do Not Disturb is cancelled when call forwarding is established.
- Recall for camp-on and Hold recall are not forwarded.
- The phone number to whom the call is forwarded is used from 0 to 9 and pause except and #. A maximum of phone number is 32 digits (Automatic line access number 9 or trunk group access number 81 through 88 is included).
- If outside call is forwarded to any outside line, the KX-T123210 will disconnected the call from the line after 10 minutes. For changing the time “CO to CO Duration Time Limit” on page 3-30. 3 beeps tone will be heard every 5 seconds for 15 seconds before the call is disconnected from the line.
- If the outside call is forwarded to another outside line through the KX-T123210, the KX-T123210 may not disconnect both lines after the calling party hangs up if the calling parties line (central office exchange) does not release a CPC (Calling Party Control) signal to the line. However the KX-T123210 will disconnect the line after the time that you have programmed. (See page 3-30.)
**Description**

Allows you to prohibit any other extension user from answering calls directed to you.

**Conditions**

While your extension is in the “Dial Call Pickup Deny” mode, you can place or receive outside or intercom calls.

**Operation**

**Setting**

1. Lift the handset or press the SP-PHONE button.
2. Dial (721#).
   - Wait for a confirmation tone.
   - “C.Pickup Deny” will be displayed.
3. Hang up or press the SP-PHONE button.

**To cancel,**

1. Lift the handset or press the SP-PHONE button.
2. Dial (720#).
   - Wait for a confirmation tone.
   - “C.Pickup Allow” will be displayed.
3. Hang up or press the SP-PHONE button.
Do Not Disturb

**Description**

Each extension can be individually programmed for not receiving intercom call or outside calls.

The programmable feature (F3 only) button of the KX-T123250, KX-T61650 or KX-T30850 can also be used for “Do Not Disturb” if programming is done beforehand in the extension.

For programming, see page 4-60.

**Operation**

**Setting**

1. Lift the handset or press the SP-PHONE button.
2. Press the FWD/DND (or F3) button.
3. Dial (4).
4. Dial (#).
   “Do Not Disturb” will be displayed.
   Wait for a confirmation tone.
5. Hang up or press the SP-PHONE button.
   The indicator of FWD/DND button will be lit.

**To cancel**

1. Lift the handset or press the SP-PHONE button.
   The indicator of FWD/DND button will go out.
2. Press the FWD/DND (or F3) button.
3. Dial (0).
4. Dial (#).
   “FWD/DND Cancel” will be displayed.
   Wait for a confirmation tone.
5. Hang up or press the SP-PHONE button.

**Conditions**

- When “Do Not Disturb” is entered, “Call Forwarding” will be canceled, if entered.
- “Do Not Disturb” does not prevent the extension from recalling for on-hold and camp-on.

- If calling party use the “Do Not Disturb Override” feature, the call will receive to the extension that is setting the “Do Not Disturb”.
  See the “Do Not Disturb Override” on page 4-31.
Do Not Disturb Override

Description
This feature can dial to the extension that is set for the Do Not Disturb.
This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-74.

Operation
1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number (100 through 199).
3. Do not disturb tone is heard.
4. Dial (1) and after a ring back tone is heard, wait for an answer.

Saved Number Redial

Description
The desired phone number on an outgoing call to CO line can be stored and then redialed.

Programming
When the called line is busy or while you are speaking on the CO line;
Press AUTO
Press SAVE

Dialing
Lift handset or press SP-PHONE
Press SAVE

Conditions
- Up to 32 digits can be stored and redialed.
- The KX-T123250, KX-T61650 or KX-T30850 will not function for Saved Number Redial.
Executive Override Deny

To Deny Executive Override

Lift handset or press SP-PHONE

PRS 7 DEF 3 DEF OPER 0 #

Hang up or press SP-PHONE

Dial "7330 #"

To Allow Executive Override

Lift handset or press SP-PHONE

PRS 7 DEF 3 DEF 1 #

Hang up or press SP-PHONE

Dial "7331 #"

Description

Allows you to prohibit another extension user from intruding into your conversation with an outside or inside party.
Default is "Allow" mode.
For programming of the intrusive extension, see "Executive Override" on page 3-73.

Operation

To deny Executive Override

1. Lift the handset or press the SP-PHONE button.
2. Dial (7330 #).
   "Busy Ovrde Deny" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

To Allow Executive Override

1. Lift the handset or press the SP-PHONE button.
2. Dial (7331 #).
   "Busy Ovrde Allow" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.
Switching to Tone Alerting

**Description**

"Voice alerting" (through built-in speaker) that is established at the called party's extension, can be switched to "Tone alerting" (ringing). This feature is required to be set beforehand at the called party's extension. For programming, see page 4-56.

**Operation**

1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number.
3. Wait for a confirmation tone after inter office calling.
4. Dial (*).

   The ring back tone will be heard.

   Tone Ringer on the called party's extension will be ready to be activated.

Background Music

**Description**

Music from an external source (e.g. radio) can be listened to on the built-in speaker of the proprietary telephone.

**Operation**

- Be sure the handset is in the cradle and the SP-PHONE button is off.

   **To listen**
   
   Dial (1).
   
   "BGM on" will be displayed.
   
   Music will be heard from the speaker.

   **To cancel**
   
   Dial (1).
   
   "BGM off" will be displayed.

**Conditions**

- When listening to the background music, the music will be interrupted by incoming calls, lifting handset or pressing the SP-PHONE button. After completion of the conversation replacing the handset back on the cradle or be pressing of the SP-PHONE button, will resume the background music.
Absent Message Capability

Setting

Message 1. "Will Return Soon"

Lift handset or press SP-PHONE

Dial "751#"

Hang up or press SP-PHONE

Message 2. "Gone Home"

Lift handset or press SP-PHONE

Dial "752#"

Hang up or press SP-PHONE

Message 3. "At Ext 123"

extension number

Lift handset or press SP-PHONE

Dial "753"

Message 4. "Back at 10:23 AM"

AM/PM

hour

minute

Lift handset or press SP-PHONE

Dial "754"

Enter hour (01 through 12)

Dial "0" or "1" for AM

Dial "#" for PM

Hang up or press SP-PHONE

Message 5. "Out Until 10/23"

day

month

Lift handset or press SP-PHONE

Dial "755"

Enter month (01 through 12)

Dial "#"

Hang up or press SP-PHONE

Message 6. "In a Meeting"

Lift handset or press SP-PHONE

Dial "756#"

Hang up or press SP-PHONE
**Description**

Absent messages (Message 1 through 6) which are programmed can be informed to calling party. Programming can be done at any telephone (either proprietary telephones or standard telephones).

When a caller using the proprietary telephone with LCD dials the extension in which the message is programmed, it will be displayed on the LCD.

**Operation**

**Setting**

**Message 1. “Will Return Soon”**

1. Lift the handset or press the SP-PHONE button.
2. Dial (751#)
3. Hang up or press the SP-PHONE button.

**Message 2. “Gone Home”**

1. Lift the handset or press the SP-PHONE button.
2. Dial (752#)
3. Hang up or press the SP-PHONE button.

**Message 3. “At Ext. 123”**

1. Lift the handset or press the SP-PHONE button.
2. Dial (753)
3. Dial the extension number. (100 through 199)
4. Dial (#)
5. Hang up or press the SP-PHONE button.

**Message 4. “Back at 10:23 AM”**

1. Lift the handset or press the SP-PHONE button.
2. Dial (754)
3. Enter the hour (01 through 12)
4. Enter the minute (00 through 59)
5. Dial (0) or (1).
   - Dial (0) for AM.
   - Dial (1) for PM.
6. Dial (#)
7. Hang up or press the SP-PHONE button.

**Message 5. “Out Until 10/23 ”**

1. Lift the handset or press the SP-PHONE button.
2. Dial (755)
3. Enter the month. (01 though 12)
4. Enter the day. (01 though 31)
5. Dial (#)
6. Hang up or press the SP-PHONE button.

**Message 6. “In a Meeting”**

1. Lift the handset or press the SP-PHONE button.
2. Dial (756#)
3. Hang up or press the SP-PHONE button.

Those Absent Messages will be displayed on the LCD of the calling party.

**To cancel**

1. Lift the handset or press the SP-PHONE button.
2. Dial (750#)
   - “Message Cancel” will be displayed.
3. Hang up or press the SP-PHONE button.

**Conditions**

- When a calling party dials an extension that is programmed for absent Message by using the proprietary telephone with an LCD, if the extension is idle, a ring back tone will be heard and the absent message will be displayed on the LCD of the calling party. If the extension is busy, a busy tone will be heard and the absent message will be displayed on the LCD of the calling party. If the extension is set the do not disturb, a do not disturb tone will be heard and the absent message will be displayed on the LCD of the calling party.
Message Waiting

### Setting (operator only)

<table>
<thead>
<tr>
<th>Lift handset or press SP-PHONE</th>
<th>Dial extension number (100 Through 199)</th>
<th>Press MESSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmation tone</td>
<td>Hang up or press SP-PHONE</td>
<td></td>
</tr>
</tbody>
</table>

#### To call the operator from the extension where the message is left.

<table>
<thead>
<tr>
<th>Lift handset or press SP-PHONE</th>
<th>Press MESSAGE</th>
<th>Talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmation tone</td>
<td>Hang up or press SP-PHONE</td>
<td></td>
</tr>
</tbody>
</table>

### Description

If the intercom extension operator has dialed is busy or does not answer, operator can inform the called extension that there is a message which have to be informed. It will be indicated by the MESSAGE indicator. Only the operator can leave the message to each extension.

If the called extension is not provided with the MESSAGE button, the operator can not leave the message. To change the CO, or DSS button into the message waiting button, see page 4-55 or 4-58.

### Operation Setting

1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number (100 through 199).
3. Press the MESSAGE button.
   - A confirmation tone (one beep) will be heard.
   - The MESSAGE Indicator of the called party will be lit.
4. Hang up or press the SP-PHONE button.

#### To call the operator from the extension where the message is left.

1. Lift the handset or press the SP-PHONE button.
2. Press the MESSAGE button.
   - The MESSAGE Indicator will go out.
3. Start talking

### To cancel the message at the extension where the message is left.

<table>
<thead>
<tr>
<th>Lift handset or press SP-PHONE</th>
<th>Dial 70#”</th>
<th>Hang up or press SP-PHONE</th>
</tr>
</thead>
</table>

#### To cancel the message which is left at the extension from the operator.

<table>
<thead>
<tr>
<th>Lift handset or press SP-PHONE</th>
<th>Dial extension number (100 Through 199)</th>
<th>Press MESSAGE</th>
<th>Press again</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmation tone</td>
<td>Hang up or press SP-PHONE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### To cancel the message at the extension where the message is left.

1. Lift the handset or press the SP-PHONE button
2. Dial (70#)
   - The MESSAGE Indicator will go out.
3. Hang up or press the SP-PHONE button.

#### To cancel the message which is left at the extension from the operator.

1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number (100 through 199).
3. Press the MESSAGE button.
4. Press the MESSAGE button, again.
   - A confirmation tone (two beeps) will be heard.
   - The MESSAGE Indicator of the called extension will go out.
5. Hang up or press the SP-PHONE button.

### Conditions

- This feature will not function with use of a standard telephome.
- Each extension can be received up to two messages.
- If the MESSAGE Indicator does not go out after calling the operator, it means that another message is left from another operator.
Flexible Night Service

(Extension jack number 01 only)

**To enable night service:** (To disable day service)

1. Lift handset or press SP-PHONE.
2. Dial “782#”.
3. Hang up or press SP-PHONE.

**To disable night service:** (To disable night service)

1. Lift handset or press SP-PHONE.
2. Dial “781#”.
3. Hang up or press SP-PHONE.

**Description**

Normal system operation is set for day time mode. Night service allows for outward dialing and incoming ringing assignments etc. to be rearranged via programming. Night service is enabled or disabled through extension jack number 01 using this feature, at any time. Without activating this feature, the day/night services are automatically switched at predetermined time (9:00 AM and 5:00 PM for default time) by the internal clock if the “Switching of Service Mode” in Day/Night Service Mode is selected to the “AUTO” mode in the KX-T123210. Refer to “Switching of Service Mode” on page 3-12 and “Starting Time” on page 3-13 in Day/Night Service Mode.

The following features will be switched “Day Mode” or “Night Mode”:

- “Day Mode” on page 3-17 and “Night Mode” on page 3-48 Flexible Outward Dialing Assignment.
- “Day Mode” on page 3-49 and “Night Mode” on page 3-51 Flexible Ringing Assignment.
- “Day Mode” on page 3-54 and “Night Mode” on page 3-57 CO Direct In Line Assignment.
- “Day Mode” on page 3-52 and “Night Mode” on page 3-53 Delayed Ringing Assignment.
- “Day Mode” on page 3-64 and “Night Mode” on page 3-66 Service Class Assignment of Toll Restriction.
- “Day Mode” on page 3-75 and “Night Mode” on page 3-76 Ringing Assignment from Doorphone.

**Operation**

1. Lift the handset or press the SP-PHONE button of extension of jack number 01.
2. Dial (782#) and wait for a confirmation tone. Night service is enabled. "Night Mode" will be displayed.
3. To return to day service, dial (781#) and wait for a confirmation tone. "Day Mode" will be displayed.
4. Hang up or press the SP-PHONE button.

When the unit is not use, the present mode selected will be shown by pressing the "#" button.
External Feature Access

Call Waiting - Outside Line

- Press FLASH: Consult with new caller while original call is on hold.
- Press FLASH: Consult with original caller while 2nd call is on hold.

Condition

- “Flash” can be stored into memory in the same way as “Storage” on page 4-4.
- You may access some features of host PBX using the Flash button. If KX-T123210 is connected to host PBX and flash operation is required, follow the procedure of flash operation which is required in the host PBX.

Description

Allows an extension user to access features of the central office or host PBX. (example: call waiting feature can be supplied by central office.)

The external feature (e.g. call waiting feature) can only be accessed when engaged on an outside call.

Operation

The following example shows you one of the procedures.

Call Waiting - Outside Line

1. While having a conversation, another party calls and a call waiting tone is heard.

2. Press the FLASH button.
   - The original call is placed on hold and the new call can be answered.

3. Press the FLASH button again.
   - The original caller can be spoken to again and the new call is placed on hold.
   - If the calling party on hold hangs up, the line is terminated.

4-38
Account Code

Making a Call

- Lift handset or press SP-PHONE
- Press CO
- Press FWD/DND (F3)
- Dial account code
- Wait for C.O. dial tone
- Dial phone number

Receiving a Call

If you want to record a calling party's account code in the SMDR, follow the below-mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation,

- Dialing the account code must be done before hanging up.

Making or Receiving a Call

If you want to record a calling or called party's account code in the SMDR, follow the below-mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation,

- Dialing the account code must be done before hanging up.
Description

This feature gives each message of the SMDR an account code of the called or calling party.

Station Message Detail Recording (SMDR) is a cost saving feature that records all incoming and outgoing calls through the CO line.

This feature has two modes "Forced" and "Option".

In the "Forced" mode, the account code must be entered every time the extension user dials.

In the "Option" mode, the account code may be entered when a record of the account code is needed.

When setting to the "Forced" mode, see page 3-70.

The programmable feature (F3 only) button of the KX-T123250, KX-T61650 or KX-T30850 can also be used for "Account Code" if programming is done beforehand in the extension.

For programming, see page 4-60.

Operation

Forced mode

Making a Call
1. Lift the handset or press the SP-PHONE button.
2. Press the CO button.
   The FWD/DND Indicator will flash.
3. Press the FWD/DND (or F3) button.
   "Enter ACCNT Code" will be displayed.
   The FWD/DND Indicator will light.
   Intermittent tone is heard.
4. Dial the account code.
   Account code must be 4 digits.
5. Dial the phone number.
   You may dial 9 or 81 through 88 instead of pressing the CO button.

Receiving a call

If you want to record a calling party's account code in the SMDR, follow the below-mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation, the FWD/DND indicator will flash.
1. Press the FWD/DND (or F3) button.
   "Enter ACCNT Code" will be displayed.
   The FWD/DND Indicator will light.
2. Dial the account code.
   Account code must be 4 digits.
   • Dialing the account code must be done before hanging up.

Option Mode

Making or Receiving a Call

If you want to record a calling or called party's account code in the SMDR, follow the below-mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation,
1. Press the FWD/DND (or F3) button.
   "Enter ACCNT Code" will be displayed.
   The FWD/DND Indicator will light.
2. Dial the account code.
   Account code must be 4 digits.
   • Dialing the account code must be done before hanging up.

Conditions

• Account code must be 4 numerical digits except for the "#" and "*" button.
• If you enter the wrong account code, press the FWD/DND button and enter the correct code.
• If account codes are programmed with telephone numbers for one touch dialing or system speed dialing, you need not to dial an account code when making a call.

Program as follows.

```
9 * * Account code (4 digits) Telephone number
```
Data Line Security

Setting

Lift handset or press SP-PHONE

Dial "7301#"

Hang up or press SP-PHONE

To Cancel

Lift handset or press SP-PHONE

Dial "7300#"

Hang up or press SP-PHONE

Description

This feature provides security when transmitting data through an extension of the KX-T123210. Executive override, call waiting tone and hold time reminder tone from the KX-T123210 are prohibited in this mode.

Conditions

- The parallel connection of the proprietary telephone and a data terminal equipment is impossible.

Operation

Setting

1. Lift the handset or press the SP-PHONE button.

2. Dial (7301#)
   “Data Mode On” will be displayed.
   A confirmation tone will be heard.

3. Hang up or press the SP-PHONE button.

To cancel

1. Lift the handset or press the SP-PHONE button.

2. Dial(7300#).
   “Data Mode Off” will displayed.
   A confirmation tone will be heard.

3. Hang up or press the SP-PHONE button.
### Call Waiting Tone — From CO / Extension Deny

#### To deny CO call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7310#).
3. Hang up or press the SP-PHONE button.

#### To allow CO call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7311#).
3. Hang up or press the SP-PHONE button.

#### To deny extension call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7320#).
3. Hang up or press the SP-PHONE button.

#### To allow extension call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7321#).
3. Hang up or press the SP-PHONE button.

### Description

During a conversation, a call waiting tone will be heard when a third party on an outside line or intercom calls you. Call waiting tone can be removed at customer's request. Default is "Allow" mode. Refer to "Call Waiting" on page 4-20.

### Operation

#### To deny CO call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7310#).
   - "CW (CO) Off" will be displayed.
   - A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

#### To allow CO call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7311#).
   - "CW (CO) On" will be displayed.
   - A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

#### To deny extension call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7320#).
   - "CW (EXT) Off" will be displayed.
   - A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

#### To allow extension call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7321#).
   - "CW (EXT) On" will be displayed.
   - A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.
DSS Console (KX-T123240 or KX-T61640)

**DSS (Direct Station Select) Button**

**Inter Office Calling (Intercom)**

- Lift handset or press SP-PHONE
- Press DSS
- Talk
- Hang up or press SP-PHONE

**Transfer of Outside Calls to any Extension**

- While having a conversation
- Press DSS
- Announce and wait for an answer
- Hang up or press SP-PHONE

---

**Programmable Feature Button**

**Programming**

- Be sure the handset is in the cradle and the SP-PHONE button is OFF.
- Set the MEMORY switch of a pair telephone (Proprietary telephone) to “PROGRAM”.

**Storage**

**One Touch Dialing**

- Press PROGRAMMABLE FEATURE
- Press MEMORY
- Dial “9”
- Dial phone number
- Press MEMORY

- You may dial 81 through 88 instead of 9
- 9 ................. The extension can automatically select an idle CO line.
- 81 through 88  The extension can select a trunk group designated.

- 9 or 81 through 88 must be dialed for storage.

**Example:**

**Paging All Extensions (Dial 330)**

- Lift handset or press SP-PHONE
- Press PROGRAMMABLE FEATURE
- Dial “330”
- Press MEMORY

---

**To Correct an Error while Programming**

- After pressing the CLEAR button, reprogram the correct number.
- The TRANSFER button is used as the CLEAR button.

**To Change a Stored Number**

- Repeat “Storage” left side.

**To Erase after Programming**

- The TRANSFER button is used as the CLEAR button.

After programming all the numbers, return the MEMORY switch to “SET”.

---

**Dialing**

- Lift handset or press SP-PHONE
- Press PROGRAMMABLE FEATURE
Description

- DSS (Direct Station Select) Button: makes the dialing to the extensions very easy. You can reach the extension party by simply pushing the DSS Button.

- Programmable Feature Button: let you access various features of KX-T123210 and speed dialing using the CO line in addition to the numbers programmed into the KX-T123210's memory.

Operation

Inter office Calling (Intercom)

1. Lift the handset or press the SP-PHONE button of pair telephone.
2. Press the DSS button of Console.
3. Start talking.
4. Hang up or press the SP-PHONE button upon completion of the conversation.

Transfer of Outside Calls to any Extension

1. You are in conversation.
2. Press the DSS button (Console) to which the call is transferred.
3. Wait for Intercom party to answer and announce call, then replace the handset or press the SP-PHONE button.

Programming

- Be sure the handset is in the cradle and the SP-PHONE button is OFF.
- Set the MEMORY switch of a pair telephone (Proprietary telephone) to "PROGRAM".

One Touch Dialing

1. Press a programmable feature button of Console.
2. Enter the line access number.
   9: automatic line access number.
   81: access number of trunk group 1
   88: access number of trunk group 8
3. Enter the phone number.
4. Press the MEMORY button.
5. Repeat steps 1 to 4, to program on other programmable feature button.

To Confirm a Stored Number

Repeat programming the same number into the same station.

When the MEMORY button is pressed, a beep will be heard.
- two beeps — The entry is the same as what was previously stored.
- one beep — The entry is different from the one that was previously stored.

Repeat the procedure of programming.

One Touch Access for System Features

Example:

Paging All Extensions (Dial 330)

1. Press a programmable feature button of Console.
2. Dial (330).
3. Press the MEMORY button of pair telephone.

After programming all the numbers, return the MEMORY switch to "SET".

Dialing

1. Lift the handset or press the SP-PHONE button of pair telephone.
2. Press the programmable feature button of Console.

Conditions

Refer to "One Touch Dialing" page 4-4 and "One Touch Access for System Features" page 4-48.
Pulse/Tone Conversion

Description
When the dialing mode is required to change a pulse mode to a tone mode in one dialing sequence, this feature is used.
(e.g. computer-accessed long distance service)

Operation
1. Dial the phone number. (pulse mode)
2. Dial (**#)
3. Dial the phone number. (tone mode)

Conditions
- When you dial using this feature, you must use the line set to a pulse mode. Phone number after dialing "**#" will change to tone mode.

Example: Computer - accessed long distance service
- Local access telephone number of the alternate long distance service company 765 - 4321, Authorization no. 0123456.
- Long distance no. 543 - 210 - 9876
- Pulse mode is required by local access telephone number of the alternate long distance service company.
- Service of MCI, SPRINT, METRO or other systems is used.

Station Feature Clear

Description
Dialing (79#) will reset the following station features on an extension to the default data.
- Absent Message Capability
- Call Forwarding
- Data Line Security
- Dial Call Pickup Deny
- Do Not Disturb
- Call Waiting Tone Deny
- Background Music
- Executive Override Deny
- Message Waiting

Operation
1. Lift the handset or press the SP-PHONE button.
2. Dial (79#) and wait for a confirmation tone. "Ext Data Clear" will be displayed.
3. Hang up or press the SP-PHONE button.
Busy Lamp Field

Description
Lamp indicators corresponding to the status of the CO (Central Office), the ICM (Intercom) and DSS (Direct Station Selection) buttons.

Explanation
- **ICM indicator light**

<table>
<thead>
<tr>
<th>Light</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>off</td>
<td>idle</td>
</tr>
<tr>
<td>on</td>
<td>in use</td>
</tr>
<tr>
<td>slow flashing</td>
<td>on hold</td>
</tr>
<tr>
<td>slow flashing in groups of 2</td>
<td>on exclusive hold</td>
</tr>
<tr>
<td>quick flashing</td>
<td>privacy release</td>
</tr>
<tr>
<td>on (red color)</td>
<td>in use at another extension</td>
</tr>
</tbody>
</table>

- **CO indicator light**

<table>
<thead>
<tr>
<th>Light</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>off</td>
<td>idle</td>
</tr>
<tr>
<td>on (red color)</td>
<td>in use</td>
</tr>
<tr>
<td>slow flashing</td>
<td>on hold</td>
</tr>
<tr>
<td>slow flashing in groups of 2</td>
<td>on exclusive hold</td>
</tr>
<tr>
<td>quick flashing</td>
<td>privacy release</td>
</tr>
<tr>
<td>on (red color)</td>
<td>in use at another extension</td>
</tr>
</tbody>
</table>

- **DSS Console (KX-T123240, KX-T61640) indicator light**

<table>
<thead>
<tr>
<th>Light</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>off</td>
<td>idle</td>
</tr>
<tr>
<td>on</td>
<td>in use</td>
</tr>
<tr>
<td>flashing in groups of 2</td>
<td>in setting Do Not Disturb</td>
</tr>
<tr>
<td>slow flashing</td>
<td>in setting Call Forwarding</td>
</tr>
</tbody>
</table>

- **Indicator of CO button which has been changed into DSS button.**

<table>
<thead>
<tr>
<th>Light</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>off</td>
<td>idle</td>
</tr>
<tr>
<td>on (red color)</td>
<td>in use</td>
</tr>
</tbody>
</table>
Power Failure Transfer

Description
In the event of a power failure each CO will be connected to assigned extension.
- CO1 will be assigned to extension of jack number 01.
- CO2 will be assigned to extension of jack number 02.
- CO5 will be assigned to extension of jack number 09.
- CO6 will be assigned to extension of jack number 10.
- CO9 will be assigned to extension of jack number 17.
- CO10 will be assigned to extension of jack number 18.

Operation
- If extension of jack number 01, 02, 09, 10, 17 and 18 is connected with a KX-T123230, KX-T61631, KX-T61630 or KX-T30830, the Power failure switch on the KX-T123230, KX-T61631, KX-T61630 or KX-T30830 must be set to the “ON” position. If dialing cannot be done, set the Dialing mode switch to other position (TONE or PULSE).

Conditions
- During power failure, all features are lost except for incoming and outgoing CO calls from extensions of jack number 01, 02, 09, 10, 17 and 18.
- If extensions of jack number 01, 02, 09, 10, 17 and 18 are connected with a KX-T123220, KX-T123250, KX-T61620, KX-T61650, KX-T30820 or KX-T30850, disconnect the KX-T123220, KX-T123250, KX-T61620, KX-T61650, KX-T30820 or KX-T30850 and connect a KX-T123230, KX-T61631, KX-T61630, KX-T30830 or a standard telephone.
- There is no memory loss except for the camp-on, saved number redial, the last number redial, Call park and Message Waiting during power failure, memory is protected by 21 day rechargeable battery. Rechargeable battery is good for 5 years.
- Automobile type batteries which are customer supplied is available as a back up power supply to the KX-T123210 to operate all the features in the event of power failure. Refer to page 2-17. Automobile type batteries
  [ Consisting of two 12 VDC (24 VDC) ]
  [ 16 amp / hour maximum rating ]

Duration Time of Call Display

Description
The elapsed time (from dialing to replacing the handset) on originating an outside call will be displayed.

Operation
None

Conditions
- When intercom calls, the duration time of conversation is not displayed.
- Refer to “Duration Time Count Start Mode” on page 3-40.

Lockout

Description
If a handset remains off hook or is disconnected at the other end, a reorder tone will be heard. When “Calling Party Control (CPC) Signal” mode is set to “Disable”, the reorder tone will not be heard. (see page 3-61)

Operation
None

Conditions
- The party whose handset remains off-hook will hear a reorder tone to indicate that the call is disconnected.

Mixed Station Dialing

Description
Any telephone instrument, whether (KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630, KX-T61620, KX-T61650, KX-T30820, KX-T30830, KX-T30850 for exclusive use), standard rotary phone (10 pps, 20 pps), or standard touch tone phone, may be used as an extension of the KX-T123210.

Operation
None
Station Programming

One Touch Access for System Features

To Program

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

Example:

Paging All Extensions (Dial 330).

After programming all the system features, return the MEMORY switch to the “SET” position.

To Access

Lift handset or press SP-PHONE
Press PROGRAMMABLE FEATURE
Confirmation tone of 1 beep will be heard
Page

Description

Features that can be accessed by using the dialing button also can be programmed into memory.
(e.g. Paging All Extensions.)

Operation

To Program

Set the MEMORY switch of the proprietary telephone to “PROGRAM”.
“PITS-PGM NO ?→” will be displayed.

Example:

Paging All Extensions (Dial 330).
1. Press the PROGRAMMABLE FEATURE button.
2. Dial (330).
3. Press MEMORY button.

System feature described in the table on page 6-5 can be programmed into memory.
After programming all the numbers, return the MEMORY switch to the “SET” position.

4-48
Auto CO Hunting

Prime Line Preference-Outgoing

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>DEF</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Dial &quot;13&quot;</td>
<td>Dial &quot;11&quot;</td>
</tr>
<tr>
<td>Dial CO number (01 through 12)</td>
<td>Press MEMORY</td>
</tr>
<tr>
<td>Press MEMORY</td>
<td>Press MEMORY</td>
</tr>
</tbody>
</table>

- After programming "Prime Line Preference-Outgoing" mode, return the MEMORY switch to the "SET" position.

Dialing through CO line

1. Lift handset or press SP-PHONE
2. Wait for CO dial tone
3. Dial phone number

Description
You can access the prime CO line directly by picking up the handset or pressing the SP-PHONE button.

Operation
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

Setting
1. Dial (13).
   "Pref. Out : CO-" will be displayed.
2. Dial the CO number (01 through 12).
3. Press the MEMORY button.

To cancel
1. Dial (11).
   "Pref. Out : No" will be displayed.
2. Press the MEMORY button.

Dialing through CO line
1. Lift the handset or press the SP-PHONE button.
   The CO indicator will be lit green.
2. Dial the phone number.
   Dial tone from CO will be heard.

Conditions
This feature will not function with use of a standard telephone.

Conditions
This feature will not function with use of a standard telephone.
Auto CO Hunting (cont)

Idle Line Preference-Outgoing

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Setting Diagram" /></td>
<td><img src="image" alt="Cancel Diagram" /></td>
</tr>
</tbody>
</table>

- After programming "Idle Line Preference-Outgoing" mode, return the MEMORY switch to the "SET" position.

Dialing through CO line

1. Lift the handset or press the SP-PHONE button. The CO indicator will be lit green.
2. Dial the phone number.

When you access an extension in the Auto CO Hunting mode, press the ICM button and then dial the extension number.

Conditions
This feature will not function with use of a standard telephone.

Description
You can access any CO line which is not in use directly by picking up the handset or pressing the SP-PHONE button.

Operation
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

Setting
1. Dial (12).
   - "Pref. Out : Idle" will be displayed.
2. Press the MEMORY button.

To cancel
1. Dial (11).
   - "Pref. Out : No" will be displayed.
2. Press the MEMORY button.

- After programming, return the MEMORY switch to the "SET" position.
Automatic Answering Selection

## Prime Line Preference-Incoming

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

### Setting

<table>
<thead>
<tr>
<th>Description</th>
<th>To answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Settings</td>
<td>To cancel</td>
</tr>
<tr>
<td>“Pref. In : CO-” will be displayed.</td>
<td>“Pref. In : Ring” will be displayed.</td>
</tr>
<tr>
<td>2. Dial the CO number (01 through 12).</td>
<td>Lift the handset or press the SP-PHONE button.</td>
</tr>
<tr>
<td>3. Press the MEMORY button.</td>
<td>2. Press the MEMORY button.</td>
</tr>
</tbody>
</table>

### Conditions

This feature will not function with use of a standard telephone.

---

### Description

When incoming calls from the Central Office are received at the same time, you can receive the call on the preferred CO line first by only lifting the handset or pressing the SP-PHONE button.

### Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

### Setting

1. Dial (23).
   - “Pref. In : CO-” will be displayed.
2. Dial the CO number (01 through 12).
3. Press the MEMORY button.

### To cancel

1. Dial (22).
   - “Pref. In : Ring” will be displayed.
2. Press the MEMORY button.
- After programming, return the MEMORY switch to the “SET” position.
### Automatic Answering Selection (cont.)

#### No Line Preference-Incoming

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="ABC 2 1" /></td>
<td><img src="image" alt="ABC 2 ABC 2" /></td>
</tr>
<tr>
<td>Dial &quot;21&quot; Press MEMORY</td>
<td>Dial &quot;22&quot; Press MEMORY</td>
</tr>
</tbody>
</table>

- After programming "No Line Preference-Incoming", return the MEMORY switch to the "SET" position.

#### To answer

- Lift handset or press SP-PHONE
- Press CO whose indicator is quickly flashing

#### Description

If programmed for the No Line Preference-Incoming mode, the extension user must lift the handset or press the SP-PHONE button and then press the flashing CO button.

#### Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

<table>
<thead>
<tr>
<th>Setting</th>
<th>To cancel</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Pref. In : No&quot; will be displayed.</td>
<td>&quot;Pref. In : Ring&quot; will be displayed.</td>
</tr>
<tr>
<td>2. Press the MEMORY button.</td>
<td>2. Press the MEMORY button.</td>
</tr>
</tbody>
</table>

#### Conditions

This feature will not function with use of a standard telephone.
# Flexible CO Button

## To Change into Other CO Number

<table>
<thead>
<tr>
<th>Description</th>
<th>Allows each CO button to change into CO number which is different from printed CO number.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td></td>
</tr>
<tr>
<td>- Be sure the handset is in the cradle and the SP-PHONE button is off.</td>
<td></td>
</tr>
<tr>
<td>- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.</td>
<td></td>
</tr>
<tr>
<td>1. Press CO button which you want to change into different CO number.</td>
<td></td>
</tr>
<tr>
<td>- When pressing CO 1 button, “CO-01” will be displayed.</td>
<td></td>
</tr>
<tr>
<td>2. Dial (0).</td>
<td></td>
</tr>
<tr>
<td>- “CO-0” will be displayed.</td>
<td></td>
</tr>
<tr>
<td>3. Dial the CO number which is set newly (01 through 12).</td>
<td></td>
</tr>
<tr>
<td>- When dialing (02), “CO-02” will be displayed.</td>
<td></td>
</tr>
<tr>
<td>4. Press the MEMORY button.</td>
<td></td>
</tr>
<tr>
<td>- After programming all CO buttons, return the MEMORY switch to the “SET” position.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Allows each CO button to change into the trunk group access number (81 through 88).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td></td>
</tr>
<tr>
<td>- Be sure the handset is in the cradle and the SP-PHONE button is off.</td>
<td></td>
</tr>
<tr>
<td>- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.</td>
<td></td>
</tr>
<tr>
<td>1. Press the CO button which you want to change into trunk group number.</td>
<td></td>
</tr>
<tr>
<td>2. Dial (0).</td>
<td></td>
</tr>
<tr>
<td>3. Dial the trunk group number (1 through 8).</td>
<td></td>
</tr>
<tr>
<td>4. Press the MEMORY button.</td>
<td></td>
</tr>
<tr>
<td>- After programming all CO buttons, return the MEMORY switch to the “SET” position.</td>
<td></td>
</tr>
</tbody>
</table>
Flexible CO Button (cont.)

To Change into DSS Button

Setting
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

| CO | Dial "1" | Dial extension number (100 through 199) | Press MEMORY |

- After programming all CO buttons, return the MEMORY switch to the "SET" position.

Dialing (Inter Office Calling)

1. Lift the handset or press the SP-PHONE button.
2. Press the CO button which has been changed into DSS.

Description
Allows each CO button to change into the DSS (Direct Station Selection) button. DSS button can be used instead of dialing a extension number.

Operation
Setting
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

1. Press the CO button which you want to change into DSS button.
   - When pressing CO 1 button, "CO-01" will be displayed.

2. Dial (1).
   - "EXT- " will be displayed.

3. Dial the extension number (100 through 199).
   - When dialing (120), "EXT-120" will be displayed.

4. Press the MEMORY button.

- After programming all CO buttons, return the MEMORY switch to the "SET" position.

Dialing (Inter Office Calling)

1. Lift the handset or press the SP-PHONE button.
2. Press the CO button which has been changed into DSS.

Description
Allows each CO button to change into the DSS button.

To Change into One Touch Dialing Button

Setting
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

| CO | ABC 2 | WXY 9 | Dial phone number |

- You may dial 81 through 88 instead of 9.

- After programming all CO buttons, return the MEMORY switch to the "SET" position.

Dialing (Inter Office Calling)

1. Lift the handset or press the SP-PHONE button.
2. Press the CO button which has been changed into DSS.

Description
Allows each CO button to change into the one touch dialing button.
Up to 16 digits can be stored into each of the 12 CO buttons.

Operation
Setting
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

1. Press the CO button which you want to change into one touch dialing button.
   - When pressing CO 1 button, "CO-01" will be displayed.

2. Dial (2).

3. Dial (9).

- You may dial 81 through 88 instead of 9.

4. Dial the phone number.

- Each extension can automatically select an idle CO line.

81 through 88... Each extension can select a trunk group designated.

4. Press the MEMORY button.

- After programming all CO buttons, return the MEMORY switch to the "SET" position.

5. Press the MEMORY button.

- For dialing, refer to "One Touch Dialing" on page 4-4.
To Change into Other All CO Numbers

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

<table>
<thead>
<tr>
<th>CO</th>
<th>Dial “*”</th>
<th>AUTO MEMORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press CO which you want to change into other all CO numbers</td>
<td>Press MEMORY</td>
<td></td>
</tr>
</tbody>
</table>

- After programming all CO buttons, return the MEMORY switch to the “SET” position.

To Change into Message Waiting Button

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

<table>
<thead>
<tr>
<th>CO</th>
<th>DEF 3</th>
<th>AUTO MEMORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press CO 1</td>
<td>Dial “3”</td>
<td>Press MEMORY</td>
</tr>
</tbody>
</table>

- After programming CO 1 button, return the MEMORY switch to the “SET” position.

Description

Allows CO button to change into all CO numbers which are not assigned to CO button.

Operation

1. Press the CO button which you want to change into other all CO numbers.
   When pressing CO 1 button, “CO-01” will be displayed.
2. Dial (3).
   “Other CO key” will be displayed.
3. Press the MEMORY button.
4. After programming all CO buttons, return the MEMORY switch to the “SET” position.

For operation, refer to “Message Waiting” on page 4-36.
Intercom Voice Alerting Mode

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

**Setting (Voice Alerting Mode)**

<table>
<thead>
<tr>
<th>GHI 4</th>
<th>ABC 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AUTO</td>
</tr>
<tr>
<td></td>
<td>MEMORY</td>
</tr>
</tbody>
</table>

Dial “42”  
Press MEMORY

**To cancel (Setting Tone Alerting Mode)**

<table>
<thead>
<tr>
<th>GHI 4</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AUTO</td>
</tr>
<tr>
<td></td>
<td>MEMORY</td>
</tr>
</tbody>
</table>

Dial “41”  
Press MEMORY

- After programming “Intercom Voice Alerting Mode”, return the MEMORY switch to the “SET” position.

**To answer**

When an intercom call reaches

- Voice alerting is heard
- Lift handset or press SP-PHONE
- Talk

**Description**

The intercom alerting mode (tone/voice) at a receiving extension can be selected through programming.

VOICE... Voice alerting instead of Tone alerting is heard through the speaker on the receiving extension.

TONE ... Tone alerting (ringing) sound at the receiving extension.

**Operation**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

**Setting (Voice Alerting Mode)**

1. Dial (42).
   “Voice Call” will be displayed.
2. Press the MEMORY button.

**To cancel (Setting Tone Alerting Mode)**

1. Dial (41).
   “Tone Call” will be displayed.
2. Press the MEMORY button.
3. After programming, return the MEMORY switch to the “SET” position.

**Conditions**

This feature will not function with use of a standard telephone.
## Flexible DSS Button

### To Change into Other DSS Number

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to “PROGRAM”.

<table>
<thead>
<tr>
<th>NO.</th>
<th>Dial “1”</th>
<th>Dial extension number which is set newly (100 through 199)</th>
<th>Press MEMORY</th>
</tr>
</thead>
</table>

- After programming all DSS buttons, return the MEMORY switch to the “SET” position.

### Description

Allows each DSS button to change into extension number which is different from default extension number. KX-T30830, KX-T123240 or KX-T61640 only is available.

### Operation

#### Setting

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to “PROGRAM”.

1. Press DSS button which you want to change into different extension number.
2. Dial (1).
3. Dial the extension number which is set newly (100 through 199).
4. Press the MEMORY button.
   - After programming all DSS buttons, return the MEMORY switch to the “SET” position.

### To Change into One Touch Dialing Button

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to “PROGRAM”.

<table>
<thead>
<tr>
<th>NO.</th>
<th>ABC 2</th>
<th>WXY 9</th>
</tr>
</thead>
</table>

- You may dial 81 through 88 instead of 9.

<table>
<thead>
<tr>
<th>AUTO</th>
<th>MEMORY</th>
</tr>
</thead>
</table>

- After programming all DSS buttons, return the MEMORY switch to the “SET” position.

### Description

Allows each DSS button to change into the one touch dialing button. Up to 16 digits KX-T30830, KX-T123240 or KX-T61640 only is available.

### Operation

#### Setting

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to “PROGRAM”.

1. Press the DSS button which you want to change into one touch dialing.
2. Dial (2).
3. Dial (9).
   - You may dial 81 through 88 instead of 9.
4. Press the MEMORY button.
   - After programming all DSS buttons, return the MEMORY switch to the “SET” position.
5. Dial the phone number.
   - For dialing, refer to “One Touch Dialing” on page 4-4.
### Flexible DSS Button (cont.)

**To Change into Message Waiting Button**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the KX-T30830 to "PROGRAM".
- After programming DSS 11 button, return the MEMORY switch to the "SET" position.

![DSS 11, DEF 3, AUTO MEMORY]

---

**Description**

Allows only DSS 11 button of the KX-T30830 to change into the message waiting button. The KX-T30830 only is available.

**Operation**

1. Be sure the handset is in the cradle and the SP-PHONE button is off.
2. Set the MEMORY switch of the KX-T30830 to "PROGRAM".
3. Press the DSS 11 button of the KX-T30830.
4. Dial (3).
5. Press the MEMORY button.

---

### CO Line Ringing Selection

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

![Def 3, Dial CO numbers, Press MEMORY]

- After programming "CO Line Ringing Selection", return the MEMORY switch to the "SET" position.

**Description**

Through programming the CO numbers, you can select whether the extension ring or not when an outside call reaches through the CO line.

Program the CO numbers which you want to ring. "Flexible Ringing Assignment" on page 3-49 should be set to "Enable".

**Operation**

1. Be sure the handset is in the cradle and the SP-PHONE button is off.
2. Set the MEMORY switch of the proprietary telephone to "PROGRAM".
3. Dial (3).
4. Dial the CO numbers you want to ring (01 through 12).
5. Press the MEMORY button.

**Conditions**

- As all programmed CO numbers are not displayed, press the "+" (FWD/DND) or "+" (CONF) button for scrolling the Display.
- When an outside call reaches through the CO line not to ring, the CO indicator will flash. If you want to answer the outside call, press the flashing CO button.
**Date and Time Setting (extension of jack number 01 only)**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

**Description**

When the present time is out of order, you can adjust by following procedure.

**Operation**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the KX-T123230 to "PROGRAM".

1. Dial (0).
2. Enter the year (last 2 digits).
3. Enter the month with 2 digits (01 through 12).
4. Enter the day with 2 digits (01 through 31).
5. Dial the day of the week (0 through 6).
   - 0: for Sunday
   - 1: for Monday
   - 2: for Tuesday
   - 3: for Wednesday
   - 4: for Thursday
   - 5: for Friday
   - 6: for Saturday
6. Enter the hour with 2 digits (01 through 12).
7. Enter the minute (00 through 59).
8. Dial the "0" or "1".
   - 0: for AM
   - 1: for PM
9. Press the MEMORY button.
- After setting, return the MEMORY switch to the "SET" position.
Station Number Check

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.
- The LCD will show your extension number and jack number.
- After confirming, return the MEMORY switch to the “SET” position.

Description
You can confirm your extension number and jack number by the LCD.

Operation
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to “PROGRAM”.

1. Dial (6)

- The LC Display will show your extension number and jack number.
- After confirming, return the MEMORY switch to the “SET” position.

Conditions
- This feature can be used only by proprietary telephone equipped with an LCD.

F3-One Touch Button Mode Selection
(for KX-T30850, KX-T61650, KX-T123250)

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone (KX-T123250, KX-T61650 or KX-T30850) to “PROGRAM”.

- After programming the F3 button, return the MEMORY switch to the “SET” position.

Description
3 programmable feature (F1, F2, F3) buttons are provided with the proprietary telephones, KX-T123250, KX-T61650 and KX-T30850, and only “F3” button can be changed from programmable feature button to call forwarding (see page 4-26 for operation)/do not disturb (see page 4-30)/account code (see page 4-39) button.

dial1 mode ....
programmable feature function
dial2 mode ....
call forwarding / do not disturb / account code function

Programming
- Be sure the handset is in the cradle and the SP-PHONE button is OFF.
- Set the MEMORY switch of the proprietary telephone (KX-T123250, KX-T61650 or KX-T30850) to “PROGRAM”.

1. Dial (7).
2. Dial (1) for programmable feature function or dial (2) for call forwarding / do not disturb/ account code function.
3. Press the MEMORY button.

- After programming the F3 button, return the MEMORY Switch to the “SET” position.
**Call Waiting Tone Selection**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

![Dial 5, Dial 1 or 2, Press MEMORY](image)

- After programming the "Call Waiting Tone Selection", return the MEMORY switch to the "SET" position.

**Station Program Clear**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".

![Dial #, Dial *, Press MEMORY](image)

- After clearing, return the MEMORY switch to the "SET" position.

**Description**

You can change the call waiting tone from Tone 1 to Tone 2 shown below to prevent the user from missing the tone.

Tone 2 feature will not function for a standard telephone.

**Operation**

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "PROGRAM".
  1. Dial (5).
  2. Dial "1" or "2".
     - "1": for Call Waiting Tone 1.
     - "2": for Call Waiting Tone 2.
  3. Press the MEMORY button.
- After programming, return the MEMORY switch to the "SET" position.
Making Calls

**Inter Office Calling** (Intercom) (see page 4-1)

**Description**
Station to station dialing within the KX-T123210 system.

**Operation**
- Lift handset
- Dial extension number (100 through 199)

**Automatic Line Access**

**Description**
Each extension can automatically select an idle CO (Central Office) line within the KX-T123210 system.

**Operation**
- Lift handset
- Dial "9" Wait for Dial phone C.O. dial tone number

**Individual Trunk Group Access**

**Description**
Each extension can automatically select an idle CO line within the same trunk group. Through programming, 12 CO lines can be divided up to 8 groups. See the page 3-46.

**Operation**
- Lift handset
- Dial "8" Dial trunk group number (1 through 8) Wait for C.O. dial tone number

**Outward Dialing** (see page 4-2)

**Description**
- There are 100 memory locations of system speed dialing available.
- A rotary phone will not function for speed dialing.
- Continuous use of speed dialing is impossible.

**Operation**
- Lift handset
- Dial speed access code (00 through 99)
- Dial phone number

**Calling Doorphone** (see page 4-6)

**Description**
Up to two doorphones (KX-T30865) can be connected to the KX-T123210 system.

**Operation**
- **Doorphone 1**
  - Lift handset
  - Dial "311"
- **Doorphone 2**
  - Lift handset
  - Dial "312"

**Operator Call** (see page 4-6)

**Description**
You can call the operator within the KX-T123210 system. This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-9.

- Lift handset
- Dial "0" or "1"
When a Line is Busy

**Automatic Call Back Busy** (Camp-on) (see page 4-7)

**Description**
If the intercom extension or the outside line (CO line) you have dialed is busy, you will be automatically called back when the extension or the outside line becomes free using this function. This feature is also known as camp-on.

**Operation**

**For Outside Calls**
- Dial “8”
- Dial trunk group number (1 through 8)
- You will hear a busy tone
- Dial “6”
- Confirmation tone
- Hang up

**For Intercom Calls**
- Dial extension number (100 through 199)
- You will hear a busy tone
- Dial “6”
- Confirmation tone
- Hang up

**When hearing a ring back**
- When using an intercom call, you will hear a ring back tone.
- When using an outside call, you will hear the dial tone from the CO.
- A call back busy cannot be activated on an extension which has a call on hold.

**Busy Station Signaling** (see page 4-8)

**Description**
If the extension you have dialed is busy, you can inform the extension that another intercom call is reaching by three beeps.

**Operation**

- Dial extension number (100 through 199)
- You will hear a busy tone
- Dial “1” and wait for an answer

- To answer your signal, see “Call Waiting” on page 5-5.
- While the other party is set for “Call Waiting Tone-From Extension Deny” on page 5-15 or is using a data terminal equipment, you may not be able to use this feature. (A reorder tone is heard after dialing 1.)

**Last Number Redial** (see page 4-8)

**Description**
The last phone number dialed on an outside line (CO line) can be redialed.

**Operation**

- Lift handset
- *Dial “#”
- You may dial “60” instead of pressing the “#” button.
When a Line is Busy (cont.)

Executive Override (Barge-In)
(see page 3-73)

Description
Allows an extension user to intrude into another extension that is in conversation with an outside or inside party. This feature is required to be set beforehand in the KX-T123210. For programming see page 3-73.

Operation

Lift handset
Dial extension number (100 through 199)
You will hear a busy tone
Dial “2”
A 3-party conference is now established

Receiving Calls

Answer (see page 4-10)

Operation

Lift handset

Dial Call Pickup (see page 4-11)

Description
An extension user can answer any ringing extension within their own extension group.

Operation

Lift handset
Dial “40”

Directed Call Pickup (see page 4-11)

Description
An extension may answer an incoming call that is ringing at another extension regardless of the extension group.

Operation

Lift handset
Dial “4”
Dial ringing extension number (100 through 199)
Receiving Calls (cont.)

Call Park (see page 4-12)

Description
Extension user can place up to ten calls in the park zones.
Allows any extension user to retrieve a parked call (intercom or outside) at any extension.

Operation
To Park a Call

- Flash hookswitch
- Confirmation tone
- Dial “2”
- Dial parking station number (20 through 29)
- Lift handset
- Dial “5”
- Dial parking station number (20 through 29)

- Do not depress the hookswitch for more than one second, or party will be disconnected.
- If a busy tone is heard after the parking station number is dialed, dial only last 1 digit of the other parking station number (0 through 9).
- When the “Call on Hold for Standard Telephone” on page 3-77 is selected to the “Hold-2” mode, dial “20” after flashing the hookswitch. If the number except “20” is dialed, the party will be disconnected.

While Having a Conversation

Call on Hold (see page 4-14)

Description
If you wish to leave your phone unattended but want the caller you are in conversation with to wait, call on hold may be used. Intercom or outside calls may be placed on hold.

Operation
To Place a Call on Hold

- Flash hookswitch
- Confirmation tone
- Dial “2” beeps will be heard

- Do not depress the hookswitch for more than one second, or the party will be disconnected.

To Retrieve a Call on Hold from Another Extension

- Lift handset
- Dial “5”
- Dial holding extension number (100 through 199)

- In case held call is outside call, you may dial “53” and then held CO line number (01 through 12).

Doorphone (see page 4-13)

Operation
- This feature is required to be set beforehand in the KX-T123210.
For programming, see page 3-75.
While Having a conversation (cont.)

**Conference** (see page 4-16)

**Description**
Allows for up to a three party conference, (2-outside/1-inside) (1-outside/2-inside) or (3-inside).

**Operation**

<table>
<thead>
<tr>
<th>Flash hookswitch</th>
<th>Dial 2nd party number</th>
<th>Consult with 2nd Party</th>
<th>Flash hookswitch</th>
</tr>
</thead>
</table>

**DEF 3** 3-party conference is now established.

- Dial "3".

When the “Call on Hold for Standard Telephone” on page 3-77 is selected to the “Hold-2” mode, dial “20” after the first flashing the hookswitch in addition to the above procedure. If the number except “20” is dialed, the first party will be disconnected.

**Call Waiting** (see page 4-20)

**Description**
Call Waiting tones during a conversation indicates there is a new incoming outside call or Intercom call. This feature has been set beforehand in the extension.

**Operation**

| Will hear a call waiting tone | Flash hookswitch places 1st party on hold | Hang up | Lift handset |

- Consult with new caller while 1st party is on hold.
  - If you use the hold button of a standard telephone, the above-mentioned feature will not function.
  - To terminate the original call and return to the 2nd call, hang up and then lift the handset. (You need not flash the hookswitch.)

When the “Call on Hold for Standard Telephone” on page 3-77 is selected to the “Hold-2” mode, dial “20” after flashing the hookswitch in addition to the above procedure. If the number except “20” is dialed, the first party will be disconnected.

---

To Place one Caller on Hold and Talk to the Other Caller

| Flash hookswitch | 2nd party on hold 1st party in consultation |

---

5-5
### Call Splitting (see page 4-21)

**Description**
Allows the station user to alternate between two parties, either intercom or outside.

**Operation**
- Flash hookswitch
- Dial second party
- Consult with 2nd party while 1st party is on hold
- Flash hookswitch
- 2nd party on hold, 1st party in consultation

When the “Call on Hold for Standard Telephone” on page 3-77 is selected to the “Hold-2” mode, dial “20” after the first flashing the hookswitch in addition to the above procedure. If the number except “20” is dialed, the first party will be disconnected.

### Call Transfer (see page 4-18)

**Description**
- Outside or intercom calls may be transferred to any extension manually.
- A call can not be transferred to outside line.

**Operation**
- **To Transfer After the Other Extension Answers**
  - Flash hookswitch
  - Dial extension number
  - Announce and wait for an answer
  - Hang up

- **To Transfer without Announcing the Other Extension**
  - Flash hookswitch
  - Dial extension number
  - Hang up

When the “Call on Hold for Standard Telephone” on page 3-77 is selected to the “Hold-2” mode, dial “20” after flashing the hookswitch in addition to the above procedure. If the number except “20” is dialed, the party will be disconnected.

**To Retrieve the Call**
If the other extension did not answer the transferred call within 30 seconds after the call has been transferred, the call will return to you. In this case:
- While the ring back is hearing,
  - The time that the call returns to you when the transferred call is not answered can be changed from 30 seconds to 15 seconds.
- For changing, see page 3-27.

**To change the party to whom a call is transferred before hanging up**
- Flash hookswitch
- Flash hookswitch
- Dial extension number
### Paging

#### Paging All Extensions
(see page 4-23)

**Description**
Allows paging to all extensions.

**Operation**

<table>
<thead>
<tr>
<th>To Access</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift handset</td>
<td>Dial &quot;330&quot;</td>
</tr>
<tr>
<td>Page</td>
<td>Wait for an answer and talk</td>
</tr>
</tbody>
</table>

- Paging will be heard only from the built-in speaker of KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630, KX-T61620, KX-T61050, KX-T30830, KX-T30820 or KX-T30850. It will not be heard from the built-in speaker of a standard telephone.

#### Paging-External (see page 4-24)

**Description**
Allows access to external paging equipment.

**Operation**

<table>
<thead>
<tr>
<th>To Access</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift handset</td>
<td>Dial &quot;32&quot;</td>
</tr>
<tr>
<td>Dial external paging number</td>
<td></td>
</tr>
<tr>
<td>Confirmation tone</td>
<td>Page</td>
</tr>
<tr>
<td>Wait for an answer and talk</td>
<td></td>
</tr>
</tbody>
</table>

- External paging number
  - "0": for external paging equipments 1 and 2.
  - "1": for equipment 1.
  - "2": for equipment 2.

- Paging will be heard from external paging equipment.
- Up to two external paging equipment can be connected to the KX-T123210.

#### Paging Group (see page 4-24)

**Description**
Allows paging to one of eight extension groups.

**Operation**

<table>
<thead>
<tr>
<th>To Access</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift handset</td>
<td>Dial &quot;33&quot;</td>
</tr>
<tr>
<td>Dial extension group number (1 through 8)</td>
<td>Wait for an answer and talk</td>
</tr>
</tbody>
</table>

- Paging will be heard only from the built-in speaker of KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630, KX-T61620, KX-T61050, KX-T30830, KX-T30820 or KX-T30850. It will not be heard from the built-in speaker of a standard telephone.
Paging (cont.)

Paging And Transfer (see page 4-25)

Operation

To Transfer a Call to the Paged Person

Flash hookswitch to place a call on hold

DEF 3 DEF 3 OPER

Dial "330" Confirmation tone

Page

Wait for an answer and hang up

You may dial 331 through 338 or 320 through 332 instead of 330.

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the party will be disconnected.

Paging-Answer (see page 4-25)

Description

A page from the built-in speaker or external paging equipment can be answered from any extension.

Operation

To Paging from Built-in Speaker

Lift handset

Dial "43" Confirmation tone of 1 beep will be heard

Talk

To Paging from External Equipment

Lift handset

Dial "42" Dial external paging number

1 beep

Confirmation tone

Talk

External paging number

"1": for external paging 1.

"2": for external paging 2.
Use of Other Features

**Do Not Disturb Override**  
*(see page 4-31)*

**Description**
Allow you to dial to the extension on which is set the Do Not Disturb. This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-74.

- **Lift handset**
- **Dial extension number (100 through 199)**
- **Do not disturb tone is heard**
- **Dial “1”**  

**Operation**

**Switching to Tone Alerting**  
*(see page 4-33)*

**Description**
"Voice alerting" (through built-in speaker) that is established at the called party’s extension, can be switched to “Tone alerting” (ringing).

- This feature is required to be set beforehand at the called party's extension. For programming, see page 4-56.
- A rotary phone will not function.

**Operation**

**External Feature Access**  
*(see page 4-38)*

**Description**
Allows extension user to access features of the central office or host PBX. (example: call waiting feature can be supplied by the central office.)

- The external feature (call waiting) can only be accessed when engaged on an outside call.
- The following example shows you one of the procedures.

**Operation**

**Call Waiting-Outside Line**

- **While in conversation**
- **Will hear a call waiting tone**
- **Flash hookswitch**
- **Dial “6”**

- **Consult with Flash Dial “6”**
- **Consult with new caller**
- **Hookswitch**
- **original caller while 2nd call is placed on hold**

- **Flashing the hookswitch and dialing “6” means flash operation.**
- **If the KX-T123210 is connected to a host PBX and a flash operation is required, follow the procedure of flash operation which is required for the host PBX.**

When the “Call on Hold for Standard Telephone” on page 3-77 is selected to the “Hold-2” mode, dial “20” after the first flashing the hookswitch in addition to the above procedure. If the number except “20” is dialed, the original call will be disconnected.

- **Wait until a confirmation tone is heard**
- **Press “*”**
- **Ring back tone**

- You should press “*” button within 10 seconds after the dialing.
Use of Other Features

Description
This feature gives each message of the SMDR an account code of the called or calling party.

Station Message Detail Recording (SMDR) is a cost-saving feature that records all incoming and outgoing calls through the CO line.

This feature has two modes: "Forced" and "Option". In the "Forced" mode, the account code must be entered every time the extension user dials. In the "Option" mode, the account code may be entered when a record of the account code is needed. When setting to the "Forced" mode, see page 3-70.

Operation

Forced Mode

Making a Call
- Lift handset
- Dial "9"
- Dial "*"
- Again

Wait for C.O. dial tone
Dial account code

Account code is 4 digits.

You may dial 81 through 88 instead of dialing 9.

Receiving a Call
If you want to record a calling party's account code in the SMDR, follow the below-mentioned procedure. Within 30 seconds after calling party hangs up,

Flash hookswitch
Dial "*"
Again
Dial account code

- Dialing the account code must be done before hanging up.

Option Mode

Making or Receiving a Call
If you want to record a called party's account code in the SMDR, follow the below-mentioned procedure. Within 30 seconds after calling or called party hangs up,

Flash hookswitch
Dial "*"
Again
Dial account code

- Dialing the account code must be done before hanging up.

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the party will be disconnected.

- You may dial 49 instead of pressing the "*" "*" button.
- Account code must be 4 numerical digits except for the "#" and "*" buttons.
- If you enter a wrong account code, press the "*" "*" button and enter the correct code.
Use of Other Features (cont.)

You may dial "0" instead of pressing the "#" button.

Do Not Disturb (see page 4-30)

Description
Each extension can be individually prohibited from receiving intercom and outside calls.

Operation
Setting

Lift handset

Dial "714#"

Hang up

To Cancel

Lift handset

Dial "710#"

Hang up

Dial Call Pickup Deny (see page 4-29)

Description
Allows you to prohibit any other extension user from answering calls directed to you.

Operation
Setting

Lift handset

Dial "721#"

Hang up

To Cancel

Lift handset

Dial "720#"

Hang up
Use of Other Features (cont.)

Call Forwarding—All Calls
(see page 4-26)

Description
All intercom calls to your extension can be automatically forwarded to any extension within the system.
For outside calls to your extension, if your extension is programmed to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.
For programming to the DIL mode, see page 3-54.

Operation

Setting

Lift handset

Dial "711"

Dial extension number
(100 through 199)

To Cancel

Lift handset

Dial "710#"

Call Forwarding—Busy/No Answer
(see page 4-26)

Description
If your extension is busy or do not answer a call within 3 rings, all intercom calls to your extension can be automatically forwarded to any extension within the system.
For outside calls to your extension, if your extension is programmed to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.
For programming to the DIL mode, see page 3-54.
The 3 rings may be changed to 1 ring, 2 rings or 4 rings by programming (see page 3-28).

Operation

Setting

Lift handset

Dial "712"

Dial extension number

To Cancel

Dial "#"

Hang up
Use of Other Features (cont.)

**Call Forwarding-To Outside Line** *(see page 4-26)*

**Description**
Intercom calls to your extension can be automatically forwarded to any outside line. For outside calls to your extension, if your extension is programmed to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any outside line. For programming to the DIL mode, see page 3-54.

This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-72.

**Operation**

<table>
<thead>
<tr>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift handset</td>
</tr>
<tr>
<td>Dial “713”</td>
</tr>
<tr>
<td>Dial “9”</td>
</tr>
</tbody>
</table>

- You may dial 81 through 88 instead of 9.
  - Each extension can automatically select an idle CO line.
  - Each extension can select a trunk group designated.
- You can not dial “0” instead of pressing the “#” button.

**To Cancel**

| Lift handset | Dial “10#” |

If outside call is forwarded to any outside line, the KX-T123210 will disconnect the call from the line after 10 minutes. For changing the time, see “CO to CO Duration Time Limit” on page 3-30. 3 beeps tone will be heard every 5 seconds for 15 seconds before the call is disconnected from the line.

**Absent Message Capability** *(see page 4-34)*

**Description**
Absent message (Message 1 through 6) which are programmed can be informed to calling party.

Programming can be done at any telephone (either proprietary telephones or standard telephones).

When a caller using the proprietary telephone with LCD dials the extension in which the message is programmed, it will be displayed on the LCD.

**Operation**

**Setting**

- **Message 1. “Will Return Soon”**
  - Lift handset
  - Dial “751”
  - Dial “#”

- **Message 2. “Gone Home”**
  - Lift handset
  - Dial “752”
  - Dial “#”
Use of Other Features (cont.)

Absent Message Capability (cont.)

- **Message 3.** "At Ext. **123**"
  - Lift handset
  - Dial "753"
  - Dial extension number
  - Lift handset
  - Dial "#"
  - Hang up

- **Message 5.** "Out Until **10/23**"
  - Lift handset
  - Dial "755"
  - Enter extension number
  - Enter month (01 through 12)
  - Dial "#"
  - Hang up

- **Message 4.** "Back at **10:23 AM**"
  - Lift handset
  - Dial "754"
  - Enter hour (01 through 12)
  - Enter minute (00 through 59)
  - Dial "0" for AM
  - Dial "1" for PM
  - Dial "#"
  - Hang up

- **Message 6.** "In a Meeting"
  - Lift handset
  - Dial "756"
  - Dial "#"
  - Hang up

To Cancel the message

- Lift handset
- Dial "7.50"
- Dial "#"
Use of Other Features (cont.)

Call Waiting Tone—From CO/Extension Deny (see page 4-42)

Description
During a conversation, a call waiting tone will be heard when a third party on an outside line or intercom calls you. Call waiting tone can be removed at customer’s request. Default is “Allow”.

Operation

To Deny CO Call Waiting Tone

Lift handset
dial “73”
dial “1”

Dial “0#”
Hang up

To Allow CO Call Waiting Tone

Lift handset
dial “73”
dial “1”

To Deny Extension Call Waiting Tone

Lift handset
dial “73”
dial “2”

Dial “0#”
Hang up

To Allow Executive Override

Lift handset
dial “73”
dial “3”

Dial “0#”
Hang up

Executive Override Deny (see page 4-32)

Description
Allows you to prohibit another extension user from intruding into your conversation with an outside or inside party. For programming of the intrusive extension, see “Executive Override” on page 3-73. Default is “Allow”.

Operation

To Deny Executive Override

Lift handset
dial “73”
dial “3”

To Allow Executive Override

Lift handset
dial “73”
dial “3”

Dial “1#”
Hang up
Use of Other Features (cont.)

**Data Line Security**
(see page 4-41)

**Description**
This feature provides security when transmitting data through an extension of the KX-T123210. Executive override, Call waiting tone and Hold time reminder tone from the KX-T123210 are prohibited in this mode.

**Operation**

**Setting**

- Lift handset
- Dial "73"
- Dial "0"
- Dial "1#"
- Hang up

**To Cancel**

- Lift handset
- Dial "73"
- Dial "0"
- Dial "1#"
- Hang up

**Operation**

**Station Feature Clear**
(see page 4-45)

**Description**
Dialing (79#) will clear the following station Features on an extension to default data.
- Call Forwarding
- Data Line Security
- Dial Call Pickup Deny
- Do not Disturb
- Call Waiting Tone From CO / Extension Deny
- Pick up Dial
- Absent Message Capability
- Executive Override Deny

- Lift handset
- Dial "79#"
- Hang up

**Operation**

- KX-T123210
  - Data terminal provided with the telephone equipment.
  - Standard Telephone
  - Data terminal unprovided with the telephone equipment

- This mode cannot prevent external call waiting tone from coming into KX-T123210 system. We recommend that this mode is established on a line which has no special telephone company services.
Use of Other Features (cont)

Pickup Dial

Description
Picking up the handset automatically dials a programmed phone number.

Operation

To Program

Lift handset
Dial "742"

Dial extension number

To Dial

If the "Pickup Dial" feature did not work, hang up for 2 seconds, and lift the handset again.

- The 3 seconds may be changed to 1 second, 2 seconds or 4 seconds by programming. (See page 3-29)
- A rotary phone will not function for Pickup Dial.
- Dialing (speed dialing and manual dialing) is possible within 3 (1, 2 or 4) seconds. When you program for an outside call, enter the line access number, [@] [*], account code, and then the desired number.
- The pickup dial will not be activated by picking up the handset during a hold or when receiving a call.
- You can not dial "0" instead of pressing the "#" button.
- Up to 32 digits can be stored.
- The "*" button is used as the PAUSE.

To Enable or Disable

To enable pickup dial

Lift handset
Dial "741#"

To disable pickup dial

Lift handset
Dial "740#"

- You may dial 9 or 81 through 88 and phone number instead of extension number.
## TROUBLESHOOTING

### During Installation

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>PROBABLE CAUSE</th>
<th>POSSIBLE SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension does not operate.</td>
<td>Bad printed circuit board (LC-Card)</td>
<td>Exchange printed circuit board for another printed circuit board.</td>
</tr>
<tr>
<td></td>
<td>Bad connection between the system and extension</td>
<td>Take that extension and plug it into the same extension port using a short telephone cord. If telephone does not work, connection between the system and the extension must be repaired.</td>
</tr>
<tr>
<td></td>
<td>A telephone with an A-Al relay is connected.</td>
<td>Use a 2 wires cord. Set the A-Al relay switch of the telephone to “OUT” or “OFF” position.</td>
</tr>
<tr>
<td></td>
<td>Bad extension</td>
<td>Take that extension and plug it into another extension port that is working. If the telephone does not work, replace the phone.</td>
</tr>
<tr>
<td>Improper reset operation</td>
<td>Induced noise on the wire between the System and the Amplifier.</td>
<td>Press the Reset Button.</td>
</tr>
<tr>
<td>Noise in external paging</td>
<td>Excessive input level from external music source</td>
<td>Use a shielded cable as the connection wire between the System and Amplifier. A short shielded cable is recommended.</td>
</tr>
<tr>
<td>Volume distortion from</td>
<td>Excessive input level from external music source</td>
<td>Decrease the Output level of the external music source by using the Volume Control on the music source.</td>
</tr>
<tr>
<td>external music source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed dialing or One Touch</td>
<td>Bad programming</td>
<td>Enter the line access code (9) or trunk group access code (81 through 88) into programming.</td>
</tr>
<tr>
<td>Dialing dose not function.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A dial tone (short tone</td>
<td>The host PBX may have caused the line to hang up when the KX-T123210 was</td>
<td>Use the handset instead of the speakerphone.</td>
</tr>
<tr>
<td>continuously) was heard</td>
<td>connected to it.</td>
<td></td>
</tr>
<tr>
<td>and telephone line hung up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>at once when accessing an</td>
<td></td>
<td></td>
</tr>
<tr>
<td>outside during the</td>
<td></td>
<td></td>
</tr>
<tr>
<td>speakerphone mode.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## During Connection

1. Connection between the Central Office and the KX-T123210

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot make or receive calls on the CO lines.</td>
<td>CO lines are connected to the D1/D2.</td>
<td>Reconnect the CO lines to the T/R of the telephone jack using 2-conductor wiring.</td>
</tr>
</tbody>
</table>

![Diagram showing connection between CO line and KX-T123210](image)

2. Connection between the KX-T123210 and the extensions. (KX-T123230, KX-T123220, KX-T61630, KX-T61631, KX-T61620, KX-T30820 and KX-T30830)

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot make calls when the SP-Phone button on the KX-T123230 (or KX-T123220, KX-T61620, KX-T61630, KX-T61631, KX-T30820, KX-T30830) is pressed. The SP-Phone indicator does not light.</td>
<td>The T/R is connected to the D1/D2.</td>
<td>Use the correct cord (inner 2 wires are for T/R and the outer 2 wires are for D1/D2).</td>
</tr>
</tbody>
</table>

![Diagram showing connection between KX-T123210 and extension](image)

3. Connection between the KX-T123210 and a standard telephone (with no polarity)

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>When the handset is lifted nothing is heard.</td>
<td>The T/R is connected to the D1/D2.</td>
<td>Use the correct cord (inner 2 wires are for T/R). If a telephone equipped with an A-Al relay is connected to the KX-T123210, set the A-Al relay switch of the telephone to OFF.</td>
</tr>
</tbody>
</table>

![Diagram showing connection between KX-T123210 and extension](image)

4. Connection between the KX-T123210 and a standard telephone that is polarity sensitive

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dial tone cannot be heard when the handset is lifted.</td>
<td>The “T” is connected to the “R”.</td>
<td>Reverse the connections of the T/R.</td>
</tr>
</tbody>
</table>

![Diagram showing connection between KX-T123210 and extension](image)
### During Operation

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>PROBABLE CAUSE</th>
<th>POSSIBLE SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension does not operate.</td>
<td>The Power failure switch of the KX-T123230, KX-T61631, KX-T61630 or KX-T30830 is set to ON.</td>
<td>Set the Power failure switch to OFF.</td>
</tr>
<tr>
<td>When using the speakerphone mode, nothing is heard.</td>
<td>The HANDSET/HEADSET selector of the KX-T123230, KX-T61631, KX-T61630 or KX-T30830 is set to the &quot;HEADSET&quot; position.</td>
<td>When the headset is not used, set the HANDSET/HEADSET selector to the &quot;HEADSET&quot; position.</td>
</tr>
<tr>
<td>The unit does not ring.</td>
<td>• Ringer Volume Selector is set to &quot;OFF&quot;.</td>
<td>• Set to &quot;HIGH&quot; or &quot;LOW&quot;.</td>
</tr>
<tr>
<td></td>
<td>• The CO numbers are not programmed.</td>
<td>• See &quot;CO Line Ringing Selection&quot; on page 4-58.</td>
</tr>
<tr>
<td>During a power interruption, extensions connected to jack number 1, 2, 9, 10, 17 and 18 do not operate.</td>
<td>• The Power failure switch of the KX-T123230, KX-T61631, KX-T61630 or KX-T30830 is set to OFF.</td>
<td>• Set the Power failure switch to ON.</td>
</tr>
<tr>
<td></td>
<td>• The dialing mode (tone or pulse) is improper.</td>
<td>• Set the Tone/Pulse switch to the other position.</td>
</tr>
<tr>
<td></td>
<td>• KX-T123220, KX-T123250, KX-T61620, KX-T61650, KX-T30820 or KX-T30850 is connected.</td>
<td>• Disconnect KX-T123220, KX-T123250, KX-T61620, KX-T61650, KX-T30820 or KX-T30850 and connect the KX-T123230, KX-T61631, KX-T61630, KX-T30830 or a standard telephone.</td>
</tr>
</tbody>
</table>

### Reset Button

If the system is not operating properly, use the Reset Button.

- Before using the Reset Button, try the system feature again which does not work several times to confirm there definitely is a problem.
- Pressing the Reset button will cause the followings.
  1. Camp-on to be cleared.
  2. Last number redial to be cleared.
  3. Saved number redial to be cleared.
  4. Calls on hold are terminated.
  5. Calls on exclusive hold are terminated.
  6. Calls in progress are terminated.
  7. Call park to be cleared.
  8. Message Waiting to be cleared.

Data that are stored in memory other than above mentioned will not be cleared by use of the Reset Button.

**Note**

If the system does not operate properly, push the Reset Button.

If there still is no difference, switch the power off and on again after 5 minutes. If the system still does not work, switch the power off.

The following extensions will be directly connected to each of the central office lines (C.O.).

- Extension connected to jack number01 . . . . . C.O 1
- Extension connected to jack number02 . . . . . . C.O 2
- Extension connected to jack number09 . . . . . . . C.O 5
- Extension connected to jack number10 . . . . . . . C.O 6
- Extension connected to jack number17 . . . . . . C.O 9
- Extension connected to jack number18 . . . . . . C.O1 0

If the automobile type battery is connected to the system, disconnect it.
DTMF Receiver Check

To set

until the desired DTMF receiver appears

until desired mode appears

[Enable default]

[Disable]

To confirm

Dial any extension (100 through 199) and listen for that extension to ring.

Description

DTMF (Dual Tone Multi Frequency) Receiver enables tone telephones to dial within the system. To check the DTMF Receivers, activate the DTMF Receivers one at a time and confirm if the receiver can receive tone signals.

Operation at Extension Connected to Jack Number 1.

To Remove DTMF Receiver 2 and 3:

1. Set the System Program Switch on the KX-T123210 to the “PITS” position.
2. Dial (30) to enter the DTMF mode. “DTMF Receiver” will be displayed.
3. Press the NEXT button. “DTMF-R NO?” will be displayed.
4. Press the NEXT button, twice, or dial (2). “DTMF-R2 : Enable” will be displayed.
5. Press the SELECT button to change to “Disable”.
   “DTMF-R2 : Disable” will be displayed.
6. Press the MEMORY button.
7. Press the NEXT button, or press the SELECT button and then dial (3). “DTMF-R3 : Enable” will be displayed.
8. Press the SELECT button to change to “Disable”.
9. Press the MEMORY button.
10. Press the END button to return to the initial program mode.
11. Set the System Program Switch to the “SET” position.

Confirmation of DTMF Receiver 1:

1. Set the DIALING MODE (located on the rear of KX-T123230) to the TONE position.
2. Set the POWER FAILURE (located on the rear of KX-T123230) switch to the ON position.
3. Dial the extension number (100 through 199).
4. If DTMF Receiver is bad, do the following procedure for removing the DTMF Receiver after the next step on this section.
5. Set the POWER FAILURE Switch to the OFF position.

- To check DTMF Receiver 2, remove DTMF Receiver 1 and confirm that DTMF Receiver 2 is good by the procedures of “To Remove DTMF Receiver 1 and 3” and “Confirmation of DTMF Receiver 2”.
- To check DTMF Receiver 3, remove DTMF Receiver 1 and confirm that DTMF Receiver 3 is good by the procedures of “To Remove DTMF Receiver 1 and 2” and “Confirmation of DTMF Receiver 3”.

A = [ ] : to assign to same of all receivers
1 : receiver 1
2 : receiver 2
3 : receiver 3
# Table of System Features

The following system features can be programmed into memory:

<table>
<thead>
<tr>
<th>Dial Plan Code</th>
<th>System Features</th>
<th>Dial Plan Code</th>
<th>System Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension no. (100 through 199)</td>
<td>Individual Inter Office Calling</td>
<td>7 1 4 #</td>
<td>Do Not Disturb</td>
</tr>
<tr>
<td></td>
<td>Busy Station Signaling</td>
<td>7 2 0 #</td>
<td>Cancelling Dial Call Pickup Deny</td>
</tr>
<tr>
<td>3 1</td>
<td>Calling Doorphone 1 or 2</td>
<td>7 2 1 #</td>
<td>Dial Call Pickup Deny</td>
</tr>
<tr>
<td>3 2 0</td>
<td>Paging-External Equipments 1 and 2</td>
<td>7 3 1 6 1 #</td>
<td>Data line Security</td>
</tr>
<tr>
<td>3 2 1</td>
<td>Paging-External Equipment 1</td>
<td>7 3 1 6 1 #</td>
<td>Cancelling Data line Security</td>
</tr>
<tr>
<td>3 2 2</td>
<td>Paging-External Equipment 2</td>
<td>7 3 1 6 1 #</td>
<td>Executive Override Deny</td>
</tr>
<tr>
<td>3 3</td>
<td>Group no. (1 through 8)</td>
<td>7 3 6 #</td>
<td>Cancelling Executive Override Deny</td>
</tr>
<tr>
<td>4 2 0</td>
<td>Paging Group</td>
<td>7 5 6</td>
<td>Cancelling Absent Message</td>
</tr>
<tr>
<td>4 2 1</td>
<td>Paging All Extensions</td>
<td>7 5 6</td>
<td>Message &quot;Will Return Soon&quot;</td>
</tr>
<tr>
<td>4 2 2</td>
<td>External paging no. (1 or 2)</td>
<td>7 5 6</td>
<td>Message &quot;Gone Home&quot;</td>
</tr>
<tr>
<td>4 3</td>
<td>Paging Answer-External Equipment 1 or 2</td>
<td>7 5 6</td>
<td>Message &quot;At Ext.101&quot; Extension no.</td>
</tr>
<tr>
<td>4 4</td>
<td>Paging Answer-Group-All Extensions</td>
<td>7 5 6</td>
<td></td>
</tr>
<tr>
<td>4 5</td>
<td>Dial Call Pickup</td>
<td>7 5 6</td>
<td></td>
</tr>
<tr>
<td>5 2</td>
<td>Call Park Retrieve</td>
<td>7 6 3 1</td>
<td>Message &quot;Back at 10:00 AM.&quot;</td>
</tr>
<tr>
<td>6 0</td>
<td>Camp-on</td>
<td>7 6 3 1</td>
<td></td>
</tr>
<tr>
<td>7 0</td>
<td>Cancelling Message Waiting</td>
<td>7 6 3 1</td>
<td></td>
</tr>
<tr>
<td>7 1</td>
<td>Cancelling Call Forwarding or Do Not Disturb</td>
<td>7 6 3 1</td>
<td>Message &quot;Out Until 10/23&quot;</td>
</tr>
<tr>
<td></td>
<td>Call Forwarding-All Calls</td>
<td>7 6 3 1</td>
<td>Message &quot;In a Meeting&quot;</td>
</tr>
<tr>
<td></td>
<td>Call Forwarding-Busy or No Answer</td>
<td>7 6 3 1</td>
<td>Flexible Night Service-Day Mode</td>
</tr>
<tr>
<td></td>
<td>Call Forwarding-To Outside Line</td>
<td>7 6 3 1</td>
<td>Flexible Night Service-Night Mode</td>
</tr>
<tr>
<td>Phone no.</td>
<td></td>
<td>7 6 3 1</td>
<td>Station Program Clear</td>
</tr>
</tbody>
</table>
LIST OF TONES

Confirmation tone 1
Confirmation tone 2
Confirmation tone 3
Feature activation tone
Dial tone
Busy tone
Account Code input tone
Reorder tone
Ringback tone
Do not Disturb tone
Call on hold tone
Alarm tone
Hold time reminder
Call waiting tone

LIST OF RING TONES

CO calls (CO hold recall)
Intercom calls (Intercom hold recall)
Doorphone calls
Recall for camp-on
SPECIFICATION

General Description

1. Capacity
   - Outsides (CO) Max 12
   - Stations Max 32

2. Control Method
   - Stored Program
   - CPU: 8 bits CPU
   - Control ROM: 192 KB, Control RAM: 64KB

3. Switching
   - Space Division
   - CMOS Crosspoint Switch

4. Power Supplies
   - Primary AC 120V 60Hz
   - Secondary Station Supply Volt: 26V
   - Circuit Volt: +5V, +12V, -14V, -16V, ±7V

   - Power Failure
     - Max 6 outsides assigned to stations
     - System operation for several hours by recommended battery (car type batteries consisting of two 12 VDC, 16 amp / hour maximum rating).

5. Dialing
   - Outward Dial Pulse 10PPS, 20PPS
   - Tone Dial
   - Internal Dial Pulse 10PPS, 20PPS
   - Tone Dial
   - Mode Conversion DP-DTMF, DTMF-DP

6. Intercom paths
   - 5
7. Outside (CO)-Outside (CO) paths
   - 2
8. Connector
   - Outsides (CO)
     - Modular Jack (RJ-11)
     - Station Amphenol Connector
     - Paging Output Pin Jack (RCA JACK)
     - External Music Input two-conductors Jack (MINIJACK 9/64 inch diameter)

9. EXT Connection
   - Cable
     - 1 pair wire (Standard Telephone)

10. SMDR Interface
    - Station Message Output Equipment Printer, Data Terminal
    - Detail Recording Detail Recording Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code

Characteristics

1. Station Loop Limit
   - KX-T123230/KX-T123220/KX-T123250/
   - KX-T61630/KX-T61620/KX-T61650/KX-T61631/
   - KX-T30830/KX-T30820/KX-T30850
   - 40 ohms
   - Standard Telephone 600 ohms including set
   - Door hone 20 ohms

2. Minimum Leak Resistance
   - 1 5,000 ohms

3. Maximum Number of Station Instruments per Line
   - (KX-T123230, KX-T123220, KX-T123250, KX-T61630, KX-T61631, KX-T61620, KX-T61650, KX-T30830, KX-T30820, KX-T30850 or Standard telephone)

4. Ring Voltage
   - 70 Vrms at 20 Hz depends on Ringing Load

5. Primary Power
   - 120Va80 Hz, 1.4 A maximum

6. Central Office Loop Limit
   - 1600 ohms maximum

7. Environmental Requirements
   - 0-40 C, 10%-90%

8. Hookswitch Flash Timing Range
   - 204-1000 msec
In compliance with the requirements of Part 68 of the F.C.C. Rules and Regulations for connection of terminal system (this device is classified as terminal system) to the telephone network and for your convenience, the following information is presented:

1. Notification to the Telephone Company

Customers, before connecting terminal equipment to the telephone network, shall upon request of the Telephone Company, inform the Telephone Company of the particular line(s) to which such connection is made, the F.C.C. registration number and (see label on side of unit) ringer equivalence number of the registered terminal equipment. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

2. Direct connection to A Party-line or Coin-operated Telephone Line is Prohibited

3. Incidence of Harm to The Telephone lines

Should Terminal Equipment cause harm to the Telephone Network, the Telephone Company shall, where practical, notify the customer that temporary discontinuance of service may be required. However, where prior notice is not practical, the Telephone Company may temporarily discontinue service forthwith, if such action is reasonable in the circumstances. In case of such unnotified temporary discontinuance of service, the Telephone Company shall:

(a) Promptly notify the customer of such temporary discontinuance of service.

(b) Afford the customer the opportunity to correct the situation which gave rise to the temporary discontinuance.

(c) Inform the customer of the right to bring a complaint to the Commission pursuant to the procedures set out in Subpart E of Part 68 of FCC Telephone Equipment Rules.

4. Compatibility of The Telephone Network and Terminal Equipment

(a) Availability of telephone interface information.

Technical information concerning interface parameters and specifications not specified in FCC Rules, including the number of Ringers which may be connected to a particular telephone line, which is needed to permit Terminal Equipment to operate in a manner compatible with Telephone Company communications facilities, shall be provided by the Telephone Company upon customer's request.


The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68 of the FCC Rules and Regulations. If such changes can be reasonably expected to render any customer Terminal Equipment incompatible with Telephone Company Communications Facilities, or require modification or alteration of such Terminal Equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.
OTHERS

- Keep the unit away from heating appliances and electrical noise generating devices such as fluorescent lamps, motors and television. These noise sources can interfere with the performance of the EASA-PHONE.

- This unit should be kept free of dust, moisture, high temperature and vibration, and should not be exposed to direct sunlight.

- Never attempt to insert wires, pins, etc. into the vents or other holes of this unit.

- If there is trouble, disconnect the unit from the telephone line. Plug the telephone directly into the telephone line. If the telephone operates properly, do not reconnect the unit to the line until the trouble has been repaired by an authorized Panasonic Factory Service Center. If the telephone does not operate properly, chances are that the trouble is in the telephone system, and not in the unit.

- Do not use benzine, thinner, or similar solvents. Do not use abrasive powder to clean the cabinet. Wipe it with a soft cloth.

"WARNING -This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference."

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
LIMITED WARRANTY

Panasonic Company, PHI or PSC will repair this product with new or rebuilt parts, free of charge, in the U.S.A. or Puerto Rico for one (1) year from the date of original purchase in the event of a defect in materials or workmanship.

**Batteries** (if included) — New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days from the date of original purchase. Non-rechargeable batteries are not warranted.

Carry-in or mail-in service in the continental U.S.A. can be obtained during the warranty period from a Matsushita Services Company (MSC ) Factory Servicenter listed in the Servicenter Directory. Or call 1-800-447-4700, toll free, to locate an authorized MSC Servicenter. Carry-in or mail-in service in Puerto Rico or Hawaii can be obtained during the warranty period by calling the telephone numbers listed in the Servicenter Directory (see page 6-11).

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered. This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which are caused by products not supplied by Panasonic Company, PHI or PSC or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, or service by anyone other than a MSC Factory Servicenter or authorized MSC Servicenter or damage that is attributable to acts of God.

**LIMITS AND EXCLUSIONS**

There are no express warranties except as listed above. PANASONIC COMPANY, PHI AND PSC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the company address indicated on the back cover.
SERVICENTER LIST

To locate an Authorized Servicenter in Your Area within the Continental U.S.A.

DIAL TOLL FREE : I-800-447-4700
24 Hours a Day, 7 Days a Week

Requests for assistance in obtaining repairs or technical information...contact any one of the following Service Administration offices:

EASTERN
2250 Cabot Boulevard
West Langhorne, PA 19047
215-741-0676

MIDWEST
425 East Algonquin Road
Arlington Heights, IL 60005
312-981-4842

WESTERN
6550 Katella Avenue
Cypress, CA 90630
714-895-7438

SOUTHERN
1854 Shackleford Court
Norcross, GA 30093
404-925-6860

Correspondence requesting product information should be sent to:
Panasonic Consumer Affairs, Matsushita Services Company, Division of Matsushita Electric Corporation of America, 50 Meadowland Parkway, Secaucus, NJ 07094

Service in Puerto Rico
MATSUSHITA ELECTRIC OF PUERTO RICO, INC.
Panasonic Sales Company
Factory Servicenter
Calle Rosarito, Edif D
Ceramica Industrial Park
Carolina, Puerto Rico 00630
809-750-5135.809-750-5235

Service in Hawaii
PANASONIC HAWAII, INC.
91-238 Kauhi Street, Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774
808-682-1521

Service in the Continental U.S.A....Factory Servicenters
1575 NORTHSIDE DRIVE SUITE 325
ATLANTA, GA 30318
(404) 351-8978

MATSUSHITASERVICESCOMPANY
Division of Matsushita Electric Corporation of America 50 Meadowland Parkway, Secaucus, New Jersey 07094
## Phone Number Directory

### TELePHONE NUMBER

<table>
<thead>
<tr>
<th>Co</th>
<th>Tel No. 1</th>
<th>Co</th>
<th>Tel No. 2</th>
<th>Co</th>
<th>Tel No. 3</th>
<th>Co</th>
<th>Tel No. 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>7</td>
<td></td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>8</td>
<td></td>
<td>11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>9</td>
<td></td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

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**Date and Time Setting**
- Setting year
- Setting month
- Setting day
- Setting day of the week
- Setting hour
- Setting minute
- Setting AM / PM

**System Speed Dialing Entry**
- Automatic line access number
- Access number of Trunk Group
- Speed access code (00 through 99)
- There is the phone number directory on page 7-1.

**Extension Number Assignment**
- Dial the extension number (100 through 199)
- Until the desired jack number (01 through 32) appears

**Operator Assignment**
- Dial the jack number set operator (01 through 32)
- Until the desired operator number (1 or 2) appears

**Paired Telephone Assignment for DSS Console**
- Dial the jack number paired with console 2 (01 through 32)
- Dial the jack number paired with console 1 (01 through 32)

**Automatic CO Hold Using DSS Button**
- With Transfer / Without Transfer
- Default / To make program change

7-3
## TO SET PROGRAM ADDRESS

### STEPS REQUIRED TO CHANGE PROGRAM

<table>
<thead>
<tr>
<th><strong>Day/Night Service Mode</strong></th>
<th><strong>Switching of Service Mode</strong></th>
<th><strong>Starting Time</strong></th>
<th><strong>Call Hunting Setting</strong></th>
<th><strong>Hunting Type</strong></th>
<th><strong>Toll Restriction Area Type Selection</strong></th>
<th><strong>CO Operator Call-Boundary Class</strong></th>
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### Day/Night Service Mode
- **Switching of Service Mode**
- **Manual**
- **Automatic**

### Starting Time
- **Default**
- **Manual**
- **Automatic**
- **Starting Time**
- **Day Service** 9:00 AM
- **Night Service** 5:00 PM

### Call Hunting Setting
- **Default**
- **Disable**
- **Enable**

### Hunting Type
- **Default**
- **Terminate**
- **Circular**

### Toll Restriction Area Type Selection
- **Default**
- **Type A**
- **Type B**
- **Type C**

### CO Operator Call-Boundary Class
- **Default**
- **Class 1**
- **Class 2**
- **Class 3**
- **Class 4**
- **Class 5**
- **Class 6**
- **Class 7**
- **Class 8**

### Notes
- All extensions (1 through 8) are available for programming.
- For **Manual** switching, manually select **Day Service** or **Night Service**.
- For **Automatic** switching, enter the desired **Starting Time** for each service.
- **Call Hunting** and **Hunting Type** operate independently.
- **Toll Restriction** applies to **Area Type Selection**.
- **CO Operator Call-Boundary Class** is activated by dialing the boundary class number (1 through 8).
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| 20-to-20 Duration Time Limit | 2.2 | **NEXT** AB MEMORY **END**

- dial the time (1 minute through 32 minutes)

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<td>10</td>
<td></td>
</tr>
</tbody>
</table>

| 3MDR | 2.3 | (Carriage return for a new line)

**NEXT** SELECT MEMORY

- CR + LF / CR

<table>
<thead>
<tr>
<th></th>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR + LF</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(Baud rate)</th>
<th><strong>NEXT</strong> SELECT MEMORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 B / 150 B / 300 B / 600 B / 1200 B / 2400 B / 4800 B / 9600 B</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 B</td>
<td>150 B</td>
</tr>
<tr>
<td>300 B</td>
<td>600 B</td>
</tr>
<tr>
<td>1200 B</td>
<td>2400 B</td>
</tr>
<tr>
<td>4800 B</td>
<td>9600 B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(Word length)</th>
<th><strong>NEXT</strong> SELECT MEMORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 bits / 8 bits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 bits</td>
<td>x</td>
</tr>
<tr>
<td>8 bits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(Parity)</th>
<th><strong>NEXT</strong> SELECT MEMORY <strong>END</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>None / Mark / Space / Even / Odd</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>x</td>
</tr>
<tr>
<td>Mark</td>
<td></td>
</tr>
<tr>
<td>Space</td>
<td></td>
</tr>
<tr>
<td>Even</td>
<td></td>
</tr>
<tr>
<td>Odd</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(Stop bit length)</th>
<th><strong>NEXT</strong> SELECT MEMORY <strong>END</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 bit / 2 bits</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 bit</td>
<td>x</td>
</tr>
<tr>
<td>2 bits</td>
<td></td>
</tr>
<tr>
<td>TO SET</td>
<td>PROGRAM ADDRESS</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td><strong>SM DR (cont.)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>SMDR</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Parameters</strong></td>
<td>24</td>
</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Incoming/Outgoing Call Selection for printing</strong></td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Secret Speed Dial/One Touch Dial Printing</strong></td>
<td>26</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>System Data Dump</strong></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### TO SET TABLES

<table>
<thead>
<tr>
<th>Duration Time Count</th>
<th>Start Mode</th>
<th>STEPS REQUIRED TO CHANGE PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.8</td>
<td>NEXT SELECT MEMORY END</td>
</tr>
<tr>
<td></td>
<td>Instantly</td>
<td>To make program change</td>
</tr>
<tr>
<td></td>
<td>5s after dial</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td>10s after dial</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15s after dial</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>External Paging Access Tone</th>
<th>2.9</th>
<th>NEXT SELECT MEMORY END</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Enable / Disable</td>
<td>until the desired external paging equipment number (1 or 2) appears</td>
</tr>
<tr>
<td>Default To make program change</td>
<td>External paging 1 and 2</td>
<td>1 2</td>
</tr>
<tr>
<td>Enable</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CO Connection Assignment</th>
<th>4.0</th>
<th>NEXT SELECT MEMORY END</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect / Not Connect</td>
<td>Connect</td>
<td>until the desired CO number (01 through 12) appears</td>
</tr>
<tr>
<td>Default To make program change</td>
<td>all CO's</td>
<td>CO number</td>
</tr>
<tr>
<td>Connect</td>
<td>x</td>
<td>01 02 03 04 05 06 07 08 09 10 11 12</td>
</tr>
<tr>
<td>Not connect</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dial Mode (DTMF/Pulse)</th>
<th>4.1</th>
<th>NEXT SELECT MEMORY END</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTMF Mode / Pulse Mode</td>
<td>DTMF Mode</td>
<td>until the desired CO number (01 through 12) appears</td>
</tr>
<tr>
<td>Default To make program change</td>
<td>all CO's</td>
<td>CO number</td>
</tr>
<tr>
<td>DTMF Mode</td>
<td>x</td>
<td>01 02 03 04 05 06 07 08 09 10 11 12</td>
</tr>
<tr>
<td>Pulse Mode</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pulse Speed Selection</th>
<th>4.2</th>
<th>NEXT SELECT MEMORY END</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Speed / High Speed</td>
<td>Low Speed</td>
<td>until the desired CO number (01 through 12) appears</td>
</tr>
<tr>
<td>Default To make program change</td>
<td>all CO's</td>
<td>CO number</td>
</tr>
<tr>
<td>Low Speed</td>
<td>x</td>
<td>01 02 03 04 05 06 07 08 09 10 11 12</td>
</tr>
<tr>
<td>High Speed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### TO SET PROGRAM ADDRESS

**Host PBX Access Codes Assignment**

<table>
<thead>
<tr>
<th>CO</th>
<th>Outside access codes of the host PBX</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td></td>
</tr>
<tr>
<td>07</td>
<td></td>
</tr>
<tr>
<td>08</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Trunk Group Assignment**

- **NEXT MEMORY END**
  - Dial the trunk group number (1 through 8)
  - Until the desired CO number (01 through 12) appears

<table>
<thead>
<tr>
<th>CO number</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Trunk group 1</td>
</tr>
<tr>
<td>02</td>
<td>Trunk group 2</td>
</tr>
<tr>
<td>03</td>
<td>Trunk group 3</td>
</tr>
<tr>
<td>04</td>
<td>Trunk group 4</td>
</tr>
<tr>
<td>05</td>
<td>Trunk group 5</td>
</tr>
<tr>
<td>06</td>
<td>Trunk group 6</td>
</tr>
<tr>
<td>07</td>
<td>Trunk group 7</td>
</tr>
<tr>
<td>08</td>
<td>Trunk group 8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CO number</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Trunk group 1</td>
</tr>
<tr>
<td>02</td>
<td>Trunk group 2</td>
</tr>
<tr>
<td>03</td>
<td>Trunk group 3</td>
</tr>
<tr>
<td>04</td>
<td>Trunk group 4</td>
</tr>
<tr>
<td>05</td>
<td>Trunk group 5</td>
</tr>
<tr>
<td>06</td>
<td>Trunk group 6</td>
</tr>
<tr>
<td>07</td>
<td>Trunk group 7</td>
</tr>
<tr>
<td>08</td>
<td>Trunk group 8</td>
</tr>
</tbody>
</table>
## STEPS REQUIRED TO CHANGE PROGRAM

### Flexible Outward Dialing Assignment Day Mode

<table>
<thead>
<tr>
<th>TO SET</th>
<th>PROGRAM ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible</td>
<td>Outward Dialing Assignment Day Mode</td>
</tr>
</tbody>
</table>

#### Step 1
- Press NEXT until the desired CO number (01 through 32) appears
- Press NEXT until the desired CO number (01 through 12) appears

#### Step 2
- Enter the desired CO number
- Press SELECT
- Press MEMORY
- Press END

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack number</td>
<td>all jack numbers</td>
</tr>
<tr>
<td>CO 1</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 2</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 3</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 4</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 5</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 6</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 7</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 8</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 9</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 10</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 11</td>
<td>Enable</td>
</tr>
<tr>
<td>CO 12</td>
<td>Enable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Jack number</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
<th>25</th>
<th>26</th>
<th>27</th>
<th>28</th>
<th>29</th>
<th>30</th>
<th>31</th>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO 1</td>
<td></td>
<td></td>
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<tr>
<td>CO 2</td>
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<tr>
<td>CO 3</td>
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<td>CO 4</td>
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<td>CO 5</td>
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<tr>
<td>CO 6</td>
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<td>CO 7</td>
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<td>CO 8</td>
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<td>CO 10</td>
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<tr>
<td>CO 11</td>
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<td>CO 12</td>
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</tr>
</tbody>
</table>

### Notes
- Press NEXT until the desired CO number (01 through 32) appears
- Press NEXT until the desired CO number (01 through 12) appears

---

7-11
## STEPS REQUIRED TO CHANGE PROGRAM

### Flexible Outward Dialing Assignment (cont.)

### Night Mode

#### TO SET

<table>
<thead>
<tr>
<th>Program Address</th>
<th>4 6</th>
</tr>
</thead>
</table>

#### STEPS TO SET

1. **Select** the desired CO number.
2. **Enable** or **Disable** the jack number until the desired jack number (01 through 32) appears.

#### Default & To make program change

<table>
<thead>
<tr>
<th>CO</th>
<th>Enable</th>
<th>Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>4</td>
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<tr>
<td>5</td>
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<td></td>
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<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
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<tr>
<td>8</td>
<td></td>
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<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>
</tbody>
</table>

For each CO number, select **Enable** or **Disable** for each jack number (01 through 32).
### Flexible Ringing Assignment

**Day Mode**

#### STEPS REQUIRED TO CHANGE PROGRAM

**TO MAKE PROGRAM CHANGE**

- **Default**
- **To make number appear**

<table>
<thead>
<tr>
<th>All Jack Numbers</th>
<th>01</th>
<th>02</th>
<th>03</th>
<th>04</th>
<th>05</th>
<th>06</th>
<th>07</th>
<th>08</th>
<th>09</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO 1</td>
<td>Enable</td>
<td>Disable</td>
<td>×</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO 2</td>
<td>Enable</td>
<td>Disable</td>
<td>×</td>
<td></td>
<td></td>
<td></td>
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</table>

**NEXT** NEXT ↔ SELECT MEMORY END

- Enable / Disable
- \( \ldots \) until the desired CO number (01 through 32) appears
- \( \ldots \) until the desired CO number (01 through 12) appears

- \( \times \) indicates a change is required.
### STEPS REQUIRED TO CHANGE PROGRAM

#### TO SET

<table>
<thead>
<tr>
<th>Flexible Numbering Assignment (cont.)</th>
<th>Night Mode</th>
</tr>
</thead>
<tbody>
<tr>
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#### 48

**other CO number**

**other jack number**

**NEXT**

**NEXT**

**SELECT**

**MEMORY**

**END**

---

#### Default

<table>
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<tr>
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<th>Jack number</th>
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</tbody>
</table>

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#### To make program change

| CO 1          | Enable                 |
|              | Disable                |
| CO 2          | Enable                 |
|              | Disable                |
| CO 3          | Enable                 |
|              | Disable                |
| CO 4          | Enable                 |
|              | Disable                |
| CO 5          | Enable                 |
|              | Disable                |
| CO 6          | Enable                 |
|              | Disable                |
| CO 7          | Enable                 |
|              | Disable                |
| CO 8          | Enable                 |
|              | Disable                |
| CO 9          | Enable                 |
|              | Disable                |
| CO 10         | Enable                 |
|              | Disable                |
| CO 11         | Enable                 |
|              | Disable                |
| CO 12         | Enable                 |
|              | Disable                |

---

#### Jack number

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</table>
### STEPS REQUIRED TO CHANGE PROGRAM

**Day Mode**

1. **Delayed Ringing Assignment**
   - **Steps Required**
     1. **To make program change**
        - **CO 1**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 2**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 3**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 4**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 5**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 6**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 7**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 8**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 9**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 10**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 11**
          - Default: Immdly
          - Jack number: 01-16
        - **CO 12**
          - Default: Immdly
          - Jack number: 01-16

2. **Select Memory**
   - **Next Step**
     - Delayed Ringing Assignment

3. **Set**
   - **Select Memory**
     - **Other Jack Number**
   - **Next Step**
     - Delayed Ringing Assignment

4. **End**
   - **Select Memory**
     - **Other CO Number**
   - **Next Step**
     - Delayed Ringing Assignment

**Legend:**
- **Immdly**: Immediately
- **1ring**: First ring
- **2ring**: Second ring
- **3ring**: Third ring

**Notes:**
- Until the desired CO number (01 through 12) appears
- Until the desired jack number (01 through 32) appears
## STEPS REQUIRED TO CHANGE PROGRAM

### Day Mode (cont.)

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### TO SET

**Program Address: 50**

**Delayed Ringing Assignment**

**Night Mode**

---

### STEPS REQUIRED TO CHANGE PROGRAM

#### Other CO number

- Immdly
- 1ring
- 2ring
- 3ring

#### Other jack number

- Immdly
- 1ring
- 2ring
- 3ring

#### Select Memory End

- Immdly / 1ring / 2ring / 3ring
- Immdly until the desired jack number (01 through 32) appears
- Immdly until the desired CO number (01 through 12) appears

---

#### Default

- All jack numbers

#### To make program change

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<thead>
<tr>
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<th>CO 2</th>
<th>CO 3</th>
<th>CO 4</th>
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### Table

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</tr>
<tr>
<td>01</td>
<td>02 03 04 05 06 07 08 09 10 11 12 13 14 15 16</td>
</tr>
</tbody>
</table>
### STEPS REQUIRED TO CHANGE PROGRAM

<table>
<thead>
<tr>
<th>CO</th>
<th>To make program change</th>
<th>Jack number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>17 18 19 12 21 122 123 124 125 126 127 128 129 130 131</td>
</tr>
<tr>
<td>Co 1</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 11</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
<tr>
<td>Co 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd ring</td>
<td></td>
</tr>
</tbody>
</table>
### TO SET

<table>
<thead>
<tr>
<th>PROGRAM ADDRESS</th>
<th>STEPS REQUIRED TO CHANGE PROGRAM</th>
</tr>
</thead>
</table>
| CO Direct In Line Assignment Day Mode | - Selecting the "Normal" mode

5.1

- **NEXT NEXT SELECT MEMORY END**
- Normal
- ...........until the desired CO number (01 through 12) appears

- Selecting the "DIL" mode

- **NEXT NEXT SELECT CD MEMORY END**
- ......DIL ........ Dial jack number (01 through 32)
- ...........until the desired CO number (01 through 12) appears

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CO number</td>
</tr>
<tr>
<td>all CO's</td>
<td>01 02 03 04 05 06 07 08 09 10 11 12</td>
</tr>
<tr>
<td>Normal</td>
<td>x</td>
</tr>
<tr>
<td>DIL</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>When &quot;DIL&quot; mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO number</td>
</tr>
<tr>
<td>01 02 03 04 05 06 07 08 09 lo 11 12</td>
</tr>
<tr>
<td>Jack number</td>
</tr>
</tbody>
</table>

**Night Mode**

- Selecting the "Normal" mode

5.2

- **NEXT NEXT SELECT MEMORY END**
- Normal
- ...........until the desired CO number (01 through 12) appears

- Selecting the "DIL" mode

- **NEXT NEXT SELECT CD MEMORY END**
- ......DIL ........ Dial jack number (01 through 32)
- ...........until the desired CO number (01 through 12) appears

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CO number</td>
</tr>
<tr>
<td>all CO's</td>
<td>01 02 03 04 05 06 07 08 09 10 11 12</td>
</tr>
<tr>
<td>Normal</td>
<td>x</td>
</tr>
<tr>
<td>DIL</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>When &quot;DIL&quot; mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO number</td>
</tr>
<tr>
<td>01 02 03 04 05 06 07 08 09 lo 11 12</td>
</tr>
<tr>
<td>Jack number</td>
</tr>
</tbody>
</table>

7-19
### TO SET

#### Program Address

<table>
<thead>
<tr>
<th>TO SET</th>
<th>PROGRAM ADDRESS</th>
</tr>
</thead>
</table>

#### Steps Required to Change Program

<table>
<thead>
<tr>
<th><strong>Pause Time Assignment</strong></th>
<th><strong>Next</strong></th>
<th><strong>Next</strong></th>
<th><strong>Select</strong></th>
<th><strong>Memory</strong></th>
<th><strong>End</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**1.5sec**
- 2.5sec
- 3.5sec
- 4.5sec

Until the desired CO number (01 through 12) appears.

### Hookswitch Flash Timing

<table>
<thead>
<tr>
<th><strong>Next</strong></th>
<th><strong>Next</strong></th>
<th><strong>Select</strong></th>
<th><strong>Memory</strong></th>
<th><strong>End</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**300ms**
- **600ms**
- **900ms**
- **1200ms**

Until the desired CO number (01 through 12) appears.

### Calling Party Control (CPC) Signal

<table>
<thead>
<tr>
<th><strong>Next</strong></th>
<th><strong>Next</strong></th>
<th><strong>Select</strong></th>
<th><strong>Memory</strong></th>
<th><strong>End</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Disable**
- **6.5ms**
- **400ms**

Until the desired CO number (01 through 12) appears.

### Disconnect Time

<table>
<thead>
<tr>
<th><strong>Next</strong></th>
<th><strong>Next</strong></th>
<th><strong>Select</strong></th>
<th><strong>Memory</strong></th>
<th><strong>End</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.5 sec
- 4.0 sec

Until the desired CO number (01 through 12) appears.
### TO SET PROGRAM ADDRESS

#### STEPS REQUIRED TO CHANGE PROGRAM

**Extension Group Assignment**

- **6.0**
  - **NEXT** NEXT MEMORY END
  - ...dial the extension group number (1 through 8)
  - ...until the desired jack number (01 through 32) appears

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>all jack numbers</td>
<td>Jack number</td>
</tr>
<tr>
<td>EXT GRP-1</td>
<td>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16</td>
</tr>
<tr>
<td>EXT GRP-2</td>
<td></td>
</tr>
<tr>
<td>EXT GRP-3</td>
<td></td>
</tr>
<tr>
<td>EXT GRP-4</td>
<td></td>
</tr>
<tr>
<td>EXT GRP-5</td>
<td></td>
</tr>
<tr>
<td>EXT GRP-6</td>
<td></td>
</tr>
<tr>
<td>EXT GRP-7</td>
<td></td>
</tr>
<tr>
<td>EXT GRP-8</td>
<td></td>
</tr>
</tbody>
</table>

**Service Class Assignment of Toll Restriction Day Mode**

- **6.1**
  - **NEXT** NEXT MEMORY END
  - ...dial the service class number (1 through 8)
  - ...until the desired jack number (01 through 32) appears

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>all jack numbers</td>
<td>Jack number</td>
</tr>
<tr>
<td>Class 1</td>
<td>01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16</td>
</tr>
<tr>
<td>Class 2</td>
<td></td>
</tr>
<tr>
<td>Class 3</td>
<td></td>
</tr>
<tr>
<td>Class 4</td>
<td></td>
</tr>
<tr>
<td>Class 5</td>
<td></td>
</tr>
<tr>
<td>Class 6</td>
<td></td>
</tr>
<tr>
<td>Class 7</td>
<td></td>
</tr>
<tr>
<td>Class 8</td>
<td></td>
</tr>
</tbody>
</table>

---

7-21
### TO SET \------------------ PROGRAM ADDRESS

**Night Mode**

<table>
<thead>
<tr>
<th>Service Class Assignment of Toll Restriction cont.)</th>
<th>\underline{6 2} \underline{NEXT NEXT C MEMORY END}</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*....dial the service class number (1 through 8)</td>
</tr>
<tr>
<td></td>
<td>*....until the desired jack number (01 through 32) appears</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Default all jack numbers</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 1</td>
<td>01</td>
</tr>
<tr>
<td>Class 2</td>
<td></td>
</tr>
<tr>
<td>Class 3</td>
<td></td>
</tr>
<tr>
<td>Class 4</td>
<td></td>
</tr>
<tr>
<td>Class 5</td>
<td></td>
</tr>
<tr>
<td>Class 6</td>
<td></td>
</tr>
<tr>
<td>Class 7</td>
<td></td>
</tr>
<tr>
<td>Class 8</td>
<td></td>
</tr>
</tbody>
</table>

**Extension Name**

<table>
<thead>
<tr>
<th>\underline{6 3} \underline{NEXT NEXT D SELECT MEMORY END}</th>
</tr>
</thead>
<tbody>
<tr>
<td>*....until the desired letter appears</td>
</tr>
<tr>
<td>*....dial (0 through 9, *, or #)</td>
</tr>
<tr>
<td>*....until the desired jack number (01 through 32) appears</td>
</tr>
</tbody>
</table>

- There is the phone number directory on page 7-1.

**Account Code Input Mode**

<table>
<thead>
<tr>
<th>\underline{6 4} \underline{NEXT NEXT SELECT MEMORY END}</th>
</tr>
</thead>
<tbody>
<tr>
<td>*-Option / Forced</td>
</tr>
<tr>
<td>*....until the desired jack number (01 through 32) appears</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Default all jack numbers</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option</td>
<td>01</td>
</tr>
<tr>
<td>Forced</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack number</td>
</tr>
<tr>
<td>17</td>
</tr>
</tbody>
</table>

| Option                  |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

7-22
### STEPS REQUIRED TO CHANGE PROGRAM

#### TO SET

<table>
<thead>
<tr>
<th>Program Address</th>
<th>STEPS REQUIRED TO CHANGE PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Transfer</td>
<td></td>
</tr>
<tr>
<td>All Forwarding</td>
<td></td>
</tr>
<tr>
<td>Executive Override</td>
<td></td>
</tr>
</tbody>
</table>

#### All Transfer

<table>
<thead>
<tr>
<th>Jack Number</th>
<th>Enable</th>
<th>Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 - 32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### All Forwarding

<table>
<thead>
<tr>
<th>Jack Number</th>
<th>Enable</th>
<th>Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 - 32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Executive Override

<table>
<thead>
<tr>
<th>Jack Number</th>
<th>Enable</th>
<th>Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 - 32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### STEPS REQUIRED TO CHANGE PROGRAM

#### Do not Disturb Override

<table>
<thead>
<tr>
<th>PROGRAM ADDRESS</th>
<th>NEXT</th>
<th>NEXT</th>
<th>SELECT</th>
<th>MEMORY</th>
<th>END</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Enable / Disable**
- **Until the desired jack number (01 through 32) appears**

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack number</td>
<td>01</td>
</tr>
<tr>
<td>Enable</td>
<td></td>
</tr>
<tr>
<td>Disable</td>
<td></td>
</tr>
</tbody>
</table>

| Jack number | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| Enable      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Disable     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

#### Ringing Assignment from Doorphone Day Mode

<table>
<thead>
<tr>
<th>PROGRAM ADDRESS</th>
<th>NEXT</th>
<th>NEXT</th>
<th>SELECT</th>
<th>MEMORY</th>
<th>END</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Enable / Disable**
- **Until the desired jack number (01 through 32) appears**
- **Until the desired doorphone number (1 or 2) appears**

<table>
<thead>
<tr>
<th>Default</th>
<th>To make program change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack number</td>
<td>01</td>
</tr>
<tr>
<td>Doorphone 1</td>
<td>Enable</td>
</tr>
<tr>
<td>Doorphone 2</td>
<td>Disable</td>
</tr>
</tbody>
</table>

| Jack number | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| Doorphone 1 | Enable |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Doorphone 2 | Disable |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
### TO SET PROGRAM ADDRESS

#### STEPS REQUIRED TO CHANGE PROGRAM

**Ringing Assignment from Doorphone (cont.)**

- **Night Mode**

**Default to make program change**

<table>
<thead>
<tr>
<th>Jack number</th>
<th>01</th>
<th>02</th>
<th>03</th>
<th>04</th>
<th>05</th>
<th>06</th>
<th>07</th>
<th>08</th>
<th>09</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doorphone 1</td>
<td>Enables</td>
<td>Disable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doorphone 2</td>
<td>Enables</td>
<td>Disable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Call on Hold for Standard Telephone**

- **NEXT SELECT MEMORY END**

<table>
<thead>
<tr>
<th>To make program change</th>
<th>Hold-1/Hold-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack number</td>
<td>17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32</td>
</tr>
<tr>
<td>Hold-1</td>
<td>X</td>
</tr>
<tr>
<td>Hold-2</td>
<td></td>
</tr>
</tbody>
</table>

**System Data Clear**

- **NEXT SELECT MEMORY END**

- All Parameters
- System Parameter
- Speed Call

- **Next**

- **SELECT**

- **MEMORY**

- **END**

- **All Para / System Para / CO Para / EXT Para / DSS Para / Speed Call**

- **CO Parameter**

- **NEXT SELECT MEMORY AB MEMORY END**

- **EXT Para appears**

- **Extension Parameter**

- **NEXT SELECT MEMORY AB MEMORY END**

- **EXT Para appears**

- **DSS Parameter**

- **NEXT SELECT MEMORY AB MEMORY END**

- **DSS Para appears**

---

**AtoZ KELLATRONICS, Inc.**

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**email: info@kellatronics.com**

**Fax: 818.775.8899**

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