

Panasonic

KX-T336 SYSTEM

System Reference Manual Vol. 2

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Section 7

Preparation for Programming and Maintenance

VT220 and Compatibles

Preparation for Programming and Maintenance

VT220 and Compatibles

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A. Introduction

1.00 On-Site Administration

Description

You can administer the system programming and maintenance of the system using a VT220 (100), Compatibles. For details about communication parameters, refer to Section 9-D-7.00 "Communication Interface."

System Security

For security reasons, access to the administration capabilities of the system is controlled by a password. To prevent an unauthorized person from learning the password, the password characters are not displayed when they are entered.

Password

To gain access to the system administration feature, a valid password (four-digit, alphanumeric characters*) must be entered. To be recognized by the system, a password must be entered exactly as stored in memory. Factory programmed eight passwords are provided from the first to fourth levels for on-site operation and the first to fourth levels for operation from a remote location.

The followings are the functions available to each password level.

The 1st Level : To access to all levels
The 2nd Level : To set system level parameters.
The 3rd Level : To set port level parameters.
The 4th Level : To read parameters only.

When you log in to the system using the first level password, you can execute all functions, but are increasingly restricted when entering levels 2, 3 and 4.

Passwords are originally factory programmed, but may be changed when logging in to the system by entering the first level password. Refer to Section 7-E "Changing Password."

* Alphanumeric characters
ASCII codes except special codes (DEL, ESC etc.) But entering "/" "~" are not available, because these characters cannot be displayed on the LCD of PITS.
Both uppercase and lowercase characters can be recognized by the system.

Successful Login

When you enter the correct password, the terminal displays the Main Menu screen from which you can select administration functions. By selecting an item from the Main Menu, you enter a system programming area and can access specific system parameters and features.

2.00 System Administration from a Remote Location

Description

From a remote location, you can execute system programming, diagnosis and traffic measurements using a VT220 (100), Compatibles.

For details about communication parameters, refer to Section 9-D-7.00 "Communication Interface."

Conditions

- RMT card (Modem) must be installed in the system and register the telephone number of modem in the System-Operation "Remote Directory Number" (FDN: three or four digits) for accessing the remote administration feature. For the assignment of Remote Directory Number, refer to Section 9-D-1.02 "Operation (2/3)."
- For remote access, a data terminal and modem are required at a remote location.
- Factory programmed four types of password from the first to fourth levels for remote operation are provided. Passwords are originally factory programmed, but may be changed at any time. (Refer to Section 7-E "Changing Password.")
- You can execute remote system administration during on-line communication mode only. But when you load the system programming data from a remote location, the system shifts to off-line communication mode automatically. Refer to Section 17-B-2.02 "Loading Procedure" for further information.
- Starting up system administration from a remote location can be done only in Dumb mode, so to enter VT mode, press **CTR** key + **V** key simultaneously at the dumb mode initial screen.

Operation

Starting up system administration from a remote location can be done in the following ways:

- Dial "Remote Directory Number" using Direct Inward System Access (DISA) feature. For further information about "Remote Directory Number," refer to Section 9-D-1.02 "Operation (2/3)."
For further information about DISA feature, refer to Section 3-D-2.02 "Direct Inward System Access (DISA)."
- Program DID feature so that the incoming telephone number is converted to the "Remote Directory Number."
For further information about DID feature, refer to Section 3-D-2.03 "Direct Inward Dialing (DID)."
- Assign that a call from a remote-location can access the Remote Administration feature automatically using DIL (1:1) feature. For further information about DIL (1:1) feature, refer to Section 3-D-2.01 "Direct In Line (DIL)."
- Remote access by operator transfer
The call from a remote location can be made on any trunk into the system, and be answered by the operator.
The call is then placed on hold and the Remote Directory Number of the system dialed is received. The operator transfers the call after receiving the modem answer tone. The caller at a remote location will then hear the modem answer tone and can proceed with sign-on. Refer to Section 4-F-1.05 "Unscreened Call Transfer to Remote," for further information.

When the system administrator at a remote location accesses the system remote administration feature, the following message appears on the display of operator's telephone if display is provided:

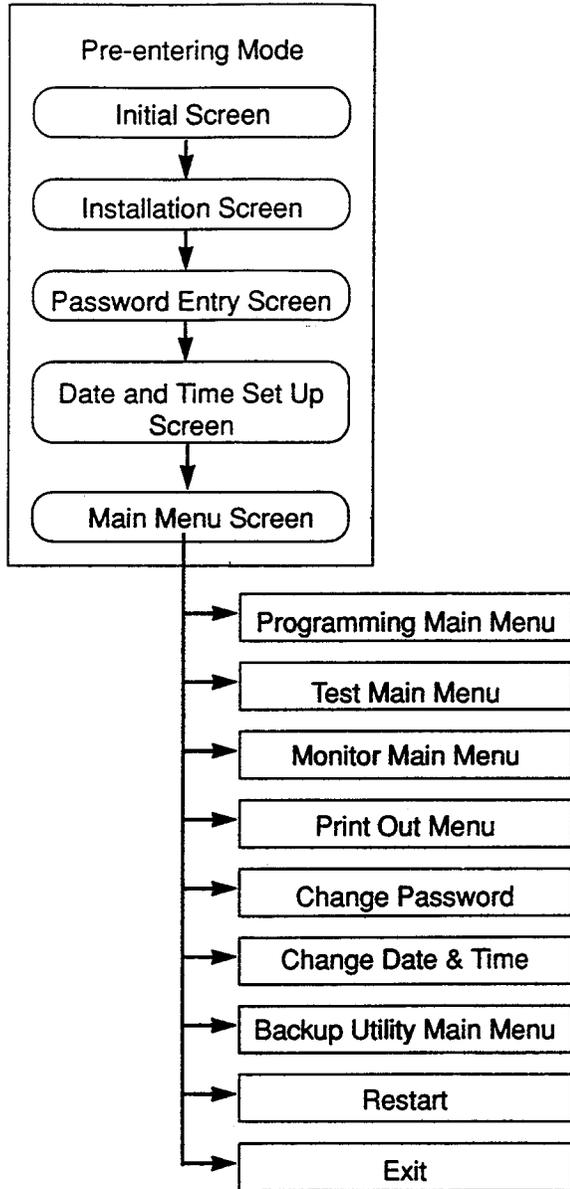
1234: RMT Access

After you log in to the system from a remote location, you can operate the system in the same way as if you were on-site.

Only one system administration terminal can be connected to the system at a time.

3.00 Mode Structure

The administration using VT compatible terminal consists of the following modes.



Pre-entering Mode

Consists of five screens starting from Start Screen through Main Menu Screen. For further details, refer to Section 7-B "Pre-entering Mode."

Programming Main Menu

Consists of 10 submenu screens and allows you to administer system-wide programming parameters. For further details, refer to Section 7-C-4.00 "Programming Main Menu."

Test Main Menu Screen

Enables you to test the cards, ports, PIT's and Attendant Consoles in on-line communication mode. For further details, refer to Section 7-C-5.00 "Test Main Menu."

Monitor Main Menu

Consists of three menus and allows you to see error log, device status and traffic measurements. For further details, refer to Section 7-C-6.00 "Monitor Main Menu."

Print Out Menu

Allows you to print out the system programming parameters and traffic information. For further details, refer to Section 7-C-7.00 "Print Out."

Change Password

Enables you to change the password for "On Site" and "Remote." For further details, refer to Section 7-C-8.00 "Change Password."

Change Date & Time

Enables you to change the date and time. For further details, refer to Section 7-C-9.00 "Change Date and Time."

Backup Utility Main Menu

Consists of two submenus, and enables you to save or load the system programming data and attendant console database. For further details, refer to Section 7-C-10.00 "Backup Utility."

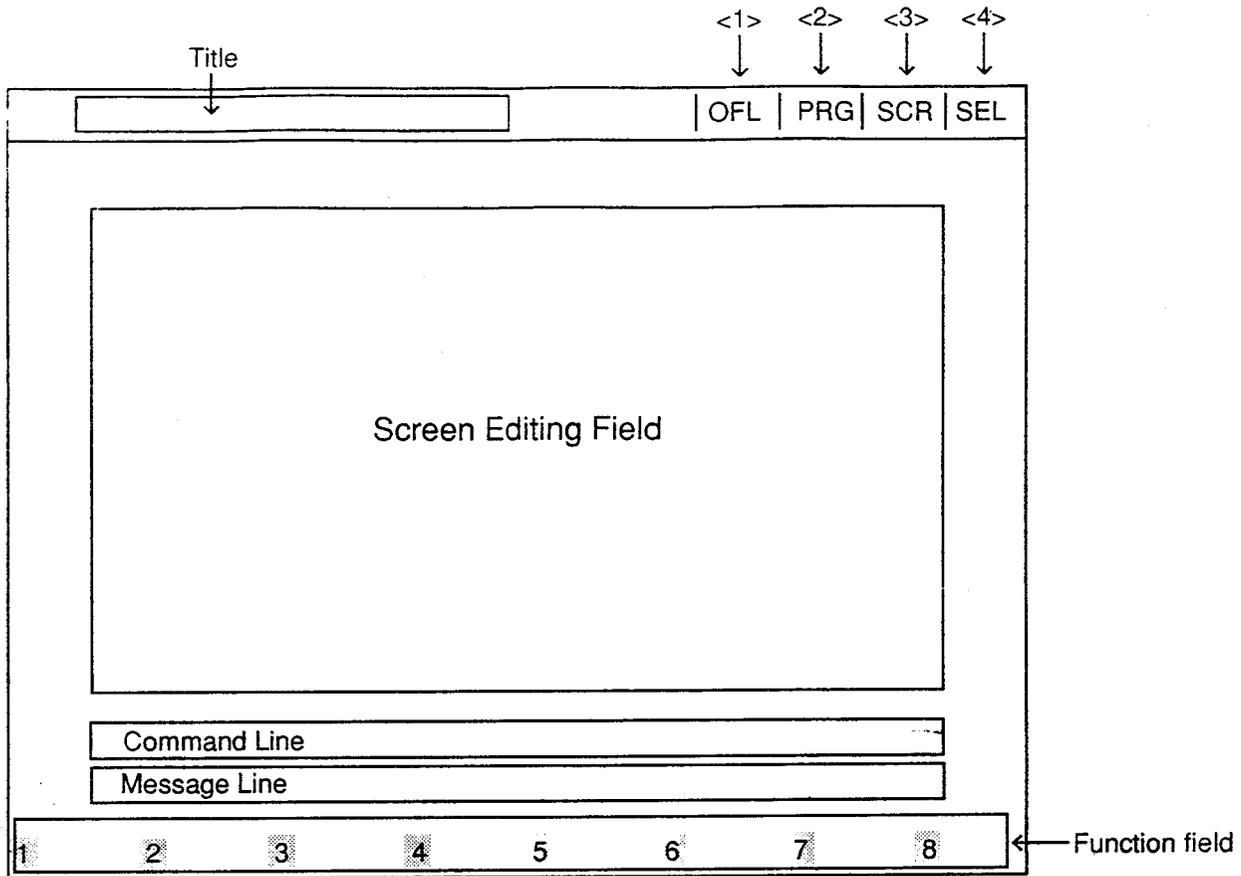
Restart

Functions same as if you press the RESET button. For further details, refer to Section 7-G-2.00 "Restart."

Exit

Enables you to return to the initial screen. For further details, refer to Section 7-G-1.00 "Exit."

4.00 Layout of Screen



<1> Displays On-line or Off-line communication mode.

Display	Mode
ONL	On-line
OFL	Off-line

<3> Displays whether the cursor is in the Screen Editing Field or in the Command Line.

Display	Location
SCR LIN	Screen Editing Field Command Line

<2> Displays the stage selected in the main menu screen.

Display	Stage
PRG	Programming
TST	Test
MON	Monitor
PRT	Print Out
PSW	Change Password
D&T	Change Date & Time
BCK	Backup Utility

<4> Displays the entry method, select or direct.

Display	Entry Method
SEL DIR	Select value by space key Enter value directly

Title

Displays the title of the programming screen.

Screen Editing Field

Used for displaying or entering data.

Command Line

When pressing the menu number or function key, displays the messages to execute the function.

Message Line

Displays messages such as error messages in programming.

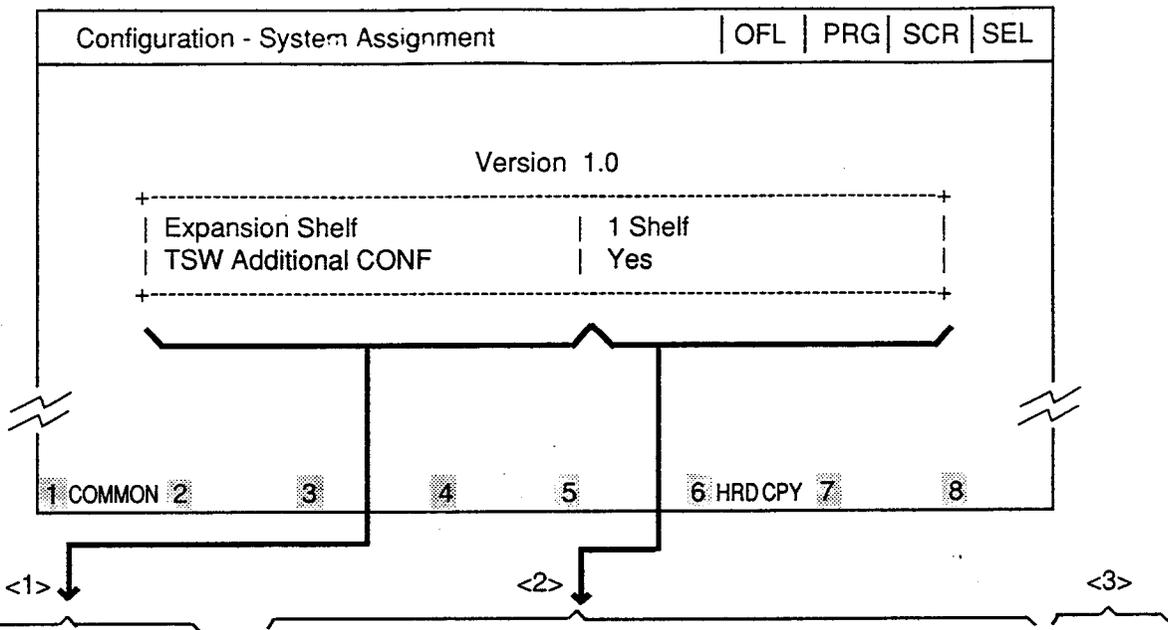
Function Field

Displays each function key.

5.00 Correspondence between Setting Screen and Explanation Table

When there are some assigning items in the screen, the explanation table describes the items in detail.

<Example> Configuration-System Assignment screen



Assigning Items	Default	Selection of Value	Reference
Expansion Shelf	Automatic set	No : expansion shelf not installed 1 Shelf : expansion shelf 1 available 2 Shelves : both expansion shelves 1 and 2 available	1-E-2.00
TSW Additional CONF	Automatic set	Yes : conference expansion card installed No : conference expansion card not installed	4-G-5.01 4-G-5.02 5-E-1.00 6-H-1.00

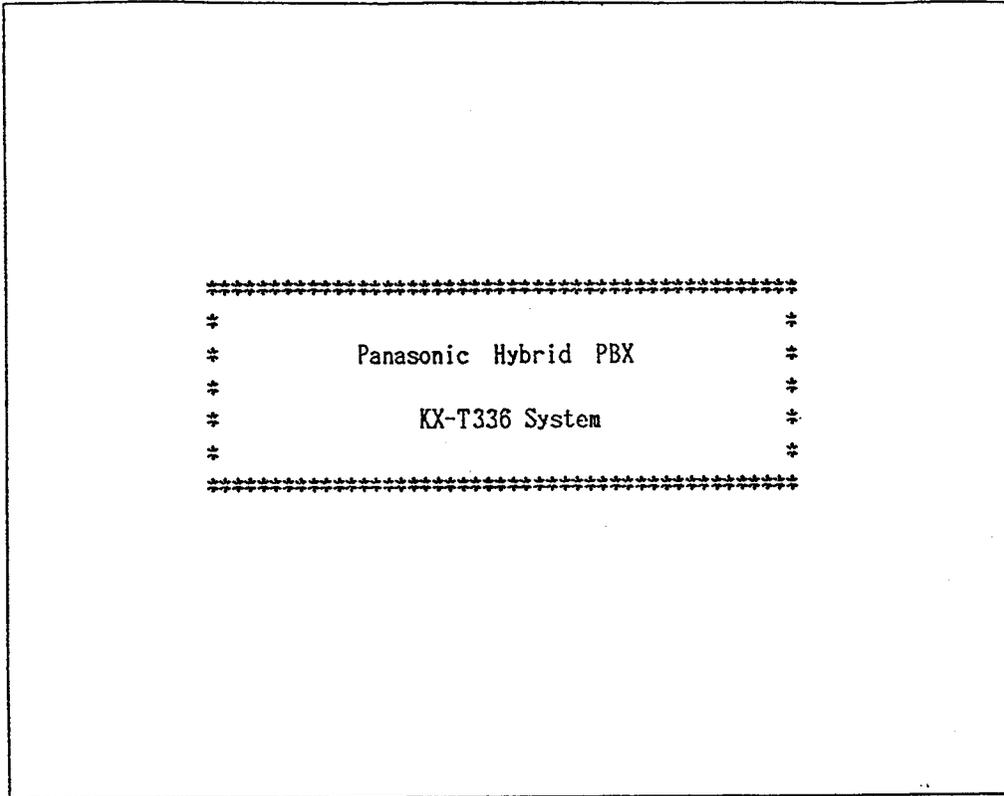
The relationship between the screen and the explanation table is shown by the arrows above.

- <1> Shows the assigning items which depend on the screen items.
- <2> Shows the optional and default values.
- <3> Shows the reference for the assigning items.

For example, interprets "4-G-11.00" as follows. "4" indicates section number, "G" indicates subsection number and "11.00" indicates title number.

B. Pre-entering Mode

1.00 Initial Screen



Summary

This screen is displayed first when administration is activated.

To conclude this screen and advance to the next screen, press the RETURN key.

2.00 Installation Screen

```

*** Panasonic Hybrid PBX Installation ***
Please set the following initial data
-----
<< Customer & Installation Data >>
Customer Name      :
Location           :

Phone No.          :
Modem No.          :
Customer Contact   :
Date of Installation :
Unit ID            :
Installers Name    :
Programmers Name   :
<< System Password >>
Protection Level 1 :
Protection Level 2 :
Protection Level 3 :
Protection Level 4 :
-----
Comments: Panasonic Hybrid PBX Install

```

HRD CPY

Summary

A screen for setting various data relating to the installation of the system, and for setting system passwords.

This screen does not appear when administration data has already been assigned in on-line mode or if you start up the system when CPU Operation Switch (Mode) is set to 0 to 4 and 8 to 9. Refer to Section 2-F-2.00 "CPU Rotary-Switch Features"

for details.

To advance to the next screen without any entry, press the PF2 key.

For storing the entered parameters, press the PF2 or the PF4 key. For storing operation, refer to Section 7-H "Key Functions."

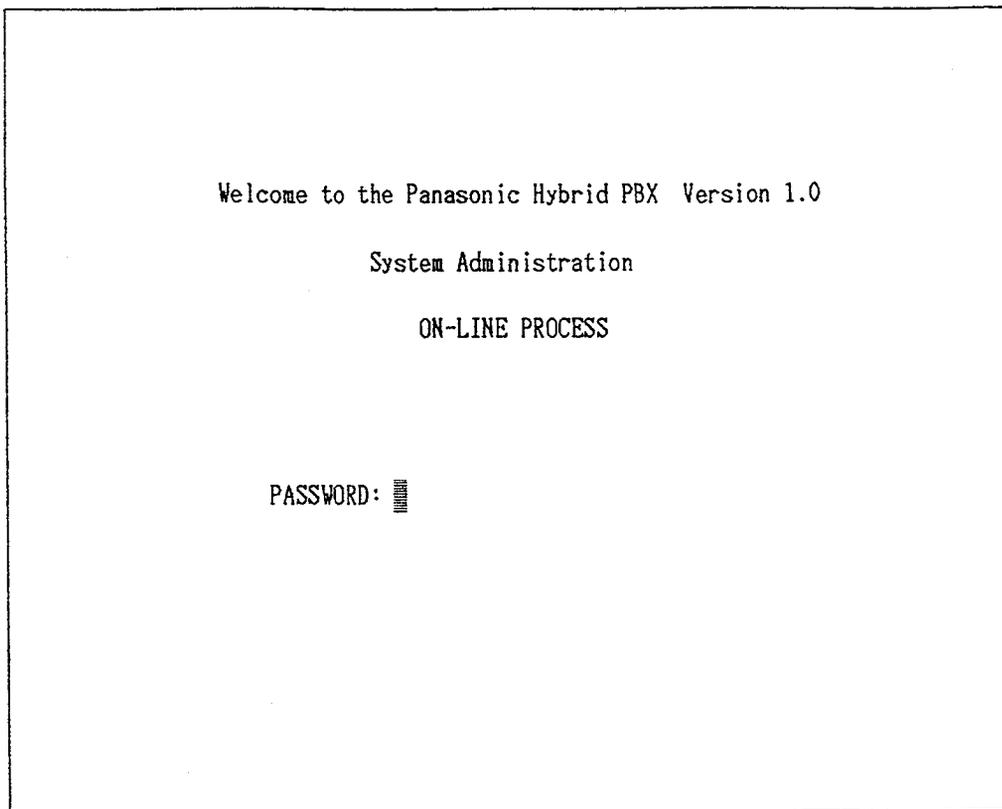
Assigning Items	Default	Selection of Value
<Customer & Installation Data>		
Customer Name	blank	Up to 32 letters, numbers or marks
Location		Up to 64 letters, numbers or marks
Phone No.		Up to 16 letters, numbers or marks
Modem No.		Up to 16 letters, numbers or marks
Customer Contact		Up to 32 letters, numbers or marks
Date of Installation		Up to 16 letters, numbers or marks
Unit ID		Up to 8 letters, numbers or marks
Installers Name		Up to 32 letters, numbers or marks
Programmers Name		Up to 32 letters, numbers or marks

Continued

Continued

Assigning Items	Default	Selection of Value
<System Password> Protection Level 1	LVL 1	Four digits consisting of letters, numbers or marks
Protection Level 2	LVL 2	
Protection Level 3	LVL 3	
Protection Level 4	LVL 4	
Comments	blank	Up to 70 letters, numbers or marks

3.00 Password Entry Screen



Summary

The screen is for entering passwords which is necessary to enter into system administration mode. Enter the passwords which are assigned in System Password "Protection level 1 to 4" of the installation.

To prevent an unauthorized person from learning the password, the password characters are not displayed when they are entered.

Displays ON-LINE PROCESS screen in on-line mode, and OFF-LINE PROCESS screen in off-line mode.

The above screen appears when the system is in on-line mode.

If no characters are entered within 30 seconds after this screen is displayed, the display returns to the initial screen.

When you enter the correct password and press the RETURN key, the terminal displays the next screen.

4.00 Date and Time Set Up Screen

Date & Time Set Up	OFL	DIR
Set Date & Time		
Date and Time : '99 JAN. 1 FRI 12:00 AM		

Summary

A screen for setting the date and time.

This screen may not appear depending on the setting of the CPU rotary switch. For setting of the CPU rotary switch, refer to Section 2-F-2.00 "CPU Rotary-Switch Features."

Enter "Year," "Day," "Hour" and "Minute" directly and select "Month," "Day of the Week,"

AM/PM" by pressing the space key.

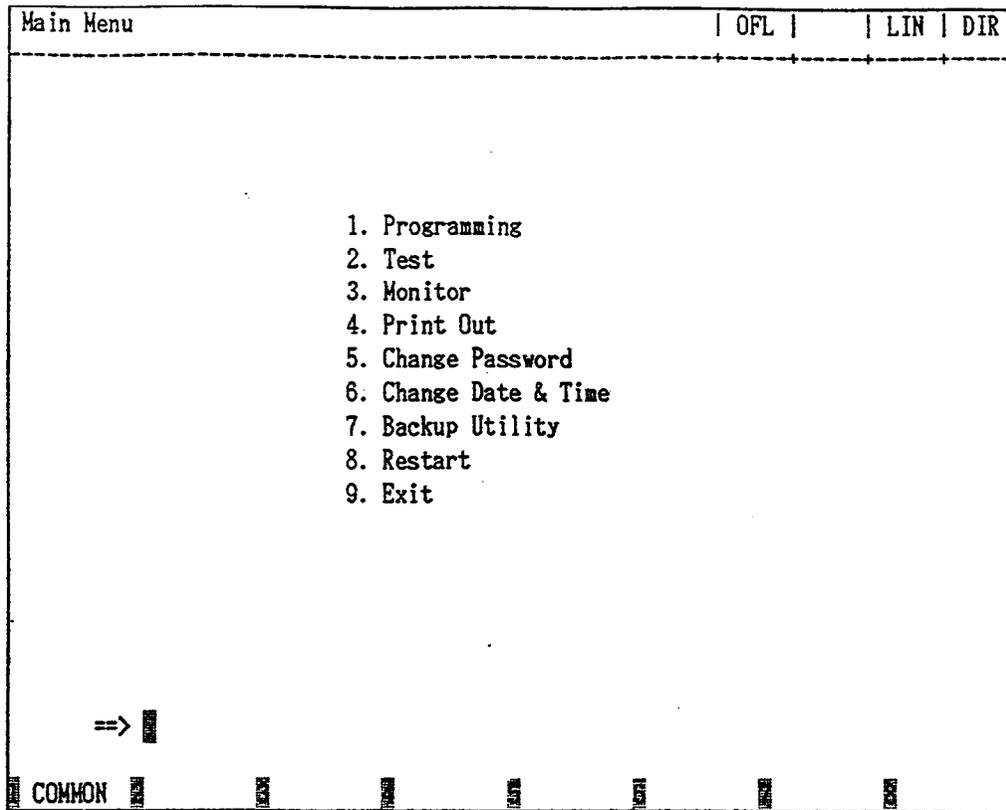
To advance to the next screen without entering the data, press the PF2 key.

To store the entered data, press the PF2 or PF4 key.

For the storing operation, refer to Section 7-H "Key Functions."

Assigning Items	Default	Selection of Value
Year	99	Last two digits of the year
Month	JAN	JAN/FEB/MAR/APR/MAY/JUN/JUL/AUG/SEP/OCT/NOV/DEC
Day	1	1 to 31 : day
Day of the week	FRI	SUN/MON/TUE/WED/THU/FRI/SAT
Hour	12	1 to 12 : hour
Minute	00	00 to 59 : minute
Morning/Afternoon	AM	AM : morning PM : afternoon/evening

5.00 Main Menu Screen



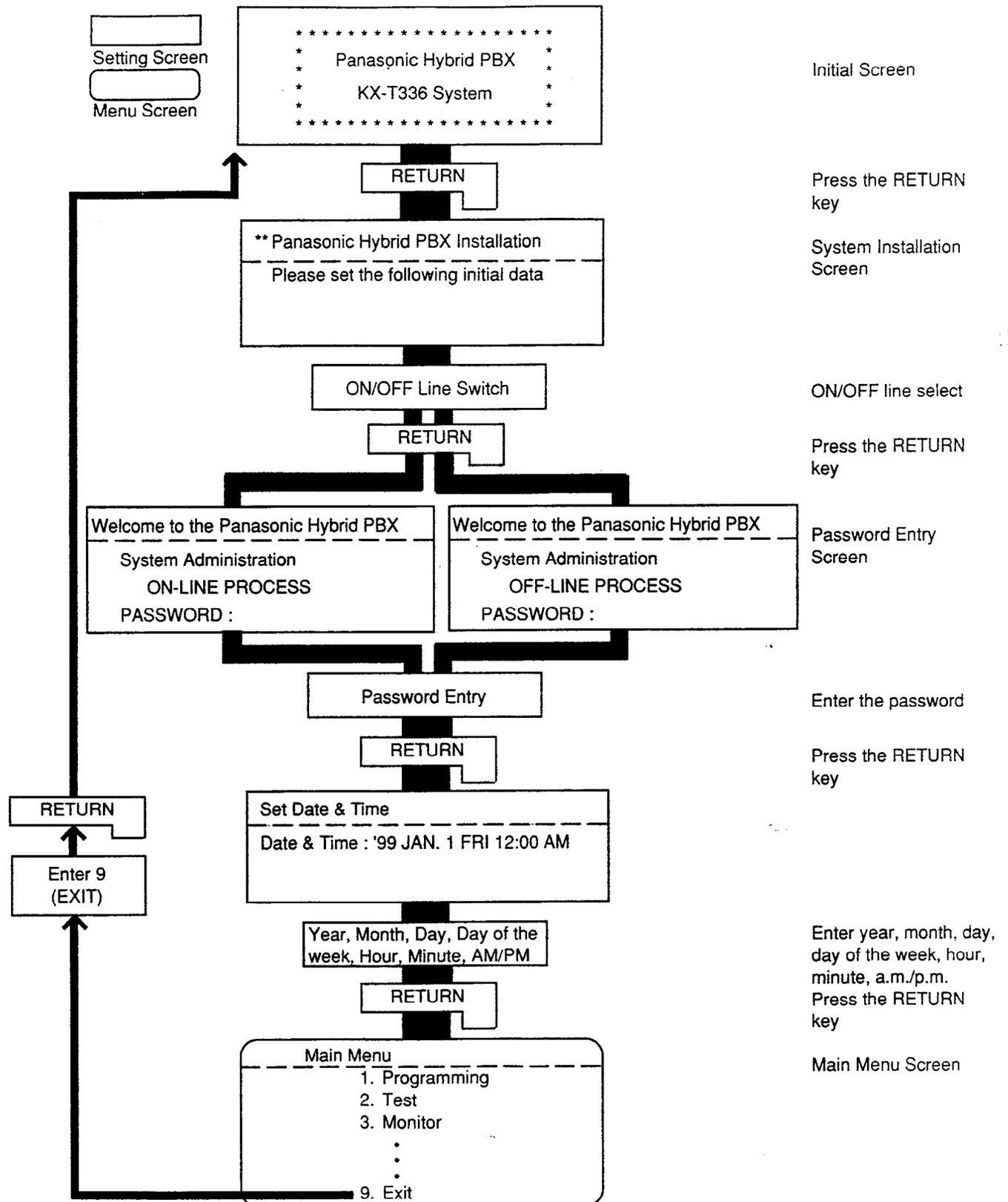
Summary

By selecting an item from the Main Menu, you enter a system programming area and can access specific system parameters and features.

To select an item from the Main Menu, just type the number of the item you want followed by the return key.

Menu	Number	Reference
Programming	1	7-C-4.00
Test	2	7-C-5.00
Monitor	3	7-C-6.00
Print Out	4	7-C-7.00
Change Password	5	7-C-8.00
Change Date & Time	6	7-C-9.00
Backup Utility	7	7-C-10.00
Restart	8	7-C-11.00
Exit	9	7-C-12.00

6.00 Operating Flow Chart



C. Menu Screen

1.00 Introduction

Enables you to assign or change system programming data by selecting the required screen. This section explains the procedures for starting from the menu screen through the programming main menu screen, to the sub menu screen.

2.00 Operation of Switching Screens

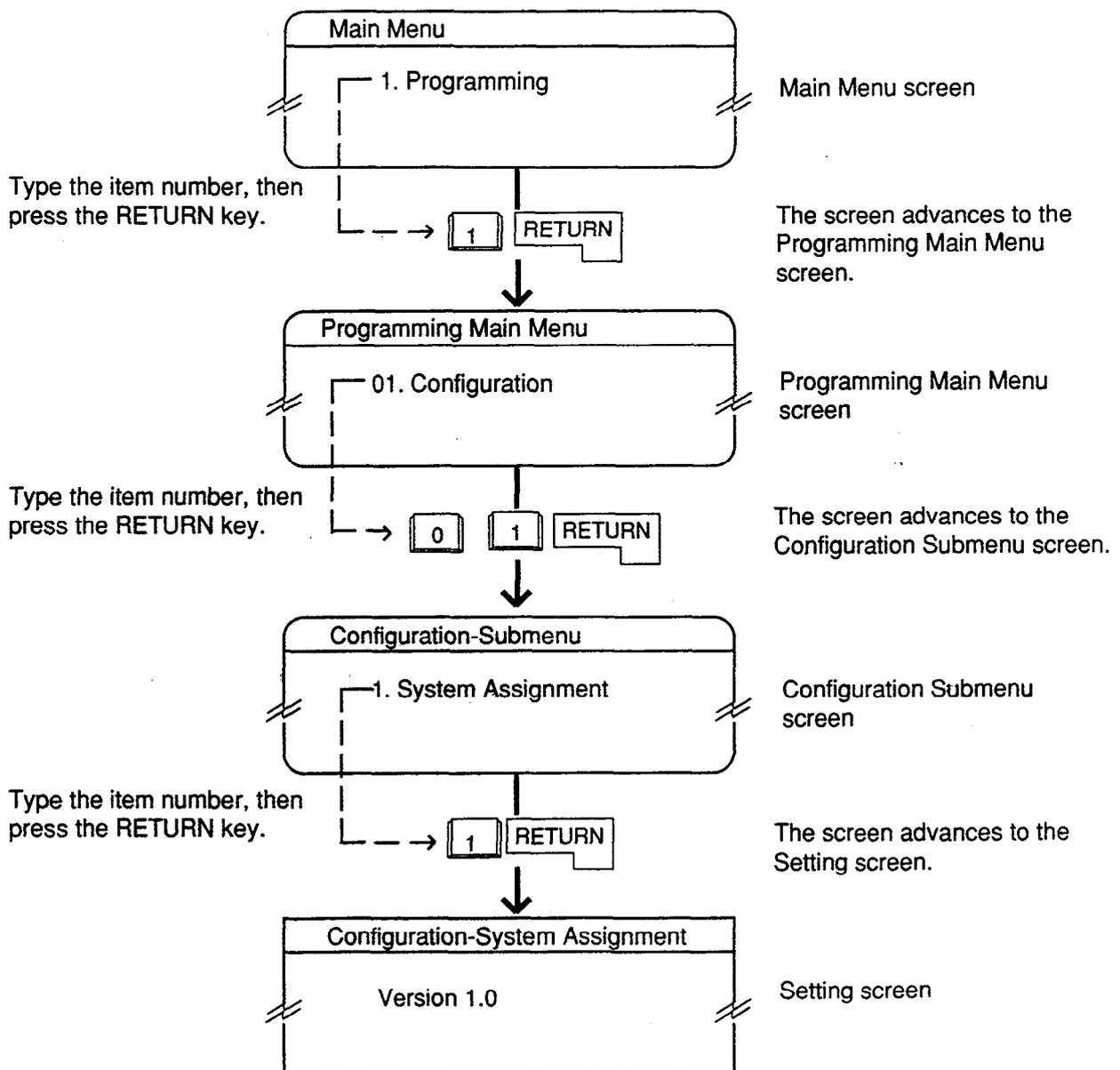
(A) Operation

Type the item number on the screen. Then press the RETURN key to advance to the next screen.

(B) Example

The illustration below shows the procedures for selecting a programming screen, starting from the Main Menu screen.

<Example>

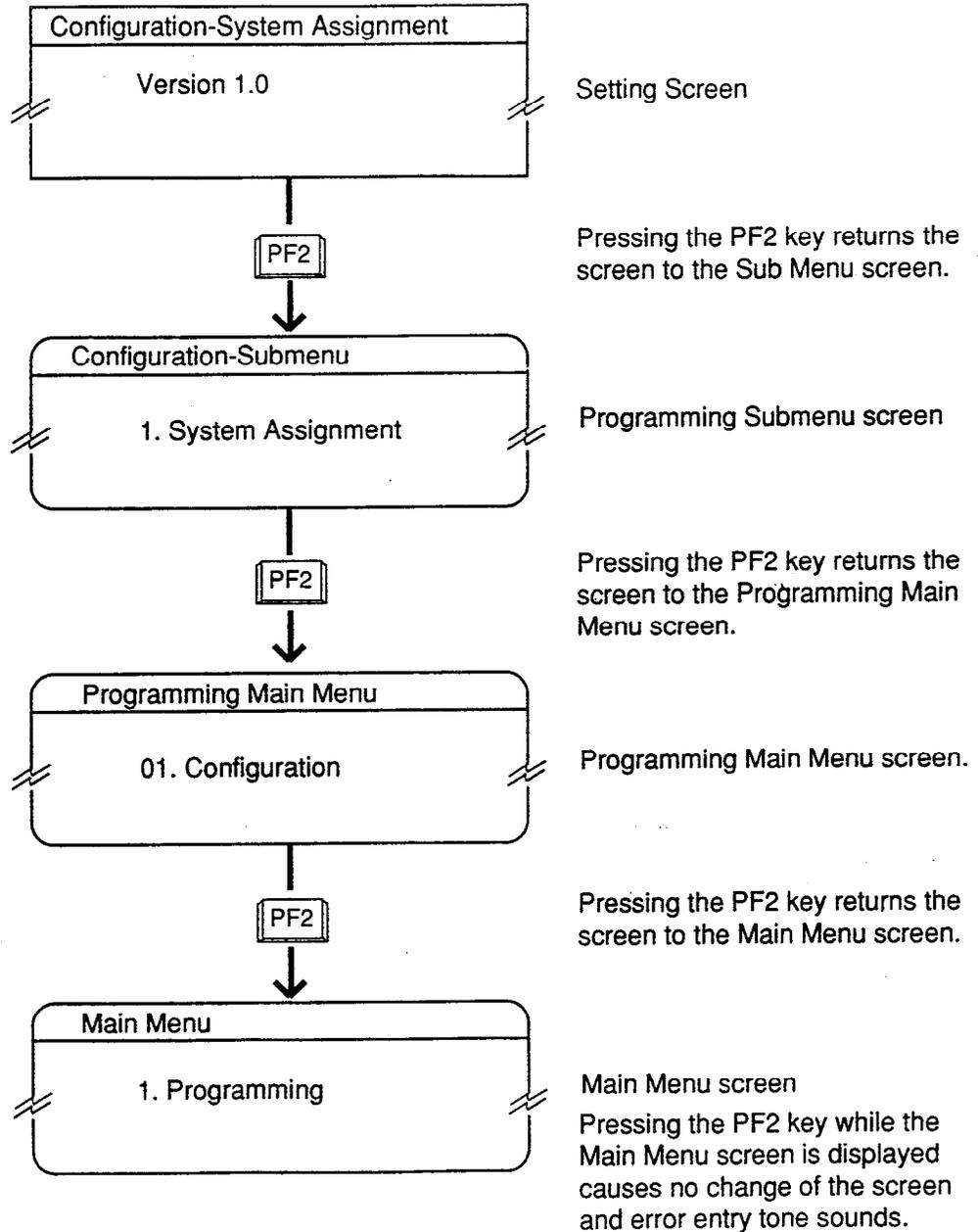


3.00 Returning to Previous Screen

To return to the previous screen, press the PF2 key.

The illustration below shows the operation, starting from the Setting Screen and returning to the Main Menu screen.

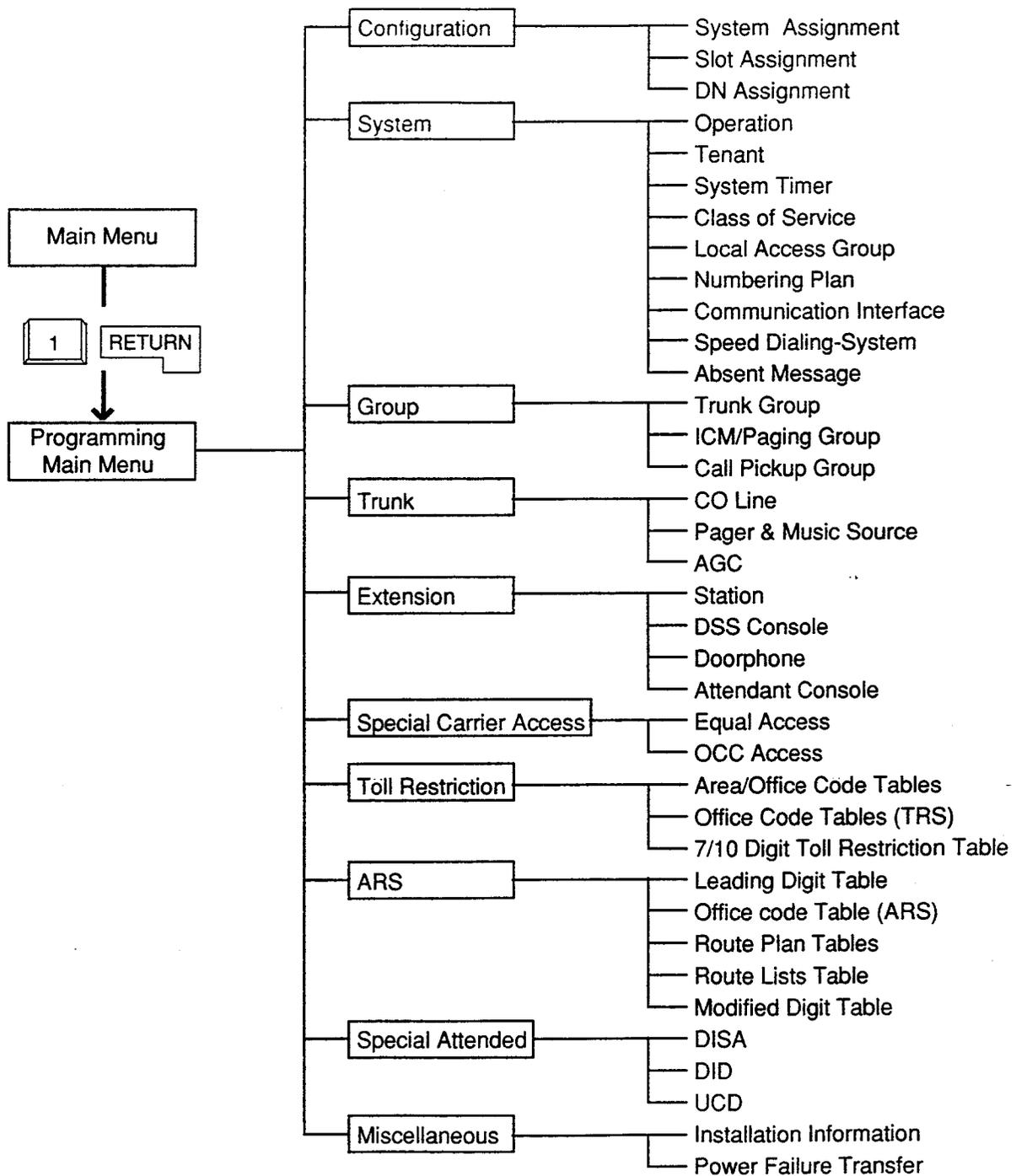
<Example>



4.00 Programming Main Menu

Type "1" and press the RETURN key in the Main Menu screen then the Programming Main Menu is displayed on the screen.

The illustration below shows the submenu screens and the setting screens of Programming Main Menu.



Configuration

Assigns the data concerning cards, slots and DNs (directory numbers).

For further details, refer to Section 9-C "Configuration Screen."

System

Assigns the elemental data common to the whole system.

For further details, refer to Section 9-O "System Screen."

Group

Assigns the data for trunk groups, ICM paging groups and pickup groups.

For further details, refer to Section 9-E "Group Screen."

Trunk

Assigns various parameters for CO lines, external pagers and music sources or tenant number for AGC (Automatic Gain Control).

Refer to Section 9-F "Trunk Screen."

Extension

Assigns the parameters for each extension, DSS consoles, Doorphones and Attendant consoles.

Refer to Section 9-G "Extension Screen."

Special Carrier Access

Assigns available trunk groups and parameters necessary for making Equal Access or OCC (Other Common Carrier) Access calls.

Refer to Section 9-H "Special Carrier Access Screen."

Toll Restriction

Assigns parameters for Toll Restriction.

Refer to Section 9-I "Toll Restriction Screen."

Automatic Route Selection

Assigns the parameters for Automatic Route Selection.

Refer to Section 9-J "Automatic Route Selection Screen."

Special Attended

Assigns parameters for effectuating DISA (Direct Inward System Access) and DID (Direct Inward Dialing) features, and parameters on UCD (Uniform Call Distribution) feature.

Refer to Section 9-K "Special Attended Screen."

Miscellaneous

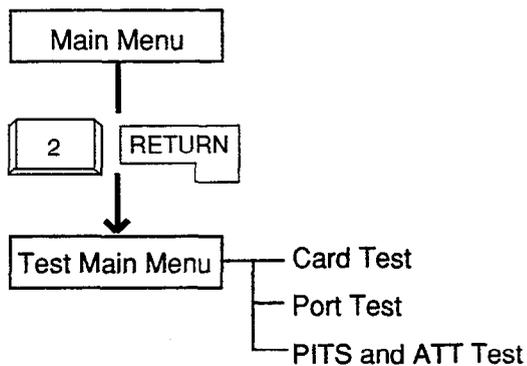
Assigns the installation information and cards for effectuating Power Failure Transfer.

Refer to Section 9-L "Miscellaneous Screen."

5.00 Test Main Menu

Type "2" and press the RETURN key in the Main Menu screen, then the Test Main Menu is displayed on the screen.

This menu consists of three submenus as illustrated below.



Card Test

Verifies the card conditions and enables you to detect whether troubles are caused by a card or telephone instruments.

Port Test

Verifies the port conditions and enables you to detect troubles when telephone instruments don't function well while card condition is good.

PITS and ATT Test

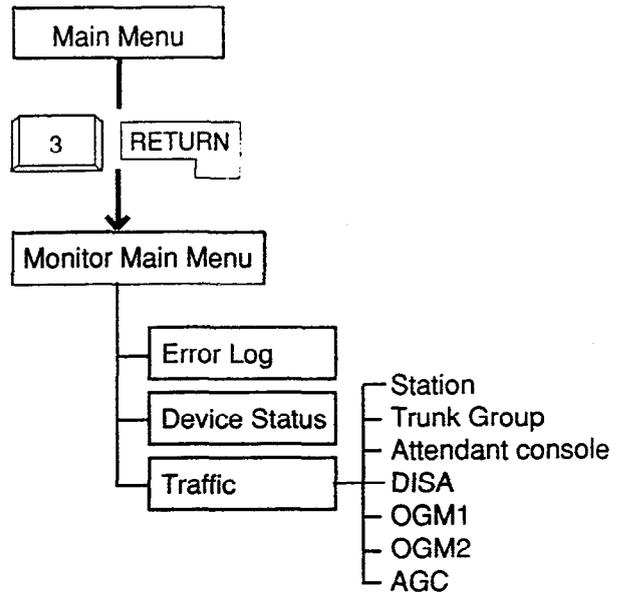
Verifies the conditions of PITS and the Attendant Console (ATT) and enables you to detect troubles when telephone instruments don't function well while card condition is good.

For further details of testing, refer to Section 14-F "Functional Test by Entering Commands."

6.00 Monitor Main Menu

Type "3" and press the RETURN key in the Main Menu screen, then the Monitor Main Menu is displayed on the screen.

The illustration below shows the submenu screen and the setting screens.



Error Log

Displays up to 15 major and minor alarms and up to 15 light alarms.

For further details, refer to Section 14-G-2.00 "Error Log screen."

Device Status

Displays the status of the system, cards, ports and the conference trunk.

For further details, refer to Section 14-G-3.00 "Device Status screen."

Traffic

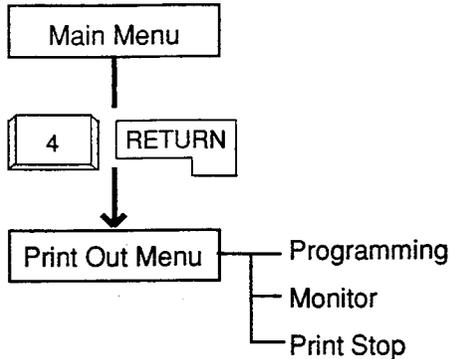
Displays traffic measurements of extensions, trunk groups, attendant consoles and resources (DISA, OGM1, OGM2, AGC).

For further details, refer to Section 14-G-4.00 "Traffic Submenu screen."

7.00 Print Out

Type "4" and press the RETURN key in the Main Menu screen, then the Print Out Menu screen is displayed on the screen.

This screen consists of the following three setting screens.



Programming

Programming Main Menu for printing out appears on the screen.

Monitor

Monitor Main Menu for printing out appears on the screen.

Print Stop

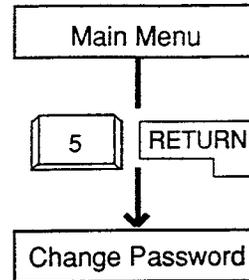
Enables you to stop printing.

For further details of printing out operations, refer to Section 7-D "Printing Out."

8.00 Change Password

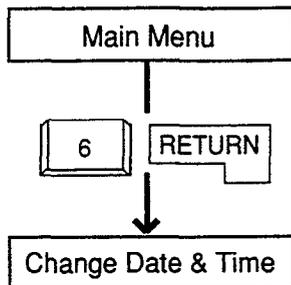
Type "5" and press the RETURN key in the Main Menu screen, then the Change Password screen is displayed on the screen.

Allows you to change passwords for "On-Site operation" and "Remote operation" respectively. For further details, refer to Section 7-E "Changing Password."



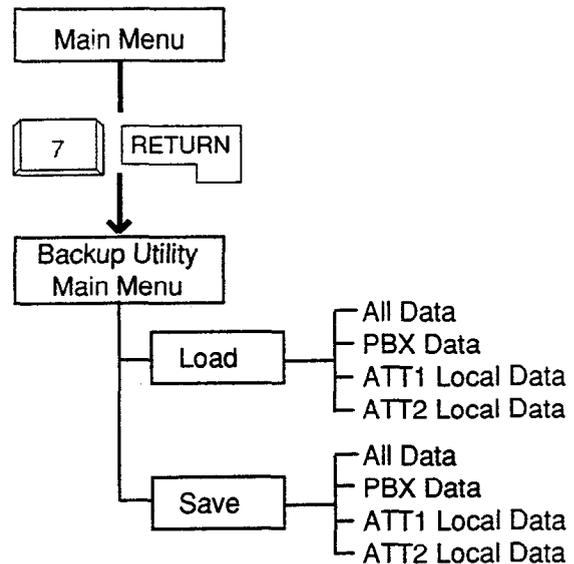
9.00 Change Date and Time

Type "6" and press the RETURN key in the Main Menu screen, then the Change Date & Time screen is displayed which is same as the Date & Time Set Up screen in pre-entering mode. However, you can change the date and time anytime in this screen. For further details, refer to Section 7-F "Changing Date and Time."



10.00 Backup Utility

Type "7" and press the RETURN key in the Main Menu screen, then the Backup Utility Main Menu is displayed on the screen. The illustration below shows the submenu screens and the setting screens.



Load

Loading the system programming data and attendant console database from backup device to the system can be done during off-line mode only.

Save

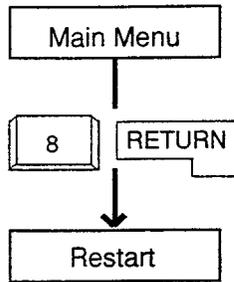
Saving the system programming data and attendant console database from the system to the backup device can be done during on-line mode as well as off-line mode.

For further details of Backup Utility, refer to Section 16 "Backup Utility-On Site."

11.00 Restart

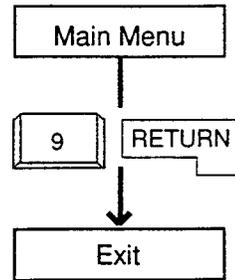
Type "8" and press the RETURN key in the Main Menu screen initializes the system and the initial screen is displayed, the result is the same as if you press the RESET button.

For further details, refer to Section 7-G-2.00 "Restart."



12.00 Exit

Type "9" and press the RETURN key in the Main Menu screen, then the initial screen is displayed. Refer to Section 7-G-1.00 "Exit."



D. Printing Out

Description

Enables you to print parameters of programming and monitor.

"System-Operation", SMDR should be assigned to "Yes."

Refer to Section 9-D-1.02 "Operation (2/3)" for the assignment of SMDR.

Connect your printer to SIO#2 port on the main unit of the system.

Refer to Section 9-D-7.00 "Communication Interface" for information about communication parameters.

Operation

1. When the following Print Out Menu screen appears, type "1" for Programming submenu screens.
Type "2" for Monitor submenu screens, and "3" for stop printing. When you want to stop printing, return to this screen and type "3."

Print Main Menu	OFL	PRT	LIN	DIR
1. Programming				
2. Monitor				
3. Print Stop				
==>				
COMMON				

For example, when you select 17, the following Print Out Menu screen appears.

Print Out Menu		OFL	PRT	LIN	DIR
01. Configuration					
02. System					
03. Group					
04. Trunk					
05. Extension					
06. Special Carrier Access					
07. Toll Restriction					
08. Automatic Route Selection					
09. Special Attended					
10. Miscellaneous					
==>					
COMMON					ALL PRT

2-1 When you want to print all programming, press the F8 (ALL PRT) key.

2-2 When you want to print each of the screen, press the key of the desired screen and the RETURN key. The submenu screen appears.

Note : In the following programming submenu screens, specifying the screen number is available.

- Class of Service
==> Class of Service No. (01-32) =
- Trunk Group
==> Trunk Group No. (01-16) =
- CO Line
==> Trunk Equipment No. (Physical No.) =
- Station
==> Station Equipment No. (Physical No./DNxxxx) =
- DSS Console
==> Station Equipment No. (Physical No.) =
- Equal Access
==> Equal Access No. (1-4) =
- OCC Access
==> OCC Access No. (1-4) =
- Area/Office Code Table (TRS)
==> Area/Office Code Table No. (1-8) =
- Office Code Table (TRS)
==> Office Code Table No. (01-64) =
- Office Code Table (ARS)
==> Office Code Table No. (01-32) =
- Route Plan Table
==> Route Plan Table No. (01-32) =

F. Changing Date and Time

Description

Allows you to change the date and time.

Change Date & Time	OFL	D&T	SCR	DIR
Set Date & Time				
Date and Time : '99 JAN. 1 FRI 12:00 AM				
COMMON				HRD CPY

Operation

Enter "Year", "Day", "Hour" and "Minute" directly and select "Month", "Day of the Week", "AM/PM" by pressing the space key.

For the input value, refer to the table below.

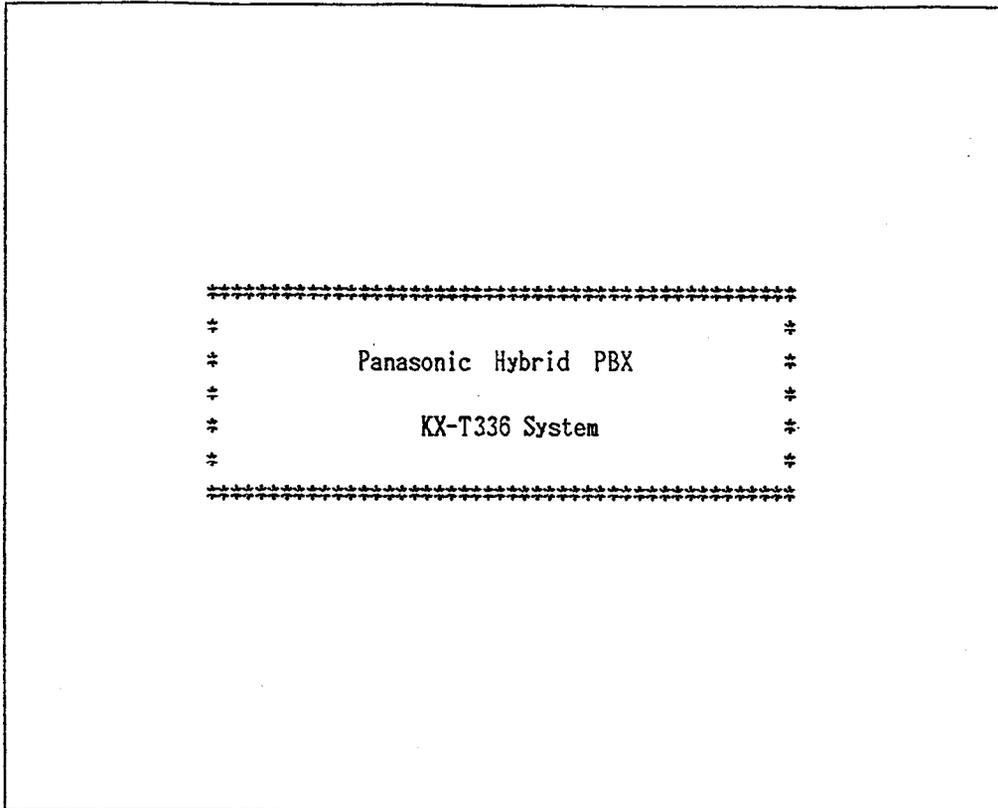
Assigning items	Default	Selection of Value
Year	99	last two digits of the year
Month	JAN	JAN/FEB/MAR/APR/MAY/JUN/JUL/AUG/SEP/OCT/NOV/DEC
Day	1	1 to 31 : day
Day of the week	FRI	SUN/MON/TUE/WED/THU/FRI/SAT
Hour	12	1 to 12 : hour
Minute	00	00 to 59 : minute
Morning/Afternoon	AM	AM : morning PM : afternoon/evening

G. Returning to Initial Screen

1.00 Exit

Description

Allows you to return to the initial screen and displays the screen below.



2.00 Restart

Description

Allows you to initialize the system.

Operation

When you execute Restart, the following message appears at the bottom of the screen.

Are you sure? (Y: yes/N: no)

Type "Y," and press the RETURN key to restart.
If you do not want to restart the system, type "N,"
and press the RETURN key.

H. Key Functions

1.00 Moving Cursor by



The cursor () is displayed in reverse video on the screen and indicates the position for entering the setting values.

You can move the cursor only in the entry field.
You can move the cursor as follows.

-  : Moves the cursor to the previous line.
-  : Moves the cursor to the next line.
-  : Moves the cursor to left.
-  : Moves the cursor to right.
-  : Moves the cursor to the beginning of the next field or to the beginning of the field.
-  : Moves the cursor to left while deleting the displayed character.

2.00 Command Execution by RETURN or ENTER

To store the entered data in the line mode or in the function mode, press the RETURN key or the ENTER key.

3.00 Retraining to Previous Menu Screen by PF2

To return to the previous menu screen, press the PF2 key.

When no data has been entered:

- Returns to the previous menu screen

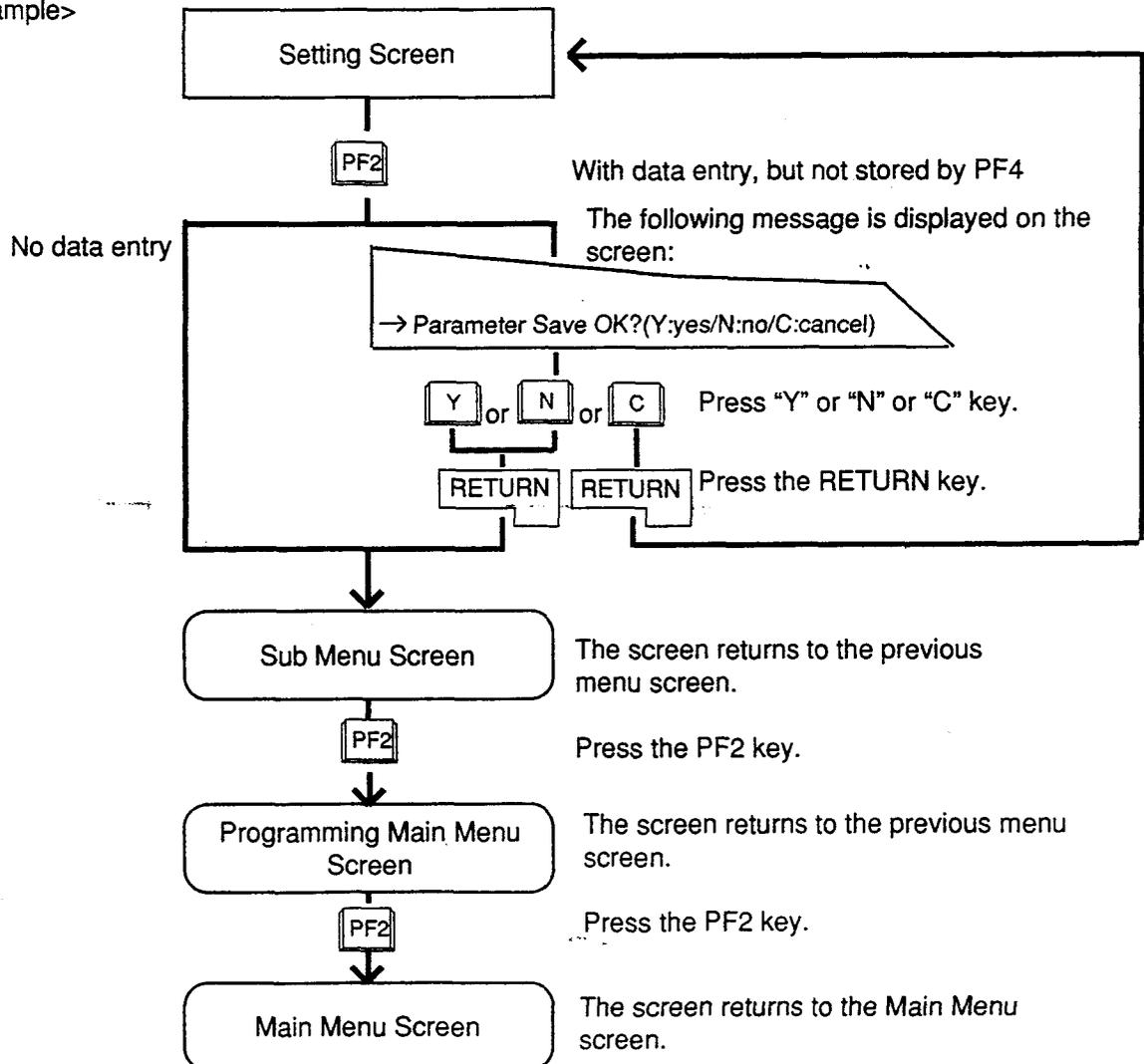
When data has been entered, but not stored by pressing the PF4:

- The following message appears at the bottom of the screen.

Parameter Save OK? (Y:yes/ N:no/ C:cancel)

- 1) To store entered data, enter "Y" and press the RETURN key.
Not to save, enter N, then press the RETURN key.
The screen returns to the previous screen.
- 2) To cancel the entered data, enter "C," then press the RETURN key.
The screen does not change.

<Example>



4.00 Entry of Value by SPACE or Directly

Entering the value directly or selecting it by pressing the SPACE key is available.

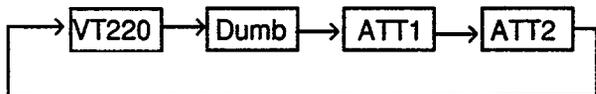
When "SEL" (Select Input) is displayed at the right end on the top line, pressing the SPACE key enables you to select the desired value from factory programmed parameters.

When the screen displays "DIR" (Direct Input), enter the appropriate parameters directly.

<Example>

1. (SEL) Select Input by SPACE key

In System-Operation (2/3) screen, the first item is System Administration Device. To select the desired device from the four options: VT220/ Dumb/ATT1/ATT2, press the SPACE key. One of the four options is displayed in the following order.



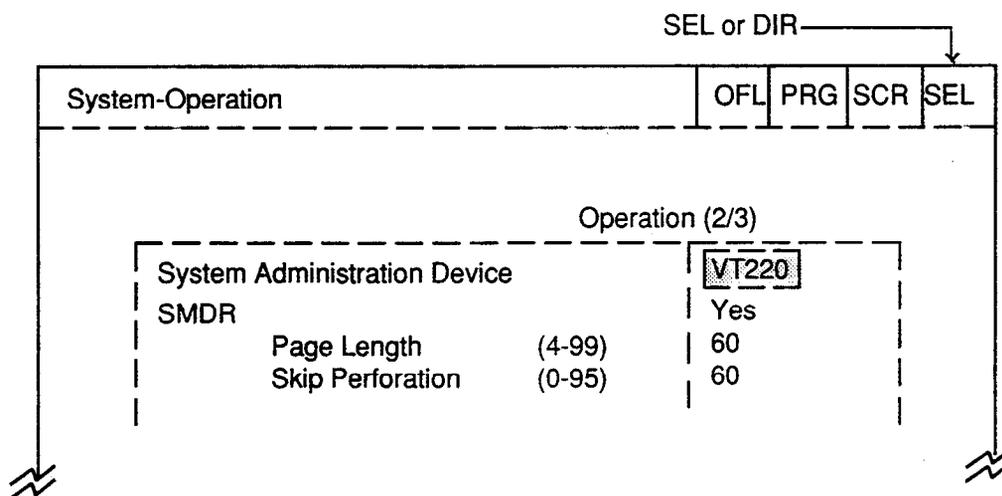
2. (DIR) Direct Input

1) After entering "Yes" for SMDR, move the cursor to Page Length field.

- The display "SEL" changes to "DIR."

2) Enter the appropriate number directly from 4 to 99 for Page Length .

When storing the entered data, press the PF2 or PF4 key.

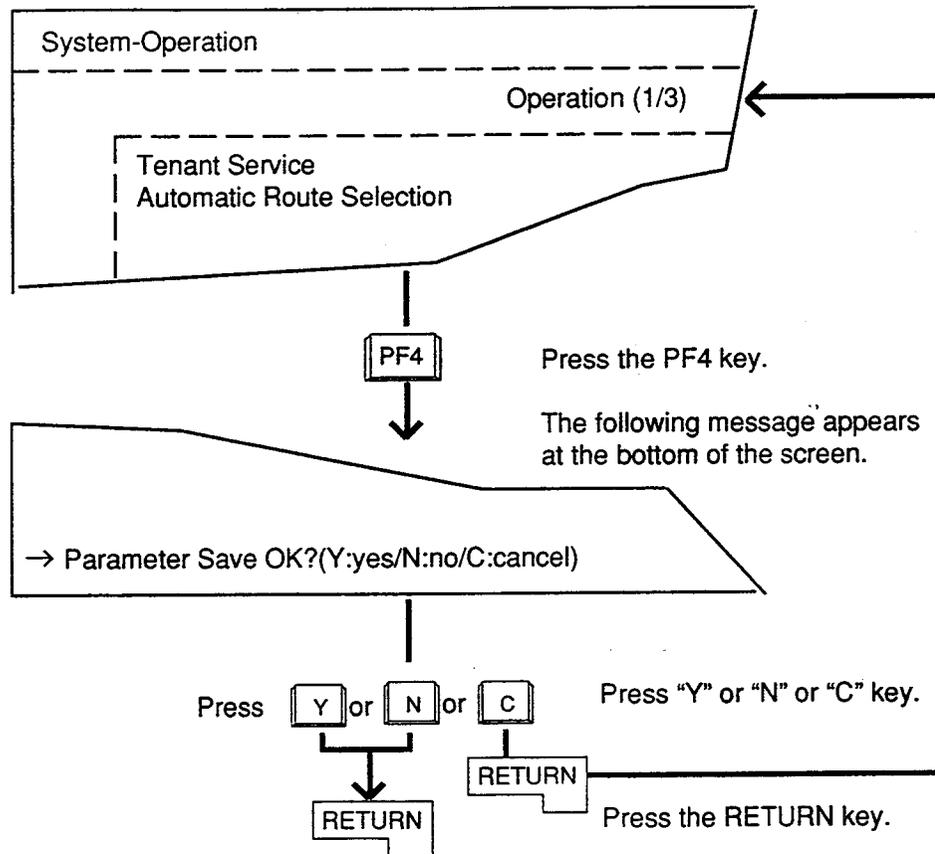


5.00 Storage of Set Value by PF4

Storing the entered data

1. Press the PF4 key.
 - The following message appears at the bottom of the screen:
Parameter Save OK?(Y:yes/N:no/C:cancel)
2. Press "Y" key when storing the entered data.
Press "N" key when not storing the entered data.
Press "C" key to cancel the entered data.
3. Press the RETURN key.

<Example>



6.00 Advancing to Next Screen by NEXT

To advance to the next page of the same setting screen, press the NEXT key.

When no data has been entered:

- Advances to the next page.

When data has been entered, but not stored by PF4:

- The following message appears at the bottom of the screen.

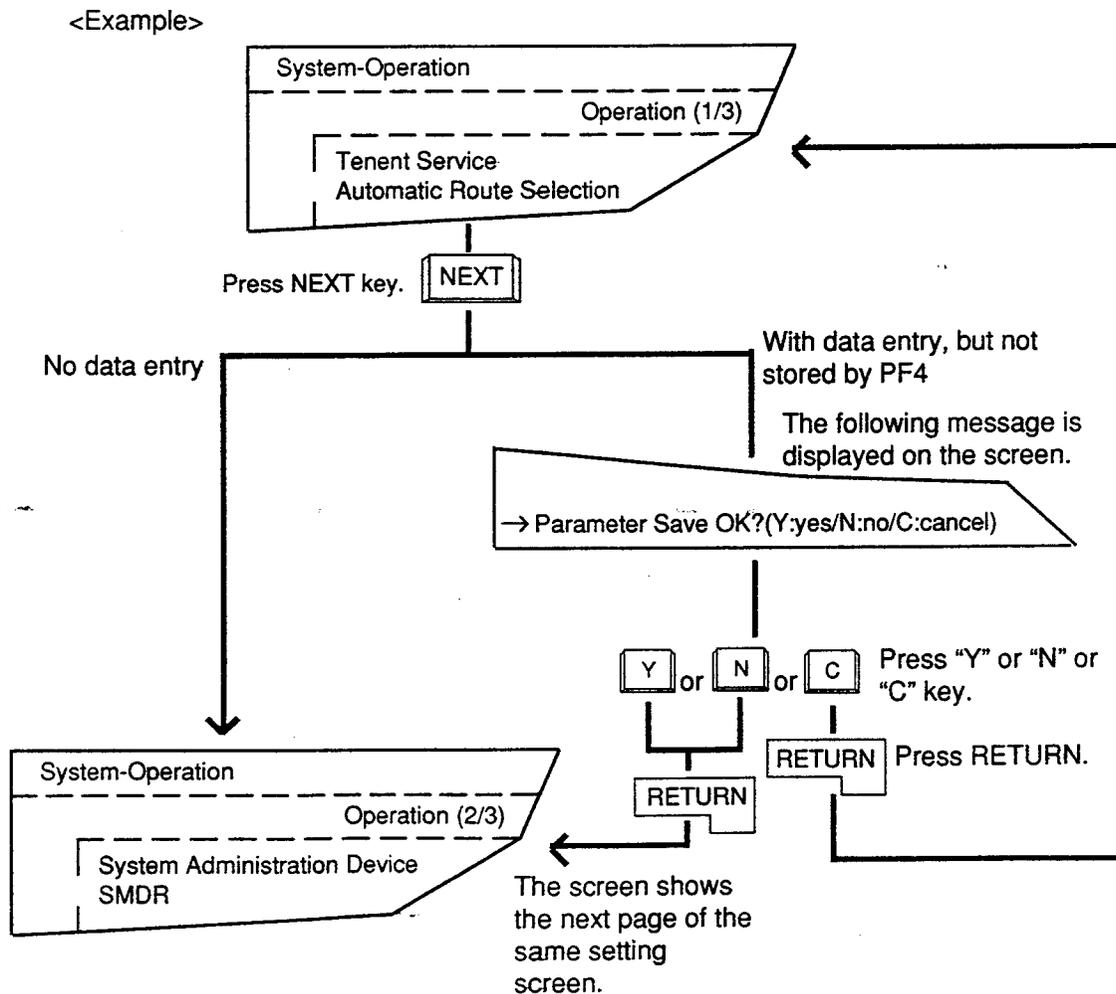
Parameter save OK? (Y:yes/N:no/C:cancel)

1) To save the entered data, enter "Y," then press the RETURN key.

Not to save the entered data, enter "N," then press the RETURN key.

The screen advances to the next screen.

2) To cancel the entered parameters, press "C" key, then press the RETURN key. The screen does not change.



7.00 Returning to Previous Screen by PREV

To return to the previous page of the same setting screen, press the PREV key.

When no data has been entered:

- Returns to the previous page.

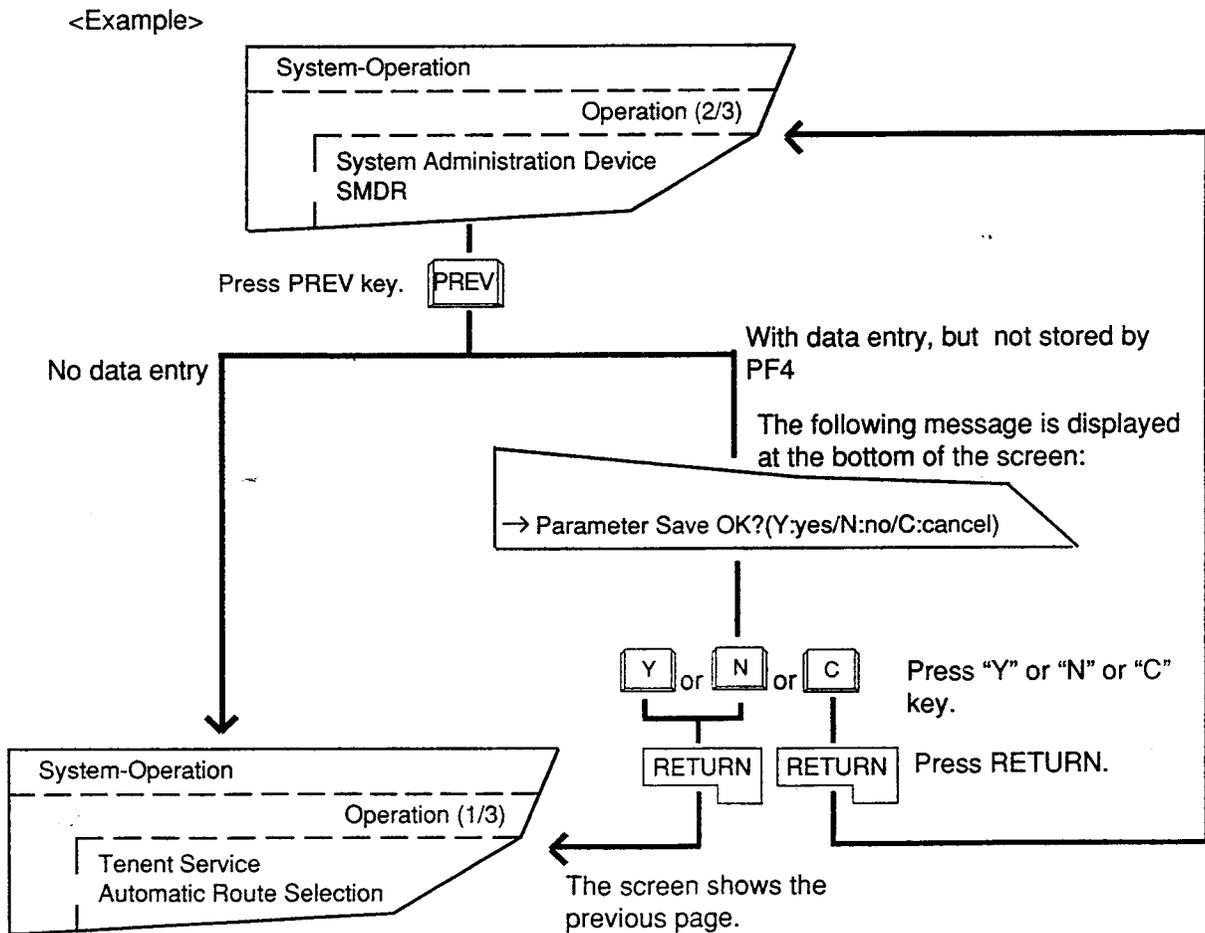
When data has been entered, but not stored by PF4 key:

- The following message appears at the bottom of the screen.

Parameter Save OK ? (Y:yes/N:no/C:cancel)

1) To store the entered data, enter "Y" and not to store, enter "N."
Pressing the RETURN key causes the screen to return to the previous page.

2) To cancel the entered parameters, press "C" key, then the RETURN key.
The screen does not change.



8.00 Canceling Set Value by PF3

To cancel the set values, move the cursor to the value to be canceled by using "TAB," "↑," "↓," "←," "→," keys etc. Then press the PF3 key. The results are as follows:

- Canceling DIR data : becomes blank
- Canceling SEL data : default value appears on that position.

To change the entered values, move the cursor on that value, then enter the new value.

9.00 Concluding Function Mode by CTRL+C

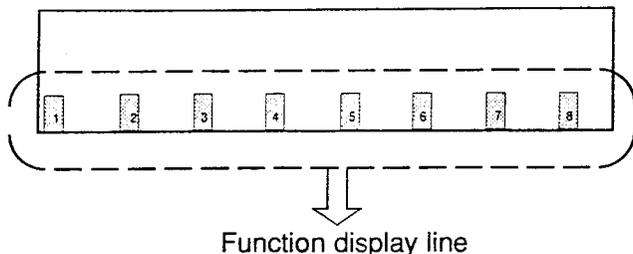
For concluding the function mode, press **CTRL** + **C** keys simultaneously. For details about the function mode, refer to Section 7-I-3.00 "Function Mode."

10.00 Key Operation Table for Various Terminals

FUNCTIONS	VT220	VT100	Attendant Console
(1) To previous screen	PREV / PF1 + ↑	PF1 + ↑	EMU + ← / EMU + PF1 , ↑
(2) To next screen	NEXT / PF1 + ↓	PF1 + ↓	EMU + → / EMU + PF1 , ↓
(3) Ending	PF2	PF2	EMU + PF2
(4) Canceling value	PF3	PF3	EMU + PF3
(5) Canceling command	CTRL + C	CTRL + C	CTRL + C
(6) Data storage	PF4	PF4	EMU + PF4
(7) Command execution	RETURN / ENTER	RETURN	RETURN
(8) Output stop	CTRL + S	CTRL + S	—
(9) Output Start	CTRL + Q	CTRL + Q	—
(10) Function key	PF1 PF8 or PF1 + 1 ... PF1 + 8	PF1 + 1 ... PF1 + 8	PF1 PF8 or PF1 + 1 ... PF1 + 8
(11) Mode change	CTRL + V	CTRL + V	CTRL + V
(12) To previous selection value	CTRL + U	CTRL + U	CTRL + U

I. Operation of Function Keys

1.00 Relation between Function Keys and Screens

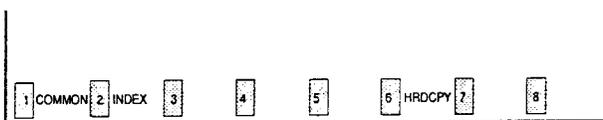


Numbers 1, 2, - - - - 8 displayed in the function field correspond to the function key 1, function key 2, - - - -, function key 8 respectively. In the following explanations, F1 stands for function key 1, F2 stands for function key 2 and so on.

Usable function keys may change depending on the selected screen. For unavailable function keys, "space" appears in the function field.

<Example>

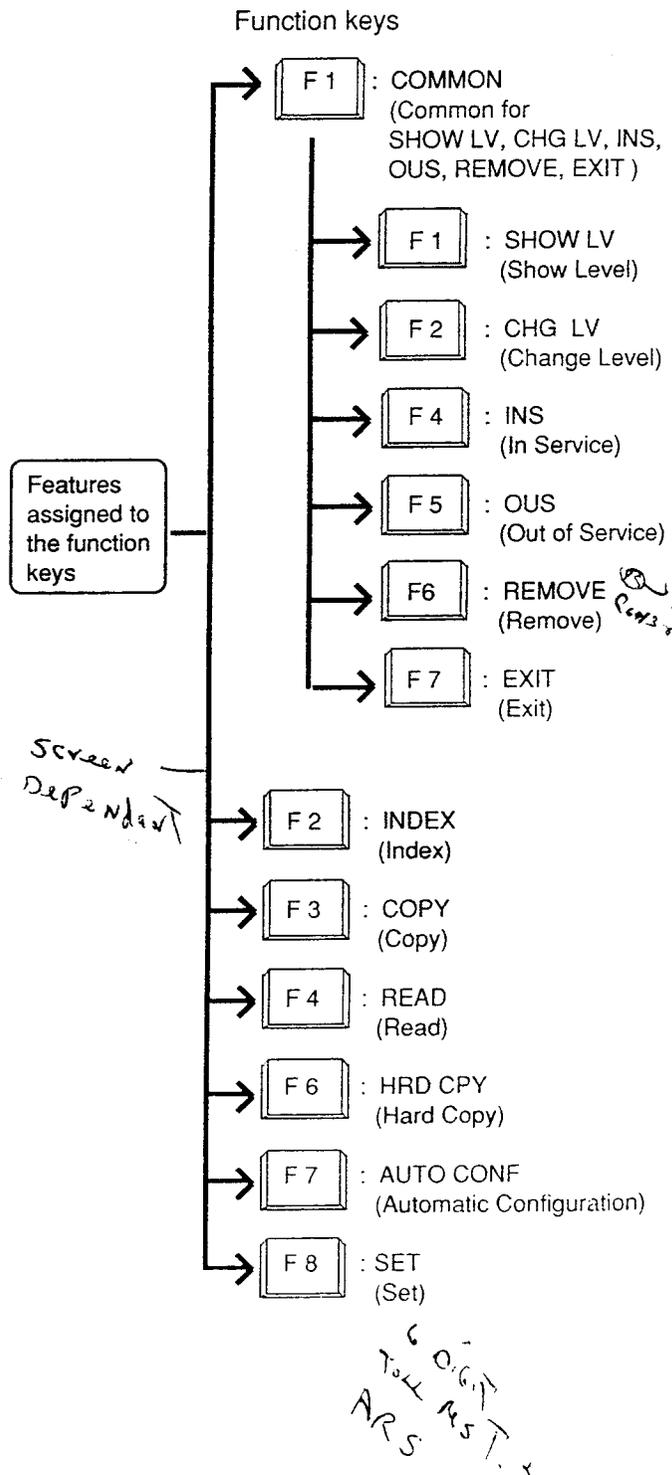
In the System-Numbering Plan screen, the following display appears in the function field.



In this case, F1 is assigned to COMMON feature.
 F2 is assigned to INDEX feature.
 F6 is assigned to HRDCPY feature.
 and F3, F4, F5, F7 and F8 are assigned to no feature.

2.00 Features Assigned to Function Keys

Features assigned to function keys are shown in the drawing below. For details, refer to Section 7-J "Execution of Function."



3.00 Function Mode

Pressing the function key creates a prompt at the bottom of the screen. The prompt that appears on the screen is called "Function Mode."

- When pressing the following function keys, the prompts below are displayed.

Function key	Prompt
<input type="checkbox"/> F1 COMMON	CMD>
<input type="checkbox"/> F2 INDEX	INDEX>
<input type="checkbox"/> F3 COPY	COPY>
<input type="checkbox"/> F4 READ	READ>
<input type="checkbox"/> F7 AUTO CNF	AUTO CNF>
<input type="checkbox"/> F8 SET	SET>

- In function mode, the following keys are not available: NEXT, PREV, PF2 and PF4.
- To conclude function mode, press the EXIT (F7) key. Pressing CTRL and C keys simultaneously also concludes function mode or other modes such as SHOW LV, CHG LV and so on.

J. Execution of Function Modes

1.00 COMMON (F1) and EXIT (F7)

Description

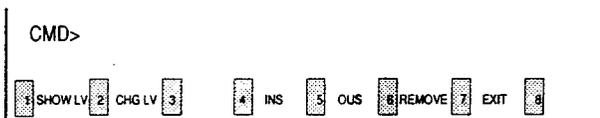
When you want to execute the functions SHOW LV (Show Level), CHG LV (Change Level), INS (In Service), OUS (Out of Service) and REMOVE (Remove), press the COMMON (F1) key. Pressing the EXIT (F7) key allows you to conclude the function mode.

Operation

Entering into COMMON mode

1. Press the F1 key. F1

- The prompt (CMD>) appears and function mode is established. The cursor is flashing and you can choose a desired function from functions displayed on the function field as follows.



Concluding the function mode

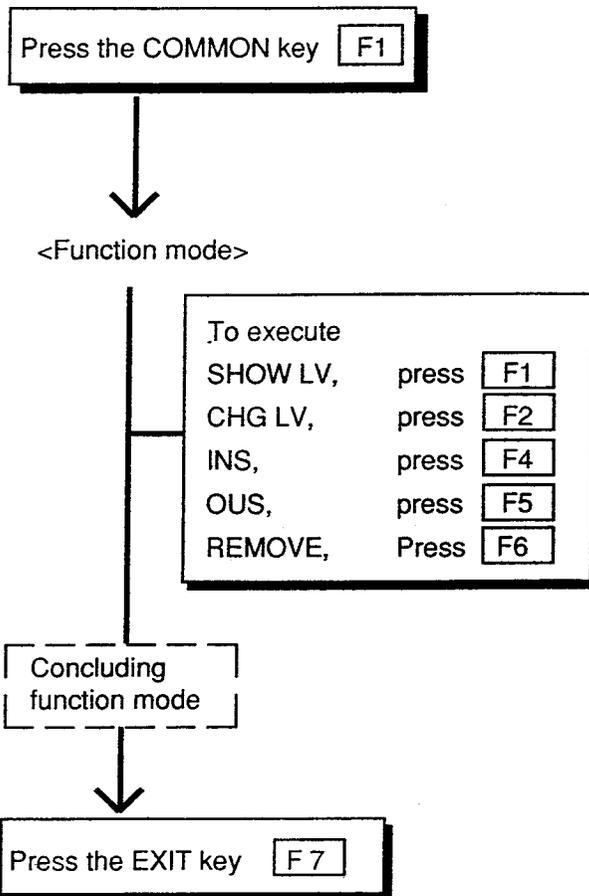
1. Press the F7 key. F7

- The function mode is concluded.

Condition

Available for all the setting screens and all the menu screens.

Operation Chart



2.00 SHOW LV (Show Level)

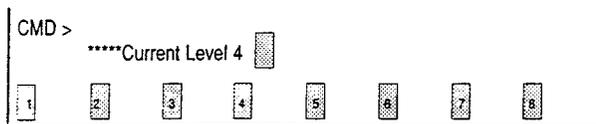
Description

Enables you to confirm the current password level by pressing the SHOW LV (F1) key after entering the COMMON mode.

Operation

Press the F1 key. 

- The screen shows the current password level.



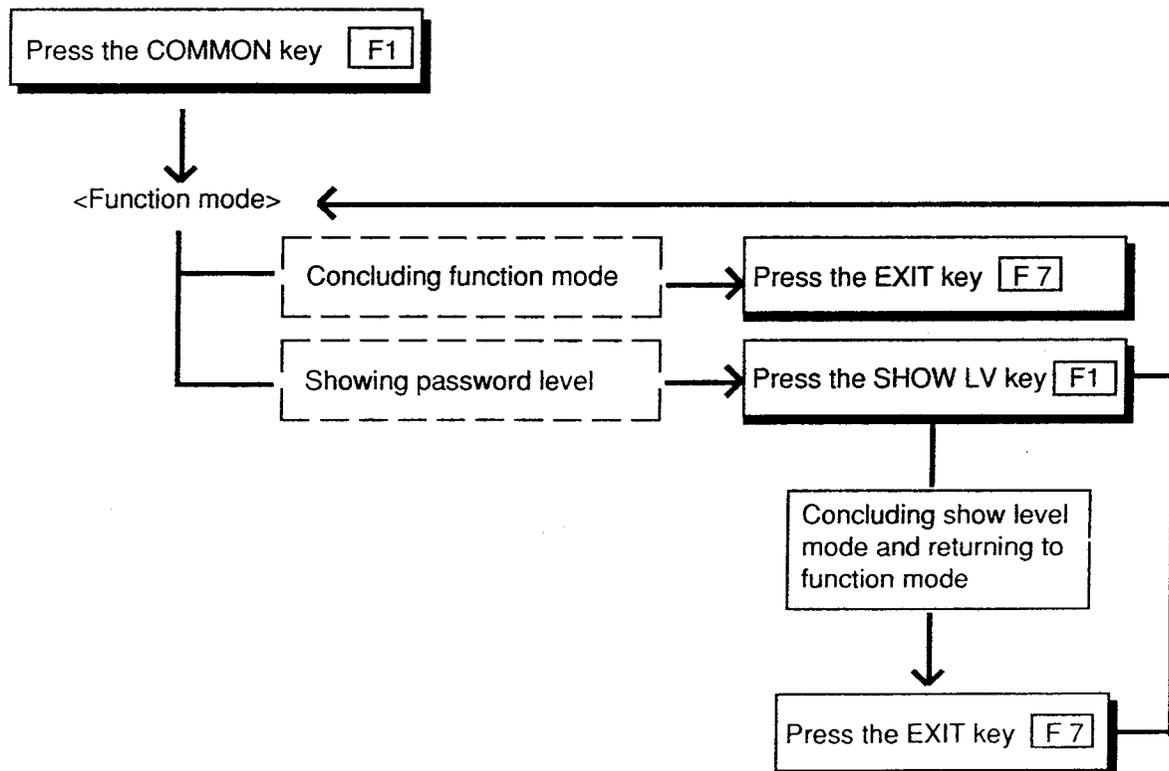
Conditions

Press the EXIT (F7) key to return to COMMON mode.

When back in COMMON mode, executing other COMMON mode functions is possible.

SHOW LV is available for all the menu screens and the setting screens.

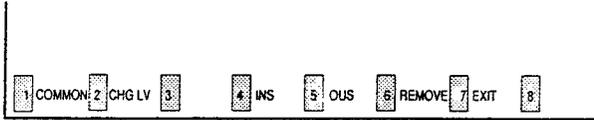
Operation Chart



3.00 CHG LV (Change Level)

Description

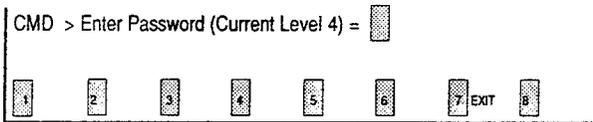
Enables you to raise or lower the current password level by pressing the CHG LV (F2) key after entering COMMON mode.



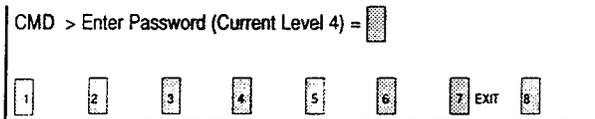
Operation

Raising a password level

1. Press the F2 key.

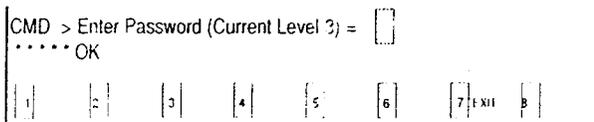


2. Enter 4-digit new password (one level higher than current level).



- To prevent an unauthorized person from learning the password, the password characters are not displayed when they are entered.

3. Press the RETURN key.



- When newly entered password is allowed by the system, "*****OK" appears and new password level is displayed.

Conditions

Password level can be raised one by one as follows: 4 → 3 → 2 → 1

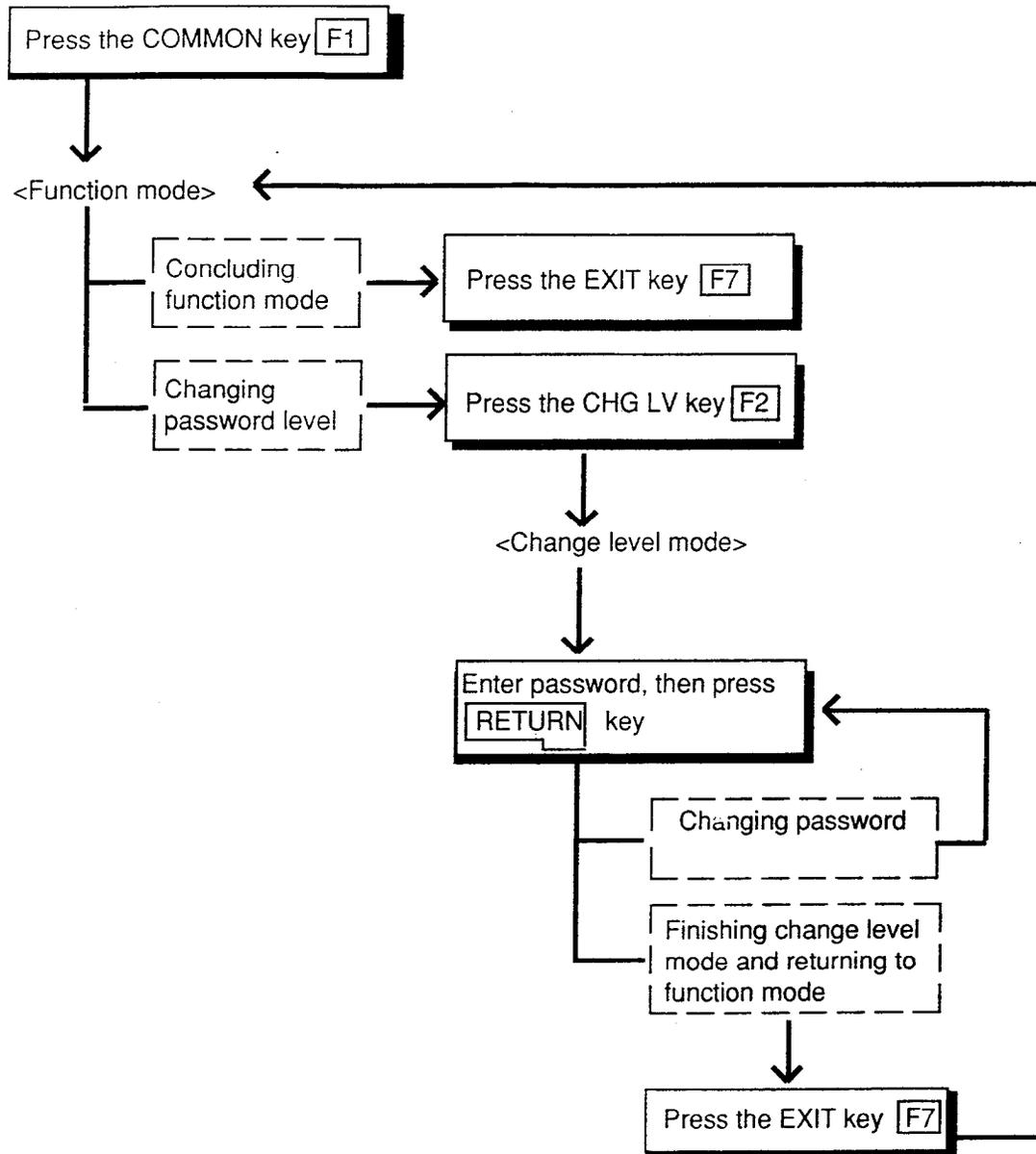
To lower the current password level, simply press the RETURN key when "CMD>Enter Password (Current Level 1)=" is displayed.

By every pressing of the RETURN key, password level is lowered one by one as follows: 1 → 2 → 3 → 4

To return to the COMMON mode from the change level mode, press the EXIT (F7) key.

The Change Level function is available for all the menu screens and the setting screens.

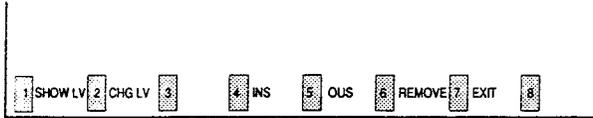
Operation Chart



4.00 INS (In Service)

Description

Allows you to change the status of shelves, cards and ports from "Out of Service" to "In Service" in the following screen, after pressing the COMMON (F1) key.

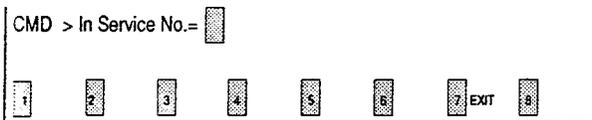


Operation

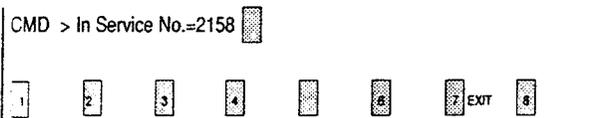
<Example>

Changing the status of station (physical number 2158) from "Out of Service" to "In Service."

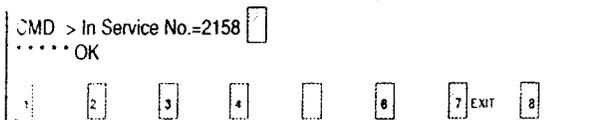
1. Press the F4 key. **F4**



2. Enter the physical number of the station "2158."



3. Press the RETURN key. **RETURN**



- "..... OK" appears when the station (physical number: 2158) becomes "In-Service."

Conditions

The system should be in on-line communication mode.

For changing lower device such as station, port etc.. to "In Service," upper device such as card and shelf should be In Service beforehand.

The table below shows the devices to be changed to "In Service" and their Entry numbers.

Elements	Entry numbers
Shelf	physical number (1 to 3)
Card	physical number (101 to 315)
Port	physical number (1011 to 3158)
Station	extension directory number (DNxxxx: three or four digits), or physical number (1011 to 3158)
Attendant Console	A1, A2 or Port number (1011 to 3158)
DTMF Receiver	Rxxx xxx : card physical number y : 1 for DTMF Receiver 1 2 for DTMF Receiver 2
Conference Trunk	Basic conference trunk number CFBxx (xx : 01 to 08) Optional conference trunk number CFOyy (yy : 01 to 64)

If it is impossible to execute the "In Service" operation, one of the following error messages appears on the screen.

The error message types depend on the situation.

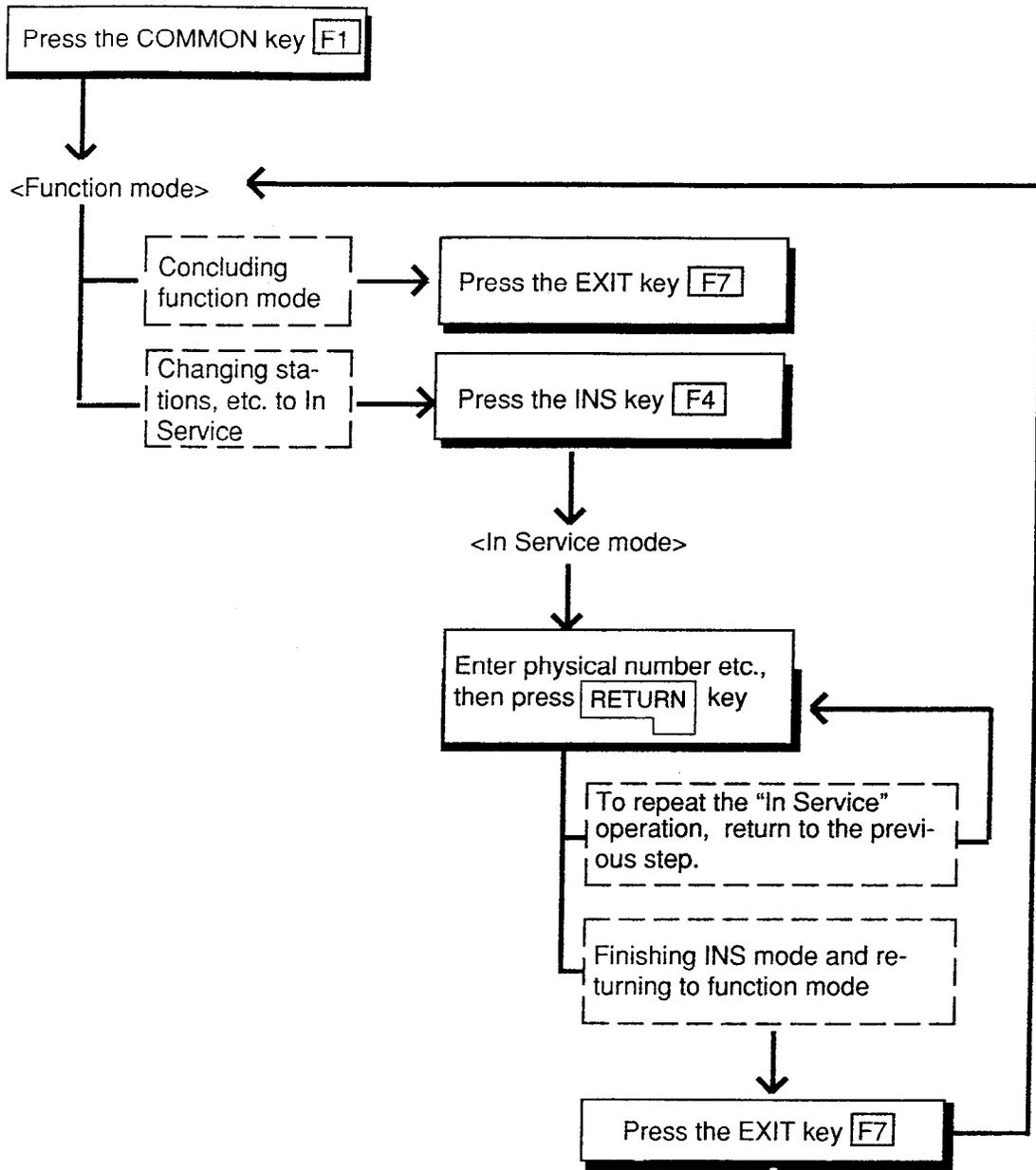
- ***** ERROR : Illegal parameter
- ***** ERROR : Not installed
- ***** ERROR : Diagnostic failure
- ***** ERROR : Invalid status

For details about the error messages, refer to Section 9-M "Error Message Tables."

To repeat the "In Service" operation, repeat from STEP 2.

To return to the COMMON mode, press the EXIT (F7) key.

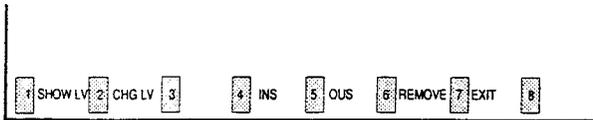
Operation Chart



5.00 OUS (Out of Service)

Description

Allows you to change the status of shelves, cards and ports from "In Service" to "Out of Service" as shown below after pressing the COMMON (F1) key.

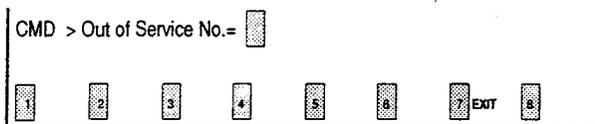


Operation

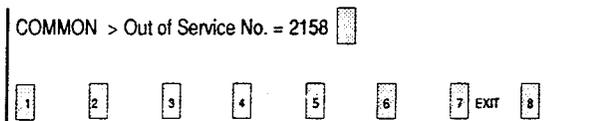
<Example>

Changing the status of the station (physical number 2158) from "In Service" to "Out of Service."

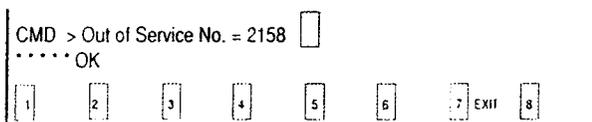
1. Press the F5 key.



2. Enter the physical number of the station "2158."



3. Press the RETURN key.



- "***** OK" appears when the station (physical number 2185) becomes "Out of Service."

Conditions

The system should be in on-line communication mode.

Devices to be changed to "Out of Service" and their entry numbers are as same as that of "In Service." Refer to Section 7-J-4.00 "INS (In Service)."

When setting the shelf or card to "Out of Service," their lower device such as stations & ports become "Out of Service" simultaneously.

If it is impossible to set "Out of Service", one of the following error messages appears on the screen. A type of error message depends on the situation.

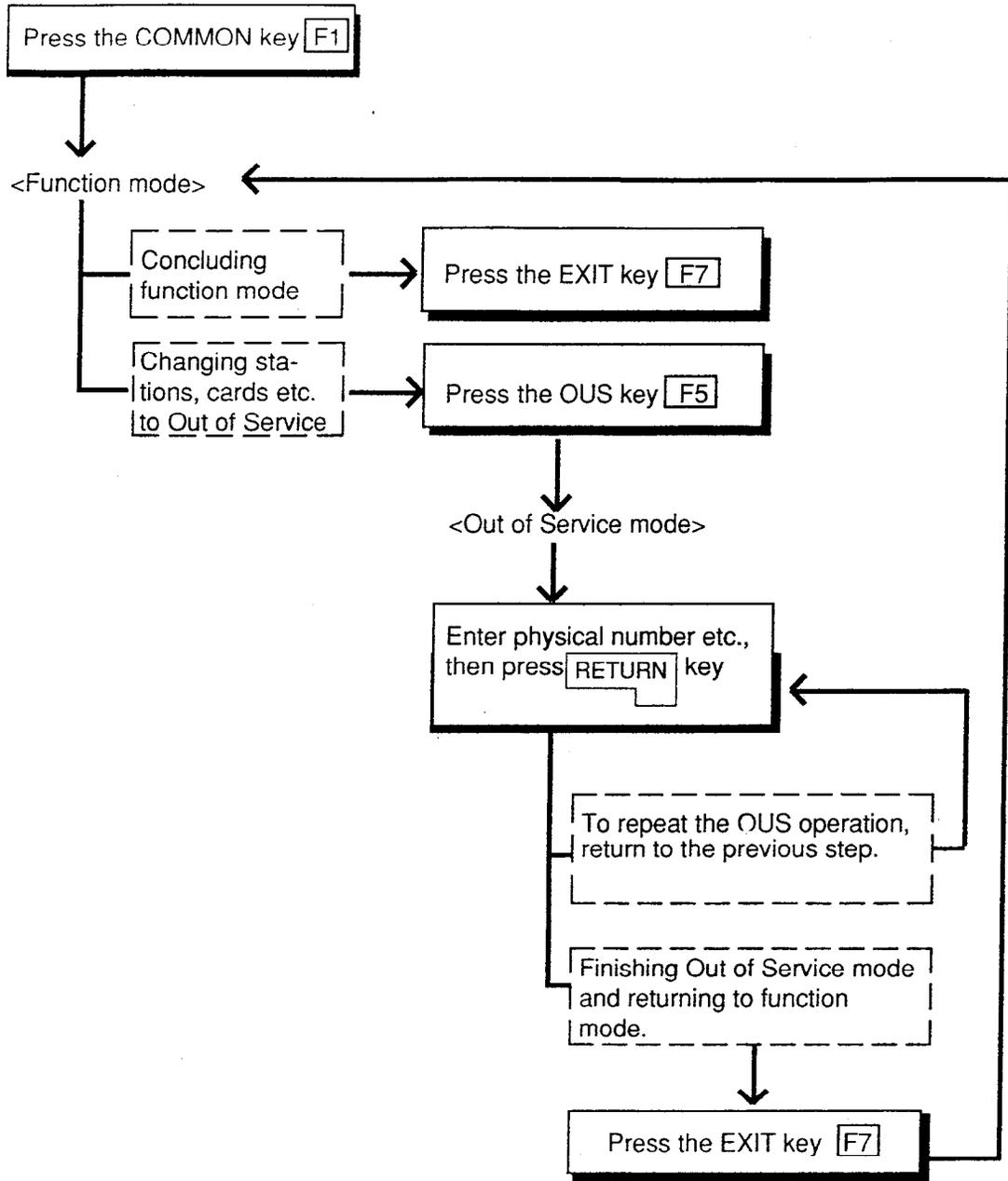
```
*****Error : Illegal parameter
*****Error : No installed
*****Error : Diagnostic failure
*****Error : Invalid status
```

For details about the error messages, refer to Section 9-M "Error Message Tables."

To repeat the "Out of Service" operation, repeat from STEP 2.

To return to COMMON mode, press the EXIT (F7) key.

Operation Chart



6.00 REMOVE

Description

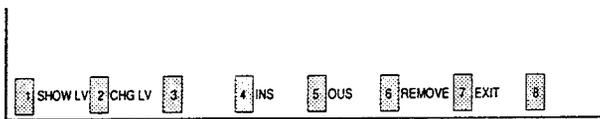
Enables you to delete the stored data by specifying the devices. This operation should be done before actually removing the devices. This function is available in the screen where "REMOVE" is displayed on the function field.

Operation

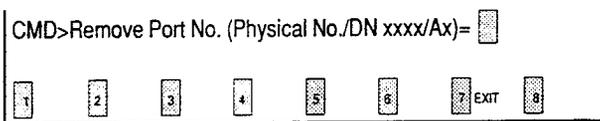
<Example>

Remove the programming data of an extension with physical number 1011.

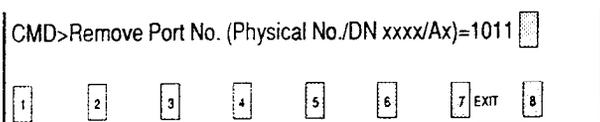
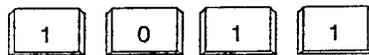
1. Press the F1 key. 



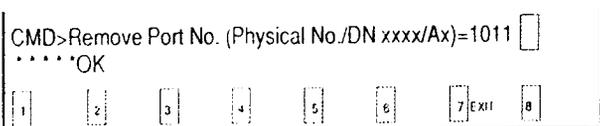
2. Press the F6 key. 



3. Enter the physical number 1011.



4. Press the RETURN key. 



- When the message below appears, the programming data of physical number 1011 is deleted without failure.

*****OK

Conditions

The system should be in On-line communication mode.

The specified terminal should be "Out of Service" or "Fault."

When it is impossible to execute "REMOVE" operation, one of the following error messages appears on the screen.

The error message type depends on the situation.

*****ERROR : Illegal parameter

*****ERROR : Parameter is not consecutive set

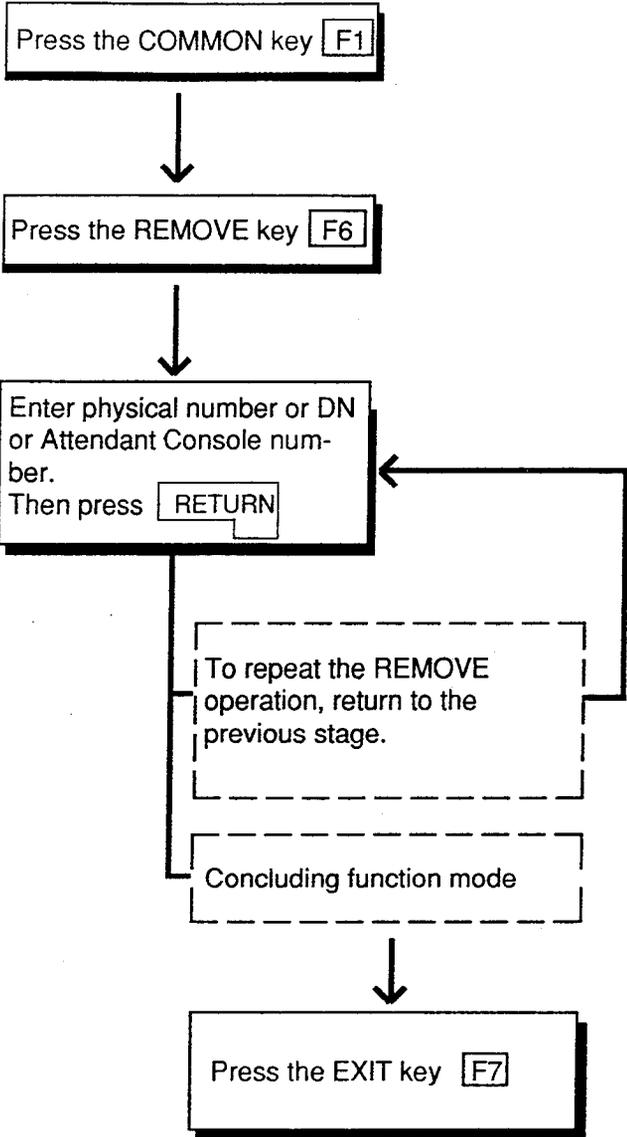
*****ERROR : Not installed

*****ERROR : Invalid status

*****ERROR : Parameter is empty

For details about the error messages, refer to Section 9-M "Error Message Tables."

Operation Chart



7.00 INDEX

Description

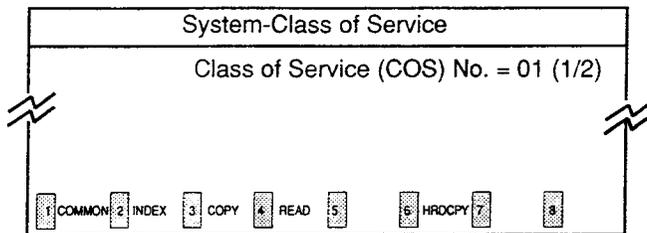
Enables you to enter the desired screen immediately without using the NEXT or PREV key.

Operation

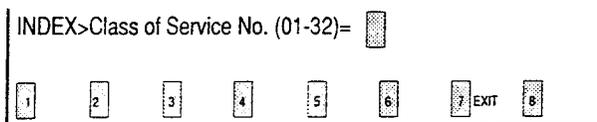
<Example>

Entering the Class of Service No.=32 screen.

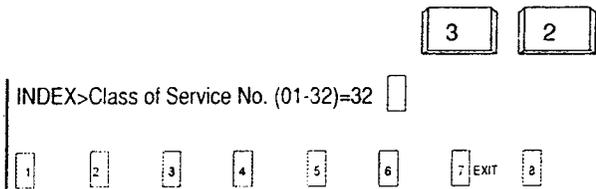
The current screen is Class of Service (COS) No.=01



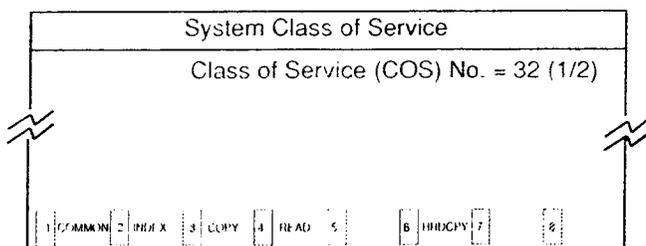
1. Press the F2 key.



2. Enter COS number 32 that you want to enter.

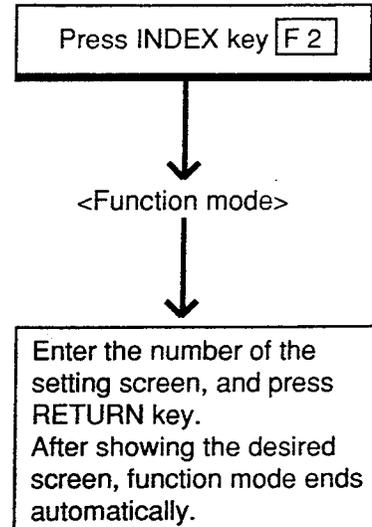


3. Press the RETURN key.



- COS No.=32 screen appears, and the function mode is finished automatically.

Operation Chart



Condition

If "INDEX" operation cannot be executed, one of the following error messages appears on the screen.

A type of error message depends on the situation.

*****Error : Illegal parameter

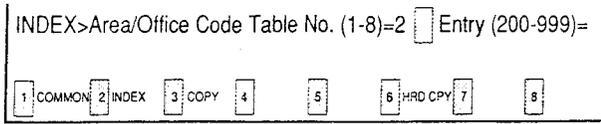
*****Error : Not installed

*****Error : Please save data

*****Error : Parameter is empty

For details about the error messages, refer to Section 9-M "Error Message Tables."

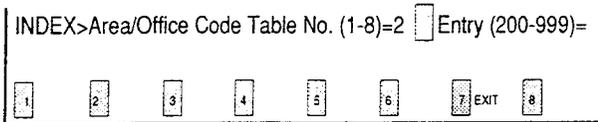
In the screen, Toll Restriction "Area/Office Code Table," both Area/Office Code Table number and Entry number must be entered after depressing the INDEX (F2) key.



The example below shows the procedures to display the screen of Entry 251 of Area/Office code Table No.2.

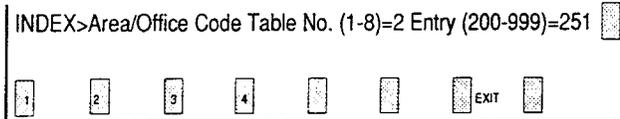
2

1. Enter the Area/Office code table number 2.

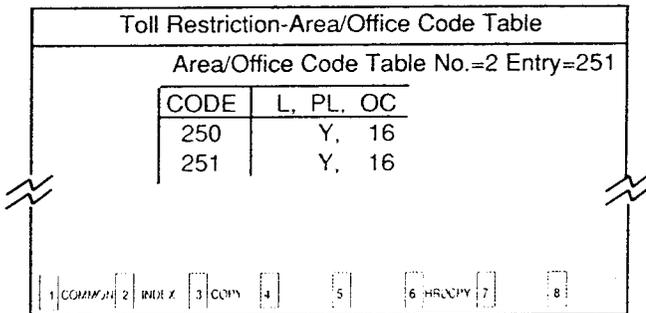


2. Enter 251 after moving the cursor to the Entry position by using key

2 5 1



3. Press the RETURN key.



- Area/Office Code Table No.=2 Entry=251 screen appears and the function mode finishes automatically.

Reference

The INDEX function is available for the screen listed below. For the input values, refer to Section 9 "System Programming (VT)."

- System-Class of Service (1/2) (2/2)
- System-Numbering Plan (1/8) to (8/8)
- System-Speed Dialing-System
- Group-Trunk Group (1/2) (2/2)
- Trunk-CO Line
- Extension-Station (1/3) (2/3) (3/3)
- Extension-DSS Console (1/3) (2/3) (3/3)
- Toll Restriction-Area/Office Code Table
- Toll Restriction-Office Code Tables
- Automatic Route Selection-Leading Digit Table
- Automatic Route Selection-Office Code Table
- Automatic Route Selection-Route Plan Tables
- Automatic Route Selection-Route List Table

8.00 COPY

Description

This function enables you to copy the desired system programming data from specified screen to multiple screens at a time, and is available in the screens where COPY is displayed in the function field.

Operation

<Example>

Copying the data in System "Class of Service" No.01 to COS No.30 through No.32

1. Press the F3 key.

2. Enter the original COS number, 01

3. Move the Cursor to the first COS No. position to be copied by using . Then enter the COS number, 30.

4. Move the cursor to the last COS No. position to be copied by using . Then enter the COS number, 32.

5. Press the RETURN key.

- The message below appears when the original data of COS No.=01 is properly copied to COS No.=30 through 32
*****OK
- Press the EXIT (F7) key to finish this mode.

Conditions

To copy the original to only one destination, enter the same destination number in the first and last positions. In this case, READ function is useful.

<Example>

Copying COS No.=01 into COS No. 02

Enter the destination numbers in ascending order. To repeat the "COPY" operation, repeat from step 2. Then press the RETURN key.

If the COPY operation is unsuccessful, one of the error messages below appears. Error message types depend on the situation.

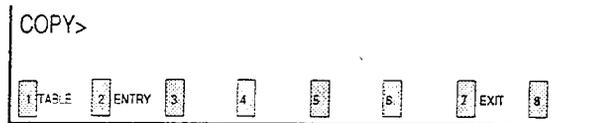
*****Error : Illegal parameter

*****Error : Not installed

For details about the Error messages, refer to Section 9-M "Error Message Tables."

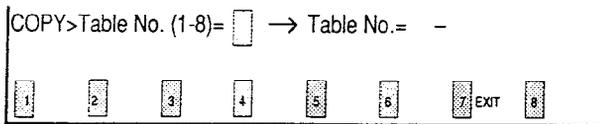
In the Toll Restriction "Area/Office Code Table," "TABLE" and "ENTRY" appear in the function display line as below after pressing the COPY (F3) key.

For copying the whole table, press the TABLE (F1) key and for copying entries in the same table, press the ENTRY (F2) key.



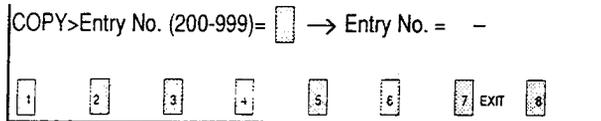
Copying the whole Table

Depress the F1 key. **F1**



Copying Entry

Depress the F2 key. **F2**



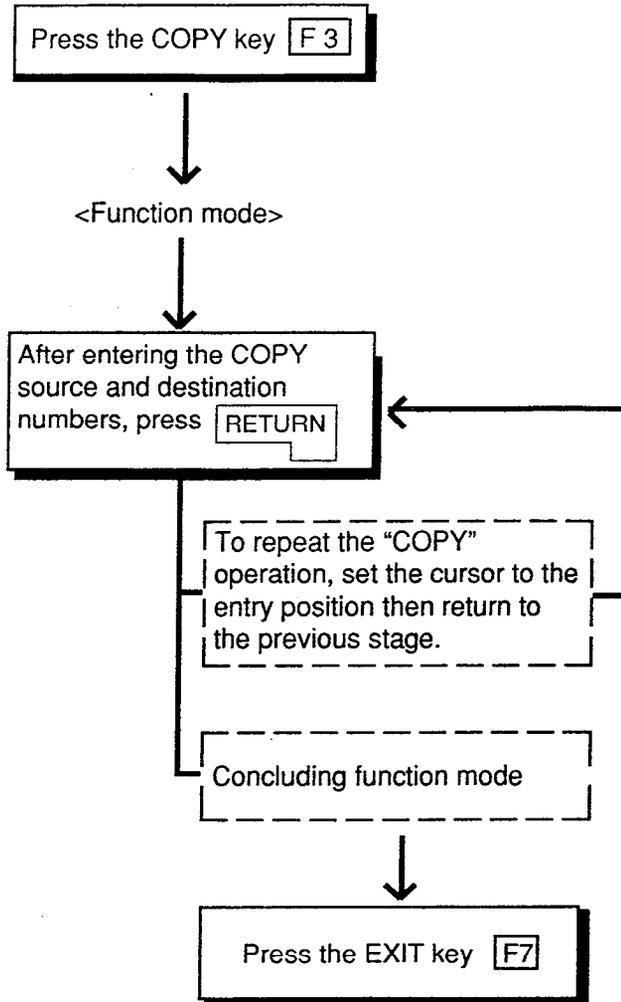
Reference

The Copy function is available in the following screens.

For the input values, refer to Section 9 "System Programming (VT)."

- System-Class of Service (1/2) (2/2)
- Toll Restriction-Area/Office Code Table
- Toll Restriction-Office Code Tables
- Automatic Route Selection-Leading Digit Table
- Automatic Route Selection-Office Code Table
- Automatic Route Selection-Route Plan Tables
- Automatic Route Selection-Route List Table

Operation Chart



9.00 READ

Description

This function enables you to copy the desired system programming data from specified screen into the currently displayed screen quickly. This is available in the screens where READ is displayed in the function field.

Operation

<Example>

Copying the system programming data of "Class of Service (COS) No.=01" into "COS No.=32."

The current screen is Class of Service (COS) No.=32.

1. Press F4. F4

2. Enter the COS number 01 to copied.

0 1

3. Press the RETURN key. RETURN

- The message below appears when the stored data of COS No.=01 is copied properly to COS No.=32.

***** OK

Conditions

To repeat "READ" operation, repeat from step 2.

When READ operation is unsuccessful, one of the following error messages appears on the screen: Error message types depend on the situation.

***** Error : Illegal parameter

***** Error : Not installed

For details about the error messages, refer to Section 9-M "Error Message Tables."

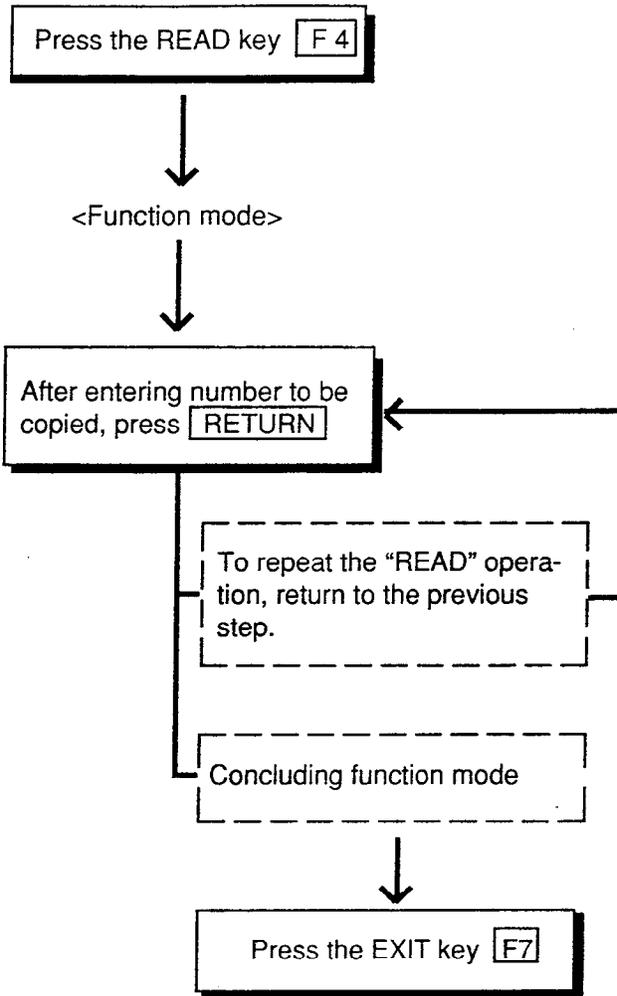
To store the copied data, press PF4 or PF2. To conclude this mode, press the EXIT (F7) key.

Reference

The READ function is available in the screens listed below. For the input values, refer to Section 9 "System Programming (VT)."

- System-Class of Service (1/2) (2/2)
- Group-Trunk Group (1/2) (2/2)
- Trunk-CO Line
- Extension-Station (1/3) (2/3) (3/3)
- Extension-DSS Console (1/3) (2/3) (3/3)
- Automatic Route Selection-Route Plan Tables

Operation Chart



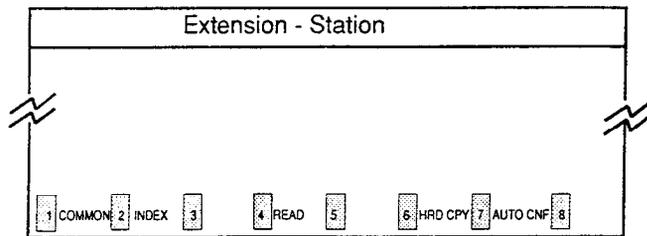
10.00 HRD CPY (Hard Copy)

Description

When an output device such as printer provided with RS-232C interface etc., is connected to the system, it is possible to print out the data on the screen.

Refer to Section 9-D-7.00 "Communication Interface" for further information about communication parameters.

This function is available in the screens displaying HRD CPY on the function field.



Operation

1. Press the F6 key.



- All data displayed on the screen is printed out.

Condition

When HRD CPY operation is unsuccessful, one of the following error messages appears on the screen.

An error message type depends on the situation.

*****ERROR : Printer is not ready

*****ERROR : Service Violation

For details about the error contents, refer to Section 9-M "Error Message Tables."

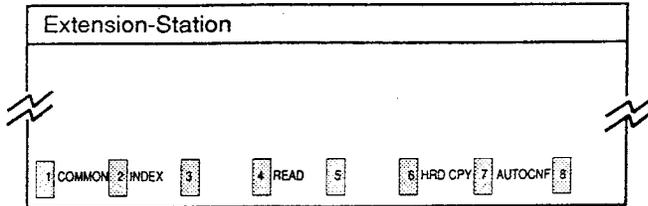
Reference

The HRD CPY operation is available in the System Installation screen and all setting screens.

11.00 AUTO CNF (Automatic Configuration)

Description

This function sets the telephone type and DSS consoles automatically. This function is available in the screens where AUTO CNF is displayed in the function field.



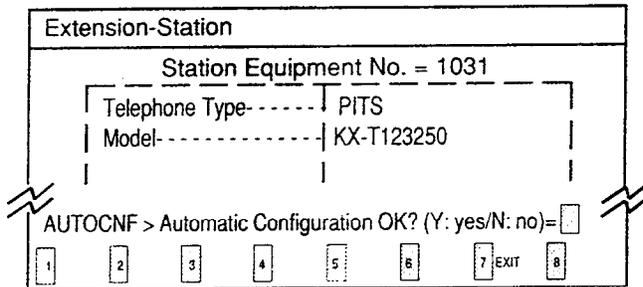
Operation

<Example>

When the Telephone Type is set to PITS in Extension-Station screen and actually SLT telephone is connected.

1. Press the F7 key.

- The following message appears at the bottom of the screen.



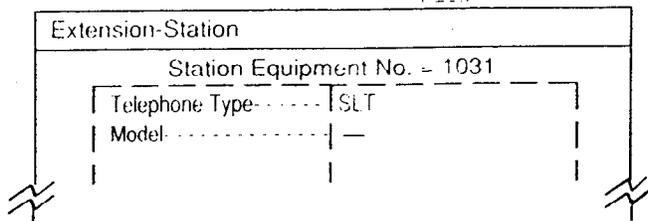
2. Press "Y" key to execute AUTO CNF.



Press "N" key not to execute AUTO CNF.

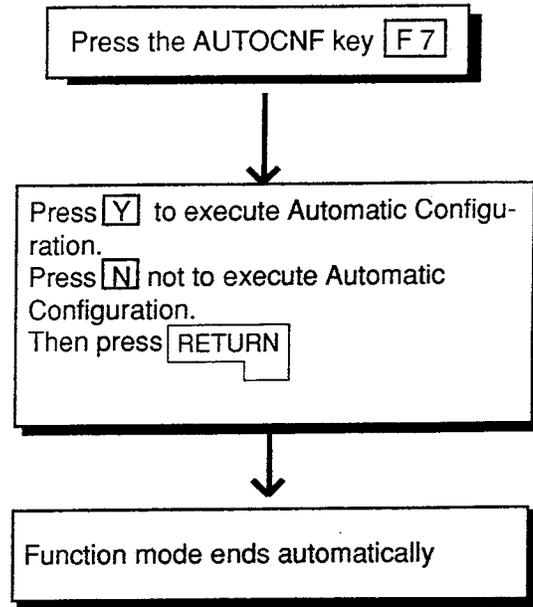


3. Press the Return key.



- Telephone Type changes to SLT automatically.

Operation Chart



Condition

When Automatic Configuration operation fails, one of the following error messages appears on the screen. An error message type depends on the situation.

- *****ERROR : Illegal parameter
- *****ERROR : Not installed
- *****ERROR : Diagnostic failure

For details of the error contents, refer to Section 9-M "Error Message Tables."

Reference

The AUTO CNF function is available in the following setting screens.

- Extension-Station (1/3)
- Extension-DSS Console (1/3)

12.00 SET Function (F8)

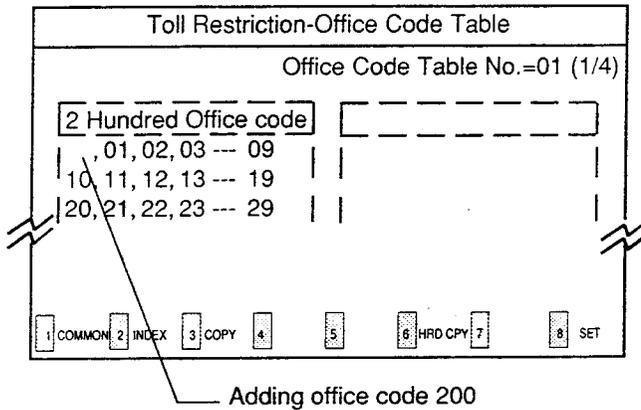
Description

Enables you to add or delete office codes without moving the cursor to the code position. It also enables you to designate wide range of codes. This function is effective in the "Toll Restriction-Office Code Tables" and "Automatic Route Selection-Office Code Tables."

Operation

<Example 1>

Adding office code 200 in Toll Restriction Office Code Table



1. Press the F8 key. F8

```
SET>Set Office code No. (200-999)   (Y:yes/N:no)
```

1 2 3 4 5 6 7 EXIT 8

2. Enter the office code number 200.

2 0 0

```
SET>Set Office code No. (200-999) =200   (Y:yes/N:no)
```

1 2 3 4 5 6 7 EXIT 8

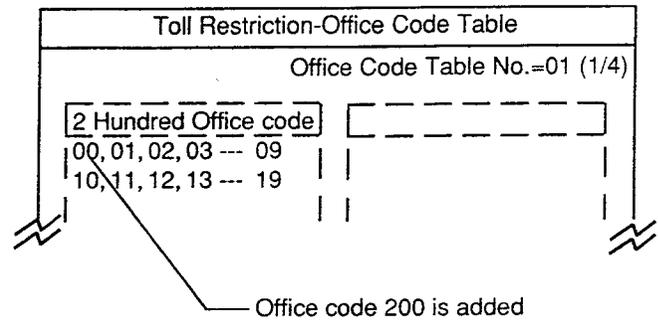
3. Move the cursor to the right by using "→", and depress Y.

Y

```
SET>Set Office code No. (200-999) =200 (Y:yes/N:no) Y  
```

1 2 3 4 5 6 7 EXIT 8

4. Press the RETURN key. RETURN



- "00" appears on the screen and Office code 200 is added. Also the message below appears to show that the code 200 is added properly:
***** OK

<Example 2>

Deleting Office code 220 in Toll Restriction Office Code Table

1. Press the F8 key. **F8**

```
SET>Set Office code No. (200-999) (Y:yes/N:no)
1 2 3 4 5 6 7 EXIT 8
```

2. Enter the office code number 220.

2 2 0

```
SET>Set Office code No. (200-999) =220 (Y:yes/N:no)
1 2 3 4 5 6 7 EXIT 8
```

3. Move the cursor to the right by using "→", and press N.

N

```
SET>Set Office code No. (200-999) =220 (Y:yes/N:no) N
1 2 3 4 5 6 7 EXIT 8
```

4. Press the RETURN key. **RETURN**

```
Toll Restriction-Office Code Table
Office Code Table No.=01 (1/4)
2 Hundred Office code | 3 Hundred Office code
,01,02,03 --- 09 | |
10,11,12,13 --- 19 | |
21,22,23 --- 29 | |
SET>Office code No. (200-999) =200 (Y:yes/N:no) N
***** OK
1 2 3 4 5 6 7 EXIT 8
```

Office code 220 is deleted

- Office code 220 is deleted and " " (blank) appears on the screen. Also the following message shows that code 220 is deleted properly:
***** OK

Conditions

When the SET operation is unsuccessful, the following error message appears:

***** ERROR: Illegal parameter

For details of the error contents, refer to Section 9-M "Error Message Tables."

It is also possible to designate wide range of office code by using N, P, X instead of the number:

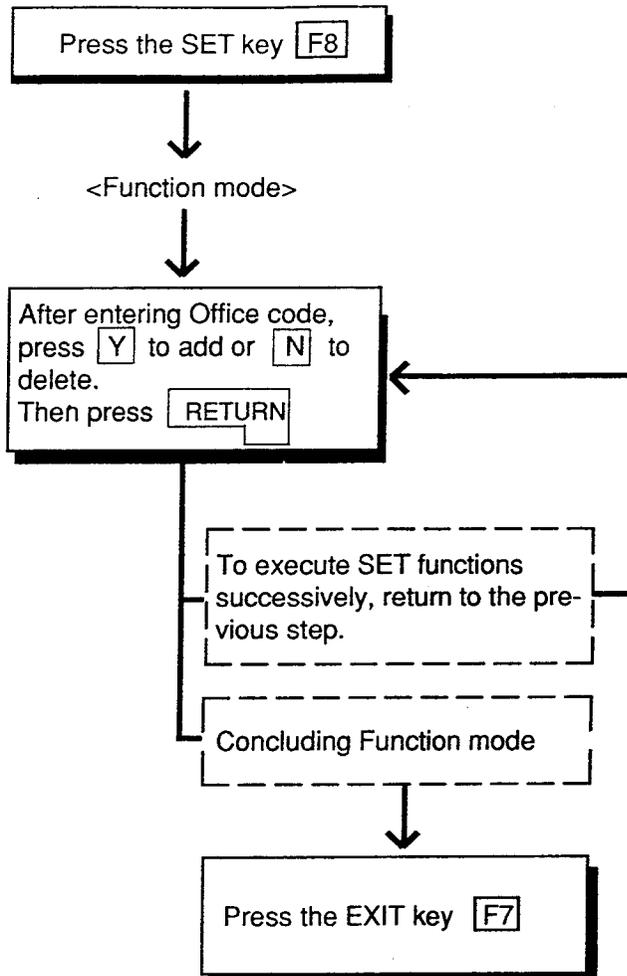
N : 2 to 9

P : 0,1

X : 0 to 9

For example, then designating the office codes 200 through 209, enter : 20X

Operation Chart



Section 8

Preparation for Programming and Maintenance

Dumb Type Terminal

(Section 8)

Preparation for Programming and Maintenance

Dumb Type Terminal

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A. Introduction

1.00 On-Site Administration

Description

You can administer the system programming and maintenance of the system using a Dumb terminal.

For details about communication parameters, refer to Section 9-D-7.00 "Communication Interface."

System Security

For security reasons, access to the administration capabilities of the system is controlled by a password. To prevent an unauthorized person from learning the password, the password characters are not displayed when they are entered.

Password

To gain access to the system administration feature, a valid password (four-digit, alphanumeric characters*) must be entered. To be recognized by the system, the password must be entered exactly as stored in memory. Factory programmed eight passwords are provided from the first to fourth levels for on-site operation and the first to fourth levels for operation from a remote location.

The followings are the functions available to each password level.

- The 1st Level : To access to all levels.
- The 2nd Level : To set system level parameters.
- The 3rd Level : To set port level parameters.
- The 4th Level : To read parameters only.

When you log in to the system using the first level password, you can execute all functions, but are increasingly restricted when entering the levels 2, 3 and 4.

Passwords are originally factory programmed, but may be changed when logging in to the system by entering the first level password. Refer to Section 7-E "Changing Password."

- * Alphanumeric characters
ASCII codes except special codes (DEL, ESC etc.) But entering "/" "~" are not available, because these characters cannot be displayed on the LCD (Liquid Crystal Display) of a PITS. Both uppercase and lowercase characters can be recognized by the system.

Successful Login

When you enter the correct password, the terminal displays the Main Menu screen from which you can select administration functions. By selecting an item from the Main Menu, you enter a system programming area and can access specific system parameters and features.

2.00 System Administration from a Remote Location

Description

From a remote location, you can execute system programming, diagnosis and traffic measurements using a Dumb terminal.

For details about communication parameters, refer to Section 9-D-7.00 "Communication Interface."

Conditions

- RMT card (Modem) must be installed in the system and register the telephone number of modem in the System-Operation "Remote Directory Number" (FDN: 3 or 4 digits) for accessing the remote administration feature. For further information about "Remote Directory Number," refer to Section 10-C-4.00 "Operation (OPR)."
- For remote access, a data terminal and modem are required at a remote location.
- Factory programmed 4 types of password from 1st to 4th level for remote operation are provided. Passwords are originally factory programmed, but may be changed at any time. Refer to Section 8-F-1.00 "Change Level (CHL)."
- You can execute remote system administration during on-line communication mode only. But when you load the system programming data from a remote location, the system shifts to off-line communication mode automatically. Refer to Section 17-B-2.02 "Loading Procedure" for details.
- Starting up system administration from a remote location can be done only in Dumb mode.

Operation

Starting up system administration from a remote location can be done in the following ways:

- Dial "Remote Directory Number" using Direct Inward System Access (DISA) feature. For further information about DISA feature, refer to 3-D-2.02 "Direct Inward System Access (DISA)."
- Program DID feature so that the incoming telephone number is converted to the "Remote Directory Number." For further information about DID feature, refer to Section 3-D-2.03 "Direct Inward Dialing."
- Assign that a call from a remote-location can access the Remote Administration feature" automatically using DIL (1:1) feature. For further information about DIL (1:1) feature, refer to Section 3-D-2.01 "Direct In Line (DIL)."
- Remote access by operator transfer
The call from a remote location can be made on any trunk into the system, and be answered by the operator.
The call is then placed on hold and the Remote Directory Number of the system dialed is received. The operator transfers the call after receiving the modem answer tone. The caller at a remote location will then hear the modem answer tone and can proceed with sign-on. Refer to Section 4-F-1.05 "Unscreened Call Transfer to Remote" for further information.

When the system administrator at a remote location accesses the system remote administration feature, the following message appears on the display of operator's telephone if display is provided.

1234:RMT Access

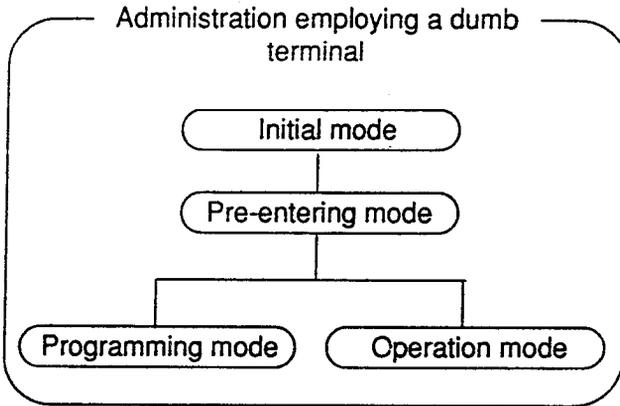
After you log in to the system from a remote location, you can operate the system in the same way as if you were on-site.

Only one system administration terminal can access the system at a time.

3.00 Mode Structure

Administration employing a dumb terminal consists of the following four modes:

- Initial mode
- Pre-entering mode
- Programming mode
- Operation mode



When entering a mode except Initial mode, the prompt depending on the mode appears on the display. That is, the displayed prompt shows the current mode.

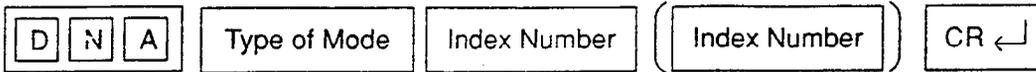
The table below shows the mode and the prompt displayed on the screen:

Mode	Prompt
Pre-entering mode	; >
Programming mode	; PRG >
Operation mode	; OPE >

4.00 Correspondence between Input Format and Explanation Table

The following example shows the relation between the input format and the explanation table.

Input Format



Enter SH, AT or BT

The () mark above means that it can be omitted depending on the commands.
(Refer to Section 8-D-1.00 "Programming Mode" for details about SH, AT, and BT.)

Index Number

Index Number	Explanation									
<table border="0"> <tr> <td>X</td> <td>XX</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td>slot (01 to 15)</td> </tr> <tr> <td> </td> <td> </td> <td>shelf (1 to 3)</td> </tr> </table>	X	XX				slot (01 to 15)			shelf (1 to 3)	Physical number (101 to 315)
X	XX									
		slot (01 to 15)								
		shelf (1 to 3)								

Enter the index number as explained in the table.

Input Value for Item

Item Number	Assigning Item	Input Value
1	Port 1	Three or four digit number : Directory number
2	Port 2	
3	Port 3	
4	Port 4	
5	Port 5	
6	Port 6	
7	Port 7	
8	Port 8	

Enter the item number depending on the assigning items.

When the assigning item appears, enter the value explained in "Input Value" of the table.

For example, if you assign DN of Port 1, enter Item Number 1 and when Port 1 appears, enter three or four-digit number.

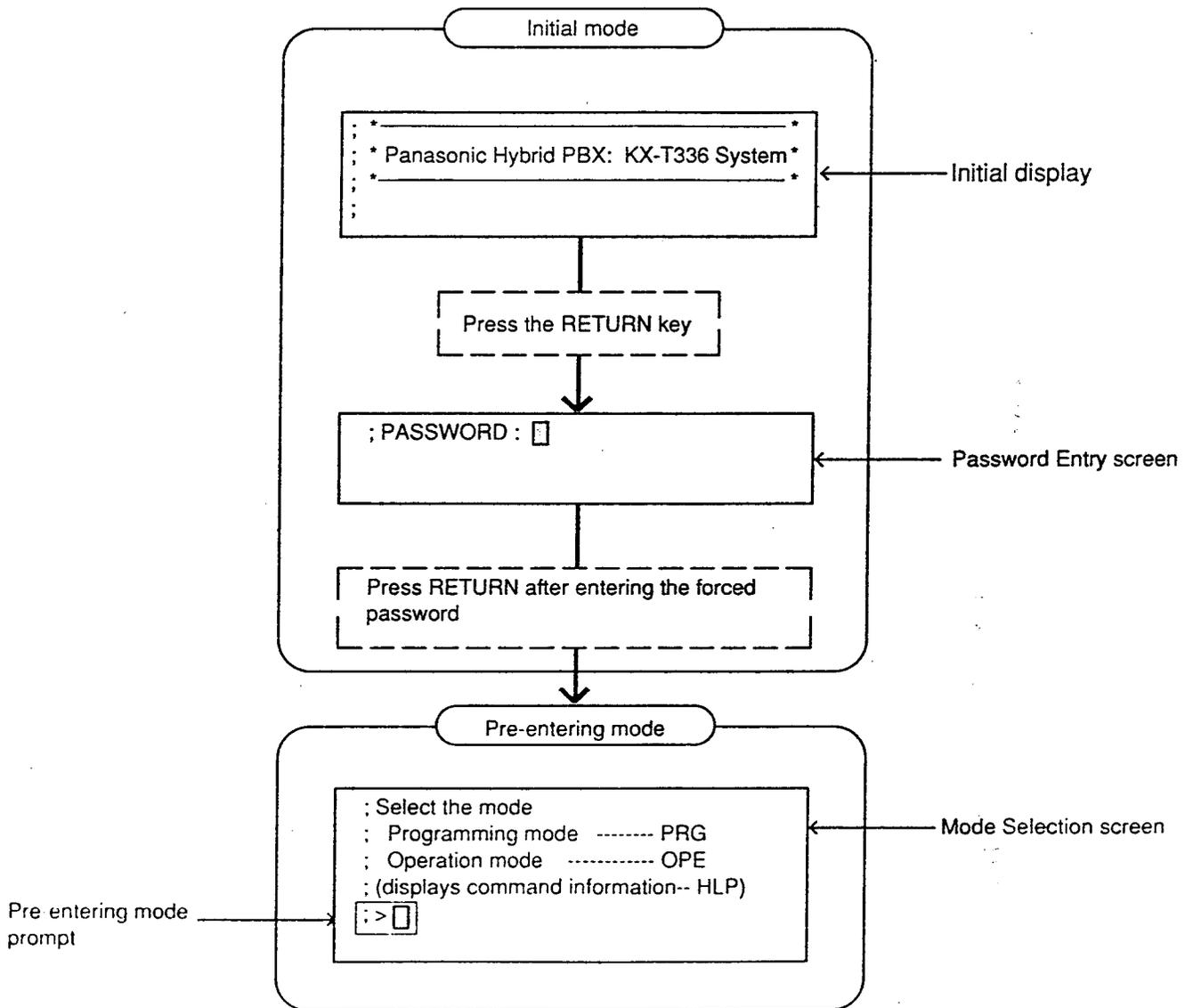
B. Entering/Finishing a Mode

1.00 Entering a Mode

1.01 Initial Mode

The mode before going into the Pre-entering mode is defined as "Initial mode."
Entering the password level four (forced password) in the "Initial mode" advances the mode to "Pre-entering mode."

The following flow chart illustrates the procedures for advancing the mode from "Initial mode" to "Pre-entering mode."



Note : To prevent an unauthorized person from learning the password, the password characters are not displayed when they are entered.

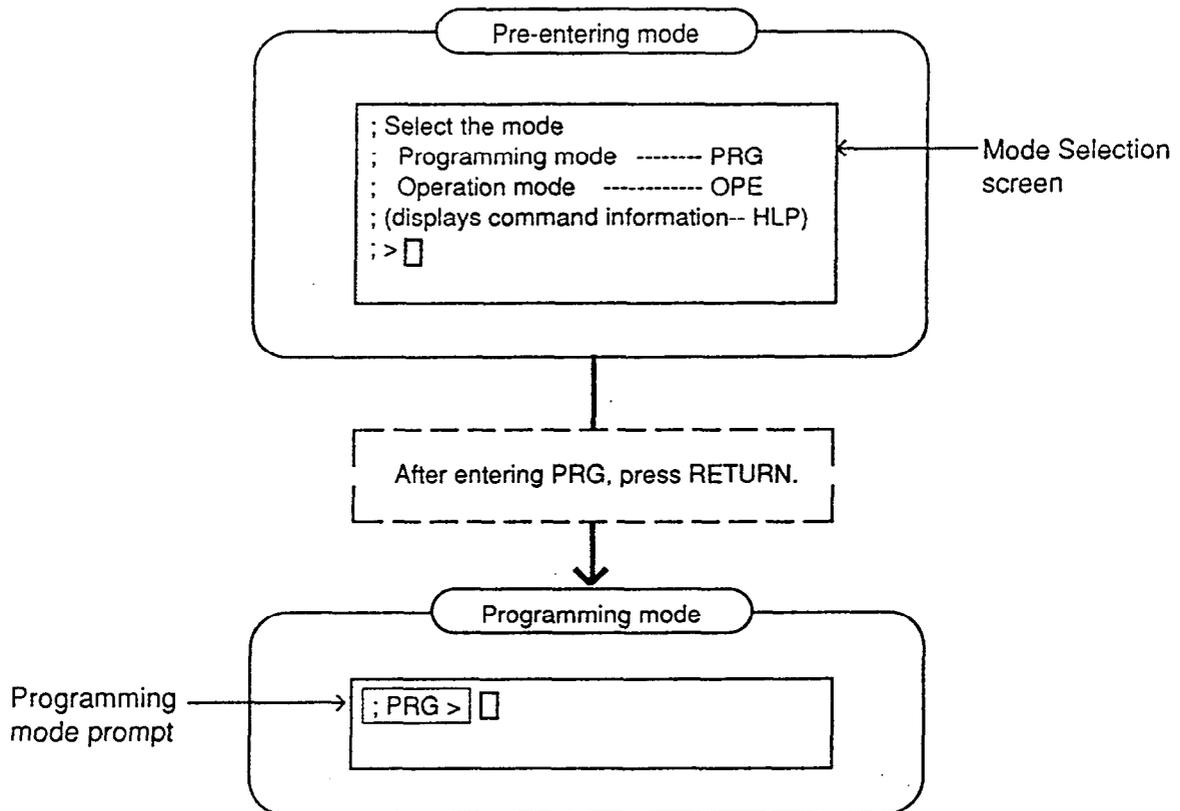
1.02 Pre-entering Mode

The mode before going into the Programming mode or Operation mode is defined as "Pre-entering mode," that is, for entering the "Programming mode" or "Operation mode."

1.03 Programming Mode

This mode is used to assign or change the system programming data.

The flow chart below illustrates the procedures for advancing the mode from "Pre-entering mode" to "Programming mode."

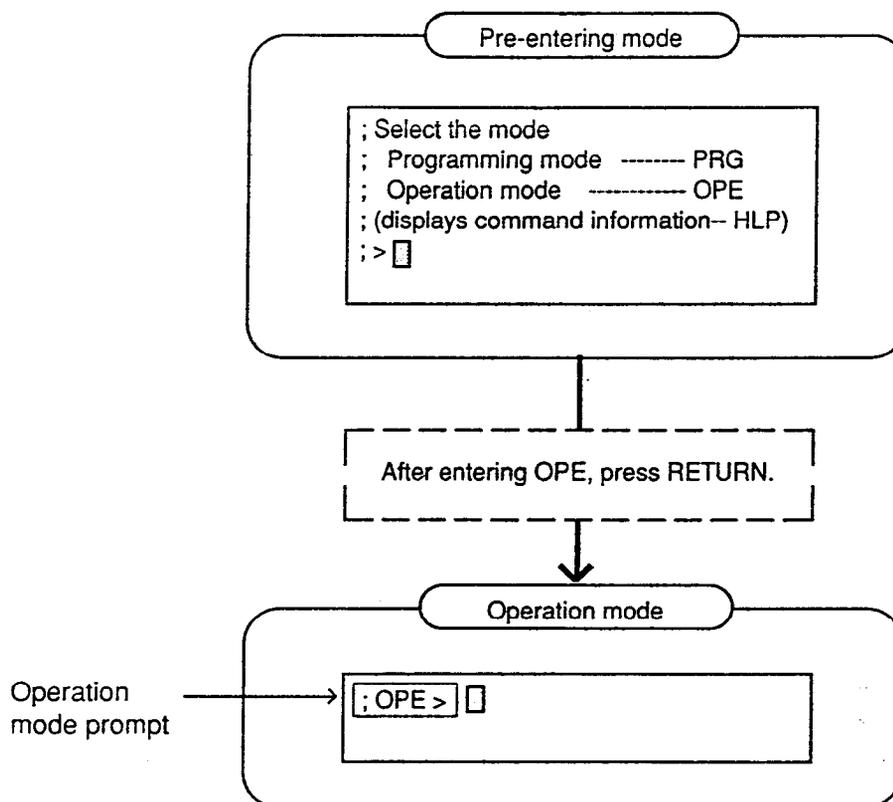


For details about operation in the Programming mode, refer to Section 8-D "Input Format-General" and Section 10 "System Programming (Dumb Type Terminal)."

1.04 Operation Mode

This mode is for confirming and changing the password level, system maintenance and monitor etc. except the programming for the system data.

The following flow chart illustrates the procedures for advancing the mode from "Pre-entering mode" to "Operation mode."



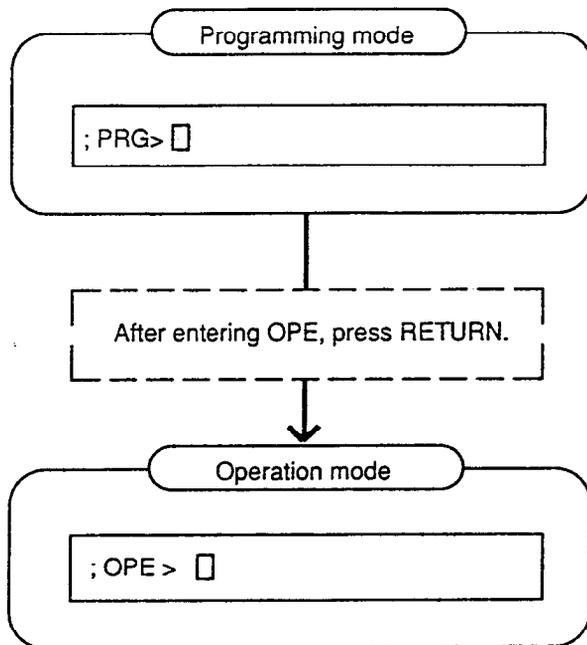
For details about operation in the Operation mode, refer to Section 8-E-2.00 "Operation Mode."

1.05 Changing the Current Mode

It is possible to change "Programming mode" to "Operation mode" and vice versa.

The flow charts show the procedures.

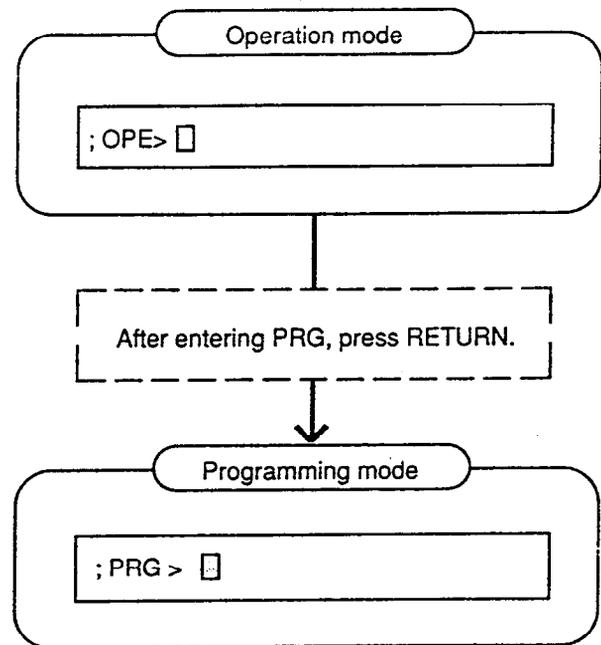
- Changing Programming mode to Operation mode



The system prompt changes from PRG> to OPE>.

The current mode now is the Operation Mode.

- Changing Operation mode to Programming mode



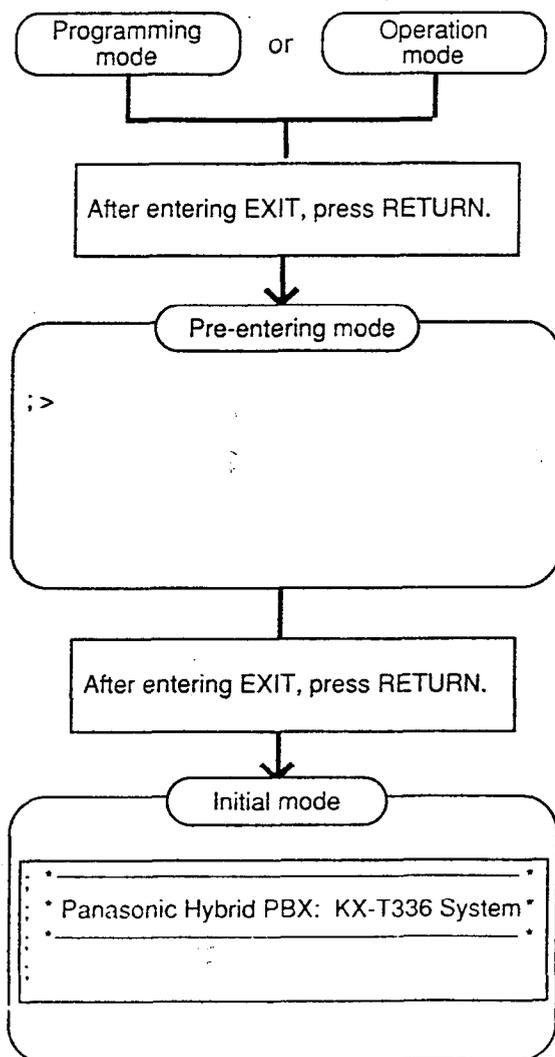
The system prompt changes from OPE> to PRG>.

The current mode now is the Programming Mode.

2.00 Finishing a Mode

2.01 EXIT

The flow chart below shows how to conclude the Programming mode or the Operation mode and return to the Initial mode.



2.02 Restart

Description

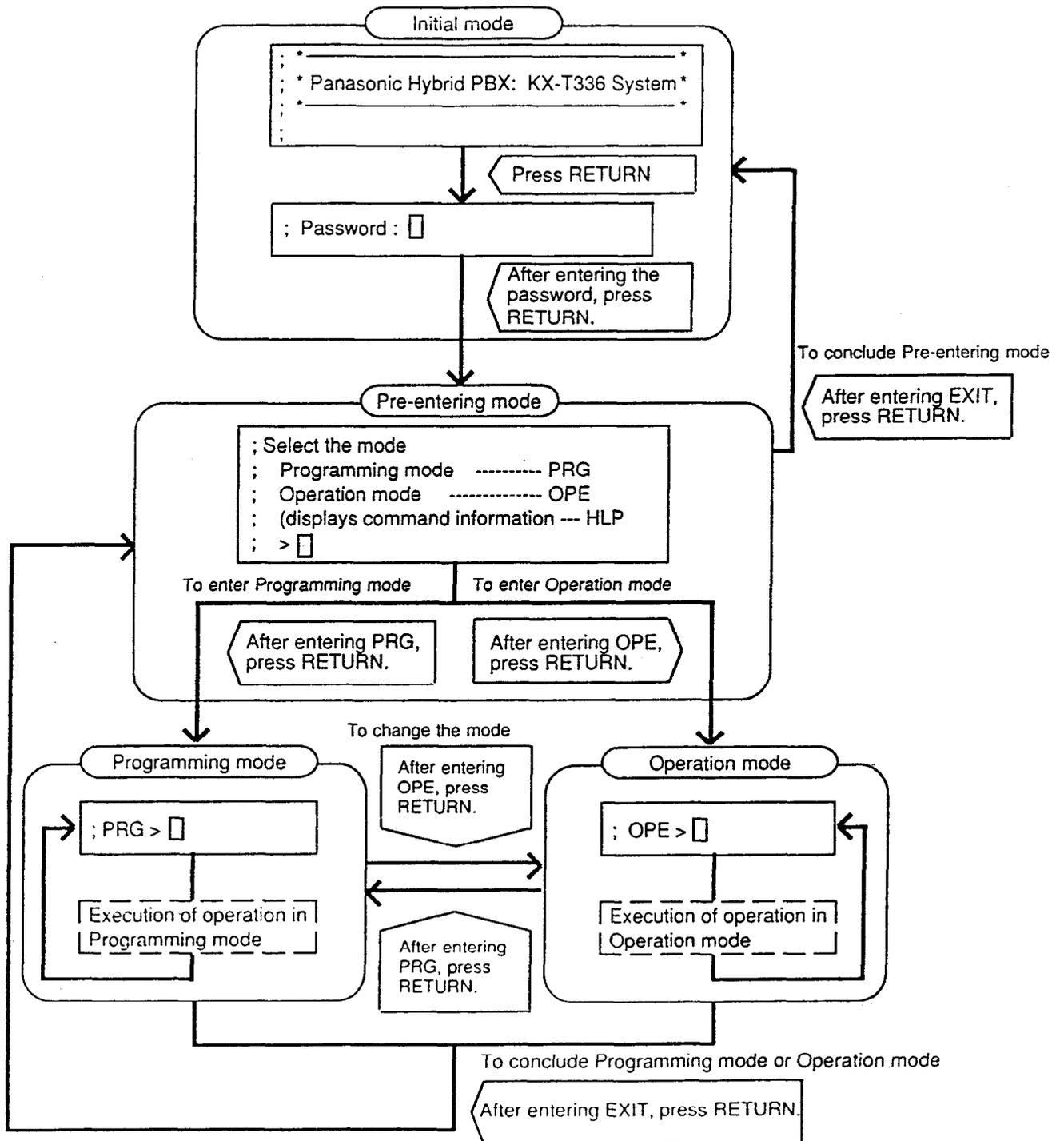
Initializes the whole system. Same condition as the RESET button is pressed.
(Password level : One)

Input Format

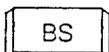
; OPE > RST ←

3.00 Flow Chart for Changing Modes

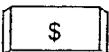
The procedure for changing modes is illustrated below:



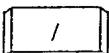
C. Fixed Key Operation



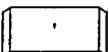
Moves the cursor one character left and deletes the character in that position.



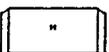
Function command key used for concluding AT or BT mode with characters (\$EOD) or (\$CPY) etc. For details, refer to Section 8-E "Function Commands."



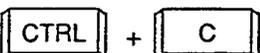
In BT mode, entered between indexes as a delimiter.



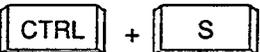
In BT mode, entered between items as a delimiter.



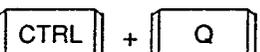
When entering characters such as names and locations etc., used for identifying them.



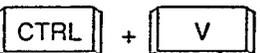
Cancels an operation during programming.



Stops scrolling information on the screen to let you view it.



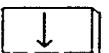
Resumes screen scrolling.



Changes the mode to VT mode.



Repeats the execution of the last entered command.



Cancels the command line and displays the prompt.

D. Input Format-General

1.00 Programming Mode

Input Format-General

In the programming mode (when PRG>□ is displayed on the screen), enter as follows:

```

1       2       3
: PRG> Command Type of Mode Index Number
4
      Item Number Carriage Return (CR)↵
  
```

Note: Be sure to enter one space between the items.

The (↵) in the followings indicates pressing the RETURN key.

<Example>

Displaying "Operation (OPR)" command, SMDR (Index number 2, Item number 02)

Enter as follows:

```
: PRG>OPR SH 2 02 (↵)
```



Displays the following:

```

: INDEX=2
: 02 : SMDR      → Y
: PRG> □
  
```

1. Commands

The following programming commands are available in the programming mode. Enter a command depending on a programming. For further information about programming, refer to Section 10 "System Programming-Dumb Type Terminal."

Programming	Command
System Assignment	SYA
Slot Assignment	SLA
DN Assignment	DNA
Operation	OPR
Tenant	TNN
System Timer	TIM
Class of Service 1	CS1
Class of Service 2	CS2
Local Access Group	LAG
Numbering Plan	NBP
Communication Interface	COM
Speed Dialing-System	SPD
Absent Message	ABS
Trunk Group 1	TG1
Trunk Group 2	TG2
ICM/Paging Group	IPG
Call Pickup Group	CPG
CO Line	COL
External Pager	PAG
Music Source	MUS
Auto Gain Control	AGC
Extension	EXT
DSS Console	DSS
DN Button Assignment	DNK
PF Button Assignment	PFK
DSS Button Assignment	DSK
Doorphone	DPH
Attendant Console	ATT
Attendant Queue Priority	AQP
Equal Access	EQU
OCC Access	OCC
Toll Restriction 1	TR1
Toll Restriction 2	TR2
Toll Restriction 3	TR3
Automatic Route Selection 1	AR1
Automatic Route Selection 2	AR2
Automatic Route Selection 3	AR3
Automatic Route Selection 4	AR4
Automatic Route Selection 5	AR5
DISA	DIS
DISA Code	DIC
DISA Password	DIP
DID	DID
UCD 1	UC1
UCD 2	UC2
Information	INF
Power Failure Transfer	PFT
Change Password	CHG
CPC Detect Time-Outgoing	CPC
Automatic Busy-out Count	ABC
World Select 1	WS1
World Select 2	WS2
World Select 3	WS3
Voice Mail Directory number	VMD
Mail Box Number	MBN
Speed Dialing Boundary	SPB
Account Code Verified	ACV
Account Code Entry on Long	ACL
Distance Calls	
CO Access Instantly	CAI
Night Answer Group	NAG
Polarity Reversal Detection	PRD
Waiting Second Dial Tone	WSD

2.Type of Mode

Three types of Show type, Auto type and Batch type are available.

1) Show Type-SH

Enables you only to read the preset data. The preset data cannot be changed by this type.

<Example>

Displaying the data in System Assignment

Enter:

; PRG>SYA SH (↵)



Displays the follows:

```
; 1 Expansion Shelf    → N
; 2 Additional CONF   → N
; PRG> [ ]
```

2) Auto Type-AT

Enables you to show or edit the data in an interactive format.

Showing the data

Each item appears one by one by every pressing of the RETURN key.

Editing the data

If you do not want to change the data, press the RETURN key when ; INPUT>>[] is displayed.

If you want to change the data, enter the appropriate values after ; INPUT>>[], then press the RETURN key.

To save the data after changing it, be sure to enter \$EOD after ; INPUT>>[], then press the RETURN key.

<Example>

Changing the data in System Assignment

Enter:

; PRG>SYA AT (↵)



Displays:

```
; 1 Expansion shelf    → N
; INPUT>> [ ]
```

To change N to Y, enter Y (↵).



Next item appears:

```
; 2 Additional CONF   → Y
; INPUT>> [ ]
```

To save the data of item 1, enter \$EOD (↵):



Concludes AT mode

```
; PRG> [ ]
```

3) Batch Type-BT

Enables you to edit the data in batch processing.

Entry of data by batch type

- Enter comma (,) between items.
- Enter slash (/) between indexes.
- Enter only comma (,) or slash (/) when not entering the parameter.
The date of the parameter is not changed.
- To conclude BT mode in the middle of entry, enter \$EOD after the entry of comma (,) or slash (/).

<Example 1>

Entering External Pager (PAG) in Batch type mode

Enter:

; PRG>PAG BT (←↓)



Displays:

```
| PAG BT |
```

Enter the appropriate numbers and letters:

1, Y, 1, Y, Y (←↓)



Concludes Batch type mode

```
| : PRG |
```

<Example 2>

Concluding entry in the middle of the entry of operation (OPR) in the Batch type mode

Enter:

; PRG>OPR BT 1 (←↓)



Displays:

```
| OPR BT 1 |
```

Enter the appropriate data and concludes in the middle:

Y, Y, 2, P \$EOD (←↓)



Concludes Batch type mode

```
| : PRG |
```

3. Index Number

Enter the index number if required. For the commands without indexes and the commands which can omit the index numbers, entry of index number is not necessary. Refer to the list below.

When the index number is omitted, Item number should be also omitted.

(Commands without indexes)

SYA, TIM, LAG, NBP, ABS, ATT, TR3, INF, WS1, WS2, WS3

(Commands possible to omit the Index number)

SLA, COM, CPG, PAG, MUS, DPH, DIC, DIP, DID, UC1, UC2, PFT

4. Item Number

Enter when you want to specify an item number. Possible to be omitted in all commands.

2.00 Operation Mode

Input Format-General

In the operation mode (when ; OPE> □ is displayed on the screen), enter as follows:

```

; OPE> 1 Command ( 2 Index Number ) ( 3 Item 1 )
        ( item 2 ) .....+ ( item n )
        Carriage Return (CR)(↵)
    
```

Note: Be sure to enter one space between the items.
The (↵) in the followings indicates pressing the RETURN key.

<Example>
Displaying the first half of Traffic Information
(Index number 1)

Enter:
; OPE> TFD 1 1 (↵)

↓ The following information appears:

Traffic Information - Station (1/2)						
Feb. 22 1990						
Start Time	9:00AM	10:00AM	11:00AM	12:00AM	1:00AM	2:00AM
Incoming Calls	498	637	590	120	803	760
Answer Calls	360	503	476	88	711	662
Outgoing Calls	405	602	555	103	763	731
Completed Calls	241	430	411	48	509	500
CCS	723	811	780	230	998	889
Start Time	3:00PM	4:00PM	5:00PM	6:00PM	7:00PM	8:00PM
Incoming Calls	632	721	611	598	420	311
Answer Calls	531	603	482	442	289	192
Outgoing Calls	600	654	600	531	301	191
Completed Calls	442	488	503	461	188	119
CCS	800	830	762	750	680	620

1. Commands

The following operation commands are available in Operation mode. Enter a command depending on an operation.

Operation	Command
Test	TST
System Maintenance Monitor	SYM
In Service	INS
Out of Service	OUS
Remove	REM
Error Log Display	ERR
Traffic Display	TFD
Print Out	PRT
Set Date and Time	SDT
System Programming Data and Attendant Console Database Load	LOD
System Programming Data and Attendant Console Database Save	SAV
Change Level	CHL
Show Level	SHL
Restart	RST

2. Index Number

When the command is provided with indexes, enter the index number. For the command without indexes or the command which is able to omit the index number, entry of Index number is not necessary.

(Commands without indexes)
SDT, LOD, SAV, CHL, RST

(Command which is able to omit the index number)
PRT

3. Item 1 to item n

Enter the value depending on the item.
Do not enter the item number for the command without items.

(Commands without items)
SYM, PRT, CHL, SHL, RST

Reference

For details about the following commands, refer to:

TST	Section 15-E-3.00 "TST command (Test)"
SYM	Section 15-F-1.00 "SYM command (System Maintenance Monitor)"
ERR	Section 15-D-1.02 "Error Log"
TFD	Section 15-F-2.00 "TFD command (Traffic Display)"
SAV	Section 16-B-4.01 "Saving Procedure"
	Section 17-B-2.01 "Saving Procedure"
LOD	Section 16-B-4.02 "Loading Procedure"
	Section 17-B-2.02 "Loading Procedure"
RST	Section 8-B-2.02 "Restart"

E. Function Commands

In Auto type (AT) and Batch type (BT) modes of Programming mode, the following function commands are used for ending the modes, copying data and so on.

For details about types of modes, refer to Section 8-D-1.00 "Programming Mode."

1.00

- In AT mode

After storing data, concludes AT mode.
Enter this command after "INPUT<<□" is displayed.

- In BT mode

Concludes BT mode in the middle of entry.
Be sure to enter this command after comma (,) or slash (/).

2.00

In AT mode, this command enables you to read the desired item immediately.

This function is effective for all the commands provided with items.

<Example>

Reading Operation command Index 1, Item 17
(FDN for General Operator Call)

If the following is already displayed:

```
; INDEX=1  
; 01 : Tenant Service      → Y  
; INPUT>> □
```



Enter:
\$J17 (←↵)

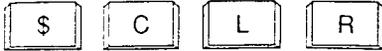


Displays:

```
; 17 : FDN for General Operator Call →  
; INPUT>> □
```

Every pressing of the RETURN key displays the next item. After the last item is displayed, the first item is displayed by pressing the RETURN key.

3.00



Clears data (no data setting) in AT and BT modes. This function is effective for the following item numbers of the respective command. To execute the clearing function, make sure to enter \$EOD after \$CLR.

Command	Item number
OPR (Index 2)	13, 14, 17
TNN	04 to 19
LAG	03 to 18
NBP	01 to 87
SPD	2
ABS	07 to 16
TG1	02
TG2	10 to 25
COL	2
EXT	05, 06
DNK	04, 09, 14, 19, 24, 29, 34, 39, 44, 49, 54
PFK	02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32
DSK	02, 04, 06, 08, 10, ..., 64
EQU	02, 07, 09, 11
OCC	02, 07, 09, 11
AR2	001
AR3	01 to 32
AR4	01 to 14
AR5	2
DIP	1 to 8
DID	3
INF	01 to 10
PFT	1, 2

<Example>

Clearing "Operation" Index 2, Item 13 Start Time of Traffic Measurement.

- In AT mode

Enter as follows:

; PRG>OPR AT 2 13 (↵)

↓ Displays the following:

```

; INDEX:2
; 13 : Start Time of Traffic Measurement → 09:00A
; INPUT:>> □
    
```



Enter:

\$CLR (↵)

↓ Displays:

```

; 14 : Start Time of Test →
; INPUT:>> □
    
```



Enter:

\$EOD (↵)



The value "09:00A" is cleared from "13: Start Time of Traffic Measurement" and concludes this mode:

```

; PRG> □
    
```

- In BT mode

Enter:

; PRG>OPR BT2 13 (↵)

↓ Displays:

```

OPR BT2 13
    
```

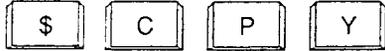


Enter

\$CLR (↵)

The value of item 13 is cleared.

4.00



In AT and BT modes, copies the setting data.
This function is effective for the following index numbers of the respective command.

Command	Index number
CS1	01 to 32
CS2	01 to 32
TR1	* 1 to 8 or Entry number 200 to 999
TR2	01 to 64
AR1	200 to 999
AR2	01 to 32
AR3	01 to 32
AR4	01 to 64

* See Note on the next page.

Input Format

```
$CPY XXX XXX-XXX
      ↓ ↓ ↓
      <1> <2> <3>
```

<1> Enter the index number of copy source data.

<2> <3> Enter the first and last index numbers.

Note: Enter the index numbers in ascending order.
If you want to copy the source data to one destination, enter the same index numbers into <2> and <3>.

In AT mode, enter \$CPY when the first item is displayed. Copying is unavailable after the entry of another item.

<Example>

Copying the data of "Class of Service No.1" to "Class of Service No.2."

• In AT mode

Enter:
; PRG>CS1 AT 01 (↵)

↓ Displays:

```
; Class of Service No. 01
; 01:Toll Restriction Level (Day) → 08
; INPUT>>□
```



Enter:
\$CPY 01 02-02 (↵)



CS No.1 is copied to No.2 and displays like the following:

```
; Class of Service No. 01
; 01:Toll Restriction Level (Day) → 08
; INPUT>>□
```

• In BT (Batch type) mode

Enter:
; PRG>CS1 BT 01 (↵)



Displays:

```
CS1 BT01
```



Enter:
\$CPY 01 02-02 (↵)
The data of "Class of Service No.1" is copied to that of No.2

Note: In TR1 command, copying by the Index number or the entry number is available.
In this case, the input format is as follows:

```
$CPY 1 or 2 XXX XXX-XXX
```

Enter 1 to copy by the entry number.
Enter 2 to copy by the index number.

<Example>

Copying data of entry number 200 to entry numbers 201 through 900, enter as follows:

```
$CPY 1 200 201-900
```

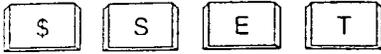
↳ by Entry number

Copying data of Index numbers 1 to Index number 2 through 8, enter as follows:

```
$CPY 2 1 2-8
```

↳ by Index number

5.00



In AT and BT modes, used for the entry numbers 200 through 999 in TR 2 and AR2 commands, to set "Y" or "N" to all the entry numbers that you designated.

Input Format

```
$SET  XXX  Y/N
      ↓    ↓
      <1> <2>
```

<1> Enter the Entry number that you want to set. When you want to designate multiple numbers, use N, P, X.

N: designates 2 through 9
 P: 0 and 1
 X: 0 through 9.

<Example>

When specifying 200 through 209, enter:
 20X

When specifying 200 through 999, enter:
 NXX

When specifying 200, 300, 400, ..., 800, 900, enter:
 N00

<2> Set "Y" or "N".

In AT mode, enter the number while the first item is displayed. \$SET is ineffective after entering another item.

<Example>

Setting all the entry numbers in the Index number 1 of AR2 to "N."

• In AT mode

Enter:
 ; PRG>AR2 AT 01 (←↓)

↓ Displays:

```
: Office Code Table No. 01
: 001 : Area code          → Y
: INPUT>> □
```



Enter:
 \$SET NXX N (←↓)

↓ All the entry numbers are set to "N" and displays:

```
: Office Code Table No. 01
: 001 : Area code          → N
: INPUT>> □
```

• In BT (Batch type) mode

Enter:
 ; PRG>AR2 BT 02 (←↓)

↓ Displays:

```
AR2 BT 02
```



Enter:
 \$SET NXX N (←↓)
 All the entry numbers are set to "N."

6.00 \$ C N F

Used in AT mode, and sets the Telephone Type of the extension and DSS consoles automatically.

<Example>

When the telephone type of DN 103 is set to "2" (PITS) and actually connected telephone type is "1" (SLT).

Enter:

; PRG>EXT AT DN 103 (↵)



Displays:

```

; 01 : Telephone Type      → 2
; INPUT >> 
```



Enter:
\$CNF



Telephone Type changes to "1" automatically and displays:

```

; 01 : Telephone Type      → 1
; INPUT >> 
```

F. Maintenance Command

1.00 Change Level (CHL)

Description

Allows you to change the password level.
(Password level : Four or higher)

Input Format

; OPE> CHL 

After pressing the RETURN key and “= 

2.00 Show Level (SHL)

Description

Allows you to confirm the current password level.
(Password level : Four or higher)

Input Format

; OPE> SHL 

3.00 In Service (INS)

Description

Allows you to change the status of shelves, cards, ports and stations from "Out of Service" to "In Service."

The system should be in on-line communication mode.

For changing lower devices such as stations and ports etc. to "In Service," upper devices such as

cards and shelves should be "In Service" already.
(Password level : Two or higher)
For further information about In Service, refer to Section 15-C-1.01 "INS (In Service) command."

Input Format

; OPE>

Device	Item Number	Explanation
Shelf	1 to 3	Physical number 1: Basic Shelf 2: Expansion Shelf 1 3: Expansion Shelf 2
Card	101 to 315	Physical number 101 to 112: Service Cards in the Basic Shelf 201 to 215: Service Cards in the Expansion Shelf 1 301 to 315: Service Cards in the Expansion Shelf 2
Port	1011 to 3158	Physical number 1011 to 1128: Port number assigned to Service Cards in the Basic Shelf 2011 to 2158: Port number assigned to Service Cards in the Expansion Shelf 1 3011 to 3158: Port number assigned to Service Cards in the Expansion Shelf 2
Station	DNXXXX or 1011 to 3158	Extension directory number (XXXX: three or four digit number) Physical number
Attendant Console	A1 or A2 1011 to 3158	Attendant Console number Port physical number
DTMF Receiver	Rxxxy	xxx:card physical number (101 to 315) y:1 or 2
Conference Trunk	CFBxx(01 to 08) CFOyy(01 to 64)	Basic conference trunk number Optional conference trunk number

4.00 Out of Service (OUS)

Description

Allows you to change the status of cards, ports and stations from "In Service" to "Out of Service." The system should be in on-line communication mode.

When setting the shelves or cards to "Out of Service," then lower devices, such as stations, ports etc. become "Out of Service" automatically. (Password level : Two or higher)

For further information about Out of Service, refer to Section 15-C-1.02 "OUS (Out of Service) command."

Input Format

; OPE>

Item numbers are same as those listed in 3.00 "In Service (INS)" on the previous page.

5.00 Remove (REM)

Description

Enables you to delete the stored system programming data by specifying stations, Attendant Consoles and so on.

The system should be in on-line communication mode.

Specified terminal must be in Out of Service. (Password level:one)

Before you detach the installed devices, remove the system programming data of associated device using this command.

Input Format

; OPE>

Device	Item Number	Explanation
Port	1011 to 3158	Physical number
Station	DN XXXX or 1011 to 3158	Extension directory number (XXXX: three or four digit number) Physical number
Attendant console	A1 or A2 or 1011 to 3158	Attendant Console number Physical number

6.00 Print Out (PRT)

Description

You can print out the system programming data, system status, error log, and traffic information respectively by entering one of the print out commands described in the following Input Format.

Input Format

1. Printing out the system programming data associated with all commands of programming mode.

; OPE> ()

2. Printing out the system programming data by specifying a command name.

(Example)
; OPE>

; OPE>

3. Printing out the data by specifying the index number.

; OPE>

(Example)

; OPE>

; OPE>

4. Stopping the print out.

; OPE>

7.00 Set Date and Time (SDT)

Description

Allows you to set the date and time

Input Format

; OPE>

All items from 1 through 7 must be entered.

Item	Assigning Item	Input Value
1	Year	XX: last two digits of the year
2	Month	01 to 12: Jan. through Dec.
3	Day	01 to 31
4	Week	1 : Sunday 2 : Monday 3 : Tuesday 4 : Wednesday 5 : Thursday 6 : Friday 7 : Saturday
5	Hour	01 to 12
6	Minute	00 to 59
7	AM/PM	1: a.m. 2: p.m.

For only reading the preset data, enter ;

OPE>

G. Help Function

1.00 Programming Mode

Description

Used to display brief instructions and a list of commands available in the Programming Mode.

Input Format

; PRG>

Display

```
; PRG>HLP<CR>
: << Command + Type + (Index) + (Item No.) >>
: Command are..
: SYA ...System Assignment          SLA ...Slot Assignment
: DNA ...DN Assignment              OPR ...Operation
: TNN ...Tenant                     TIM ...System Timer
: CS1 ...Class of Service (1/2)     CS2 ...Class of Service (2/2)
: LAG ...Local Access Group         NBP ...Numbering Plan
: COM ...Communication Interface     SPD ...Speed Dialing-System
: ABS ...Absent Message             TG1 ...Trunk Group (1/2)
: TG2 ...Trunk Group (2/2)         IPG ...ICMPaging Group
: CPG ...Call Pickup Group          COL ...CO Line
: PAG ...External Paging            MUS ...Music Source
: AGC ...AGC                        EXT ...Station
: DSS ...DSS Console                DNK ...Station DN-Key Assignment
: PFK ...Station/DSS PF-key Assignment DSK ...Station/DSS DSS-Key Assignment
: DPH ...Doorphone                 ATT ...Attendant Console
: AQP ...Attendant Que Priority      EQU ...Equal Access
: OCC ...OCC Access                 TR1 ...TRS Area/Office Code Table
: TR2 ...TRS Office Code Tables     TR3 ...TRS 7/10 Digit Table
: AR1 ...ARS Leading Digit Table    AR2 ...ARS Office Code Tables
: AR3 ...ARS Route Plan Tables      AR4 ...ARS Route List Table
: AR5 ...ARS Modified Digit Table   DIS ...DISA
: DIC ...DISA Code                  DIP ...DISA Password
: DID ...DID                         UC1 ...UCD (1/2)
: UC2 ...UCD (2/2)                  INF ...Installation Information
: PFT ...Power Failure Transfer     CHG ...Change Password
: Type are...
: SH ...Show Type   AT...Auto Advance Set Type   BT...Batch Set Type
: PRG>
```

(Note)

The following commands are available in the Programming Mode, however, not displayed in the HELP screen above.

CPC	SPB
ABC	ACV
WS1	ACL
WS2	CAI
WS3	NAG
VMD	PRD
MBN	WSD

2.00 Operation Mode

Description

Used to display brief instructions and a list of commands available in the Operation Mode.

Input Format

; OPE>

Display

```
; OPE>HLP<CR>
: << Command + (Index) + (Item No.1) + (Item No.2) + ---- + (Item No.n) >>
: Command are..
: TST ...Test                       SYM ...System Maintenance Monitor
: INS ...In Service                 OUS ...Out of Service
: REM ...Remove                     ERR ...Display Error Log
: TFD ...Traffic Display            PRT ...Print Out
: SDT ...Set Date and Time          LOD ...Initial Program Load
: SAV ...Program Data Save          CHL ...Change Level
: SHL ...Show Level                 RST ...Restart
: OPE>
```

Section 9

System Programming

VT220 and Compatibles

System Programming

VT220 and Compatibles

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1.01 Station (1/3)	9-G-1
1.02 Station (2/3)	9-G-7
1.03 Station (3/3)	9-G-12
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2.02 DSS Console (2/3)	9-G-18
2.03 DSS Console (3/3)	9-G-21
3.00 Doorphone	9-G-24
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H Special Carrier Access Screen	9-H-1
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	Page
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A. Introduction

This section provides system programming using VT compatible terminals. Before starting system programming, Section 7 "Preparation for Programming and Maintenance (VT220 and Compatibles)" must be read. This section provides the basic operations required for system programming.

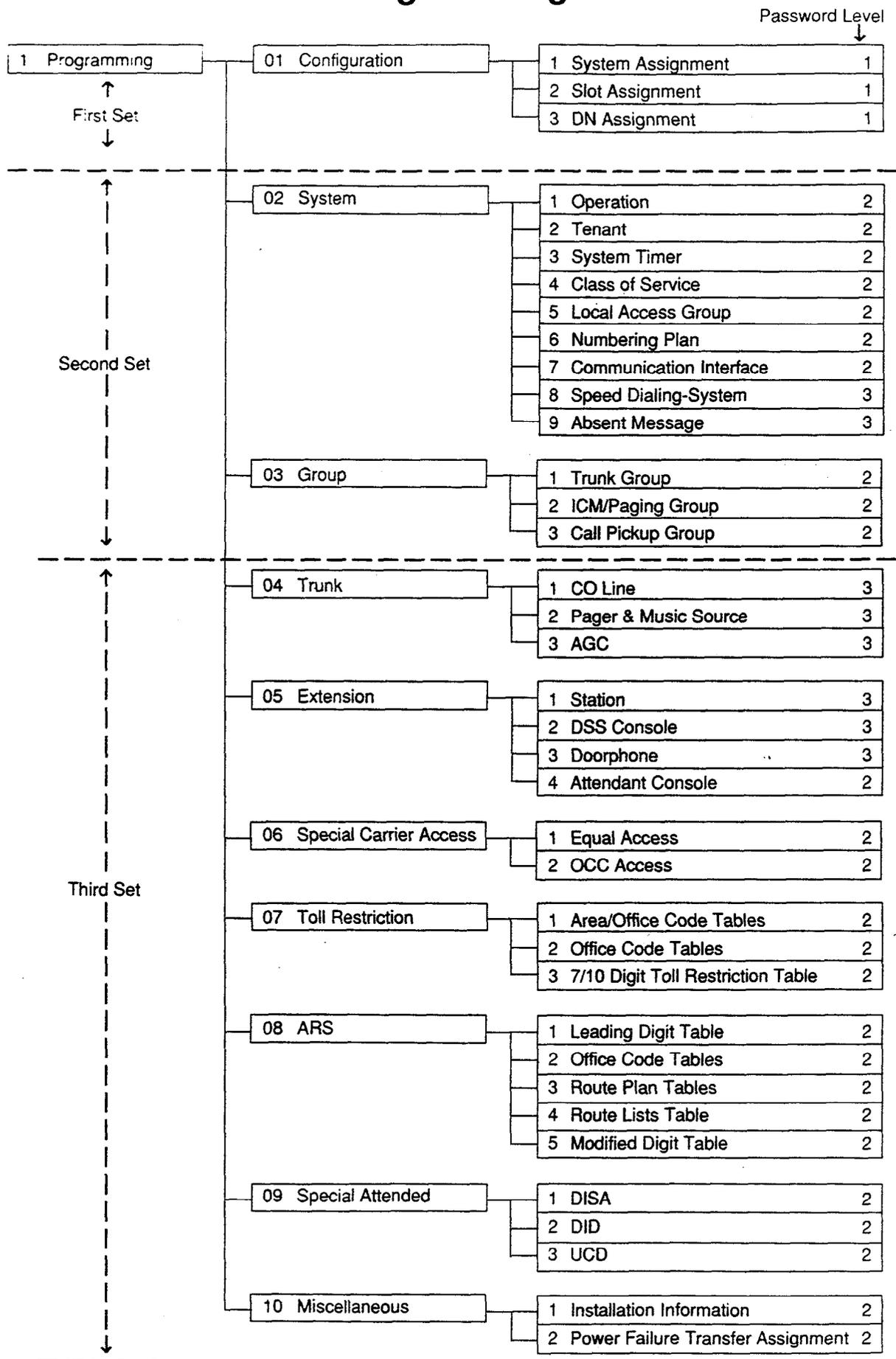
Programming consists of 10 submenu screens and each submenu consists of various setting screens.

The setting screens are used to assign or change various parameters concerning the system administration such as Tenant, Class of Service, Numbering Plan and so on.

The setting screens should be programmed in order of "First Set," "Second Set" and "Third Set" which is illustrated in "Construction of Programming Mode" on the following page. If you program a screen in the second set before setting the first-set screens, an error message will appear. For example, if you program "Extension" before programming "Configuration-DN Assignment," an error message is displayed.

In this section, each setting screen is explained using a screen and an explanation table.

B. Construction of Programming Mode



Description of Assigning Items

Expansion Shelf	Enables the expansion shelf 1 when set to "1 Shelf" and both expansion shelves 1 and 2 when set to "2 Shelves."
TSW Additional CONF	Enables the expansion of conference trunks when set to "Yes."

Conditions

None

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

2.00 Slot Assignment

Configuration - Slot Assignment								OFL	PRG	SCR	SEL
Basic	FS01	PLC	Expansion	FS01	PLC	Expansion	FS01	LCOT			
Shelf	FS02	PLC	Shelf 1	FS02	PLC	Shelf 2	FS02	LCOT			
	FS03	PLC		FS03	PLC		FS03	LCOT			
	FS04	PLC		FS04	PLC		FS04	LCOT			
	FS05	PLC		FS05	PLC		FS05	LCOT			
	FS06	PLC		FS06	PLC		FS06	LCOT			
	FS07	PLC		FS07	PLC		FS07	LCOT			
	FS08	PLC		FS08	PLC		FS08	LCOT			
	FS09	PLC		FS09	PLC		FS09	LCOT			
	FS10	PLC		FS10	PLC		FS10	LCOT			
	FS11	PLC		FS11	PLC		FS11	LCOT			
	FS12	PLC		FS12	LCOT		FS12	LCOT			
	BS01	CPU		FS13	LCOT		FS13	ATLC			
	BS02	OHCA		FS14	LCOT		FS14	DPH			
	BS03	TSW		FS15	LCOT		FS15	RMT			

FS: Free Slot, BS: Basic Slot

COMMON HRD CPY

Summary

Assigns the type of service cards, inserted in the free slots in the basic and expansion shelves.

(Password level : One)

Assigning Items	Default	Selection of Value	Reference
Basic Shelf FS (01 to 12)	Automatic set	Blank : Not assigned PLC : Proprietary Integrated Telephone System Line Circuit card HLC : Hybrid Line Circuit card SLC : Single Line Telephone Circuit card SLC : SLC card with Message Waiting LCOT : Loop Start Central Office Trunk card LCOT : R-LCOT card GCOT : Ground Start Central Office Trunk card DID : Direct Inward Dialing card AGC : Automatic Gain Control card DISA : Direct Inward System Access card OPX : Off Premise Extension card ATLC : Attendant Console Line Circuit card DPH : Door Phone Circuit card RMT : Remote Circuit card	1-A-5.00 1-E-1.00 to 2.00 1-E-7.00 to 21.00

Continued

Assigning Items	Default	Selection of Value	Reference
Basic Shelf BS (02)	Automatic set	Blank : Not assigned OHCA : T-SW Off-Hook Call Announcement card	1-A-5.00 1-E-1.00 to 2.00 1-E-7.00 to 21.00
Expansion Shelf 1 FS (01 to 15)	Automatic set	Same as Basic Shelf FS	
Expansion Shelf 2 FS (01 to 15)	Automatic set	Same as Basic Shelf FS	

Description of Assigning Items

- Basic Shelf FS (01 to 12) Defines the type of card installed in the free slots (01 to 12) of the basic shelf.
- Basic Shelf BS (02) Used to utilize the T-SW OHCA card or not.
- Expansion Shelf 1 FS (01 to 15) Defines the type of card installed in the free slots (01 to 15) of the expansion shelf 1.
- Expansion Shelf 2 FS (01 to 15) Defines the type of card installed in the free slots (01 to 15) of the expansion shelf 2.

Conditions

The cursor does not move to BS01 and BS03.
In BS02, assignable value is OHCA or Blank.

If no CO trunk card (LCOT, GCOT, DID) is assigned, "Trunk-CO Line" screen cannot be selected.

If no Extension card (PLC, SLC, HLC, OPX) is assigned, "Extension-Station" screen cannot be selected.

If AGC card is not assigned, "Trunk-AGC" screen cannot be selected.

If DPH card is not assigned, "Extension-Doorphone" screen cannot be selected.

If ATLC card is not assigned, "Extension-Attendant Console" screen cannot be selected.

If DISA card is not assigned, "Special Attended-DISA" screen cannot be selected.

If DID card is not assigned, "Special Attended-DID" screen cannot be selected.

When assigning a card, the card status is Out of Service (OUS). When utilizing the card, the card status should be set to In Service (INS).

For In Service (INS) and Out of Service (OUS), refer to Section 7-J-4.00 "INS (In Service)" and Section 7-J-5.00 "OUS (Out of Service)."

For confirming whether the card status is INS or OUS, refer to Section 14-G-3.02 "Card Status screen."

When deleting (selecting blank) or changing the pre-assigned card type, the conditions should be the followings:

- The card status is OUS or Fault.
- All of the port data has been deleted.

However, if there exist port data, it is possible to change the cards as follows:

- PLC card ↔ HLC card
- SLC card ↔ HLC card

Deleting the ATLC card will be an error if there is one of the following assignments:

- "Group-Trunk Group",
Incoming Mode (Day) is set to "ATT."
Intercept Routing (Day) is set to "ATT."
- "Extension-Doorphone",
Doorphone Call Assignment is set to "ATT."

Deleting the DISA card will be an error if there is one of the following assignments:

- "Group-Trunk Group",
Incoming Mode (Day) is set to "DISA."
Incoming Mode (Night) is set to "DISA."

Deleting the HLC, SLC, LCOT or GCOT card will be an error if there is the following assignment to the slot to be deleted:

- Miscellaneous-Power Failure Transfer Assignment.

See Section 1-A-5.00 "Service Cards Description" for installing the cards in combination.

<Card type display>

- "SLC" is displayed:
When SLC card (KX-T96174) or SLC card with Message Waiting (KX-T96175) is inserted.
- "LCOT" is displayed:
When LCOT card (KX-T96180) or R-LCOT card (KX-T96183) is inserted.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-I "Operation of Function Keys."

3.00 DN Assignment

Configuration - DN Assignment										OFL	PRG	SCR	DIR
Slot No.	SLC	PLC	HLC	OPX	-	-	-	-	-	-	-	-	-
101	102	103	104	-	-	-	-	-	-	-	-	-	-
Port	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN
1	2101	3101	4101	501	-	-	-	-	-	-	-	-	-
2	2102	3102	4102	502	-	-	-	-	-	-	-	-	-
3	2103	3103	4103	503	-	-	-	-	-	-	-	-	-
4	2104	3104	4104	504	-	-	-	-	-	-	-	-	-
5	2105	3105	4105	-	-	-	-	-	-	-	-	-	-
6	2106	3106	4106	-	-	-	-	-	-	-	-	-	-
7	2107	3107	4107	-	-	-	-	-	-	-	-	-	-
8		3108	4108	-	-	-	-	-	-	-	-	-	-

COMMON 2 5 HRD CPY 7 8

Summary

Assigns a DN (directory number) to each extension port.

Four DN Assignment screens are provided.
(Password level : One)

Assigning Items	Default	Selection of Value	Reference
DN	100 to 387 in physical number order	Three or four numeric digits : directory number	3-B-2.00

Description of Assigning Item

DN Assigns a default directory number to every port of installed extension cards.

Conditions

If no Extension card (PLC, SLC, HLC, OPX) is assigned, DN assignment screen will not be displayed.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-I "Operation of Function Keys."

D. System Screen

1.00 Operation

1.01 Operation (1/3)

```

System - Operation | OFL | PRG | SCR | SEL
-----+-----+-----+-----+-----
                                Operation (1/3)
-----+-----+-----+-----+-----
| Tenant Service -----| Yes
| Automatic Route Selection -----| Yes
| Numbering Plan -----| Flex
| Privacy on DN Key -----| Yes
| Restriction Level - Operator -----| 06
| Restriction Level - International -| 05
| Home Dialing Plan -----| Type-A
| DSS Operation Mode -----| With Transfer
| Busy Tone -----| Tone-1
| Held Call Reminder -----| Yes
| Beep Tone for Bsy-ovr/Brg-in -----| Yes
| External Paging 1 , 2 -----| Yes , Yes
| External Music Source 1 , 2 -----| Yes , Yes
| Idle Line Preference -----| DN
| FDN for General Operator Call -----| 1234 , 5678
-----+-----+-----+-----+-----
COMMON | | | | | HRD CPY | |
  
```

Summary

Assigns elemental data common to the whole system, such as Tenant Service, Automatic Route Selection, etc., through the first System-

Operation screen. This is the first of three screens.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Tenant Service	No	No : Tenant Service is unavailable Yes : Tenant Service enabled	3-B-4.00
Automatic Route Selection	No	Yes : Automatic Route Selection enabled No : Automatic Route Selection is unavailable	3-C-2.00 4-C-3.01 5-A-1.01 6-D-1.01
Numbering Plan	Fixed 1	Flex : feature numbers can be changed Fixed 1 : feature numbers are set to Default 1 Fixed 2 : feature numbers are set to Default 2	3-B-1.00
Privacy on DN Key	Yes	No : barge in allowed (privacy disabled) Yes : barge in disallowed (privacy enabled)	4-G-1.00 4-G-2.00 4-G-3.00
Restriction Level-Operator	01	01 to 16 : the restriction level for a telephone company operator call	3-C-1.05

Continued

Assigning Items	Default	Selection of Value	Reference
Restriction Level-International	01	01 to 16 : the restriction level for an international call	3-C-1.05
Home Dialing Plan	Type-A	Type-A : long distance call 1+NPA+NXX+XXXX local call NXX+XXXX Type-B : long distance call NPA+NXX+XXXX local call NNX+XXXX Type-C : long distance call 1+NPA+NXX+XXXX 1+ NNX+XXXX local call NNX+XXXX { NPA:Area code, NXX, NNX: Office code XXXX: Subscriber number N : 2 to 9, P : 0,1, A=0 to 9, X : 0 to 9 }	3-C-1.02 3-C-1.04 3-C-1.06 3-C-1.07 3-C-2.00
DSS Operation Mode	With Transfer	With Transfer : hold and transfer Without Transfer : disconnect and call	4-I-12.01
Busy Tone	Tone-2	Tone-1 : busy tone 1 Tone-2 : busy tone 2	3-B-14.00
Held Call Reminder	Yes	Yes : Held Call Reminder is enabled. No : Held Call Reminder is not enabled.	3-E-2.00
Beep Tone for Bsy-ovr / Brg-in	Yes	Yes : overriding with beep tone No : overriding without beep tone	3-B-15.00 4-C-7.00 5-A-5.00 6-D-4.00
External Paging 1, 2	Yes, Yes	Yes : using external pager 1, 2 No : not using external pager 1, 2	2-D-1.00 3-B-8.02 3-D-2.04 4-D-4.00 4-H-1.03 4-H-1.04 4-H-2.00 5-B-2.00 5-F-1.03 5-F-1.04 5-F-2.00 6-I-1.03 6-I-1.04 6-I-2.00

Continued

Assigning Items	Default	Selection of Value	Reference
External Music Source 1, 2	Yes, Yes	Yes : using external music source 1, 2 No : not using external music source 1, 2	2-D-2.00 3-E-1.00 4-H-2.00 4-I-4.00 5-F-2.00 6-I-2.00
Idle Line Preference	DN	DN : Off-hook selects an idle line by DN CO : Off-hook selects an idle line by CO	4-C-1.02 12-C-4.00
FDN for General Operator Call	blank	Three or four numeric digits : floating directory number for general operator call 1, 2	3-B-3.00 3-D-2.02 3-D-2.03 3-D-2.05 3-D-2.06 4-F-2.00 5-D-2.00

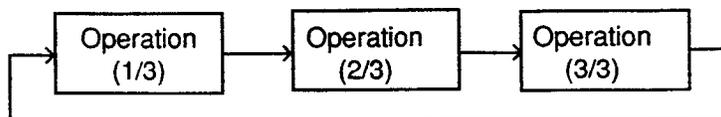
Description of Assigning Items

Tenant Service	Enables or disables the Tenant Service feature.
Automatic Route Selection	Enables or disables the ARS (Automatic Route Selection) feature.
Numbering Plan	Selects the type of numbering plan; The user can assign the desired feature numbers or use the default setting 1 or 2.
Privacy on DN Key	Determines whether or not a PITS telephone user is allowed to barge in on an existing conversation on a PDN, SDN or SCO button.
Restriction Level-Operator	Assigns the restriction level for calls to the telephone company operator from an extension.
Restriction Level-International	Assign the restriction level for international calls from an extension.
Home Dialing Plan	Selects the home dialing plan. This setting applies to ARS, EQA and OCC calls.
DSS Operation Mode	When "With Transfer" is selected, allows the DSS console operator to transfer the CO call to an extension user by simply pressing the associated DN•DSS button on the DSS console. When "Without Transfer" is selected the CO call is disconnected when the DN•DSS button is pressed.
Busy Tone	Selects busy tone 1 or 2. Busy tone 2 has a unique pattern allowing users with automatic release SLT's an extended amount of time to enter codes when encountering a busy party.
Held Call Reminder	When assigned to Yes, the system reminds the user that there is a call on hold. When disabled there is no reminder tone given to the user. In either case the call will be disconnected after 30 minutes if it is not retrieved.
Beep Tone for Bsy-ovr/ Brg-in	If "Yes" is selected, a beep tone will be heard when executing Busy Override or Barge-in. If "No" is selected, there will not be any tone heard when Busy Override or Barge-in is executed.
External Paging 1, 2	Assigns external pagers 1 and 2 .
External Music Source 1, 2	Assigns external music sources 1 and 2 .
Idle Line Preference	This assignment applies to a PITS telephone when "Idle Line Preference-Calling" is assigned on it. If "DN" is selected, an idle DN button is automatically seized by simply going off-hook, and an idle CO button is seized automatically if "CO" is selected.
FDN for General Operator Call	Assigns the FDN (Floating Directory Number) for General Operator Call. This is used for the following attendant-seeking calls: DID, DISA, Call Forwarding and Overflowed UCD calls. There are two entries to allow for two tenants.

Conditions

- Tenant Service
- If "No" is selected, some setting screens do not appear. Also some assigning items display "—," which indicates programming is impossible.
- Setting screens which do not appear are:
- "System-Tenant"
 - "Group-ICM/Paging Group"
- Assigning items which indicate "—" and cannot be programmed are:
- "Group-Trunk Group", Tenant
 - "Trunk-Pager & Music Source", Tenant
 - "Trunk-AGC", Tenant
 - "Extension-Doorphone", Tenant
 - "Special Attended-DISA", Tenant
- Automatic Route Selection
- If set to "No," it is impossible to program "Special Attended-DISA", ARS Override ("—" is displayed).
- Numbering Plan
- If set to "Flex," "System-Numbering Plan" is changeable.
- Home Dialing Plan
- Dialing Plan must be selected depending on the type of the area where this system is installed.
- Held Call Reminder
- If set to "No," Held Call Reminder does not function. However, programming the following items is possible:
- "System-System Timer", Held Call Reminder/Held Call Reminder (ATT)
 - "Extension-Attendant Console", Held Call Reminder
- External Paging 1, 2
- If set to "No," Paging through External Pagers does not function. However, it is possible to program the items below:
- "System-Class of Service", External Paging 1/2
 - "System-Numbering Plan", External Paging/External Paging Answer
- If either or both of the External Paging 1/2 are assigned to "No," the following item cannot be programmed ("—" appears on the item):
- "Trunk-Pager & Music Source", External Pager-Tone/BGM
- External Music Source 1, 2
- If either or both of the External Music Source 1/2 are assigned to "No," the following item cannot be programmed ("—" appears on the item):
- "Trunk-Pager & Music Source", Music Source-For Use
- If "No" is selected for all the four items of External Music Source 1/2, External Paging 1/2, the following screen does not appear:
- "Trunk-Pager & Music Source"

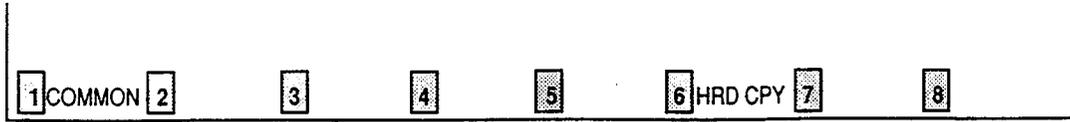
When pressing the NEXT key, this screen changes as follows:



Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

1.02 Operation (2/3)

```

System - Operation | GFL | PRG | SCR | SEL
-----|-----|-----|-----|-----
                                Operation (2/3)
-----|-----|-----|-----|-----
| System Administration Device -----| VT220
| SMDR -----| Yes
| Page Length (4-99) -----| 60
| Skip Perf (0-95) -----| 0
| Outgoing Duration Log -----| All Call
| Incoming Duration Log -----| Yes
| Attendant Duration -----| Separate
| Special Carrier Name -----| Default
| Print Secret Dial -----| Yes
| Error Log/Programming/Traffic ----| Yes, Yes, Yes
| Start Time of Traffic Measurement -| 12:00 AM
| Start Time of Test -----| 12:00 AM
| Remote Directory Number -----| 1234
| Remote Alarm -----| Yes
| Destination Address -----| 12345678901234567890123456
-----|-----|-----|-----|-----
COMMON | | | | | HRD CPY |
  
```

Summary

Assigns elemental data common to the whole system, such as System Administration Device, SMDR (Station Message Detail Recording),

parameters for SMDR, etc., through the second System-Operation screen.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
System Administration Device	Automatic set	VT220 : VT100/VT220 Terminal Dumb : Dumb Terminal ATT 1 : Attendant Console 1 ATT 2 : Attendant Console 2	1-A-3.00
SMDR	No	No : not using SMDR (Station Message Detail Recording) Yes : using SMDR	3-F-1.00 9-D-7.00
Page Length (4 to 99)	blank	4 to 99 : page length (number of lines)	3-F-1.00

Continued

Assigning Items	Default	Selection of Value	Reference
SMDR (cont.) Skip Perf (0 to 95)	blank	0 to 95: how many lines to skip • Note : in case of printing out system data : (page length)– (skip perforation) ≥ 23 in case of printing out call processing information : (page length)– (skip perforation) ≥ 6 in case of printing out error log (page length)– (skip perforation) ≥ 4	3-F-1.00
Outgoing Duration Log	blank	No : outgoing calls not printed All Call : print all outgoing calls Toll Only : print outgoing toll calls only	3-F-1.00
Incoming Duration Log	blank	No : incoming calls not printed Yes : print all incoming calls	3-F-1.00
Attendant Duration	blank	Separate : charge call duration to Attendant Console Summary : charge call duration to destination	3-F-1.00
Special Carrier Name	blank	Default : print default name; OC 1- 4, EQ1- 4 User Name: print user's name Dial No. : print dialed number	3-F-1.00
Print Secret Dial	blank	No : not printed Yes : print the secret dial numbers	3-F-1.00 4-I-5.00 6-J-3.00
Error Log /Programming/ Traffic	blank	No : do not print out these items Yes : print each item	3-F-1.00 7-D 14-D-1.02 14-G 15-D-1.02
Start Time of Traffic Measurement	blank	1 to12 : hour 00 to 59 : minute AM/PM : a.m. / p.m.	14-G-4.00 15-F-2.00
Start Time of Test	blank	1 to12 : hour 00 to 59 : minute AM/PM : a.m. / p.m.	14-D-1.01 15-D-1.01
Remote Directory Number	399 :for "with RMT" blank : for "without RMT"	Three or four numeric digits: Floating Directory Number for the remote mainte- nance port	3-B-3.00 4-F-1.05 5-D-1.03 6-G-1.05 14-B-2.00 15-B-2.00
Remote Alarm	No	No : not providing Remote Alarm Yes : providing Remote Alarm	14-D-1.05 15-D-1.05
Destination Address	blank	Maximum 26 numeric digits : telephone (modem) number of the destination for Remote Alarm	

Description of Assigning Items

System Administration Device	Assigns the terminal device to be used for setting system administration data.
SMDR	Enables or disables SMDR (Station Message Detail Recording).
Page Length (4~99)	Assigns the printer page length (number of lines).
Skip Perf (0~95)	Determines the number of lines to be skipped and the number of lines to be printed on each page. The number of lines to skip is simply the number specified in this parameter. The number of lines printed is the difference between the page length number and the skip perforation number. If system data is being printed the difference must be equal to or greater than 23 to allow one full screen to be printed on each page. If SMDR data is being printed the difference must be equal to or greater than six to allow the header and at least one line of SMDR data to be printed.
Outgoing Duration Log	Determines which types of outgoing calls will be printed, if any.
Incoming Duration Log	Determines if incoming calls will be printed or not.
Attendant Duration	Determines whether the attendant or the destination will be charged with the time for an attendant handled call. If "Separate" is selected, there will be two lines of SMDR for every attendant handled and transferred call.
Special Carrier Name	Assigns the special carrier name type to be printed out.
Print Secret Dial	Determines if secret dial numbers will be printed out.
Error Log /Programming/ Traffic	Determines if error logs will be printed out. Determines if programming data is printed out. Determines if traffic measurement data is printed out.
Start Time of Traffic Measurement	Assigns the starting time for traffic measurement.
Start Time of Test	Assigns starting time of the self- test. The system must be idle for the test to be performed.
Remote Directory Number	Assigns a floating directory number for the remote maintenance port. If "RMT" is not preset in the "Configuration-Slot Assignment" screen, the default value is blank.
Remote Alarm	If this option is enabled alarms will be automatically sent to the telephone number in the destination address.
Destination Address	The destination telephone number for remote alarms.

Conditions

SMDR

If set to "No," the following items cannot be programmed ("—" appears on the items).

- "System-Operation",
- Page Length (4~99)
- Skip Perf (0~95)
- Outgoing Duration Log
- Incoming Duration Log
- Attendant Duration
- Special Carrier Name
- Print Secret Dial
- Error Log/Programming/Traffic

Remote Directory Number To assign this item, RMT card is necessary.

Remote Alarm Destination Address If "RMT" is not assigned in the "Configuration-Slot Assignment" screen, these items cannot be programmed ("—" appears on the items). If Remote Alarm is set to "Yes," Destination Address can be programmed. If Remote Alarm is set to "No," Destination Address displays "—" and cannot be programmed.

To select this screen, press the NEXT key in the "System-Operation (1/3)" screen.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-I "Operation of Function Keys."

1.03 Operation (3/3)

System - Operation		OFL	PRG	LIN	SEL
Operation (3/3)					
Operator 1 -----	ATT:1	(Type:No.)			
Operator 2 -----	EXT:1234	(Type:No.)			
Night Service -----	Manual				
Auto Start Time : MON. (Day,Night)	08:00 AM , 05:00 PM				
: TUE. (Day,Night)	08:00 AM , 05:00 PM				
: WED. (Day,Night)	08:00 AM , 05:00 PM				
: THU. (Day,Night)	08:00 AM , 05:00 PM				
: FRI. (Day,Night)	08:00 AM , 05:00 PM				
: SAT. (Day,Night)	: , :				
: SUN. (Day,Night)	: , :				
PITS Programming Password -----	1232				
Walking COS Password -----	0123				
Note: System or Tenant 1					
COMMON			HRD CPY		

Summary

Assigns elemental data common to the whole system, such as setting terminal type for operators, parameters for Night Service etc., through

the third System-Operation screen. (Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Operator 1	ATT1 : for "with ATLC" EXT100 : for "without ATLC"	None / EXT / ATT : terminal type None : no operator EXT : setting an extension to Operator 1 ATT : setting Attendant Console to Operator1 Number: assign number when terminal type is set to "EXT" or "ATT" blank : when terminal type is set to "None" Three or four digit DN : when terminal type is set to "EXT" 1 or 2 : when terminal type is set to "ATT," select Attendant Console 1 or 2	3-B-5.00
Operator 2	ATT 2 : for "with ATLC" None : for "without ATLC"	Same as Operator 1.	3-B-5.00

Assigning Items	Default	Selection of Value	Reference
Night Service	Manual	Manual : an operator can set day or night service Auto : automatic change	3-B-8.00 4-I-1.00 5-G-1.00 6-J-1.00
Auto Start Time : MON. (Day, Night) : TUE. (Day, Night) : WED. (Day, Night) : THU. (Day, Night) : FRI. (Day, Night) : SAT. (Day, Night) : SUN. (Day, Night)	blank	1 to 12 : hour 00 to 59 : minute AM / PM : a.m. / p.m. blank : if "blank" is assigned for a day or days, the previously assigned values are maintained for the days until other values are set for another day.	
PITS Programming Password	1234	Four numeric digits : password <i>MANAGEMENT TELEPHONE = COS</i>	6-J-9.00 11-C-1.00
Walking COS Password	blank	Four numeric digits: password	4-C-9.00 5-A-7.00 11-C-8.00

Description of Assigning Items

Operator 1	Assigns the terminal device for operator 1. If selecting "EXT" for the terminal type, be sure to assign the directory number beforehand.
Operator 2	Same as Operator 1.
Night Service	If this is set to "Manual," the operator 1 must dial the feature number for "Night Mode Set" for night service or "Night Mode Cancel" for day service. If this is set to "Auto," the system will switch the day and night modes at the programmed time each day. The operator 1, however, can override the auto setting by dialing the feature number for "Night Service Manual Mode Set." To restore the auto mode, the operator 1 must dial the feature number for "Night Service Manual Mode Cancel."
Auto Start Time	Assigns automatic change-over time for each day of the week for Day/Night Service.
: MON. (Day, Night)	
: TUE. (Day, Night)	
: WED. (Day, Night)	
: THU. (Day, Night)	
: FRI. (Day, Night)	
: SAT. (Day, Night)	
: SUN. (Day, Night)	
PITS Programming Password	Assigns the password for PITS system programming. This password is used when a PITS allowed to program by COS wishes to change PITS system programming or an Attendant Console wishes to perform CO verify.
Walking COS Password	Assigns the password for Walking COS. Walking COS allows a user to temporarily change the COS of another extension to that of the user's extension. This is generally used for making toll calls from a toll restricted telephone.

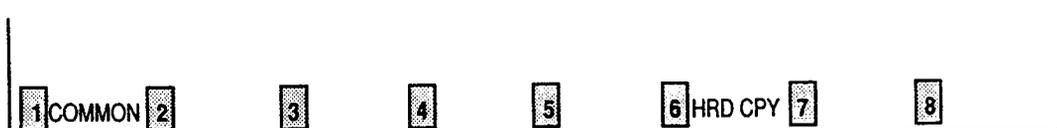
Conditions

Operator 1	This system can accommodate up to two Attendant Consoles. When Tenant Service is employed and if two Attendant Consoles are assigned to tenant 1, no Attendant Console operator can be assigned to tenant 2. If only one Attendant Console is accommodated, it must be always assigned to Operator 1.
Operator 2	

To select this screen, press the NEXT key in the "System-Operation (2/3)" screen.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-I "Operation of Function Keys."

2.00 Tenant

System - Tenant	OFL	PRG	SCR	SEL
Operator 1 (Tenant 2) -----	A T T:1	(Type:No.)		
Operator 2 (Tenant 2) -----	E X T:1234	(Type:No.)		
Night Service (Tenant 2) -----	Manual			
Auto Start Time : MON. (Day,Night) --	08:00 AM , 05:00 PM			
: TUE. (Day,Night) --	08:00 AM , 05:00 PM			
: WED. (Day,Night) --	08:00 AM , 05:00 PM			
: THU. (Day,Night) --	08:00 AM , 05:00 PM			
: FRI. (Day,Night) --	08:00 AM , 05:00 PM			
: SAT. (Day,Night) --	: , :			
: SUN. (Day,Night) --	: , :			
PITS Programming Password (Tenant 2)	1232			
Walking COS Password (Tenant 2) -----	0123			
Inter-Tenant Calling -----	Yes			
Speed Dialing - System Boundary -----	100			
Call Park Boundary -----	10			
Message Waiting Boundary -----	250			
Absent message boundary -----	10			

COMMON HRD CPY

Summary

Assigns parameters for tenant 2, such as terminal type for operators, method of changing Night Service, password for PITS programming etc.. Also assigns boundaries for functions, such as

Speed Dialing, Call Park etc., which are split between tenant 1 and tenant 2. (Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Operator 1 (Tenant 2)	None	None / EXT / ATT: terminal type None : no operator EXT : setting an extension to Operator 1 ATT : setting Attendant Console to Operator 1 Number: Assign number when terminal type is set to "EXT" or "ATT" blank : when terminal type is set to "None" Three or four digit DN: when terminal type is set to "EXT" 1 or 2 : when terminal type is set to "ATT," selects Attendant Console 1 or 2	3-B-4.00 3-B-5.00

Continued

Assigning Items	Default	Selection of Value	Reference
Operator 2 (Tenant 2)	None	Same as Operator 1	3-B-4.00 3-B-5.00
Night Service (Tenatn 2)	Manual	Manual : manual change Auto : automatic change	3-B-4.00 3-B-8.00 4-I-1.00
Auto Start Time	blank	1 to 12 : hour 00 to 59 : minute AM / PM : a.m. / p.m. blank : if "blank" is assigned for a day or days, the previously assigned values are maintained for the days until other values are set for another day.	5-G-1.00 6-J-1.00
: MON. (Day, Night)			
: TUE. (Day, Night)			
: WED. (Day, Night)			
: THU. (Day, Night)			
: FRI. (Day, Night)			
: SAT. (Day, Night)			
: SUN. (Day, Night)			
PITS Programming Password (Tenant 2)	blank	Four numeric digits of numbers : password	3-B-4.00 6-J-9.00 11-C-1.00
Walking COS Password (Tenant 2)	blank	Four numeric digits of numbers : password	3-B-4.00 4-C-9.00 5-A-7.00 11-C-8.00
Inter - Tenant Calling	No	Yes : Inter-Tenant Calling is available No : Inter-Tenant Calling is unavailable	3-B-4.00
Speed Dialing - System Boundary	200	000 to 200 : boundary number 000 : tenant 2 only can use all the codes 200 : tenant 1 only can use all the codes	3-B-4.00 4-C-4.02 5-A-2.02 6-D-2.01
Call Park Boundary	20	00 to 20 : boundary number 00 : tenant 2 only can use all call park areas 20 : tenant 1 only can use all call park areas	3-B-4.00 4-E-5.01 5-C-4.01 6-F-3.00
Message Waiting Boundary	500	000 to 500 : boundary number 000 : tenant 2 only can use the whole capacity 500 : tenant 1 only can use the whole capacity	3-B-4.00 4-I-8.00 5-G-6.00 6-J-4.00
Absent Message Boundary	16	06 to 16 : boundary number 06 : tenant 2 only can use all the numbers 16 : tenant 1 only can use all the numbers	3-B-4.00 4-I-7.00 5-G-5.00

Description of Assigning Items

Operator 1 (Tenant 2)	Assigns a terminal device for operator 1.
Operator 2 (Tenant 2)	Assigns a terminal device for operator 2.
Night Service (Tenant 2)	If this is set to "Manual," an operator must dial the feature number for "Night Mode Set" for night service or "Night Mode Cancel" for day service. If this is set to "Auto," the system will switch the day and night modes at the programmed time each day. An operator, however, can override the auto setting by dialing the feature number for "Night Service Manual Mode Set." To restore the auto mode, the operator must dial the feature number for "Night Service Manual Mode Cancel."
Auto Start Time	Assign automatic change-over time for each day of the week for Day/Night Service.
: MON. (Day, Night)	
: TUE. (Day, Night)	
: WED. (Day, Night)	
: THU. (Day, Night)	
: FRI. (Day, Night)	
: SAT. (Day, Night)	
: SUN. (Day, Night)	
PITS Programming Password (Tenant 2)	Assigns the password for PITS programming. This password is used when a PITS allowed to program by COS wishes to change system programming or an attendant console wishes to perform CO verify.
Walking COS Password (Tenant 2)	Assigns the password for Walking COS. Walking COS allows a user to temporarily change the COS of another station to that of the user's station. This is generally used for making toll calls from a toll restricted telephone.
Inter-Tenant Calling	If this option is set to "Yes" then calling is allowed between extensions in different tenants. However, it is not possible for an operator to transfer calls to an extension in another tenant. If this option is set to "No" then no inter tenant calling is allowed.
Speed Dialing-System Boundary	Assigns tenant-boundary number for Speed Dialing (the last number of the codes that tenant 1 can use).
Call Park Boundary	Assigns tenant-boundary number for Call Park (the last number that Tenant 1 can use).
Message Waiting Boundary	Assigns tenant-boundary quantity for Message Waiting (the largest quantity that tenant 1 can use).
Absent message boundary	Assigns tenant-boundary number for Absent Message (the last number that tenant 1 can use).

Conditions

This screen does not appear if "System-Operation", Tenant Service is assigned to "No."

Operator 1 (Tenant 2)
Operator 2 (Tenant 2)

This system can accommodate up to two Attendant consoles. If two Attendant Consoles are assigned to tenant 1, no Attendant consoles can be assigned to tenant 2.

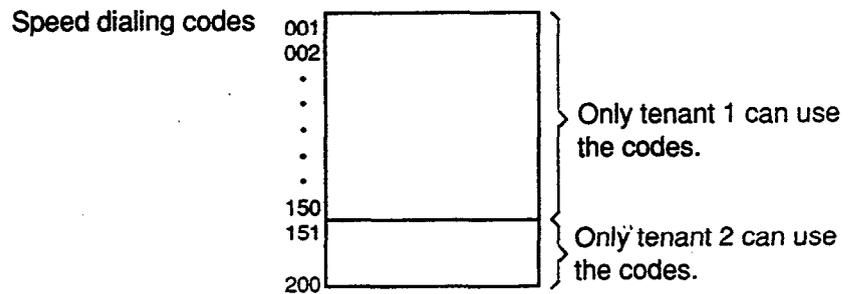
Speed Dialing-System
Boundary/Call Park
Boundary/Message
Waiting Boundary/Absent
Message Boundary

If Tenant Service is available, the following items can be split between tenant 1 and tenant 2. The boundaries are to set tenant-boundary numbers. The last number that tenant 1 can use must be assigned in each boundary for the functions below:

Speed Dialing-System
Call Park-System
Message Waiting
Absent Message

<Example>

Up to 200 speed dialing codes can be programmed for the system. If you wish to assign 150 codes to tenant 1 and 50 codes to tenant 2, enter "150" in Speed Dialing-System Boundary.



If tenant 1 uses no code and tenant 2 uses 200 codes, enter "000."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-I "Operation of Function Keys."

3.00 System Timer

System - System Timer		OFL	PRG	SCR	DIR
Held Call Reminder	60	second(s)	(15-240)		
Held Call Reminder (ATT)	60	second(s)	(15-240)		
Transfer Recall	30	second(s)	(15-240)		
Pickup Dial Waiting	1	second(s)	(1 - 5)		
External First Digit Time-Out	10	second(s)	(5-120)		
External Interdigit Time-Out	5	second(s)	(3- 15)		
External Interdigit Time-Out (PBX)	5	second(s)	(3- 10)		
Toll Restriction Guard Time-Out	10	second(s)	(0- 25)		
Call Forwarding - No Answer Time-Out	15	second(s)	(5- 60)		
Intercept Routing Time-Out (System)	60	second(s)	(15-240)		
Intercept Routing Time-Out (DISA)	30	second(s)	(15-240)		
Attendant Overflow Time	60	second(s)	(15-240)		
SMDR Duration Time	10	second(s)	(0- 15)		

COMMON 2 3 4 5 6 HRD CPY 7 8

Summary

Executes time-setting on various system timers.
 (Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Held Call Reminder	60	15 to 240 : seconds	3-B-10.00 3-E-2.00
Held Call Reminder (ATT)	60	15 to 240 : seconds	3-B-10.00 3-E-2.00
Transfer Recall	30	15 to 240 : seconds	3-B-10.00 3-E-3.00 4-F-1.01 5-D-1.01 6-G-1.01 6-G-1.02
Pickup Dial Waiting	1	1 to 5 : seconds	3-B-10.00 5-A-2.04

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
External First Digit Time-Out	10	5 to 120 : seconds	3-B-10.00 3-B-12.00 3-F-12.00 10-C-58.00 10-C-61.00
External Interdigit Time-Out	5	3 to 15 : seconds	3-B-10.00 3-B-12.00
External Interdigit Time-Out (PBX)	5	3 to 10 : seconds	3-B-10.00 3-B-12.00
Toll Restriction Guard Time-Out	10	0 to 25 : seconds	3-B-10.00
Call Forwarding-No Answer Time-Out	15	5 to 60 : seconds	3-B-10.00 3-D-2.05 3-D-2.06 4-F-2.03 4-F-2.04 5-D-2.03 5-D-2.04
Intercept Routing Time-Out (System)	60	15 to 240: seconds	3-B-10.00 3-F-5.00 6-J-12.00
Intercept Routing Time-Out (DISA)	30	15 to 240: seconds	3-B-10.00 3-D-2.02 3-F-5.00
Attendant Overflow Time	60	15 to 240: seconds	3-B-10.00 3-D-1.03 6-G-2.00 6-G-7.00 10-C-53.00
SMDR Duration Time	5	0 to 15 : seconds	3-B-10.00 3-F-1.00 4-A-4.03

Description of Assigning Items

Held Call Reminder	Sets the time for Held Call Reminder for extensions. When this timer expires the extension is alerted that there is a call held for an extended period of time
Held Call Reminder (ATT)	Sets the time for Held Call Reminder for the Attendant Console. When this timer expires the Attendant is rung to indicate an extended hold.
Transfer Recall	Sets the time for Transfer Recall on both extensions and Attendant consoles.
Pickup Dial Waiting	Sets the waiting time for Pickup Dialing. The pickup dialing time gives the user an opportunity to dial digits prior to the automatic dialing taking place.
External First Digit Time-Out	Sets the maximum time allowed between CO dial tone or pseudo dial tone and the Time-Out first digit dialed.
External Interdigit Time-Out	Sets the maximum time allowed between digits on a CO call. This timer does not apply for CO operator calls.
External Interdigit Time-Out (PBX)	Sets the maximum time between dialed digits (Behind PBX).
Toll Restriction Guard Time-Out	Sets the time limit between dialing digits for CO operator calls. This prevents a user from attempting to defeat toll restriction.
Call Forwarding-No Answer Time-Out	Sets the Call Forwarding-No Answer timer.
Intercept Routing Time-out (System)	Sets the time limit for Intercept Routing (System). This timer is used when an incoming CO call (DIL 1:1, DID, TAFAS or night answer and so on) is not answered. Call forward no answer will override this timer if an extension has enabled Call Forwarding-No Answer Time-Out.
Intercept Routing Time-Out (DISA)	Sets the time limit for Intercept Routing (DISA). This is used when a DISA destination does not answer.
Attendant Overflow Time	Sets the overflow time for the Attendant Console. When this timer expires, a call will be routed to the overflow destination.
SMDR Duration Time	Determines the length of the SMDR duration timer. This timer starts when the system has sent all the digits to the Central Office.

Conditions

Held Call Reminder
Held Call Reminder (ATT)

If these items are programmed however "System-Operation" Held Call Reminder is not set to "Yes," Held Call Reminder does not function.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.
For operation, refer to Section 7-1 "Operation of Function Keys."

4.00 Class of Service
4.01 Class of Service (1/2)

System	Class of Service	OFL	PRG	SCR	DIR
Class of Service (COS) No. = 01 (1/2)					
	Toll Restriction Level (Day) -----	01			
	Toll Restriction Level (Night) -----	02			
	Max. Dialing Digits -----	7			
	Call Forwarding / Do Not Disturb -----	Yes			
	Do Not Disturb Override -----	Yes			
	CO Forward Mode -----	Yes			
	CO Transfer Mode -----	Yes			
	Forced Account Code Mode -----	Yes			
	BSS/OHCA -----	Yes			
	BSS/OHCA Deny -----	Yes			
	Executive Busy Override -----	Yes			
	Executive Busy Override Deny -----	Yes			
	Station Lock -----	Yes			
	Walking Station -----	Yes			
	Maintenance Capability -----	Yes			
	ARS/Local Access -----	W/ RSTR			
COMMON INDEX COPY READ HRD CPY					

Summary

Sets parameters for toll restriction level, maximum dialing digits, Call Forwarding, Do Not Disturb, Do Not Disturb Override, etc., in the first

System-Class of Service screen, which consists of 32 groups, each of which has two screens. (Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Toll Restriction Level (Day)	Refer to Table of Defaults	01 to 16 : toll restriction level (Day)	3-B-6.00 3-C-1.00
Toll Restriction Level (Night)		01 to 16 : toll restriction level (Night)	3-B-6.00 3-C-1.00
Max. Dialing Digits <i>for C.O. calls</i>		2 to 255 : possible to dial the [input value-1] digits 0 : no limit to the number of dialed digits 1 : internal calls only	3-B-6.00
Call Forwarding / Do Not Disturb		Yes : Call Forwarding / DND is available No : Call Forwarding / DND is unavailable	3-B-6.00 4-D-6.00 4-F-2.00 5-B-4.00 5-D-2.00

Continued

Assigning Items	Default	Selection of Value	Reference
Do Not Disturb Override	Refer to Table of Defaults	Yes : DND Override is available No : DND Override is unavailable	3-B-6.00 4-C-8.00 5-A-6.00
CO Forward Mode		Yes : Call Forwarding to CO is available No : Call Forwarding to CO is unavailable	3-B-6.00 4-F-2.05 5-D-2.05
CO Transfer Mode		Yes : Call Transfer to CO is available No : Call Transfer to CO is unavailable	3-B-6.00 4-F-1.03 4-G-6.00
Forced Account Code Mode		No : Account codes not required for outgoing CO calls Yes : User must enter an account code for outgoing CO calls	3-B-6.00 4-I-2.00 5-G-2.00
BSS / OHCA		No : Override is unavailable Yes : Override is available	3-B-6.00 4-C-5.04 4-C-5.05
BSS / OHCA Deny		No : Override Deny is impossible Yes : Override Deny is possible	3-B-6.00 4-D-2.03
Executive Busy Override		No : Executive Busy Override is unavailable Yes : Executive Busy Override is available	3-B-6.00 4-C-7.00 5-A-5.00
Executive Busy Override Deny		Yes : Executive Busy Override Deny is available No : Executive Busy Override Deny is unavailable	3-B-6.00 4-D-5.00 5-B-3.00
Station Lock		No : Station Lock is unavailable Yes : Station Lock is available	3-B-6.00 4-I-9.00 5-G-7.00
Walking Station		No : Walking Station is impossible Yes : Walking Station is possible	3-B-6.00 3-F-3.00
Maintenance Capability		Yes : PITS system programming is possible No : PITS system programming is impossible	3-B-6.00 11-A 11-C
ARS/Local Access		W/RSTR : ARS/Local Access is restricted ➤1 No RSTR : no restriction ➤2 No ACCS : calling is impossible	3-B-6.00 3-C-1.01 3-C-1.02

➤1 When an extension user attempts to make an outside call by "Local Trunk Dial Access" or "Automatic Route Selection (ARS)," available trunks are determined by both Local Hunt Sequence and "System-Class of Service", Trunk Group Access.

➤2 Available trunks are determined by Local Hunt Sequence.

Table of Defaults

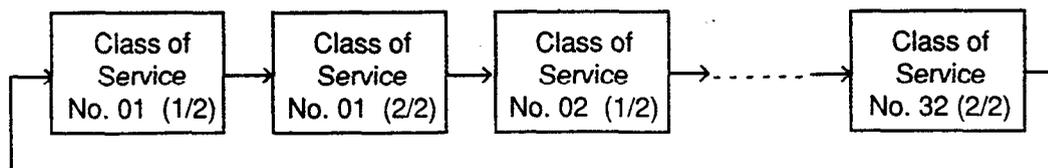
Assigning Items	COS 01	COS 02	COS 03 to 31	COS 32
Toll Restriction Level (Day)	01	01	01	16
Toll Restriction Level (Night)	01	01	01	16
Max. Dialing Digits	0	0	0	0
Call Forwarding / Do Not Disturb	Yes	Yes	Yes	No
Do Not Disturb Override	Yes	No	No	No
CO Forward Mode	Yes	No	No	No
CO Transfer Mode	Yes	No	No	No
Forced Account Code Mode	No	No	No	No
BSS / OHCA	Yes	Yes	Yes	No
BSS / OHCA Deny	No	No	No	No
Executive Busy Override	Yes	No	No	No
Executive Busy Override Deny	No	No	No	No
Station Lock	No	No	No	No
Walking Station	No	No	No	No
Maintenance Capability	Yes	No	No	No
ARS/Local Access	W/RSTR	W/RSTR	W/RSTR	No Accs

Description of Assigning Items

Toll Restriction Level (Day)	Sets toll restriction level (day).
Toll Restriction Level (Night)	Sets toll restriction level (night).
Max. Dialing Digits	Sets the maximum number of digits which can be dialed for a CO call.
Call Forwarding / Do Not Disturb	Assigns whether Call Forwarding / Do Not Disturb is possible or not.
Do Not Disturb Override	Assigns Do Not Disturb Override .
CO Forward Mode	Assigns whether Call Forwarding to CO is possible or not .
CO Transfer Mode	Assigns whether Call Transfer to CO is possible or not.
Forced Account Code Mode	Assigns whether entering Account Code in outgoing CO calls is necessary or not.
BSS/OHCA	Assigns whether BSS (Busy Station Signaling) and OHCA (Off Hook Call Announcement) are possible or not.
BSS/OHCA Deny	Assigns whether BSS / OHCA Deny is possible or not .
Executive Busy Override	Assigns whether Executive Busy Override is possible or not.
Executive Busy Override Deny	Assigns whether Executive Busy Override Deny is available or not.
Station Lock	Assigns whether Electronic Station Lock is possible or not.
Walking Station	Assigns whether Walking Station is possible or not.
Maintenance Capability	Enables the maintenance capability of PITS sets to perform operations such as time and date set, station name change , etc.
ARS/Local Access	Assigns whether ARS/Local Access is restricted or not.

Conditions

When pressing the NEXT key, this screen changes as follows:



Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3	COPY	4	READ	5		6	HRD CPY	7		8
---	--------	---	-------	---	------	---	------	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. Other function keys such as INDEX, COPY and READ are also available in this setting screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.

F2	:	INDEX>Class of Service No. (01-32)=											
	1	2	3	4	5	6	7	EXIT	8				

F3	:	COPY>COS No. (01-32)= --> COS No.= -											
	1	2	3	4	5	6	7	EXIT	8				

F4	:	READ>COS No. (01-32)=											
	1	2	3	4	5	6	7	EXIT	8				

4.02 Class of Service (2/2)

System - Class of Service		OFL	PRG	SCR	DIR
Class of Service (COS) No. = 01 (2/2)					
Trunk Group Access	Trunk Group 01	Y	Trunk Group 09	Y	
	Trunk Group 02	Y	Trunk Group 10	Y	
	Trunk Group 03	Y	Trunk Group 11	Y	
	Trunk Group 04	Y	Trunk Group 12	Y	
	Trunk Group 05	Y	Trunk Group 13	Y	
	Trunk Group 06	Y	Trunk Group 14	Y	
	Trunk Group 07	Y	Trunk Group 15	Y	
	Trunk Group 08	Y	Trunk Group 16	Y	
Special Carrier Access	EQA 1 Y EQA 3 N	OCC 1 N	OCC 3 N		
	EQA 2 Y EQA 4 N	OCC 2 N	OCC 4 N		
Station Paging Access	PAG 1 Y PAG 3 Y	PAG 5 Y	PAG 7 Y		
	PAG 2 Y PAG 4 Y	PAG 6 Y	PAG 8 Y		
External Paging	External Paging 1	Y	External Paging 2	Y	
COMMON INDEX COPY READ HRD CPY					

Summary

The second screen of the Sytem-Class of Service screen sets the trunk groups available for access and so on.

(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Trunk Group Access Trunk Group (01 to 16)	Yes	Y : trunk group available for access N : trunk group unavailable for access	3-B-6.00 3-C-1.01 3-C-1.03 4-C-3.01 4-C-3.02 5-A-1.01 5-A-1.02
Special Carrier Access EQA (1 to 4) OCC (1 to 4)	No	N : special carrier unavailable for access Y : special carrier available for access	3-B-6.00 3-C-1.04 4-C-3.03 5-A-1.03

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Station Paging Access PAG (1 to 8)	Yes	N : paging group unavailable for access Y : paging group available for access	3-B-6.00 4-H-1.01 4-H-1.02 4-H-1.04 5-F-1.01 5-F-1.02 5-F-1.04
External Paging (1 and 2)	Yes	N : not available to access external pager Y : available to access external pager	3-B-6.00 4-H-1.03 4-H-1.04 5-F-1.03 5-F-1.04

Description of Assigning Items

- Trunk Group Access
Trunk Group (01 to 16) When set to "Yes," the associated trunk group is available during direct trunk group access. When set to "No" the trunk group is not available during direct trunk group access.
- Special Carrier Access
EQA (1 to 4) OCC (1 to 4) When set to "Yes" the Equal Access trunk group and OCC Access trunk group are available during virtual trunk group access. When set to "No," the Equal Access trunk group and OCC access trunk groups are not available during virtual trunk group access.
- Station Paging Access
PGA (1 to 8) Assigns which paging groups are available for access.
- External Paging (1 and 2) Assigns which external pagers are available for access.

Conditions

- Special Carrier Access If "Y" is selected but if "Special Carrier Access-Equal Access", Service and "Special Carrier Access-OCC Access", Service are set to "No," Special Carrier Access via virtual trunk group access does not work. It is administrable to activate or deactivate the EQU access and/or OCC access features on a system-wide basis. Refer to Section 10-C-52 "World Select 2 (WS2)" for further information.
- Station Paging Access If an extension does not belong to the same tenant as the paging groups assigned to "Y," the extension cannot access the paging groups.
- External Paging If "Y" is selected but if "System-Operation" External Paging 1/2 is set to "No," paging through external pagers is impossible. If an extension belongs to the different tenant from the tenant of the External Paging 1 or 2 assigned to "Y," the extension cannot access the external pager.

To select this screen, press the NEXT key in the "System-Class of Service (1/2)" screen.

Pressing the TAB key moves the cursor as follows:

System - Class of Service		OFL PRG SCR DIR			
Class of Service (COS) No. = 01 (2/2)					
Trunk Group Access	Trunk Group 01	Y	Trunk Group 09	Y	
	Trunk Group 02	Y	Trunk Group 10	Y	
	Trunk Group 03	Y	Trunk Group 11	Y	
	Trunk Group 04	Y	Trunk Group 12	Y	
	Trunk Group 05	Y	Trunk Group 13	Y	
	Trunk Group 06	Y	Trunk Group 14	Y	
	Trunk Group 07	Y	Trunk Group 15	Y	
	Trunk Group 08	Y	Trunk Group 16	Y	
Special Carrier Access	EQA 1	Y	EQA 3	N	OCC 1 N OCC 3 N
	EQA 2	Y	EQA 4	N	OCC 2 N OCC 4 N
Station Paging Access	PAG 1	Y	PAG 3	Y	PAG 5 Y PAG 7 Y
	PAG 2	Y	PAG 4	Y	PAG 6 Y PAG 8 Y
External Paging	External Paging 1	Y	External Paging 2	Y	

cursor

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3	COPY	4	READ	5		6	HRD CPY	7		8
---	--------	---	-------	---	------	---	------	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. Other function keys such as INDEX, COPY and READ are also available in this setting screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.

F2	:	INDEX>Class of Service No. (01-32)=												
		1	2	3	4	5	6	7	EXIT	8				

F3	:	COPY>COS No. (01-32)= --> COS No.= -												
		1	2	3	4	5	6	7	EXIT	8				

F4	:	READ>COS No. (01-32)=												
		1	2	3	4	5	6	7	EXIT	8				

DIAL 9 Access

5.00 Local Access Group

System - Local Access Group		OFL	PRG	LIN	DIR
Toll Restriction Level		08			
Toll Restriction Table		4			
Local Access	Hunt Sequence 01	06	Hunt Sequence 09		
Trunk Group	02	16	10		
Hunt Sequence	03	01	11		
	04	03	12		
Enter Trunk	05	05	13		
Group Number	06		14		
(01 ~ 16)	07		15		
	08		16		

COMMON HRD CPY

Summary

Assigns toll restriction level and Area/Office Code Table number for outgoing CO calls and the hunting sequence for selecting idle trunk groups

after automatic access to an idle CO line.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Toll Restriction Level	16	01 to 16 : restriction level	3-C-1.01 3-C-1.02
Toll Restriction Table	1	1 to 8 : restriction table number	
Local Access Trunk Group Hunt Sequence Hunt Sequence 01	01	01 to 16 : trunk group number blank : not assigned	3-C-1.01 4-C-3.01 5-A-1.01 6-D-1.01
Hunt Sequence (02 to 16)	blank	Same as Hunt Sequence 01	

Description of Assigning Items

Toll Restriction Level	Assigns the toll restriction level. This is used during toll restriction to determine if calls will be allowed (if Extension toll restriction level is equal to or greater than local access toll restriction level) or whether they must pass through toll restriction checking.
Toll Restriction Table	Assigns the Area code/Office code toll restriction table number. This table is used during 3/6 digit toll restriction.
Local Access Trunk Group Hunt Sequence Hunt Sequence (01 to 16)	Determines the trunk group hunt sequence to be used when placing a CO call using local access. The sequence is used by both tenants but trunk groups will be skipped if they do not belong to the same tenant as the caller.

Conditions

None

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.
For operation, refer to Section 7-I "Operation of Function Keys."

6.00 Numbering Plan

6.01 Numbering Plan (1/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (1/9)					
No.	Feature	DG1	DG2	DG3	DG4
1	1st Hundred Block Extension -----	1		-	-
2	2nd Hundred Block Extension -----	2		-	-
3	3rd Hundred Block Extension -----	3		-	-
4	4th Hundred Block Extension -----			-	-
5	5th Hundred Block Extension -----			-	-
6	6th Hundred Block Extension -----			-	-
7	7th Hundred Block Extension -----			-	-
8	8th Hundred Block Extension -----			-	-
9	9th Hundred Block Extension -----			-	-
10	10th Hundred Block Extension -----			-	-
11	11th Hundred Block Extension -----			-	-
12	12th Hundred Block Extension -----			-	-
COMMON INDEX		HRD CPY			

Summary

The first screen of the System-Numbering Plan screen sets the extension numbers for first through 12th Hundred Block Extension groups.

(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
1st Hundred Block Extension	1	0 to 9: set "DG1" and leave "DG2" blank when the extension numbers are to be composed of three digits, and set both "DG1" and "DG2" when the extension numbers are to be composed of four digits.	3-B-1.00 3-B-2.00
2nd Hundred Block Extension	2		
3rd Hundred Block Extension	3		
4th through 12th Hundred Block Extension	blank		

Description of Assigning Items

1st through 12th Hundred Block Extension	Assigns the leading one or two digits for extension DN (Directory Number). If the leading digit is not programmed the DN assignment is not possible.
--	--

Conditions

"System-Numbering Plan" setting cannot be changed if "System-Operation", Numbering Plan is set to "Fixed 1" or "Fixed 2." If "Flex" is selected, this setting is changeable.

When entering "DG 1" to "DG 4," the cursor does not advance nor return automatically. Use the → and ← keys to move the cursor. The BS key cannot be used in this screen.

In any other setting screens than this screen, if you enter some data and press the NEXT or PREV key without storing the data, the message "***** Parameter Save OK ? >" appears on the screens. However, this screen advances or returns without displaying the message.

Data storage is executed by the PF 4 (Memory) key or the PF 2 (End) key for all the nine screens at the same time, not respectively as other screens. Logical check is also performed according to the following logic:

Extension numbers are three or four digits and the leading one or two digits are assigned in "Numbering Plan (1/9) and (2/9)" screens.

Feature numbers may be one, two, three or four digits.

Those numbers assigned in Numbering Plan screens cannot include the same number assigned to other feature number as the part or whole of it.

For example, if the digit "2" is assigned to the feature number for "Trunk Group 01-08 Access" and another digits "21" is assigned for "Trunk Group 09-16 Access," it is checked at the time of data storage. Similarly, "35" and "351" cannot be present at the same time.

It is possible to store "0" through "9," "*", "#," as the feature numbers. However, if "*" or "#" is included in the feature numbers, those features are not accessed by the rotary telephone extensions.

1st to 12th Hundred Block Extension

Extension numbers cannot include "*" and "#."

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3		4		5		6	HRD CPY	7		8
---	--------	---	-------	---	--	---	--	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only a message is provided here.

F2	:	INDEX>Numbering Plan (1-9)=														
		1		2		3		4		5		6		7	EXIT	8

6.02 Numbering Plan (2/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (2 / 9)					
No.	Feature	DG1	DG2	DG3	DG4
13	13th Hundred Block Extension-----			-	-
14	14th Hundred Block Extension-----			-	-
15	15th Hundred Block Extension-----			-	-
16	16th Hundred Block Extension-----			-	-
17	Operator Call (General) -----	0			
18	Operator Call (Specific) -----	-			
19	ARS/Local CO Line Access -----	9			
20	Trunk Group 01-08 Access -----	8	1		
21	Trunk Group 09-16 Access -----	8	2		
22	Trunk Group 17-24 Access -----	8	3		
23	Speed Dialing - System -----	*	1		
24	Speed Dialing - Station -----	#	2		

COMMON INDEX

Summary

The second screen of the System-Numbering Plan screen sets the numbers for 13th through 16th Hundred Block Extension groups and functions 17 to 24.

(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
13th Hundred Block Extension	blank	0 to 9: set "DG1" and leave "DG2" blank when the extension numbers are to be composed of three digits, and set both "DG1" and "DG2" when the extension numbers are to be composed of four digits.	3-B-1.00
14th Hundred Block Extension			3-B-2.00
15th Hundred Block Extension			
16th Hundred Block Extension			
Operator Call (General)	0	Enter from one to four digits composed of numbers, and the * and # symbols.	3-B-1.00
Operator Call (Specific)	blank		3-B-5.00
			4-C-10.00
ARS/Local CO Line Access	9		5-A-8.00
			3-B-1.00
			3-C-2.00
			4-C-3.01
			5-A-1.01
			6-D-1.01

Continued

Assigning Items	Default	Selection of Value	Reference
Trunk Group 01-08 Access	81	Enter from one to four digits composed of numbers, and the * and # symbols.	3-B-1.00
Trunk Group 09-16 Access	82		4-C-3.02
Trunk Group 17-24 Access	83		5-A-1.02
			6-D-1.02
Speed Dialing-System	*1		3-B-1.00
			5-A-2.02
Speed Dialing-Station	*2	Enter from one to four digits composed of numbers, and "**."	3-B-1.00
			5-A-2.01

Description of Assigning Items

13th through 16th Hundred Block Extension	Assigns the leading one or two digits for extension DN (Directory Number). If the leading digit is not programmed the DN assignment is not possible.
Operator Call (General)	Assigns the feature number for general operator calling. Calls will always arrive at an Attendant Console if it is connected to the system.
Operator Call (Specific)	Assigns the feature number for specific operator calling. The required operator is specified by dialing the feature number and "1" for operator 1 and "2" for operator 2.
ARS/Local CO Line Access	Assigns the feature number for Automatic Route Selection or local access.
Trunk Group 01-08 Access	Assigns the feature number for Individual Trunk Group Dial Access (01 to 08).
Trunk Group 09-16 Access	Assigns the feature number for Individual Trunk Group Dial Access (09 to 16).
Trunk Group 17-24 Access	Assigns the feature number for the specified EQA or OCC Trunk Group Access.
Speed Dialing-System	Assigns the feature number for Speed Dialing-System.
Speed Dialing-Station	Assigns the feature number for Speed Dialing-Station.

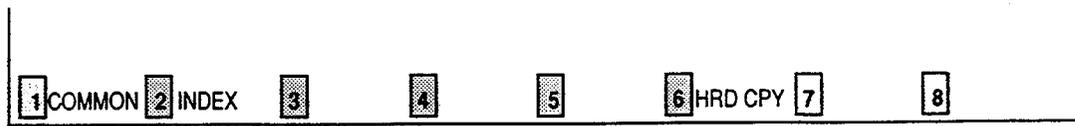
Conditions

Refer to "Numbering Plan (1/9)."

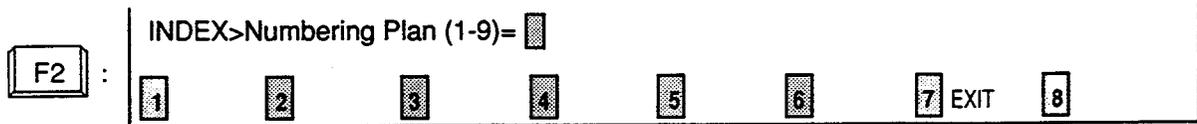
13th to 16th Hundred Block Extension	Extension numbers cannot include "*" and "#."
Speed Dialing-Station	This feature number cannot include "#."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-I "Operation of Function Keys." Only a message is provided here.



6.03 Numbering Plan (3/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (3/9)					
No.	Feature	DG1	DG2	DG3	DG4
25	Doorphone Call (1-4)	4	0		
26	External Paging	4	1		
27	Station Paging	4	2		
28	External Paging Answer	4	3		
29	Station Paging Answer	4	4		
30	Night Answer 1	4	5		
31	Night Answer 2	4	6		
32	Dial Call Pickup	4	7		
33	Directed Call Pickup	4	8		
34	Hold Extension Retrieve	4	9		
35	Redial	*	3		
36	External Feature Access	5	0		

COMMON INDEX HRD CPY

Summary

The third screen of the System-Numbering Plan screen sets the feature numbers for functions 25 to 36.

(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Doorphone Call (1~4)	40	Enter one to four digits composed of numbers, *, and #.	3-B-1.00 4-G-7.00 5-E-2.00 6-H-4.00
External Paging	41		3-B-1.00 4-H-1.03 4-H-1.04 5-F-1.03 5-F-1.04 6-I-1.03 6-I-1.04

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Station Paging	42	Enter one to four digits composed of numbers, *, and #.	3-B-1.00 4-H-1.01 4-H-1.02 4-H-1.04 5-F-1.01 5-F-1.02 5-F-1.04 6-I-1.01 6-I-1.02 6-I-1.04
External Paging Answer	43		3-B-1.00 4-H-1.03 4-H-1.04 5-F-1.03 5-F-1.04
Station Paging Answer	44		3-B-1.00 4-H-1.01 4-H-1.02 4-H-1.04 5-F-1.01 5-F-1.02 5-F-1.04
Night Answer 1	45		3-B-1.00 3-B-8.02 3-D-2.04
Night Answer 2	46		4-D-4.00 4-I-1.01 5-B-2.00 5-G-1.01
Dial Call Pickup	47		3-B-1.00 4-D-3.01 5-B-1.01
Directed Call Pickup	48		3-B-1.00 4-D-3.02 5-B-1.02
Hold Extension Retrieve	49		3-B-1.00 4-E-4.00 5-C-3.00
Redial	*3		3-B-1.00 5-A-2.03
External Feature Access	50		3-B-1.00 4-G-9.00 5-E-3.00

Description of Assigning Items

Doorphone Call (1~4)	Assigns the feature number for Doorphone calling. After dialing the feature number, dial 1 to 4 to specify the required doorphone.
External Paging	Assigns the feature number for External Paging. After dialing the feature number, dial 0, 1, 2, or * (all extensions and external paging)
Station Paging	Assigns the feature number for Internal Paging. After dialing the feature number, dial the paging group number (1 to 8), 0 to page all internal zones and * for all internal and external zones.
External Paging Answer	Assigns the feature number for External Paging Answer. After dialing the feature number, dial 1 (for pager 1) or 2 (for pager 2)
Station Paging Answer	Assigns the feature number for Station Paging Answer.
Night Answer 1	Assigns the feature number for Night Answer 1. This feature number is used to answer calls assigned to UNA 1 in night service or TAFAS 1 in day service.
Night Answer 2	Assigns the feature number for Night Answer 2. This feature number is used to answer calls assigned to UNA 2 in night service or TAFAS 2 in day service
Dial Call Pickup	Assigns the feature number for Dial Call Pickup. This allows a user to pickup a call arriving at an extension in the same pickup group.
Directed Call Pickup	Assigns the feature number for Directed Call Pickup (General). This allows an extension user to pickup a call ringing at any extension in the same tenant.
Hold Extension Retrieve	Assigns the feature number for Hold Retrieving. This allows an extension user to retrieve a call held at another extension in the same tenant.
Redial	Assigns the feature number for Redial. This is used by an SLT to redial the last CO number.
External Feature Access	Assigns the feature number for sending a switchhook flash to a host PBX or Centrex service.

Conditions

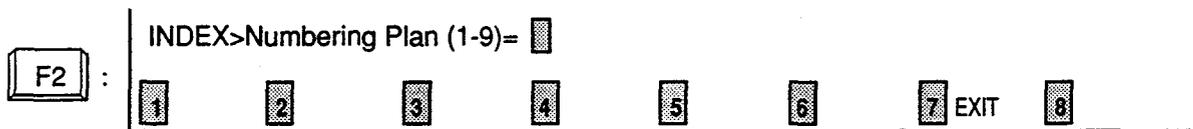
Same as the "Numbering Plan (1/9)."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only a message is provided here.



6.04 Numbering Plan (4/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (4/9)					
No.	Feature	DG1	DG2	DG3	DG4
37	Account Code -----	*	#		
38	Hold -----	5	1		
39	Hold Retrieve -----	5	2		
40	Call Park - System -----	5	3		
41	Call Park Retrieve - System -----	5	4		
42	Call Park - Station -----	5	5		
43	Call Park Retrieve - Station -----	5	6		
44	Call Forwarding - All Call Set -----	*	*	2	
45	Call Forwarding - Busy Set -----	*	*	3	
46	Call Forwarding - No Answer Set -----	*	*	4	
47	Call Forwarding - to Trunk -----	*	*	5	
48	Call Forwarding - Busy/No Answer -----	*	*	6	

COMMON INDEX HRD CPY

Summary

The fourth screen of the System-Numbering Plan sets the feature numbers for function 37 to 48.

(Password : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Account Code	*#	Enter one to four digits consisting of numbers, *, and #.	3-B-1.00 4-I-2.00 5-G-2.00
Hold	51		3-B-1.00 5-C-1.00
Hold Retrieve	52		3-B-1.00 4-E-5.01 5-C-4.01
Call Park-System	53		3-B-1.00 4-E-5.02 5-C-4.02
Call Park Retrieve-System	54		
Call Park-Station	55		
Call Park Retrieve-Station	56		

Continued

Assigning Items	Default	Selection of Value	Reference
Call Forwarding-All Call Set	**2	Enter one to four digits consisting of numbers, *, and #.	3-B-1.00 4-F-2.01 5-D-2.01
Call Forwarding-Busy Set	**3		3-B-1.00 4-F-2.02 5-D-2.02
Call Forwarding-No Answer Set	**4		3-B-1.00 4-F-2.03 5-D-2.03
Call Forwarding-to Trunk	**5	Enter from one to four digits consisting of numbers and *.	3-B-1.00 4-F-2.05 5-D-2.05
Call Forwarding-Busy/No Answer	**6	Enter from one to four digits consisting of numbers, *, and #.	3-B-1.00 4-F-2.04 5-D-2.04

Description of Assigning Items

Account Code	Assigns the feature number for entering account codes which may be forced or optional depending on system programming.
Hold	Assigns the feature number for Hold. This is used by an SLT to place a caller on hold.
Hold Retrieve	Assigns the feature number for retrieving Hold. This is used by an SLT to retrieve a held call.
Call Park-System	Assigns the feature number for Call Park-System. This is used by any extension user to park a call in one of twenty system call park zones.
Call Park Retrieve-System	Assigns the feature number for retrieving a call parked by Call Park-System.
Call Park-Station	Assigns the feature number for Call Park-Station. This is used by any extension user to park a call in that extension's call park zone.
Call Park Retrieve-Station	Assigns the feature number for retrieving a call parked by Call Park-Station.
Call Forwarding-All Call Set	Assigns the feature number for Call Forwarding of all calls.
Call Forwarding-Busy Set	Assigns the feature number for Call Forwarding of calls to busy extensions.
Call Forwarding-No Answer Set	Assigns the feature number for Call Forwarding of calls to no answer extensions.
Call Forwarding-to Trunk	Assigns the feature number for setting the destination of Call Forwarding-No Answer to an outside party.
Call Forwarding-Busy/No Answer	Assigns the feature number for Call Forwarding of calls to extensions which are in busy or no answer status.

Conditions

Refer to "Numbering Plan (1/9)."

Call Forwarding-to Trunk This feature number cannot include "#."

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3		4		5		6	HRD CPY	7		8
---	--------	---	-------	---	--	---	--	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only a message is provided here.

F2	:	INDEX>Numbering Plan (1-9)=												
1		2		3		4		5		6		7	EXIT	8

6.05 Numbering Plan (5/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (5/9)					
No.	Feature	DG1	DG2	DG3	DG4
49	Do Not Disturb Set -----	#	#	1	
50	Call Forwarding/Do Not Disturb Cancel -	#	#	1	
51	Dial Call Pickup Deny Set -----	6	1	#	
52	Dial Call Pickup Deny Cancel -----	6	1	#	
53	Call Waiting Set -----	6	2	#	
54	Call Waiting Cancel -----	6	2	#	
55	BSS/OHCA Deny Set -----	6	3	#	
56	BSS/OHCA Deny Cancel -----	6	3	#	
57	Busy Override Deny Set -----	6	4	#	
58	Busy Override Deny Cancel -----	6	4	#	
59	Data Line Security Set -----	6	5	#	
60	Data Line Security Cancel -----	6	5	#	

COMMON INDEX HRD CPY

Summary

The fifth screen of the System-Numbering Plan screen, constructed with nine screens, sets feature numbers for executing or canceling

various functions.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Do Not Disturb Set	**1	Enter one to four digits composed of numbers,*, and #.	3-B-1.00 4-D-6.00 5-B-4.00
Call Forwarding/Do Not Disturb Cancel	##0		3-B-1.00 4-D-6.00 4-F-2.01 to 2.05 5-B-4.00 5-D-2.01 to 2.05
Dial Call Pickup Deny Set	61*		3-B-1.00 4-D-3.03 5-B-1.03
Dial Call Pickup Deny Cancel	61#		

Assigning Items	Default	Selection of Value	Reference
Call Waiting Set	62 ~	Enter one to four digits composed of numbers, *, and #.	3-B-1.00 4-D-7.00 5-B-5.00
Call Waiting Cancel	62#		
BSS/OHCA Deny Set	63 ~		3-B-1.00 4-D-2.03
BSS/OHCA Deny Cancel	63#		
Busy Override Deny Set	64 ~		3-B-1.00 4-D-5.00
Busy Override Deny Cancel	64#		5-B-3.00
Data Line Security Set	65*		3-B-1.00 4-I-6.00
Data Line Security Cancel	65#		5-G-4.00

Description of Assigning Items

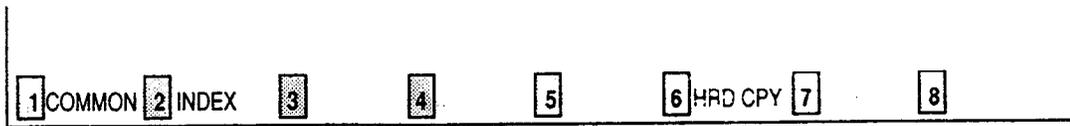
Do Not Disturb Set	Assigns the feature number for Do Not Disturb Set.
Call Forwarding/Do Not Disturb Cancel	Assigns the feature number for Call Forwarding /Do Not Disturb Cancel.
Dial Call Pickup Deny Set	Assigns the feature number for Dial Call Pickup Deny Set. This allows an extension user to prohibit other extensions from answering calls arriving at his extension.
Dial Call Pickup Deny Cancel	Assigns the feature number for Dial Call Pickup Deny Cancel.
Call Waiting Set	Assigns the feature number for Call Waiting Set. This allows an extension user to hear a call waiting tone when another call arrives during an existing call.
Call Waiting Cancel	Assigns the feature number for Call Waiting Cancel.
BSS / OHCA Deny Set	Assigns the feature number for BSS/OHCA Deny Set.
BSS / OHCA Deny Cancel	Assigns the feature number for BSS/OHCA Deny Cancel. BSS/OHCA Deny Cancel is used when the called extension is off-hook. BSS and OHCA allows a call to be made using the ICM button. BSS sets green 240 wink on the called party's ICM button while OHCA allows Hands-free Answerback to PITS KX-T7130, KX-T123230D or KX-T123235.
Busy Override Deny Set	Assigns the feature number for Busy Override Deny Set. Enabling this feature prevents other extensions from using Executive Busy Override on this extension.
Busy Override Deny Cancel	Assigns the feature number for canceling Busy Override Deny.
Data Line Security Set	Assigns the feature number for setting data communication mode. When set this feature prevents any call progress tones from being sent to the extension.
Data Line Security Cancel	Assigns the feature number for canceling data communication mode.

Conditions

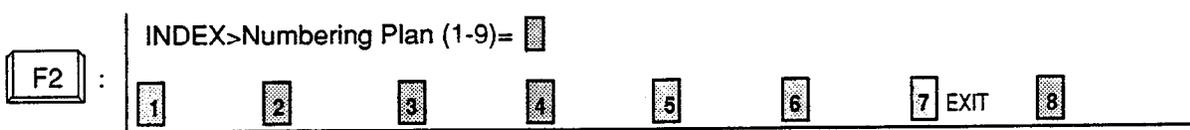
Same as the "Numbering Plan (1/9)."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only a message is provided here.



6.06 Numbering Plan (6/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (6/9)					
No.	Feature	DG1	DG2	DG3	DG4
61	Pickup Dialing Programming -----	6	6	0	
62	Pickup Dialing Set -----	6	6	*	
63	Pickup Dialing Cancel -----	6	6	#	
64	Absent Message Set -----	*	4		
65	Absent Message Cancel -----	#	4		
66	Timed Reminder Confirm -----	*	5	0	
67	Timed Reminder Set -----	*	5	1	
68	Timed Reminder Cancel -----	#	5		
69	Voice Calling Mode Set -----	6	7	*	
70	Voice Calling Mode Cancel -----	6	7	#	
71	Voice Calling Deny Set -----	6	8	*	
72	Voice Calling Deny Cancel -----	6	8	#	
COMMON INDEX HRD CPY					

Summary

The sixth screen of the System-Numbering Plan sets the feature numbers for executing or canceling various functions.

(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Pickup Dialing Programming	660	Enter one to four digits consisting of numbers and *.	3-B-1.00 5-A-2.04
Pickup Dialing Set	66*		
Pickup Dialing Cancel	66#		
Absent Message Set	*4	Enter one to four digits consisting of numbers, *, and #.	3-B-1.00 4-I-7.00 5-G-5.00
Absent Message Cancel	#4		
Timed Reminder Confirm	*50		
Timed Reminder Set	*51		

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Timed Reminder Cancel	#5	Enter one to four digits consisting of numbers, +, and #.	3-B-1.00 4-C-3.00 5-G-3.00
Voice Calling Mode Set	67*		3-B-1.00 4-C-5.03
Voice Calling Mode Cancel	67#		
Voice Calling Deny Set	68*		3-B-1.00 4-D-2.02
Voice Calling Deny Cancel	68#		

Description of Assigning Items

Pickup Dialing Programming	Pickup Dialing is a feature of SLT telephones which allows automatic calling when going off-hook. This feature allows the extension user to program the number to be called.
Pickup Dialing Set	This feature number enables Pickup Dialing.
Pickup Dialing Cancel	This feature number cancels Pickup Dialing.
Absent Message Set	Assigns the feature number for setting Absent Message. This is used by a user when he wants to inform callers of the reason he is away from his desk. The message will only appear on PITS equipped with display or Attendant Consoles.
Absent Message Cancel	Assigns the feature number for canceling Absent Message.
Timed Reminder Confirm	Assigns the feature number for confirming the time set by Timed Reminder. This feature is available only for PITS equipped with display.
Timed Reminder Set	Assigns the feature number for setting Timed Reminder.
Timed Reminder Cancel	Assigns the feature number for canceling Timed Reminder.
Voice Calling Mode Set	Assigns the feature number for setting Voice Calling Mode. This is set at the calling extension. Voice calling uses the ICM button to make an announcement through the speaker of the called extension when the called extension is idle.
Voice Calling Mode Cancel	Assigns the feature number for canceling Voice Calling Mode. This sets signal alerting.
Voice Calling Deny Set	Assigns the feature number for setting Voice Calling Deny. This is set by the called extension to deny voice calling.
Voice Calling Deny Cancel	Assigns the feature number for canceling Voice Calling Deny.

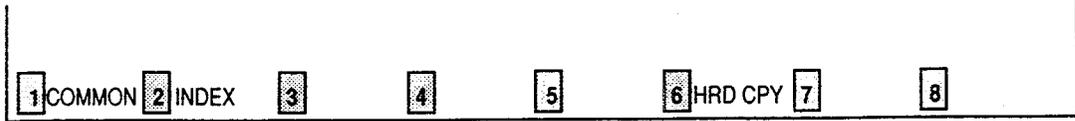
Conditions

Refer to "Numbering Plan (1/9)."

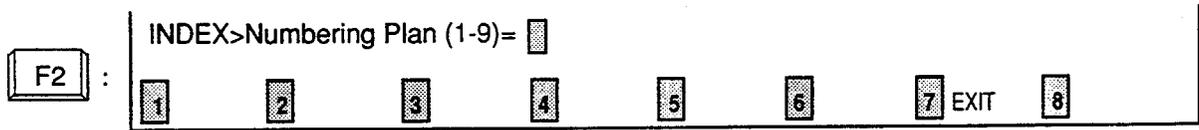
Pickup Dialing Programming This feature number cannot include "#."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only a message is provided here.



6.07 Numbering Plan(7/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (7/9)					
No.	Feature	DG1	DG2	DG3	DG4
73	Speed Dialing - Station Programming	6	*		
74	Station Lock Set	*	6		
75	Station Lock Cancel	#	6		
76	Walking COS Set	*	7		
77	Walking COS Cancel	#	7		
78	Walking Station Set	*	8		
79	Walking Station Cancel	#	8		
80	Message Set	*	9		
81	Message Cancel	#	9		
82	Station Program Clear	#	#	#	
83	Message Waiting Reply	5	7	-	-
84	(Reserve)	-	-	-	-

COMMON 2 INDEX 3 4 5 6 HRD CPY 8

Summary

The seventh screen of the System-Numbering Plan sets feature numbers for executing or canceling various functions.

(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Speed Dialing-Station Programming	6*	Enter one to four digits consisting of numbers, *, and #.	3-B-1.00 5-A-2.01
Station Lock Set	*6		3-B-1.00 4-I-9.00 5-G-7.00
Station Lock Cancel	#6		3-B-1.00 4-C-9.00 5-A-7.00
Walking COS Set	*7		3-B-1.00 3-F-3.00
Walking COS Cancel	#7		
Walking Station Set	*8		

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Walking Station Cancel	#8	Enter one to four digits consisting of numbers, *, and #.	3-B-1.00 3-F-3.00
Message Set	*9		5-G-6.00
Message Cancel	#9		3-B-1.00 4-I-8.00 5-G-6.00 6-J-4.00
Station Program Clear	###		3-B-1.00 4-I-10.00 5-G-8.00
Message Waiting Reply	57		5-G-6.00

Description of Assigning Items

Speed Dialing-Station Programming	Assigns the feature number for setting Speed Dialing to SLT(Single Line Telephone).
Station Lock Set	Assigns the feature number for setting Electronic Station Lock. When set the extension user cannot place outgoing CO calls from that extension.
Station Lock Cancel	Assigns the feature number for canceling Electronic Station Lock Out.
Walking COS Set	Assigns the feature number for setting Walking COS. This allows an extension user to temporarily change the COS of an extension to that of another extension.
Walking COS Cancel	Assigns the feature number for canceling Walking COS.
Walking Station Set	Assigns the feature number for starting to move a telephone set to another location.
Walking Station Cancel	Assigns the feature number for canceling the moved extension.
Message Set	Assigns the feature number for setting Message Waiting indication. This feature number is available only for SLT's not for PITS's.
Message Cancel	Assigns the feature number for canceling Message Waiting indication.
Station Program Clear	Assigns the feature number for clearing data assigned by other feature numbers, such as Call Forwarding/Do Not Disturb/Timed Reminder, etc..
Message Waiting Reply	Assigns the feature number for replying the Message Waiting Indication set by other extensions. This feature number is available only for a Single Line Telephone with MESSAGE lamp.

Conditions

Same as the "Numbering Plan (1/9)."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only a message is provided here.



6.08 Numbering Plan (8/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (8/9)					
No.	Feature	DG1	DG2	DG3	DG4
85	Night Mode Set	7	0	*	
86	Night Mode Cancel	7	0	#	
87	Night Service Manual Mode Set	7	1	*	
88	Night Service Manual Mode Cancel	7	1	#	
89	Flexible Night Service	7	2		
90	Remote Station Lock Set	7	3	*	
91	Remote Station Lock Cancel	7	3	#	
92	Remote DND Set	7	4	*	
93	Remote DND Cancel	7	4	#	
94	Remote FWD Cancel	7	5		
95	Remote FWD Cancel - One Time	7	6		
96	BGM Through External Paging	7	7		

COMMON INDEX 5 4 5 6 HRD CPY 5 8

Summary

The eighth screen of the System-Numbering Plan (Password level : Two or higher) sets feature numbers for executing or canceling various functions.

			Reference
Night Mode Set	70*	Enter one to four digits consisting of numbers, *, and #.	3-B-8.05
Night Mode Cancel	70#		4-I-1.03
Night Service Manual Mode Set	71*		5-G-1.03
Night Service Manual Mode Cancel	71#		3-B-1.00
Flexible Night Service	72		4-I-1.03
			5-G-1.03
			6-J-1.02
			3-B-1.00
			3-B-8.03
			4-I-1.02
			5-I-1.02
			6-J-1.01

Continued

Assigning Items	Default	Selection of Value	Reference
Remote Station Lock Set	73*	Enter one to four digits consisting of numbers, *, and #.	3-B-1.00
Remote Station Lock Cancel	73#		4-I-11.00
Remote DND Set	74*		5-G-9.00
Remote DND Cancel	74#		6-J-5.00
Remote FWD Cancel	75		
Remote FWD Cancel- One Time	76		
BGM Through External Paging	77		3-B-1.00
			4-H-2.00
			5-F-2.00
			6-I-2.00

Description of Assigning Items

Night Mode Set:	Assigns the feature number for setting Night mode manually (for operator 1 only). This is used when night mode is set to "Manual."
Night Mode Cancel	Assigns the feature number for setting Day mode manually (for operator 1 only).
Night Service Manual Mode Set	Assigns the feature number for starting Night Service mode manually (for operator 1 only). This is used when night mode is set to "Auto."
Night Service Manual Mode Cancel	Assigns the feature number for starting Night Service mode automatically (for operator 1 only).
Flexible Night Service	Assigns the feature number for setting an answering point in Night mode (for operator 1 only).
Remote Station Lock Set	Assigns the feature number for setting Electronic Station Lock to extensions (for operators 1 and 2 only).
Remote Station Lock Cancel	Assigns the feature number for unlocking extensions (for operators 1 and 2 only).
Remote DND Set	Assigns the feature number for setting Do Not Disturb to extensions (for operators 1 and 2 only).
Remote DND Cancel	Assigns the feature number for canceling Do Not Disturb for extensions (for operators 1 and 2 only).
Remote FWD Cancel	Assigns the feature number for canceling Call Forwarding-No Answer for extensions (for operators 1 and 2 only).
Remote FWD Cancel-One Time	Assigns the feature number for canceling Call Forwarding-No Answer for extensions only once (for operators 1 and 2 only).
BGM Through External Paging	Assigns the feature number for sending BGM (background music) through External Pager (for operator 1 only).

Conditions

Same as the "Numbering Plan (1/9)."

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3		4		5		6	HRD CPY	7		8
---	--------	---	-------	---	--	---	--	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-I "Operation of Function Keys." Only a message is provided here.

F2	:	INDEX>Numbering Plan (1-9)=														
		1		2		3		4		5		6		7	EXIT	8

6.09 Numbering Plan(9/9)

System - Numbering Plan		OFL	PRG	SCR	DIR
Numbering Plan (9/9)					
No.	Feature	DG1	DG2	DG3	DG4
97	Busy Out Trunk	7	8	*	
98	Unbusy Trunk	7	8	#	
99	OGM Record	7	9	1	
100	OGM Playback	7	9	2	
101	UCD Log In	*	0		
102	UCD Log Out	#	0		
103	Remote Timed Reminder Confirm	7	*	0	
104	Remote Timed Reminder Set	7	*	1	
105	Remote Timed Reminder Cancel	7	#		
106	(Reserve)	-	-	-	-
107	(Reserve)	-	-	-	-
108	(Reserve)	-	-	-	-

COMMON INDEX HRD CPY

Summary

The ninth screen of the System-Numbering Plan sets feature numbers for executing or canceling

various functions.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Busy Out Trunk	78*	Enter one to four digits consisting of numbers, *, and #.	3-B-1.00 3-F-8.00 6-J-10.00
Unbusy Trunk	78#		
OGM Record	791		3-B-1.00 3-F-4.00 6-J-8.00
OGM Playback	792		
UCD Log In	*0		3-B-1.00 4-D-8.00 5-B-6.00
UCD Log Out	#0		
Remote Timed Reminder Confirm	7*0		6-J-13.00
Remote Timed Reminder Set	7*1		
Remote Timed Reminder Cancel	7#		

Description of Assigning Items

Busy Out Trunk	Assigns the feature number for manually putting a trunk into busy status (for operator 1 only).
Unbusy Trunk	Assigns the feature number for canceling Busy Out Trunk (for operator 1 only).
OGM Record	Assigns the feature number for recording OGM (for operator 1 only).
OGM Playback	Assigns the feature number for playback of OGM (for operator 1 only).
UCD Log In	Assigns the feature number for setting extensions to UCD (Uniform Call Distribution) service.
UCD Log Out	Assigns the feature number for removing extensions from UCD service.
Remote Timed Reminder Confirm	Assigns the feature number for confirming the time set by Remote Timed Reminder. This feature is available for the Operator 1 and 2 at the Attendant Consoles only.
Remote Timed Reminder Set	Assigns the feature number for setting Remote Timed Reminder. This feature is available for the Operator 1 and 2 at the Attendant Consoles only.
Remote Timed Reminder Cancel	Assigns the feature number for canceling Remote Timed Reminder. This feature is available for the Operator 1 and 2 at the Attendant Consoles only.

Conditions

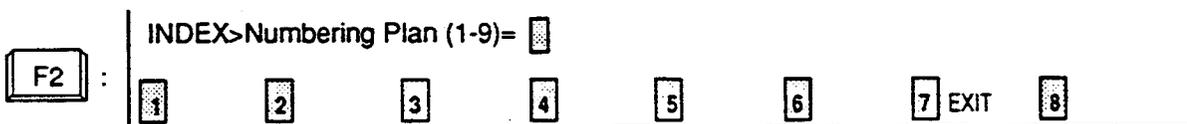
Same as the "Numbering Plan (1/9)."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX keys is also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only a message is provided here.



7.00 Communication Interface

System - Communication Interface				OFL	PRG	SCR	SEL
Item	SIO #1 (Terminal)	SIO #2 (SHDR)	Remote (Modem)				
NL-code	<CR>	<CR+LF>	<CR+LF>				
Baud Rate	1200 baud	1200 baud	1200 baud	300			
Word Length	7 bits	7 bits	8 bits				
Parity	Mark	Mark	Even NONE				
Stop Bit	1 bit	1 bit	1 bit				

COMMON 2 3 4 5 6 HRD CPY 7 8

Summary

Assigns parameters for the RS-232 C ports and Modem (Modulator and Demodulator).
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
NL-Code	<CR+LF>	<CR+LF> : Carriage Return and Line Feed <CR> : Carriage Return	2-D-3.00 3-F-1.00 14-B-2.00
Baud Rate	1200 : for SIO#1,2 300 : for Remote	110/150/300/600/1200/2400/4800/9600 : Baud rate for SIO 300/1200 : Baud rate for Remote	15-B-2.00 16 17
Word Length	7 bits : for SIO#1,2 8 bits : for Remote	7 bits/8 bits: number of bits for SIO 6 bits/7 bits/8 bits: number of bits for Remote	

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Parity	Mark : for SIO#1,2 None : for Remote	None/Mark/Space/Even/Odd : Parity for SIO None/Even/Odd : Parity for Remote	2-D-3.00 3-F-1.00 14-B-2.00 15-B-2.00
Stop Bit	1 bit	1 bit/2 bits : Stop bit for SIO 1 bit/1.5 bits/2 bits : Stop bit for Remote	16 17

Description of Assigning Items

NL-Code	Assigns the New Line code, for Carriage Return, for SIO #1 (Terminal), SIO #2 (SMDR : Station Message Detail Recording) and Remote (MODEM).
Baud Rate	Assigns the Baud rate for SIO #1, SIO #2 and Remote. The baud rate is the number of bits transmitted per second between this system and the device.
Word Length	Assigns the data length for SIO #1, SIO #2 and Remote. The data length is the number of bits required per character.
Parity	Assigns the type of Parity check for SIO #1, SIO #2 and Remote. Mark and space means that there is a fixed polarity parity bit for each character. Even and odd means that the number of bits including the parity bits is even or odd. (1,3,5,7,9 etc. is odd 2,4,6,8, etc. is even)
Stop Bit	Assigns the number of Stop bit for SIO #1, SIO #2 and Remote. Stop bits are used to signal the end of a character and that the next bit received is the start bit of the next character.

Conditions

It is possible to change assigning items in "System-Communication Interface" while On-site administration or Remote administration is performed or SMDR is being printed out. New setting becomes effective when those operation modes are finished.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

8.00 Speed Dialing - System

System - Speed Dialing - System			OFL	PRG	SCR	DIR
System Speed Dial No. = 001						
No.	Type	Dial	<Type>			
			00:NORMAL			
			01:Restriction Level-01			
			02:Restriction Level-02			
			03:Restriction Level-03			
			04:Restriction Level-04			
			05:Restriction Level-05			
			06:Restriction Level-06			
			07:Restriction Level-07			
			08:Restriction Level-08			
			09:Restriction Level-09			
			10:Restriction Level-10			
			11:Restriction Level-11			
			12:Restriction Level-12			
			13:Restriction Level-13			
			14:Restriction Level-14			
			15:Restriction Level-15			
			16:Restriction Level-16			
COMMON INDEX						
HRD CPY						

Summary

Assigns toll restriction levels and speed dialing codes for Speed Dialing.
There are 15 screens provided for Speed

Dialing-System.
(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
Type	00	00 : checked against the system toll restriction feature 01 to 16 : first checked against toll restriction level of extension users.	4-C-4.02 5-A-2.02 6-D-2.01
Dial	blank	Maximum 32 digits composed of numbers, *, # and marks below: P (Pause) F (Flash) - (Hyphen) [(Start of secret dialing)] (End of secret dialing)	4-C-4.02 4-I-5.00 5-A-2.02 6-D-2.01 6-J-3.00

Description of Assigning Items

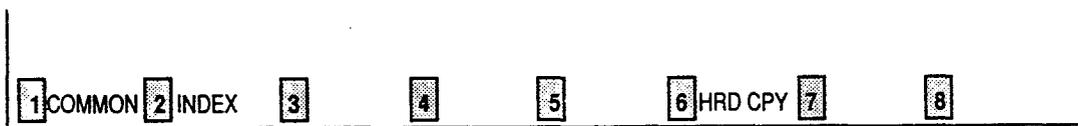
No.	Speed dialing codes appear on the CRT screen.
Type	Assigns the toll restriction level for each of the speed dialing codes.
Dial	Assigns the actual digits to be dialed including numbers, *, #, P, F, -, [,]. There is a maximum of 32 digits. For hiding the digits, surround them with brackets []. The dialed digits are not appeared on the display of PITS (if provided) and SMDR call record.

Conditions

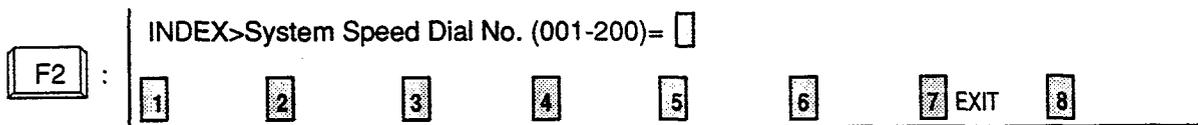
If "System-Operation", Tenant Service is set to "Yes," 200 speed dialing codes can be split between tenant 1 and tenant 2. To split them, "System-Tenant", Speed Dialing-System Boundary must be executed.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX key is also available in this screen. The operation of function keys are described in Section 7-I "Operation of Function Keys." Only a message is provided here.



9.00 Absent Message

System - Absent Message		OFL	PRG	SCR	DIR																																												
<table border="1"> <thead> <tr> <th colspan="2">Fixed Message</th> <th colspan="2">Flexible Message</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Will Return Soon</td> <td>7</td> <td>Gone New York</td> </tr> <tr> <td>2</td> <td>Gone Home</td> <td>8</td> <td></td> </tr> <tr> <td>3</td> <td>In a Meeting</td> <td>9</td> <td></td> </tr> <tr> <td>4</td> <td>Back at XX:XXXX</td> <td>10</td> <td></td> </tr> <tr> <td>5</td> <td>Out Until XX/XX</td> <td>11</td> <td></td> </tr> <tr> <td>6</td> <td>At Ext XXXX</td> <td>12</td> <td></td> </tr> <tr> <td>-</td> <td>-</td> <td>13</td> <td></td> </tr> <tr> <td>-</td> <td>-</td> <td>14</td> <td></td> </tr> <tr> <td>-</td> <td>-</td> <td>15</td> <td></td> </tr> <tr> <td>-</td> <td>-</td> <td>16</td> <td></td> </tr> </tbody> </table>						Fixed Message		Flexible Message		1	Will Return Soon	7	Gone New York	2	Gone Home	8		3	In a Meeting	9		4	Back at XX:XXXX	10		5	Out Until XX/XX	11		6	At Ext XXXX	12		-	-	13		-	-	14		-	-	15		-	-	16	
Fixed Message		Flexible Message																																															
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-	-	15																																															
-	-	16																																															
COMMON 2	3	4	5	6 HRD CPY 7	8																																												

Summary

Sets absent messages.

(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
Fixed Message (1 to 6)	all displayed	Fixed messages which cannot be changed % : enter these at extensions	4-I-7.00 5-G-5.00
Flexible Message (7 to 16)	blank	Flexible message A maximum of 16 digits composed of characters, numbers, and up to five % % : enter these at extensions	

Description of Assigning Items

- Fixed Message (1 to 6) Fixed messages to be displayed on a PITS telephone with the display. These messages cannot be changed by system programming. Extension user can set the desired one to his or her PITS telephone set. If the message assigned contains parameters, these should be entered by the extension user.
- Flexible Message (07 to 16) Assigns variable messages to be displayed on a PITS telephone with the display. These messages can be assigned and changed by system programming. Extension user can set the desired one to his or her PITS telephone and if the message contains any parameters, these should be entered by the extension user.

Conditions

If "System-Operation", Tenant Service is assigned to "Yes," 10 flexible messages (7 to 16) can be split between tenants 1 and 2. To split them, "System-Tenant", Absent Message Boundary is used. Six fixed messages cannot be split between tenants. They are used by both tenants in common.

A flexible message in use by an extension user cannot be changed or deleted. If you attempt, the changed data cannot be saved and the following error message appears on the screen.

***** ERROR: Some extensions are using that message.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

E. Group Screen

1.00 Trunk Group

1.01 Trunk Group(1/2)

```

Group - Trunk Group | OFL | PRG | SCR | SEL
-----+-----+-----+-----+-----
                        Trunk Group No. = 01 (1/2)
-----+-----+-----+-----+-----
| Type -----| DDD |
| Name -----|      |
| Tenant -----| 1 |
| Incoming/Outgoing -----| Incoming Only |
| Incoming Mode (Day) -----| DIL 1:1 |
| Incoming Mode (Night) ---| FLEXIBLE |
| Intercept Routing (Day) -| A T T (Type:No.) |
| Intercept Routing (Night)| E X T:5002 (Type:No.) |
| Toll Restriction Level --| 01 |
| Toll Restriction Table --| 3 |
| Dialing Plan -----| Type-A |
| CO-CO Duration Limit ----| 3 minute(s) (1-64) |
| Disconnect Time -----| 1.5 second(s) |
| Pause Time -----| 3.5 second(s) |
| Hook Switch Flash Time --| None |
-----+-----+-----+-----+-----
COMMON INDEX READ HRD CPY
  
```

Summary

The Group-Trunk Group screen consists of 16 groups, each of which includes two screens. This screen is the first screen used to assign various

data for trunk groups.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Type	DDD	DDD : Direct Distance Dialing FEX : Foreign Exchange WATS : Wide Area Telecommunication Service PVL : Private Line PBX : Behind PBX DID : Direct Inward Dialing	3-B-7.05 3-C-1.01 3-C-1.03 3-C-4.00 3-D-2.03 3-D-2.07
Name	CO	A maximum of three digits consisting of characters, numbers and marks : Trunk group name	3-B-7.05
Tenant	blank	1 or 2 : tenant number	3-B-7.05 3-B-4.00
Incoming/Outgoing	Both-Way	Incoming Only : for Incoming calls only Outgoing Only : for Outgoing calls only Both-Way : for both	3-B-7.05

Continued

Assigning Items	Default	Selection of Value	Reference
Incoming Mode (Day)	ATT: for "with ATLC" DIL 1:1 : for "without ATLC"	ATT : placing calls to the Attendant Console DIL 1:1 : placing calls by Direct In Line 1:1 DIL 1:N : placing calls by Direct In Line 1:N DISA : placing calls by Direct Inward System Access TAFAS 1 : placing calls by Trunk Answer from Any Station-1 TAFAS 2 : placing calls by Trunk Answer from Any Station-2	3-B-7.05 3-D-1.00 3-D-2.01 3-D-2.02 3-D-2.04 4-D-4.00 5-B-2.00
Incoming Mode (Night)	FLEXIBLE	Day Mode : placing calls in Day mode FIXED : placing calls to a Fixed destination FLEXIBLE : placing calls to a Flexible destination DISA : placing calls by Direct Inward System Access	3-B-7.05 3-B-8.00
Intercept Routing (Day)	None	(Type) None : not intercepting ATT : transferring to Attendant Console EXT : transferring to an extension	3-B-7.05 3-F-5.00 3-F-6.00
		(No.) : setting is unnecessary if "None" is selected for type Directory number: if "EXT" is selected for type	
Intercept Routing (Night)	None	(Type) None : not intercepting EXT : transferring to an extension	
		(No.) : if "None" is selected for type, setting is unnecessary Directory number: when "EXT" is selected for type	
Toll Restriction Level	16	01 to 16: toll restriction level	3-B-7.05 3-C-1.03
Toll Restriction Table	1	1 to 8 : area office code table	3-B-7.05 3-C-1.03 9-I-1.00

Continued

Assigning Items	Default	Selection of Value	Reference
Dialing Plan	None <i>EMPTIC TOLL REST. * SET TYPE ALWAYS</i>	Type-A : long distance call 1-NPA+NXX+XXXX local call NXX+XXXX Type-B : long distance call NPA+NXX+XXXX local call NNX+XXXX Type-C : long distance call 1+NPA +NXX+XXXX 1+ NNX+XXXX local call NNX+XXXX None : no Toll Restriction { NPA: Area code NXX, NNX: Office code XXXX: Subscriber number N: 2 to 9 P: 0,1 A: 0 to 9 X : 0 to 9 }	3-B-7.05 3-C-1.00 3-C-2.00
CO-CO Duration Limit	10	1 to 64 : CO-CO duration limit (minute(s))	3-B-7.05 3-B-10.00 3-D-2.02 4-F-1.03 4-F-2.05 4-G-6.01 4-G-6.02 5-D-2.05 6-G-1.04 6-H-2.00
Disconnect Time	1.5	1.5/4.0 : disconnecting time (second(s))	3-B-7.05 3-B-10.00 4-G-8.00 6-H-6.00
Pause Time	3.5	1.5/2.5/3.5/4.5 : pause time (second(s))	3-B-7.05 3-B-10.00 3-C-4.00
Hook Switch Flash Time	None <i>SET ALWAYS</i>	None : no Flash Service 80/300/600/900/1200 : Flash Service hooking * time. (milliseconds)	3-B-7.05 3-B-10.00 4-G-9.00 5-E-3.00

Description of Assigning Items

Type	Assigns a type for each trunk group.
Name	Assigns a name to each trunk group.
Tenant	Assigns the tenant to which each trunk group belongs.
Incoming/Outgoing	Assigns each trunk group to incoming only, outgoing only, or both.
Incoming Mode (Day)	Assigns the destination for incoming calls during day service.
Incoming Mode (Night)	Assigns the destination for calls during night service.
Intercept Routing (Day)	Assigns the destination for Intercept Routing (Day).
Intercept Routing (Night)	Assigns the destination for Intercept Routing (Night).
Toll Restriction Level	Assigns TRLT (Toll Restriction Level of trunk group).
Toll Restriction Table	Assigns Area/Office code table number for Toll Restriction.
Dialing Plan	Selects the dialing plan, selecting "None" causes no Toll Restriction.
CO-CO Duration Limit	Sets the maximum duration for a CO-CO call.
Disconnect Time	Sets disconnecting time. This allows the CO time to release its resources before another call is placed outgoing from the PBX.
Pause Time	Sets the pause time used in speed dialing and hook switch below.
Hook Switch Flash Time	Assigns whether Flash Service is available or not. If available, set the hooking time (pause length).

Conditions

The assigning items: Type, Incoming Mode (Day/Night), Destination (DIL 1:N Only) Type and Number, CO Appearance Type can be changed only when all the trunks belonging to the trunk group are not in use. If any trunk is used, it is impossible to change.

Tenant	If "—" is displayed here, "System-Operation", Tenant Service is set to "No."
Incoming Mode (Day)	If "ATT" "DISA," "TAFAS 1" or "TAFAS 2" is selected, the followings are checked: ATT: Checks whether ATLC card is equipped or not. DISA: Checks whether DISA card is equipped or not. TAFAS 1: Checks whether "System-Operation", External Paging 1 is set to "Yes." TAFAS 2: Checks whether "System-Operation", External Paging 2 is set to "Yes."

Incoming Mode (Night)

If "FIXED" or "FLEXIBLE" is changed to another option, it cancels all the settings of CO lines in "Trunk-CO Line", Night Answer Point (Type:No.) which belong to the trunk group.

If "FLEXIBLE" is changed to "FIXED", the Night Answer Points are not canceled.

If "FIXED" is changed to "FLEXIBLE", the Night Answer Points are not canceled except that "NAG" is assigned as a Night Answer Point.

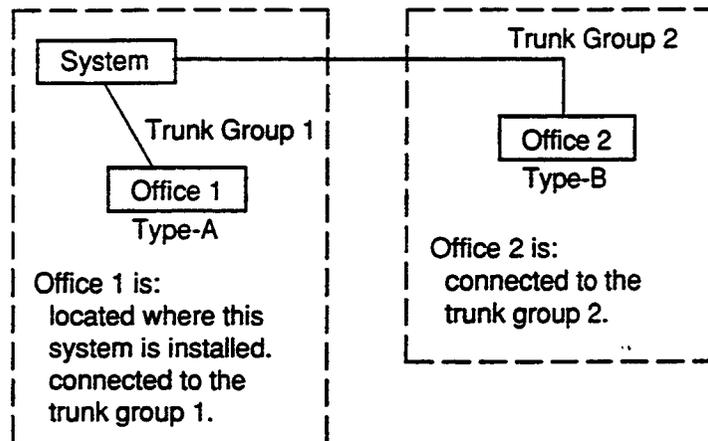
Dialing Plan

The difference between this and "System-Operation", Home Dialing Plan is as follows:

"System-Operation", Home Dialing Plan selects the type of the office where this system is installed.

"Group-Trunk Group", Dialing Plan" selects the type of the office which each trunk group is connected to.

<Example>



In the example above, programming is as follows:

Assign "Type A" in "System-Operation", Home Dialing Plan.

Assign "Type-A" for trunk group 1 and "Type-B" for trunk group 2 in "Group-Trunk Group", Dialing Plan.

Relation between trunk group/CO line setting and PITS DN button setting

1. Private CO setting

If "Extension-Station", Type is set to "PRV-CO" (Private CO) and Number is set to the physical number of a CO line,

(1) Conditions for assigning DN buttons

- The designated CO line is assigned to a trunk group by "Trunk-CO Line", Trunk Group.
The trunk group should have "Group-Trunk Group", Type assigned to "PVL" (Private Line).
- The designated CO line should not be assigned by other extensions.

(2) Conditions for setting trunk groups

If a trunk group changes "Group-Trunk Group", Type assigned to "PVL" (Private Line) to another type and if any CO lines belonging to the trunk group are selected to be "PRV-CO" (Private CO) in "Extension-Station, Type/Number", those CO lines are canceled from "Extension-Station", Type/Number automatically.

2. Single CO, Group CO setting

If "Single CO" or "Group CO" is selected in "Extension-Station", Type,

(1) Conditions of assigning DN buttons

- The designated CO line is assigned to a trunk group in "Trunk-CO Line", Trunk Group.
The trunk group should have "Group-Trunk Group", Type assigned to "DDD" or "FEX" or "WATS" or "PBX."

(2) Conditions of setting "Incoming Mode (Day)"

- 1) If "Incoming Mode (Day)" is changed from "DIL 1:1" to another mode, The trunk group changed to another mode in "Group-Trunk Group", Incoming Mode (Day) is assigned in "Trunk-CO Line", Trunk Group. The "Trunk-CO Line", Direct Termination setting is canceled.
- 2) If "Incoming Mode (Day)" is changed from "DIL 1:N" to another mode, "Group-Trunk Group", Destination (DIL 1: N only) setting is canceled.

(3) Conditions of setting "CO Appearance Type" — This setting is not valid. Refer to Section 3-D-2.10 "Flexible SCO/GCO Assignment" for further information.

(4) Conditions of setting "Type"

Changing "Type" to "PVL" (Private Line) from any other modes cancels "Single CO" or "Group CO" assigned to a DN button of an extension belonging to this trunk group in "Extension-Station", Type.

It is impossible to change from "DID" to any other modes or from any other modes to "DID," if any CO line in "Trunk-CO Line" belongs to the "Group-Trunk Group."

3. Other Conditions

If the following types are selected for "Type," the items listed below cannot be assigned.

Type	Items Impossible to Assign
DDD FEX WATS	DID Digit Modification Table PBX Access Code (No Restriction) PBX Access Code (Restriction)
PVL	Incoming Mode (Day) Incoming Mode (Night) Destination (DIL 1:N Only) DID Digit Modification Table PBX Access Code (No Restriction) PBX Access Code (Restriction) CO Appearance Type
PBX	DID Digit Modification Table
DID	Incoming/Outgoing Incoming Mode (Day) Incoming Mode (Night) Toll Restriction Level Toll Restriction Table Dialing Plan CO-CO Duration Limit Disconnect Time Pause Time Hook Switch Flash Time Destination (DIL 1:N Only) Type and Number PBX Access Code (No Restriction) PBX Access Code (Restriction) Max. Dial No. after EFA Signal CO Appearance Type

If the following types are selected for "Incoming/Outgoing," the items below cannot be assigned:

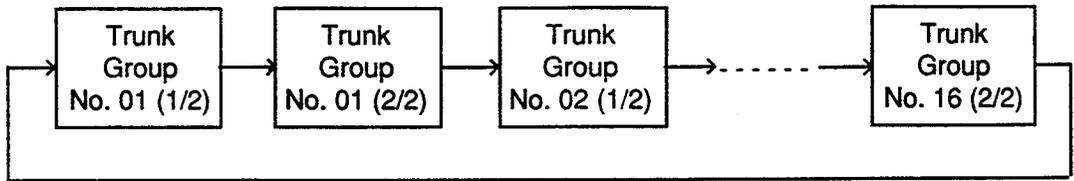
Incoming/Outgoing	Items Impossible to Assign
Incoming Only	Toll Restriction Level Toll Restriction Table Dialing Plan PBX Access Code (No Restriction) PBX Access Code (Restriction)
Outgoing Only	Incoming Mode (Day) Incoming Mode (Night) Destination (DIL 1:N Only)

If the following types are selected for "Incoming Mode (Day)," the item below cannot be assigned:

Incoming Mode (Day)	Items Impossible to Assign
ATT DIL 1:1 DISA TAFAS 1 TAFAS 2	Destination (DIL 1:N Only) Type and Number

If "System-Operation" External Paging 1, 2 is set to "No," "TAFAS 1/TAFAS 2" cannot be assigned to "Incoming Mode (Day)."

When pressing the NEXT key, this screen changes as follows:



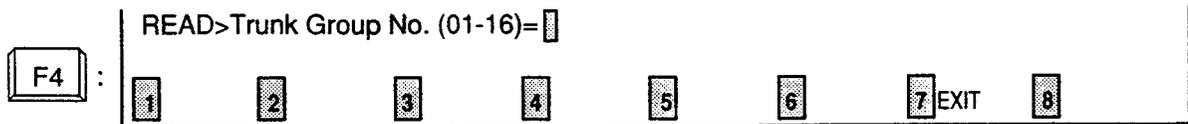
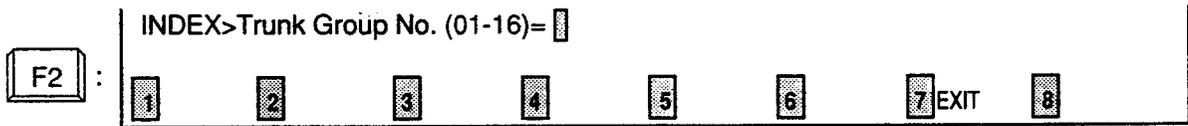
Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHO LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX, READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



1.02 Trunk Group (2/2)

Group - Trunk Group		OFL	PRG	SCR	SEL
Trunk Group No. = 01 (2/2)					
Destination (DIL 1:N Only) Type and Number	PCKUP:01 , PCKUP:02 , E X T:5001, E X T:401 , I C M:1 , E X T:5003, PCKUP:24 , PCKUP:25 ,				
DID Digit Modification Table	1				
PBX Access Code (No Restriction)	811, 812, 813, 814, 82 , 83 , 84 ,				
PBX Access Code (Restriction)	9 , 841, 85 ,				
Max. Dial No. after EFA Signal	0 (0-32)				
CO Appearance Type	Single				
COMMON INDEX READ HRD CPY					

Summary

The Group-Trunk Group screen consists of a maximum of 16 groups, each of which includes two screens. This is the second screen used to

assign various data for trunk groups.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Destination (DIL 1:N Only) Type and Number <i>8 LOCATIONS</i>	blank	Type : destination blank : if not assigned ICM : selecting intercom group PCKUP : selecting pickup group EXT : selecting extension	3-B-7.05 3-D-2.01
	blank	Number blank : when "blank" is selected for type 01 to 32: pickup group number three or four digits : extension number 1 to 8 : intercom group number	
DID Digit Modification Table	blank	1 to 4 : table number	3-B-7.05 3-D-2.03 9-K-2.00

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
PBX Access Code (No Restriction)	blank	Host PBX access code A maximum of three digits composed of numbers Up to eight codes can be assigned. blank : not assigning	3-B-7.05 3-C-1.01 3-C-1.03 3-C-4.00
PBX Access Code (Restriction)	blank	Access codes with restriction A maximum of three digits composed of numbers Up to eight codes can be assigned. blank : not assigning	3-B-7.05 3-C-1.01 3-C-1.03 3-C-4.00
Max. Dial No. after EFA Signal	0	0 : dialing is not acceptable 1 to 32 : maximum dialing digit(s)	3-B-7.05 4-G-9.00 5-E-3.00
CO Appearance Type	Single	Single: single CO Group: group CO <u>(This setting is not valid.) VER. 8</u> <i>Blank</i>	3-B-7.05 3-D-2.01 3-D-2.08 3-D-2.09 3-D-2.10

Description of Assigning Items

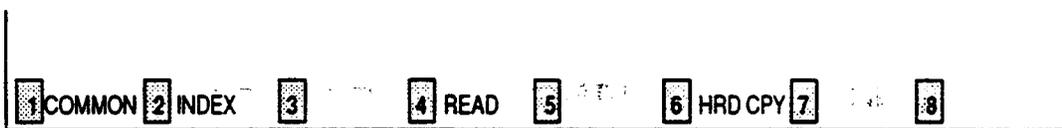
Destination (DIL 1:N only) Type and Number	Assigns destination type and number only when "Incoming Mode (Day)" is set to DIL 1: N (the function which enables an incoming call from one CO line in one trunk group to arrive at one to eight destinations simultaneously without assistance of operator). Orderly setting is not necessary and inserting blanks between the items is permissible.
DID Digit Modification Table	Assigns the digit modification table to be used for DID calls. This allows the DID incoming digits to be modified to match the numbering plan.
PBX Access Code (No Restriction)	In behind PBX or Centrex operation it is necessary for the system to send an access code to the host PBX or Centrex followed by a pause. This feature assigns the access code to be sent.
PBX Access Code (Restriction)	This is the same as PBX Access Code with Pause except that the digits following the access code are checked by the system for toll restriction.
Max. Dial No. after EFA Signal	Assigns maximum dialing digits after sending EFA (External Feature Access) signal.
CO Appearance Type	This setting is not valid. Refer to Section 3-D-2.10 "Flexible SCO/GCO Assignment" for further information.

Conditions

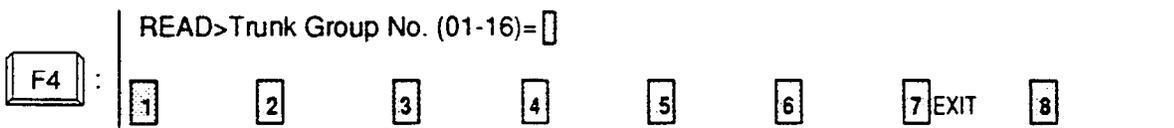
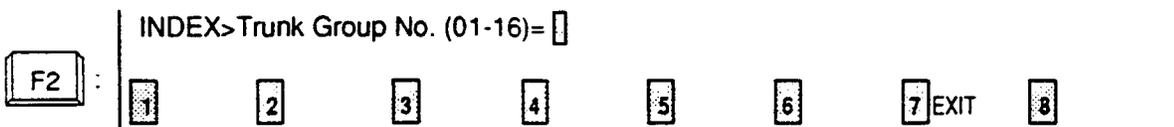
Same as "Group-Trunk Group (1/2)" screen.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHO LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX, READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



2.00 ICM / Paging Group

Tenant Ex's see 9-E-14

Group - ICM/Paging Group		OFL	PRG	SCR	SEL																																				
<table border="1"> <thead> <tr> <th>ICM Group</th> <th>Tenant</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>1</td></tr> <tr><td>3</td><td>1</td></tr> <tr><td>4</td><td>1</td></tr> <tr><td>5</td><td>1</td></tr> <tr><td>6</td><td>1</td></tr> <tr><td>7</td><td>1</td></tr> <tr><td>8</td><td>1</td></tr> </tbody> </table>		ICM Group	Tenant	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1	<table border="1"> <thead> <tr> <th>PAG Group</th> <th>Tenant</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>1</td></tr> <tr><td>3</td><td>1</td></tr> <tr><td>4</td><td>1</td></tr> <tr><td>5</td><td>1</td></tr> <tr><td>6</td><td>1</td></tr> <tr><td>7</td><td>1</td></tr> <tr><td>8</td><td>1</td></tr> </tbody> </table>				PAG Group	Tenant	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1
ICM Group	Tenant																																								
1	1																																								
2	1																																								
3	1																																								
4	1																																								
5	1																																								
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7	1																																								
8	1																																								
COMMON	2	3	4	5	6 HRD CPY																																				

Summary

Assigns intercom groups and paging groups to tenant 1 or 2
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
ICM Group (1 to 8) Tenant	1	1 or 2 : tenant number	3-B-7.01
PAG Group (1 to 8) Tenant	1	1 or 2 : tenant number	3-B-7.04 4-H-1.02 5-F-1.02 6-I-1.02

Description of Assigning Items

ICM Group (1 to 8)
Tenant Assigns intercom groups from 1 to 8 to tenant 1 or 2.

PAG Group (1 to 8)
Tenant Assigns paging groups from 1 to 8 to tenant 1 or 2.

Conditions

This screen must be programmed before programming "Group-Call Pickup Group" screen. However, this screen does not appear if "System-Operation", Tenant Service is set to "No."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen. For operation, refer to Section 7-1 "Operation of Function Keys."

3.00 Call Pickup Group

Group - Call Pickup Group												OFL	PRG	SCR	DIR
PICK	ICM	UCD	PAG	PICK	ICM	UCD	PAG	PICK	ICM	UCD	PAG				
01	1	17	1	12	1	17	1	23	1	17	1				
02	1	17	1	13	1	17	1	24	1	17	1				
03	1	17	1	14	1	17	1	25	1	17	1				
04	1	17	1	15	1	17	1	26	1	17	1				
05	1	17	1	16	1	17	1	27	1	17	1				
06	1	17	1	17	1	17	1	28	1	17	1				
07	1	17	1	18	1	17	1	29	1	17	1				
08	1	17	1	19	1	17	1	30	1	17	1				
09	1	17	1	20	1	17	1	31	1	17	1				
10	1	17	1	21	1	17	1	32	1	17	1				
11	1	17	1	22	1	17	1								

PICK: Call Pickup Group, ICM: ICM Group, UCD: UCD Group, PAG: Paging Group

COMMON HRD CPY

Summary

Assigns ICM (Intercom) group number, UCD (Uniform Call Distribution) group number and PAG (Paging) group number which the call

pickup groups belong to.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
PICK (01 to 32) ICM	1	Pickup group number 1 to 8 : intercom group number	3-B-7.01 3-B-7.02
UCD	blank	01 to 32 : UCD group number blank : the call pickup group does not belong to any UCD group	3-B-7.03 3-D-2.05 3-D-2.06
PAG	blank	1 to 8 : paging group number blank : the call pickup group does not belong to any paging group	3-B-7.04 4-F-1.02 5-F-1.02 6-F-1.02

Description of Assigning Items

PICK (01 to 32)	
ICM	Assigns the intercom group number which the call pickup groups belong to.
UCD	Assigns the UCD (Uniform Call Distribution) group number which the call pickup groups belong to. UCD Group is comprised of more than one pickup group.
PAG	Assigns the paging group number which the call pickup groups belong to. Paging Group is comprised of more than one pickup group.

Conditions

If "System-Operation (1/3)", Tenant Service is set to "Yes," "Group-ICM/Paging Group" setting must be done before setting this screen.

Pickup Groups must belong to any of the ICM groups. The tenant of a pickup group is determined by the tenant of the ICM group to which the pickup group belongs.

When assigning a pickup group to a paging group, the tenant of the two groups must be the same.

A UCD Group is composed of multiple pickup groups.

Conditions of changing ICM Groups

- 1) The tenant of the old and new intercom groups must be the same, unless the system is off-line.
- 2) All the extensions which belong to the old and newly entered intercom groups must not be currently used.
If any line is used, it is impossible to change.

Conditions of changing UCD group

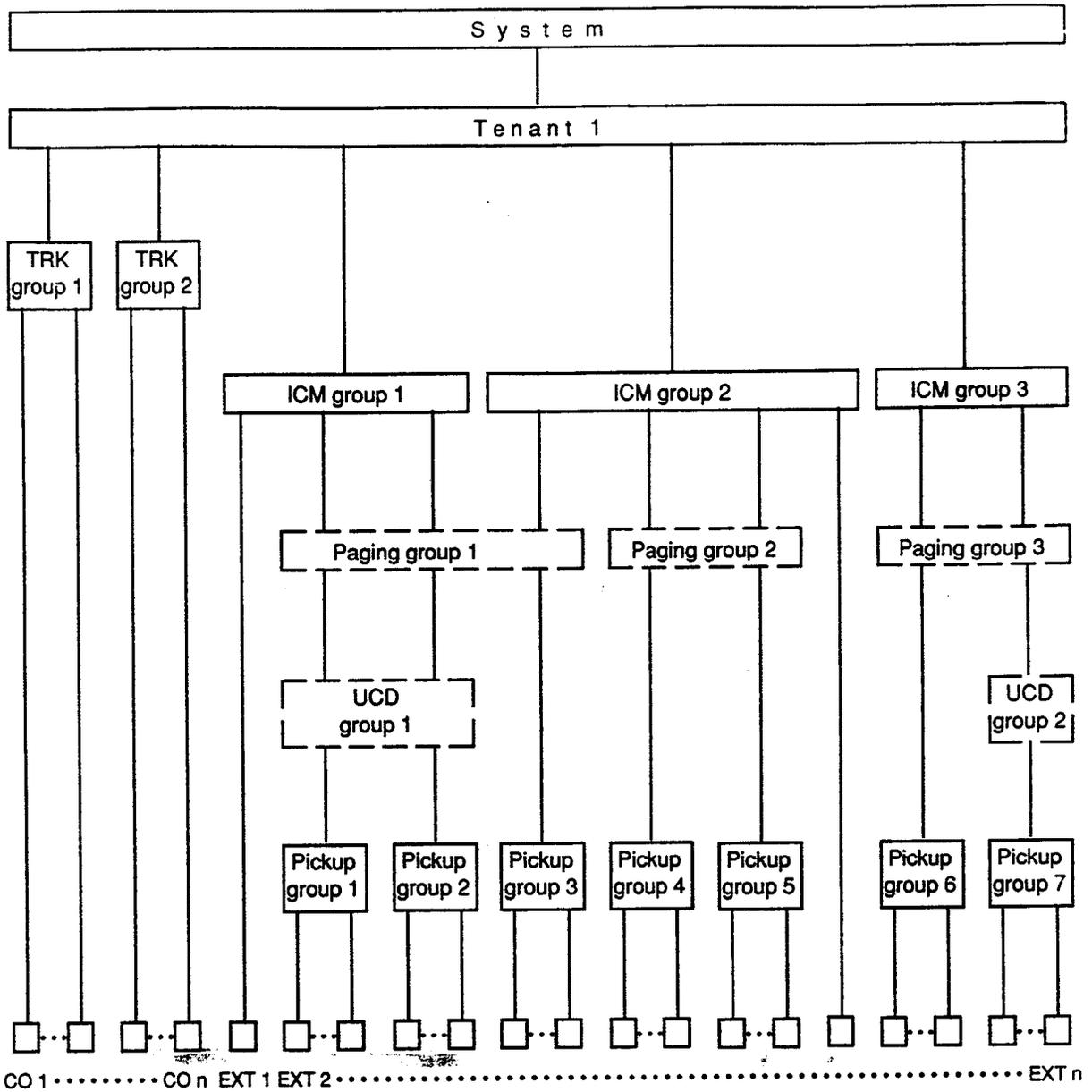
All the extensions which belong to the current and newly entered UCD groups must not be currently used.
If any line is used, it is impossible to change.

Conditions of changing paging group

- 1) The tenant of the old and new paging groups must be the same, unless the system is off-line.
- 2) All the extensions which belong to the old and newly entered paging groups must not be currently used.
If any line is in use, it is impossible to change.

Table of relation between groups

A pickup group cannot belong to multiple intercom groups.
A paging group cannot belong to two tenants. A UCD group cannot belong to multiple ICM groups.



Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

F. Trunk Screen

1.00 CO Line

Trunk - CO Line		OFL	PRG	SCR	DIR
Trunk Equipment No. = 2021					
Trunk Group -----	01				
Trunk Name -----	24				
Direct Termination -----	D N :5000				
Night Answer Point (Type:No.) --	E X T:401				
Dial Mode -----	DTMF				
DTMF Duration Time -----	80 msecond(s)				
Pulse Speed -----	Low Speed				
% Break -----	60 %				
CPC Detection -----	50+8 msecond(s)				
DID Start Arrangement -----	Immediate Start				
COMMON 2 INDEX 3 4 READ 5 6 HRD CPY 7 8					

Summary

Assigns various parameters for CO lines.
 This screen does not appear if any CO trunk card (LCOT, GCOT, DID) is not assigned in Configuration-Slot Assignment screen.

144 screens are provided for CO Line.
 (Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
Trunk Group	01 : for CO 16 : for DID	01 to 16 : trunk group number	3-B-7.05
Trunk Name	TXXXX Physical number	A maximum of ten digits composed of letters, numbers and symbols blank : no trunk name programmed	4-A-4.04
Direct Termination	blank : for "with ATLC" Directory number : for "without ATLC" in physical number order of extensions paired with CO lines	DN and directory number (three or four digits): call destination (Extension, Remote FDN, UCD FDN) None : no direct termination	3-D-2.01

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Night Answer Point (Type : No.)	Directory number : for each extension in physical number order	Type (select input) None : no Night Answer Point UNA : Universal Night Answer EXT : Extension User RMT : Remote Administration NAG : Night Answer Group No. 1 or 2 : for "UNA" three or four digits : extension number for "EXT"	3-B-8.00 10-C-59.00
Dial Mode	DTMF	DTMF : DTMF mode Pulse : Pulse mode	3-C-3.00 10-C-51.00
DTMF Duration Time	80 msec	80 msec/160 msec : duration time	3-B-10.00
Pulse Speed	blank	Low Speed/High Speed : pulse speed	None
% Break	blank	60% / 67% : % break	10-C-51.00
CPC Detection	50 (400ms)	00 : unavailable for CPC detection 01 : 6.5 mseconds detection 02 to 75 : 8 N mseconds detection	3-B-10.00 3-F-7.00 10-C-49.00
DID Start Arrangement	Send Delay Wink	Immediate Start : immediate start type Send Delay Wink : wink start type	3-D-2.03

Description of Assigning Items

Trunk Group	Assigns the trunk group number of the CO line.
Trunk Name	Assigns the name of the CO line. This will appear on the CRT screen of the Attendant Console and the display of PITS telephone (if provided) when making or receiving a CO call.
Direct Termination	Assigns the directory number of the destination, when the trunk group of the line is set to "DIL 1:1" in Incoming Mode (Day).
Night Answer Point (Type : No.)	Assigns Night Answer point when the "Incoming Mode (Night)" is assigned to "FIXED" or "FLEXIBLE." "NAG" can be selected only when Trunk Group "Incoming Mode (Night)" is assigned to "FIXED." If it is not assigned to "FIXED" nor "FLEXIBLE," "—" appears in the setting field, and it is impossible to assign a destination.
Dial Mode	Assigns the dial type (DTMF or Pulse). This is the output mode regardless of the dial mode of the telephone used. If Pulse is selected, refer to Section 10-C-51.00 "World Select 1 (WS1)" about the following items. <ul style="list-style-type: none">• Interdigit Pause• Pulse Type• % Break Detect
DTMF Duration Time	Assigns the duration of the DTMF tones sent. It is possible to assign this option only when the "Dial Mode" is set to "DTMF. When the dial mode is set to "Pulse," this field is blank.
Pulse Speed	Assigns the pulse speed. It is possible to assign this option only when the "Dial Mode" is set to "Pulse." When the dial mode is set to "DTMF," this field is blank.
% break	Assigns the % break for pulse digits. This is the ratio between on and off hook signals during digit transmission.
CPC Detection	Assigns the expected minimum duration for detecting CPC (Calling Party Control) signal.
DID Start Arrangement	Assigns DID start type. When the trunk group of the line is set to "DID", there are two methods of initiating a call. One is immediate start where the system outputs the digits as soon as the trunk is seized and the other is where the system waits for a signal (wink start) from the far end before any digits are sent.

Conditions

Before setting this screen, "Group-Trunk Group" screen must be programmed. This screen cannot be selected from Trunk-submenu screen, if no CO trunk card (LCOT or GCOT or DID) is programmed in "System-Configuration", Slot Assignment. If any one of the CO trunk cards is programmed, this screen can be selected.

When selecting "1. CO Line" in Trunk submenu screen, the setting screen which has the smallest Trunk Equipment No. appears on the screen first.

If the "Group-Trunk Group" containing the CO line has "Type" assigned to "DID," the following items cannot be entered : "—" is displayed :

- Direct Termination
- Night Answer Point (Type : No)
- Dial Mode
- DTMF Duration Time
- Pulse Speed
- % Break
- CPC Detection

If "the Group-Trunk Group" containing the CO line has "Type" assigned to anything other than "DID," the following item cannot be entered : "—" is displayed :

- DID Start Arrangement

Direct Termination This is assignable only when the "Group-Trunk Group" containing the CO line has "Incoming Mode (Day)" assigned to "DIL 1:1," Otherwise, "—" is displayed and setting is impossible.

Night Answer Point (Type : No) This is assignable only when the "Group-Trunk Group" containing the CO line has "Incoming Mode (Night)" assigned to "FIXED" or "FLEXIBLE." Otherwise, "—" is displayed and setting is impossible.

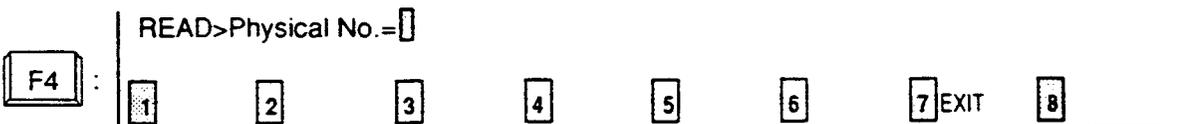
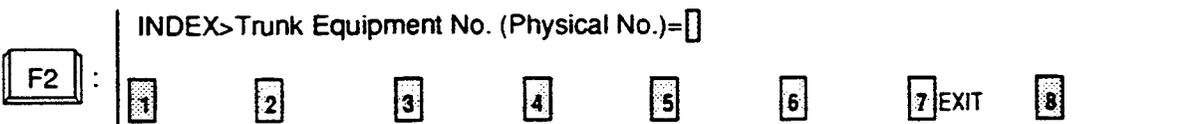
When pressing the NEXT key, this screen appears in ascending order of Trunk Equipment number. After the largest number appears, the smallest one appears. Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



2.00 Pager and Music Source

Trunk - Pager & Music Source					OFL	PRG	SCR	DIR
		Tenant	Tone	BGM				
External Pager	1	1	Yes	Yes				
	2	1	Yes	No				
		Tenant	For Use					
Music Source	1	1	Hold&BGM					
	2	1	Hold&BGM					

COMMON HRD CPY

Summary

Assigns external pagers and music sources. This screen does not appear when all the assigning items of "External Paging 1, 2" and "External

Music Source 1, 2" are set to "No" in the System-Operation (1/3) screen. (Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
External Pager 1/2 Tenant	1	1 : tenant 1 2 : tenant 2	3-D-2.04 4-D-4.00 4-H-1.03 4-H-1.04 4-H-2.00 5-B-2.00 5-F-1.03 5-F-1.04 5-F-2.00 6-I-1.03 6-I-1.04 6-I-2.00

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
External Pager 1/2 Tone	No	Yes : sending confirmation tone No : not sending confirmation tone	3-B-15.00 4-H-1.03 4-H-1.04 4-H-2.00 5-F-1.03 5-F-1.04 5-F-2.00 6-I-1.03 6-I-1.04 6-I-2.00
BGM	No	Yes : sending BGM -- <i>op THROWS OFF/ON</i> No : not sending BGM	4-H-2.00 5-F-2.00 6-I-2.00
Music Source 1/2 Tenant	1	1 : tenant 1 2 : tenant 2	3-E-1.00 3-F-13.00 4-H-2.00 4-I-4.00
For Use	Hold & BGM	Hold : using for source of Music on Hold BGM : using for source of BGM Hold & BGM : using for source of Music on Hold or BGM	5-F-2.00 6-I-2.00

Description of Assigning Items

External Pager 1.2 Tenant	Assigns the tenant number which the pager and music source belong to.
Tone	Determines whether confirmation tone will be sent or not at the beginning of using the external pager.
BGM	Assigns whether BGM will be sent or not when the external pager is idle.
Music Source 1/2 Tenant	Assigns the tenant number which the pager and music source belong to.
For Use	Assigns usage. This determines at which times the music sources will be used.

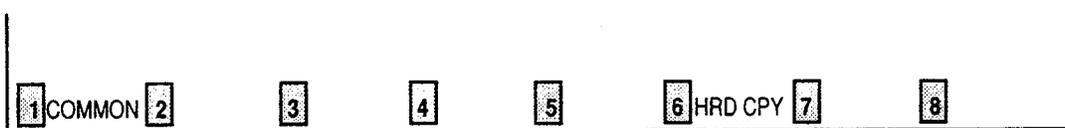
Conditions

This screen cannot be selected if "System-Operation", External Paging 1, 2/External Music Source 1, 2 are all set to "No."

External Pager Tenant	"—" will be displayed here if "System-Operation", Tenant Service is set to "No."
Tone/BGM	"—" will be displayed here if "System-Operation", External Paging 1, 2 is set to "No."
Music Source Tenant	"—" will be displayed here if "System-Operation", Tenant Service is set to "No."
For Use	"—" will be displayed here if "System-Operation", External Music Source 1, 2 is set to "No."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.
For operation, refer to Section 7-1 "Operation of Function Keys."

3.00 AGC

Trunk - AGC				OFL	PRG	SCR	DIR																				
<table border="1"> <thead> <tr> <th>AGC card</th> <th>Shelf No.</th> <th>Slot No.</th> <th>Tenant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>03</td> <td>1</td> </tr> <tr> <td>2</td> <td>1</td> <td>04</td> <td>1</td> </tr> <tr> <td>3</td> <td>1</td> <td>05</td> <td>1</td> </tr> <tr> <td>4</td> <td>2</td> <td>11</td> <td>2</td> </tr> </tbody> </table>				AGC card	Shelf No.	Slot No.	Tenant	1	1	03	1	2	1	04	1	3	1	05	1	4	2	11	2				
AGC card	Shelf No.	Slot No.	Tenant																								
1	1	03	1																								
2	1	04	1																								
3	1	05	1																								
4	2	11	2																								
Tone Detect				Yes																							

COMMON HRD CPY

Summary

Assigns tenant number which the AGC (Automatic Gain Control) card belongs to, and executing tone detection or not.

(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
AGC card (1 to 4) Tenant	1	1 : tenant 1 2 : tenant 2	3-D-2.02 4-G-5.00 4-G-6.00 5-E-1.00
Tone Detect	Yes	Yes : tone detection is available No : tone detection is unavailable	6-H-1.00 6-H-2.00

Description of Assigning Items

AGC card (1 to 4)
Tenant

Assigns the tenant number which the AGC card belongs to.

Tone Detect

Assigns whether detecting of the CPC (Calling Party Control) signal is done at the end of the CO-CO conversation or not.

Conditions

This screen cannot be selected if "System-Configuration," Slot Assignment has no AGC card programmed.

AGC card
Tenant

"—" will be displayed here if "System-Operation", Tenant Service is set "No."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

G. Extension Screen

1.00 Station

1.01 Station (1/3)

Extension - Station	OFL	PRG	SCR	SEL
Station Equipment No. = 1012 (1/3)				
Telephone Type -----	PITS			
Model -----	KX-T123235(7130)			
OHCA Circuit -----	Yes			
Primary Directory Number --	5000			
Intercom Number -----	11			
Station Name -----	B.Harrison			
ICM Group -----	1			
Pickup Group -----	None			
Next Hunt Station -----	E X T:5001			
Class of Service -----	32			
Data Line Security -----	Yes			
Automatic Callback - Trunk	Yes			
Parallel Connect -----	No			
Message Waiting Indication-	-			
COMMON INDEX READ HRD CPY AUTOCNF				

Summary

This is the first screen of Extension-Station which sets the parameters for each extension. There are 288 screens are provided for Station,

each of which has three screens. (Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
Telephone Type	SLT : for SLC PITS : for PLC and HLC OPX : for OPX	PITS: Proprietary Integrated Telephone System SLT : Single Line Telephone OPX : Off Premise Extension	3-B-9.00 3-F-2.00
Model	KX-T123235 (7130)	KX-T123250 KX-T123220 KX-T123230 KX-T123235 (7130) KX-T61650 KX-T61620 KX-T61630 KX-T30850(7055) KX-T30820 KX-T30830 KX-T7050 KX-T7020 KX-T7030	4-A-2.00

Continued

Assigning Items	Default	Selection of Value	Reference
OHCA Circuit	No	No : without OHCA circuit Yes : with OHCA circuit	4-C-5.05 4-G-11.00
Primary Directory Number	100~: for each extension number in physical number order	Three or four digit extension number	4-B-3.01
Intercom Number	blank	One or two digit intercom number blank : no intercom number	3-B-7.01 4-B-3.03 4-C-5.02 to 5.05
Station Name	blank	A maximum of ten digits using letters and/or numbers	4-A-4.06 11-C-5.00
ICM Group	1	1 to 8 : intercom group number	3-B-7.01 4-C-5.02 to 5.05
Pickup Group	None	Type (select input) None : when not in a pickup group pckup : when in a pickup group No. 01 to 32 : pickup group number when "Pickup" is selected	3-B-7.02 4-D-3.00 5-B-1.00 6-C-8.00
Next Hunt Station	None	Type (select input) None : no setting "Next Hunt Station" EXT : Next Hunt Station No. Three or four digits : extension directory number when setting "Next Hunt Station"	3-D-5.01 to 5.02
Class of Service	01 : for DN 100 02 : for the others	01 to 32: COS number	3-B-6.00
Data Line Security	No	Yes : Data Line Security mode is available No : Data Line Security mode is unavailable (normal mode only)	4-I-6.00 5-G-4.00
Automatic Callback-Trunk	Yes	Yes : Automatic Callback-Trunk is available No : Automatic Callback-Trunk is unavailable	4-C-6.01 5-A-4.01
Parallel Connect	No	Yes : Parallel Connection is available No : Parallel Connection is not available	2-C-4.00 3-F-9.00
Message Waiting Indication	None	None : The KX-T7051 can not receive the message waiting indication Lamp : The KX-T7051 can receive the message waiting indication <i>single lamp</i>	5-G-6.00

Description of Assigning Items

Telephone Type	Selects the telephone type to be connected.
Model	Selects the model number when PITS is set as the telephone type in the above item.
OHCA Circuit	Determines whether the selected phone supports OHCA or not.
Primary Directory Number	When a "DN" is assigned in the Configuration-DN Assignment screen, the PDN (Primary Directory Number) is assigned automatically. It is possible to select a new PDN provided it matches the numbering plan and there is no conflict.
Intercom Number	Assigns an intercom number. This field is optional.
Station Name	Assigns the station name of the extension. This is displayed on the CRT display of Attendant Console and display of PITS telephone (if provided).
ICM Group	Assigns the intercom group number of the extension.
Pickup Group	Assigns the pickup group number of the extension. This item is optional.
Next Hunt Station	Assigns the next hunting destination in the hunting sequence. This item is optional.
Class of Service	Assigns the COS (Class of Service) level for the extension.
Data Line Security	Assigns whether "Data Line Security mode" is available or not. When set to "No," setting "Data Line Security mode" by dialing the feature number is impossible.
Automatic Callback-Trunk	Assigns whether the Automatic Callback-Trunk feature is available or not.
Parallel Connect	Assigns whether the Parallel connection of PITS and SLT is available or not.
Message Waiting Indication	Assigns whether a Single Line Telephone with MESSAGE lamp can receive the message waiting indication or not.

Conditions

This screen cannot be selected from Extension-submenu screen if "System-Configuration", Slot Assignment does not have any of extension cards (PLC, SLC, HLC, OPX) programmed or if "System-Configuration", DN Assignment does not have the extension number programmed.

If PITS telephone KX-T123230D is connected, select KX-T123235 (7130) for PITS Model.

PITS KX-T123230D is functionally equivalent to KX-T123235 and KX-T7130.

Telephone Type

Assignable telephone types differ depending on the card types connected to the extensions, as follows:

Card Type	Telephone Type Assignable
PLC	PITS
SLC	SLT
HLC	PITS or SLT
OPX	OPX

If "SLT" or "OPX" is selected, "—" will appear in the following items in "Extension-Station (1/3)" screen and setting is impossible:

- Model
- OHCA Circuit
- Intercom Number
- Parallel Connect

OHCA Circuit

This setting applies not to executing side but to receiving side.

Intercom Number

Intercom numbers can be one or two digits.

Within an intercom group, if one digit intercom number is assigned, it is prohibited to use the digit as the leading digit of another two-digit intercom number.

For instance, if the digit "2" is assigned as an intercom number, the digits "20" cannot be assigned as another intercom number in the same intercom group.

Next Hunt Station

It is impossible to store the extension number of the setting extension, as well as the extension numbers assigned by other extensions as to be their Next Hunt Station.

Parallel Connect

Parallel Connection with SLT is available only when PITS telephone interfaced with HLC card is selected.

If PITS telephone interfaced with PLC card is selected, " - " will appear in Parallel Connect field and parallel connect assignment is not available.

Message Waiting Indication

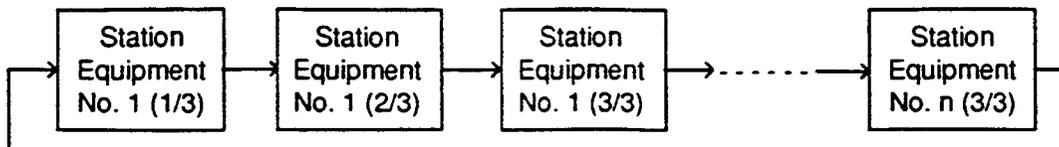
The setting of "Lamp" is valid only when the extension is an SLT with MESSAGE lamp which is interfaced with the KX-T96175 (SLC card with Message Waiting).

If an extension card other than the KX-T96175 is installed, "—" appears and this item cannot be assigned.

Note:

Be sure to select "None" for this setting if an SLT without MESSAGE lamp is interfaced with the KX-T96175.

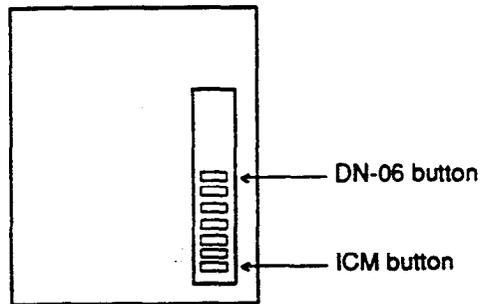
When pressing the NEXT key, this screen changes as follows:



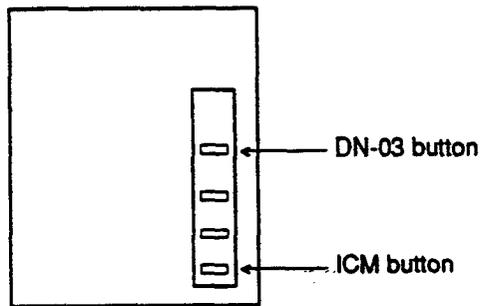
Pressing the PREV key changes the screen in reverse order.

Conditions for Assigning the MESSAGE button

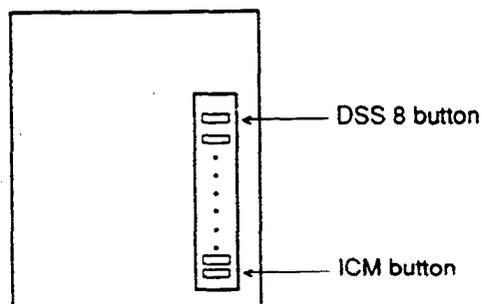
- KX-T1232XX series PITS's:
The MESSAGE button cannot be assigned, for these PITS's are already provided with the MESSAGE button.
- KX-T616XX series PITS's:
Assignable to the DN-06 button only.



- KX-T30820, KX-T30850
Assignable to the DN-03 button only.

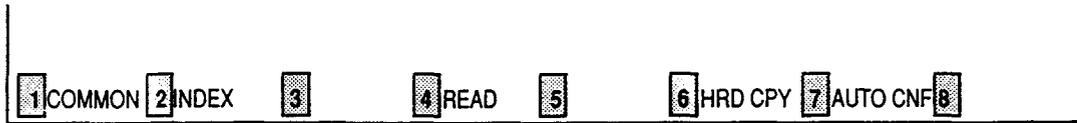


- KX-T30830
Assignable to the DSS 8 button only.

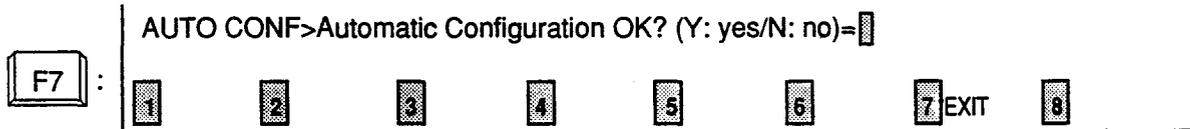
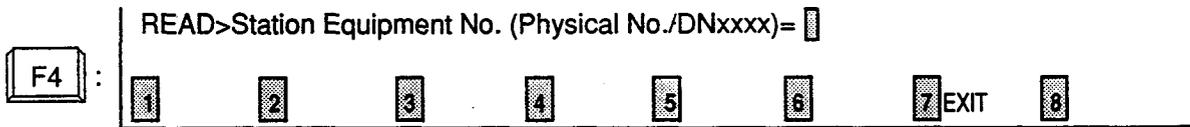
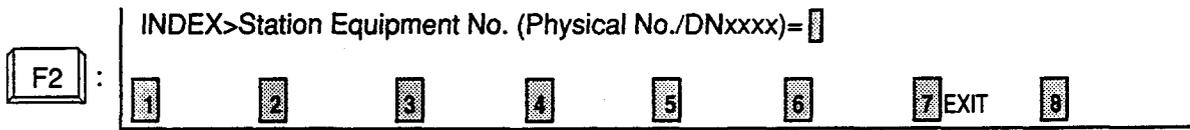


Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX, READ and AUTO CNF keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operatin of Funtcion Keys." Only messages are provided here.



1.02 Station (2/3)

Extention - Station				OFL	PRG	SCR	SEL
Station Equipment No. = 1012 (2/3)							
Key	Type	Number	SDN COS	Day Ring	Night Ring		
DN-01	PDN	5000		Delayed 3	Instantly		
DN-02	PDN	5000		Delayed 3	Instantly		
DN-03	PDN	5000		Delayed 3	Instantly		
DN-04	SDN	5001	Station	Instantly	Instantly		
DN-05	SDN	5002	DN	Delayed 1	Delayed 1		
DN-06	SDN	5003	DN	Delayed 3	Delayed 3		
DN-07	SDN	5004	DN	Instantly	No Ring		
DN-08	SDN	5005	DN	Delayed 1	Delayed 1		
DN-09	PRV-CO	2021					
DN-10	PRV-CHG						
DN-11	DSS (ICM)	16					
DN-12	ONETOUCH	1234567890123456					
Note: PITS Only							
COMMON	INDEX		READ		HRD CPY		

Summary

Assigns DN buttons when "Telephone Type" is set to "PITS" in the Extension-Station (1/3) screen.

(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
DN-(01 to 12) Type	PDN for DN-01 blank for the others	PDN : Primary Directory Number button SDN : Secondary Directory Number button PRV-CO : Private CO button OHCA : Off Hook Call Announcement button MW : Message Waiting button LOGIN : UCD Log In button ALARM : Local Alarm button SINGLE CO : Single CO button GROUP CO : Group CO button DSS (DN) : Direct Station Selection (DN) button DSS (ICM) : Direct Station Selection (ICM) button ONETOUCH: One Touch button PRV-CHG : Privacy Change button EXT FEAT : External Feature Access button	3-D-2.07 to 2.09 4-B-2.00 4-B-3.00 4-C-3.04 4-C-4.01 4-D-8.00 4-E-5.01 4-E-5.02 4-E-6.00 4-F-1.04 4-G-2.00 4-G-3.00 4-G-9.00 (cont.)

Continued

Assigning Items	Default	Selection of Value	Reference
DN-(01 to 12) (cont.) Type		CALL PAR : Call Park System button CALL STA : Call Park Station button RNG TRAN : Ringing Transfer button SPLIT : Call Split button TONE-BRK : Tone Through Break button	(cont.) 4-G-12.00 4-I-8.00 14-D-1.05
Number	blank	Three or four digits : directory number for "PDN," "SDN", "DSS (DN)" 1011 to 3158 : physical number for "PRV-CO," "Single CO" One or two digits : intercom number for "DSS(ICM)" 01 to 16 : trunk group number for "Group CO" Maximum 16 digits : destination number for "ONETOUCH"	3-B-7.01 3-D-2.07 to 2.09 4-B-3.01 4-B-3.02 4-B-3.04 to 3.06 4-C-3.04 4-C-4.01
SDN COS	blank	Station : using COS of own extension DN : using COS of PDN	4-B-3.02
Day Ring	blank	No ring : with lamp only, not ringing Instantly : instantly ringing Delayed 1 : delayed 1 ring Delayed 3 : delayed 3 rings Delayed 6 : delayed 6 rings	3-B-10.00 3-D-3.01 to 3.02
Night Ring	blank	Same as "Day Ring"	

Description of Assigning Items

- DN-(01 to 12)
Type Assigns the use of the DN buttons. The DN-01 button is fixed to PDN and cannot be changed or deleted.
- Number Assigns the number for each DN button which is preset to "PDN," "SDN," "PRV-CO," "DSS (DN)," "DSS (ICM)," "Group CO" or "ONETOUCH"
- SDN COS Assigns whether the COS of the SDN button is that of the extension (PDN-Primary Directory Number) or the COS of the SDN (Secondary Directory Number) extension.
- Day Ring Assigns whether incoming calls have immediate or delayed ringing on PDN, SDN, SCO or GCO buttons in Day mode. The ringing assignment of the first PDN can also be changed with this option.
- Night Ring Assign similarly as the above item except this applied in Night mode.

Conditions

This screen cannot be selected if "Extension-Station (1/3)", Telephone Type is set to "SLT" or "OPX."

Some items cannot be programmed depending on the setting of "Extension-Station (1/3)", Model. They are indicated by "—."

Assignable items are DN buttons of the programmed model. For example, if KX-T30830 is programmed as the model, assignable items will be as follows:

<Example>

Extention - Station		OFL	PRG	SCR	SEL
Station Equipment No. = 1012 (2/3)					
Key	Type	Number	SDN COS	Day Ring	Night Ring
DN-01	PDN	5000	—		
DN-02					
DN-03					
DN-04	—	—	—	—	—
DN-05	—	—	—	—	—
DN-06	—	—	—	—	—
DN-07	—	—	—	—	—
DN-08	—	—	—	—	—
DN-09	—	—	—	—	—
DN-10	—	—	—	—	—
DN-11	—	—	—	—	—
DN-12	—	—	—	—	—

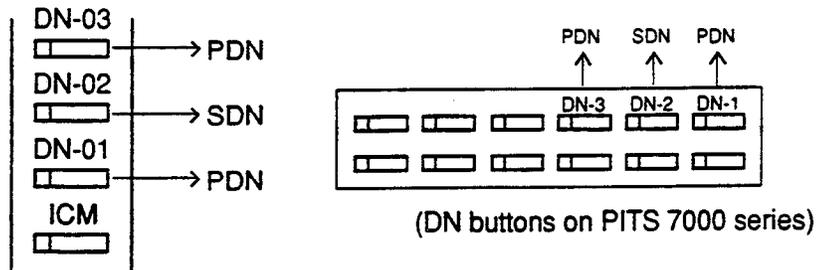
Automatic setting

Programmable items

Not program-able items

The DN-01 through 03 buttons are assigned as the PDN buttons automatically.
 The DN-01 button is fixed to a PDN button and cannot be changed to another assignable feature button.
 The PDN buttons assigned to the DN-02 and 03 buttons can be changed to another assignable feature button and vice versa.
 When two or three PDN buttons are used, they must be arranged consecutively.

For example, it is not possible to program as follows:



(DN buttons on PITS type 20, 30 and 50)

Type

If "PRV-CO" (Private CO) is selected, a physical number of the selected CO line must be programmed in "Number."
 The CO line of the physical number belongs to a "Trunk-CO Line", Trunk Group.

The trunk group where the CO line belongs must have "Group-Trunk Group", Type assigned to "PVL" (Private Line).

If "Single CO" is selected, a physical number of the selected CO line must be programmed in "Number."

The CO line of the physical number belongs to a "Trunk-CO Line", Trunk Group. The trunk group of the CO line must have "Group-Trunk Group", Type assigned to "DDD" or "FEX" or "WATS", or "PBX."

If "Group CO" is selected, a trunk group number of the selected trunk group must be programmed in "Number."

The programmed trunk group must have "Group-Trunk Group", Type assigned to "DDD" or "FEX" or "WATS" or "PBX."

To select this screen, press the NEXT key in the "Extension-Station (1/3)" screen.

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3		4	READ	5		6	HRD CPY	7		8
---	--------	---	-------	---	--	---	------	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.

F2	INDEX>Station Equipment No. (Physical No./DNxxxx)=													
	1	2	3	4	5	6	7	EXIT	8					

F4	READ>Station Equipment No. (Physical No./DNxxxx)=													
	1	2	3	4	5	6	7	EXIT	8					

1.03 Station (3/3)

Extention - Station			OFL	PRG	SCR	SEL
Station Equipment No. = 1012 (3/3)						
PF Key	Type	Number	DSS Key	Type	Number	
01	ONETOUCH	1234567890123456	1	ONETOUCH	1234567890123456	
02	DSS(ICM)	14	2			
03	EXT FEAT		3			
04	RNG TRN		4			
05			5			
06			6			
07			7			
08			8			
09						
10						
11						
12						
Note: PITS Only						
COMMON	INDEX	READ	HRD CPY			

Summary

Assigns PF (Programmable Feature) buttons and DSS (Direct Station Selection) buttons (model KX-T30830 only) when "Telephone Type" is preset to "PITS" in the Extension-Station (1/3)

screen.

This screen does not appear when "Telephone Type" is preset to any other type.
(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
PF Key (01 to 16) Type	blank	DSS (ICM) : Direct Station Selection (ICM) button ONETOUCH : one touch button EXT FEAT : External Feature Access button CALL PAR : Call Park system button CALL STA : Call Park station button RNG TRAN : Ringing Transfer button FWD / DND : FWD/DND button SPLIT : Call Split button TONE-BRK : Tone Through Break button SNR : Saved Number Redial button	4-B-2.00 4-C-4.01 4-C-4.05 4-D-6.00 4-E-5.01 4-E-5.02 4-E-6.00 4-F-1.04 4-F-2.01 to 2.05 4-G-9.00 4-G-12.00
Number	blank	Maximum 16 digits : destination number for "ONETOUCH" One or two digits : intercom number for "DSS(ICM)"	3-B-7.01 4-C-4.01

Continued

Assigning Items	Default	Selection of Value	Reference
DSS Key (1 to 8) Type	blank	MW : Message Waiting button LOGIN : UCD Log In button ALARM : Local Alarm button DSS(DN) : Direct Station Selection(DN) button DSS(ICM) : Direct Station Selection (ICM) button ONETOUCH : One Touch button PRV-CHG : Privacy Change button EXT FEAT : External Feature Access button CALL PAR : Call Park System button CALL STA : Call Park Station button RNG TRAN : Ringing Transfer button SPLIT : Call Split button TONE-BRK : Tone Through Break button blank : not assigned	4-B-2.00 4-C-4.01 4-D-8.00 4-E-5.01 4-E-5.02 4-E-6.00 4-F-1.04 4-G-2.00 4-G-3.00 4-G-9.00 4-G-12.00 4-I-8.00 14-D-1.05
Number	blank	Three or four digits : directory number for "DSS(DN)" One or two digits : intercom number for "DSS(ICM)" Maximum 16 digits : destination number for "ONETOUCH"	3-B-7.01 4-C-4.01

Description of Assigning Items

PF Key (01 to 16)

Type

Assigns the type of the programmable feature buttons.

Number

Assigns the number for individual PF button which is preset to "ONE TOUCH" or "DSS (ICM)".

DSS Key (1 to 8)

Type

Assigns the type of the DSS buttons.

Number

Assign the number for each DSS button which is preset to "ONETOUCH," "DSS (DN)," or "DSS (ICM)".

Conditions

To select this screen, press the NEXT key in the "Extension-Station (2/3)" screen.

Only the PF3 button on PITS type 50 and KX-T7050 can be programmed to the FWD/DND button.

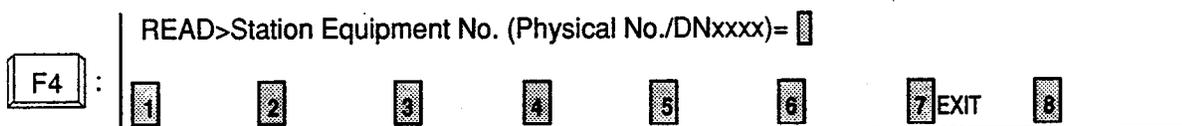
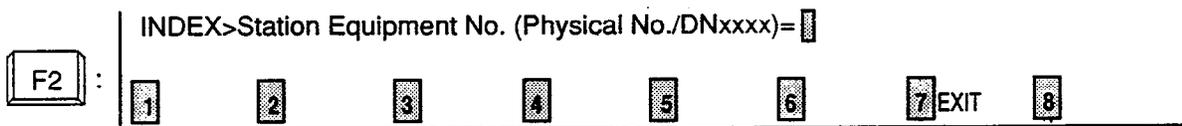
Only the PF1 button on PITS type 50, KX-T7020 and KX-T7030 can be programmed to the SNR button.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



Activate by remove command - Sta DN Screen

2.00 DSS Console

2.01 DSS Console (1/3)

Extension - DSS Console						OFL	PRG	SCR	SEL
Station Equipment No. = 1012 (1/3)									
Model			KX-T123240(7040)						
Pair Extension			5000						
PF	Type	Number	PF	Type	Number				
Key			Key						
01	ONETOUCH	1234567890123456	09	ONETOUCH	1234567890123456				
02			10						
03			11						
04			12						
05			13						
06			14						
07			15						
08			16						

COMMON INDEX READ HRD CPY AUTOCNF

Summary

This is the first screen of Extension-DSS Console which assigns parameters and PF (Programmable Feature) buttons on DSS consoles.

There are 16 screens provided for DSS Console, each of which has three screens. (Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
Model	KX-T123240 (7040)	KX-T123240 (7040) KX-T61640	1-B-2.00 4-I-12.00
Pair Extension	blank	Three or four digits : directory number	
PF Key (01 to 16) Type	blank	ONETOUCH: One Touch button DSS (ICM) : Direct Station Selection (ICM) button EXT FEAT : External Feature Access button CALL PAR : Call Park System button CALL STA : Call Park Station button RNG TRN : Ringing Transfer button SPLIT : Call Split button TONE-BRK : Tone Through Break button blank : not assigned	4-C-4.01 4-E-5.01 4-E-5.02 4-E-6.00 4-F-1.04 4-G-9.00 4-G-12.00

Continued

Continued

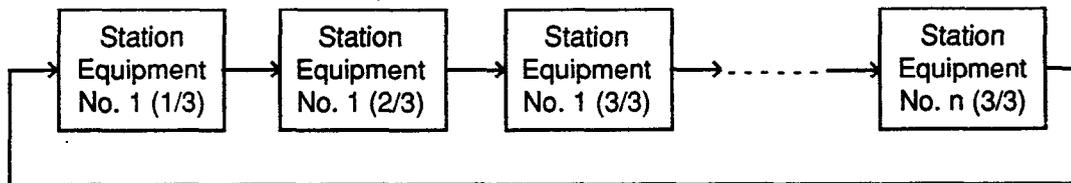
Assigning Items	Default	Selection of Value	Reference
PF key (01 to 16) (cont.) Number	blank	One or two digits : intercom number for "DSS(ICM)" Maximum 16 digits : destination number for "ONETOUCH"	3-B-7.01 4-C-4.01

Description of Assigning Items

Model	Assigns the type of DSS console used.
Pair Extension	Assigns the DSS Console and paired extension's directory number. A DSS Console does not work without this assignment.
PF key (01 to 16) Type	Assigns the type of each of the programmable feature buttons.
Number	When presetting each PF button to "ONETOUCH" or "DSS (ICM)," set the number. This assignment is not necessary when the PF key type is preset to any other types than "ONETOUCH" or "DSS (ICM)" and "-" appears in the setting field.

Conditions

This screen is not displayed, if no DSS console is connected to the system.
When pressing the NEXT key, this screen changes as follows:



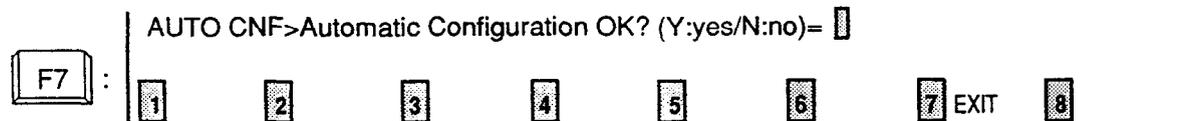
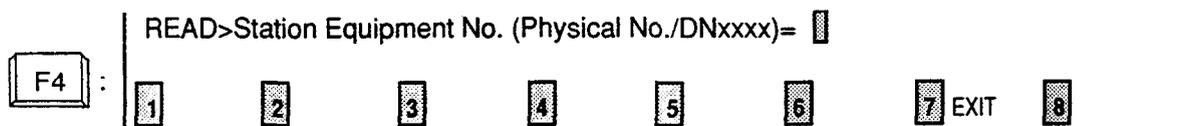
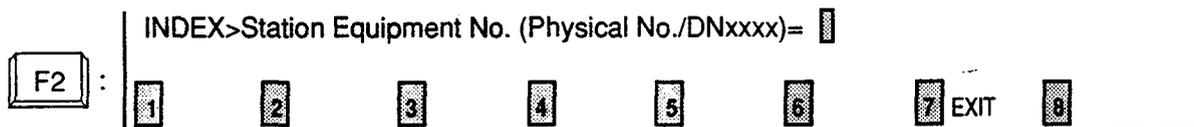
Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX, READ and AUTO CNF keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



2.02 DSS Console (2/3)

Extension - DSS Console			OFL	PRG	SCR	SEL
Station Equipment No. = 1012 (2/3)						
DSS Key	Type	Number	DSS Key	Type	Number	
01	ONETOUCH	1234567890123456	09	ONETOUCH	1234567890123456	
02			10			
03			11			
04			12			
05			13			
06			14			
07			15			
08			16			
COMMON INDEX READ HRD CPY						

Summary

This is the second screen of Extension-DSS Console used to assign DSS (Direct Station Selection) buttons from 01 to 16 on the DSS

Console.
(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
DSS Key (01 to 16) Type	blank	MW : Message Waiting button	4-B-2.00
		LOGIN : UCD Log In button	4-C-4.01
		ALARM : Local Alarm button	4-D-8.00
		DSS(DN) : Direct Station Selection(DN) button	4-E-5.01
		DSS(ICM) : Direct Station Selection (ICM) button	4-E-5.02
		ONETOUCH: One Touch button	4-E-6.00
		PRV-CHG : Privacy Change button	4-F-1.04
		EXT FEAT : External Feature Access button	4-G-2.00
		CALL PAR : Call Park System button	4-G-3.00
		CALL STA : Call Park Station button	4-G-9.00
		RNG TRAN : Ringing Transfer button	4-G-12.00
		SPLIT : Call Split button	4-I-8.00
		TONE-BRK : Tone Through Break button	14-D-1.05
blank : not assigned			

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
DSS Key (01 to 16) (cont.) Number	blank	Three or four digits : directory number for "DSS(DN)" One or two digits : intercom number for "DSS(ICM)" Maximum 16 digits : destination number for "ONETOUCH"	3-B-7.01 4-C-4.01

Description of Assigning Items

DSS Key (01 to 16)

Type Assigns the type for each of the DSS (Direct Station Selection) buttons.

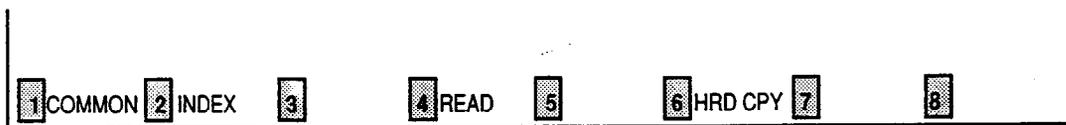
Number Used to set the number for each DSS button programmed to "ONETOUCH," "DSS (DN)" or "DSS (ICM)."

Conditions

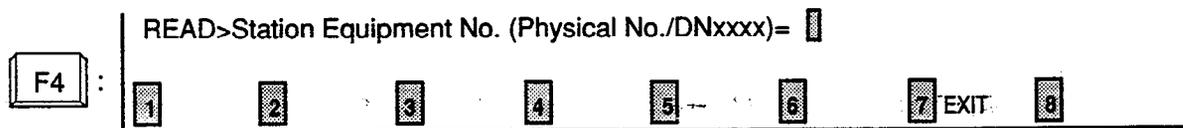
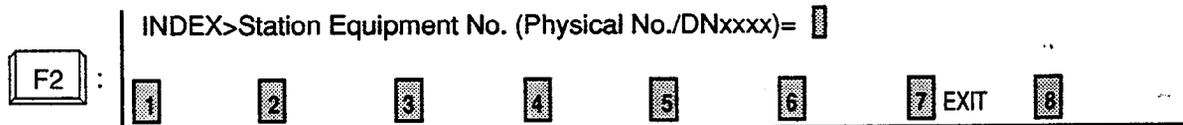
To select this screen, press the NEXT key in the "Extension-DSS Console (1/3)" screen.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



2.03 DSS Console (3/3)

Extension - DSS Console			OFL	PRG	SCR	SEL
Station Equipment No. = 1012 (3/3)						
DSS Key	Type	Number	DSS Key	Type	Number	
17	ONETOUCH	1234567890123456	25	ONETOUCH	1234567890123456	
18			26			
19			27			
20			28			
21			29			
22			30			
23			31			
24			32			

COMMON INDEX READ HRD CPY

Summary

The third screen of the Extension-DSS Console is used to assign DSS (Direct Station Selection) buttons from 17 to 32 on the DSS Console.

(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
DSS Key (17 to 32) Type	blank	MW : Message Waiting button	4-B-2.00
		LOGIN : UCD Log In button	4-C-4.01
		ALARM : Local Alarm button	4-D-8.00
		DSS(DN) : Direct Station Selection (DN) button	4-E-5.01
		DSS(ICM) : Direct Station Selection (ICM) button	4-E-5.02
		ONETOUCH: One Touch button	4-E-6.00
		PRVT-CHG : Privacy Change button	4-F-1.04
		EXT FEAT : External Feature Access button	4-G-2.00
		CALL PAR : Call Park System button	4-G-3.00
		CALL STA : Call Park Station button	4-G-9.00
		RNG TRN : Ringing Transfer button	4-G-12.00
		SPLIT : Call Split button	4-I-8.00
TONE-BRK : Tone Through Break button	14-D-1.05		
blank	: not assigned		

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
DSS Key (17 to 32) (cont.) Number	blank	Three or four digits : directory number for "DSS(DN)" One or two digits : intercom number for "DSS(ICM)" Maximum 16 digits : destination number for "ONETOUCH"	3-B-7.01 4-C-4.01

Description of Assigning Items

Type	Assigns the type for each of the DSS (Direct Station Selection) button.
Number	Used to set the number for each DSS button programmed to "ONETOUCH," "DSS (DN)" or "DSS (ICM)"

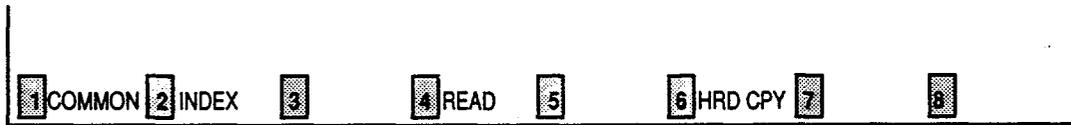
Conditions

This screen does not appear if "Model" is assigned to "KX-T61640" in the Extension-DSS Console (1/3) screen.

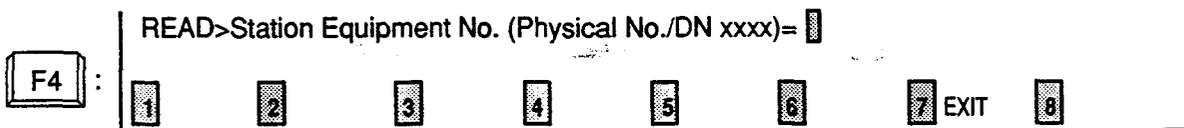
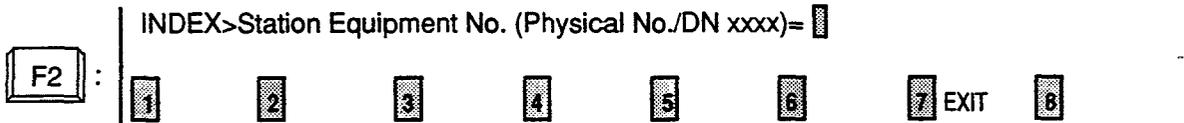
To select this screen, press the NEXT key in the "Extension-DSS Console (2/3)" screen.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



3.00 Doorphone

Extension - Doorphone								OFL	PRG	SCR	DIR
Doorphone No.	1	2	3	4							
Tenant	1	1	1	1							
Open Duration	10	0	0	3							
Doorphone Call Assignment	Type	No.	Type	No.	Type	No.	Type	No.			
	PCKUP	01	PCKUP	10	PCKUP	20	EXT	5002			
	ICM	1	ICM	4	ICM	6					
	ATT		ATT								
	EXT	5001	EXT	401							

COMMON HRD CPY

Summary

Assigns parameters for each doorphone.
(Password level : Three or higher)

Assigning Items	Default	Selection of Value	Reference
Doorphone No. (1 to 4) Tenant	1	1 : tenant 1 2 : tenant 2	4-G-7.00 5-E-2.00 6-H-4.00
Open Duration	0	1 to 10 : door opening duration in second 0 : Door cannot be opened.	
Doorphone Call Assignment Type	ATT : for "with ATLC" EXT 100 : for "without ATLC"	Call destination ICM : intercom group PICKUP: pickup group ATT : Attendant Console EXT : extension blank : not assigned	

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Doorphone Call Assignment No. (cont.)		1 to 8 : Intercom group number for "ICM" 01 to 32 : pickup group number for "PICKUP" 1 or 2 : Attendant console 1 or 2 Three or four digits : directory number for "EXT"	

Description of Assigning Items

Doorphone No. (1 to 4) Tenant	Assigns the tenant number which the doorphone belongs to.
Open Duration	Assigns the door opening duration (seconds).
Doorphone call Assignment Type	Assigns the destination for incoming calls from doorphones.
No.	Assign group number or directory number when type of call placing is set to "ICM," "PICKUP" or "EXT". Assign the console number when the destination of the doorphone call is the Attendant Console.

Conditions

This screen cannot be selected if "System-Configuration", Slot Assignment has no "DPH" card programmed.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys."

4.00 Attendant Console

4.01 Attendant Console (1/2)

Extension - Attendant Console										0FL	PRG	SCR	DIR
Attendant Console (1/2)													
<i>FLOATING DN #</i>													
	Tenant	DN	TRS LV	PAG		Alt Position	Tenant 1	Tenant 2					
	ATT1	1	6001	02	INT	Overflow	5001	4001					
	ATT2	2		03	E1	Night	5002	4002					
	Busy-Out	TG 01	5001	TG 05	5001	TG 09	5001	TG 13	5001				
	Extension	TG 02	5001	TG 06	5001	TG 10	5001	TG 14	5001				
		TG 03	5001	TG 07	5001	TG 11	5001	TG 15	5001				
		TG 04	5001	TG 08	5001	TG 12	5001	TG 16	5001				
COMMON													
HRD CPY													

Summary

The first screen of Extension-Attendant Console is used to assign parameters for the Attendant Consoles. The screen consists of two subscreens. (Password level :Two or higher)

Assigning Items	Default	Selection of Value	Reference
ATT 1 & ATT 2 DN	blank	Three or four digits of numbers : Floating DN blank : not assigned	3-B-3.00
TRS LV	01	01 to 16 : toll restriction level	3-C-1.00
PAG	E1&E2	INT : Paging All Extensions E 1 : Paging External Pager 1 E 2 : Paging External Pager 2 E 1 & E 2 : Paging External Paggers 1 and 2 ALL : Paging All Extensions and External Paggers	6-I-1.05

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Alt Position Tenant 1 & Tenant 2 Overflow	blank	Three or four digit numbers : extension directory number blank : no destination	6-G-2.00
Night	blank	Three or four digit numbers : extension directory number blank : no destination	3-B-8.00
Busy-Out Extension	blank	Three or four digit numbers : extension directory number blank : no destination	6-A-1.00

Description of Assigning Items

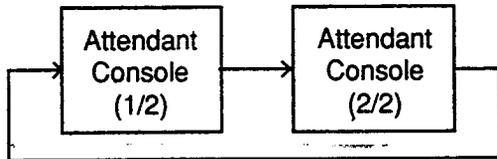
DN	Assigns the Floating DN of the Attendant Console. This is used to call the Attendant directly.
TRS LV	Assigns the toll restriction level for the Attendant Console.
PAG	Assigns the available Paging types for the Attendant Console. This can be set to internal, external or all. The types of External Paging are limited to those preset to "Yes" in the System-Operation (1/3) screen. If Paging External Pagers 1 and 2 are both preset to "No" in the screen, "—" appears on this item.
Overflow	Assigns the destination of Overflow calls in the Day mode. Overflow occurs when all the loop keys are active, another call arrives and one of the calls has exceeded the time allowed for overflow. The calls are queued at the overflow destination as well as the console.
Night	Assigns the destination of the attendant-seeking calls (DPH, DID, DISA, Extension) in the Night mode.
Busy-Out Extension	Assigns the destination of incoming calls, if the trunk group's call destination is programmed to Attendant Console but the Attendant Console is in Busy Out status (ATT-FWD switch on the attendant console is set to ON).

Conditions

This screen cannot be selected if "System-Configuration", Slot Assignment has no "ATLC" card programmed.

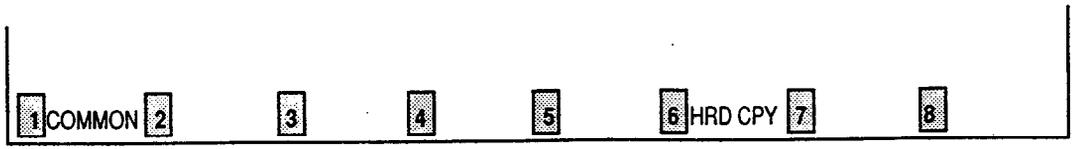
Tenant "—" will be displayed if "System-Operation", Tenant Service is set to "No."

When pressing the NEXT key, this screen changes as follows:



Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen. The operation of function keys are described in Section 7-1 "Operatin of Funciton Keys."

4.02 Attendant Console (2/2)

Extension - Attendant Console		OFL	PRG	SCR	DIR
Attendant Console (Call Priority) (2/2)					
Internal Calling Station	01	External Calling	TG 01	01	
			TG 02	02	
Internal Calling Doorphone	02		TG 03	03	
			TG 04	04	
Console Calling	03		TG 05	05	
			TG 06	06	
Transfer Recall	04		TG 07	07	
			TG 08	08	
Serial Calling Recall	05		TG 09	09	
			TG 10	10	
Call Park Recall	06		TG 11	11	
			TG 12	12	
Intercept Routing	07		TG 13	13	
			TG 14	14	
Held Call Reminder	08		TG 15	15	
			TG 16	16	

COMMON HRD CPY

Summary

Assigns the priority to incoming calls when the ANSWER key is used at the Attendant Console. Assignment is performed through the second

screen of Extension-Attendant Console (Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Internal Calling Station	01	01 to 24 : Priority	6-E-1.00
Internal Calling Doorphone			
Console Calling			
Transfer Recall			
Serial Calling Recall			
Call Park Recall			
Intercept Routing			

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Held Call Reminder	01	01 to 24 : Priority	6-E-1.00
External Calling (TG 01 to TG 16)			

Description of Assigning Items

- Internal Calling Station
- Internal Calling Doorphone
- Console Calling
- Transfer Recall
- Serial Calling Recall
- Call Park Recall
- Intercept Routing
- Held Call Reminder
- External Calling
(TG 01 to TG 16)

Assigns the call priority level for each of the 24 items.
"01" is the highest level, "24" is the lowest level.
It is permissible to assign the same level to multiple items. In this case calls are processed in FIFO (First In First Out) order.

Conditions

This screen cannot be selected if "System-Configuration", Slot Assignment has no "ATLC" card programmed.

Held Call Reminder Regardless of this program, Held Call Reminder will not function if "System-Operation", Held Call Reminder is not programmed to "Yes."

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen. The operation of function keys are described in Section 7-1 "Operatin of Funciton Keys."

H. Special Carrier Access Screen

1.00 Equal Access

Special Carrier Access - Equal Access		OFL	PRG	SCR	SEL
Equal Access No. = 1					
Service	Yes	Trunk Group 01	Yes		
Name		Trunk Group 02	Yes		
Equal Access Carrier Code	222	Trunk Group 03	Yes		
Toll Restriction Level	16	Trunk Group 04	Yes		
Toll Restriction Table	8	Trunk Group 05	Yes		
Digit Modification		Trunk Group 06	Yes		
Long Distance (Delete)	1	Trunk Group 07	Yes		
(Insert)	xxxx	Trunk Group 08	Yes		
Local Toll (Delete)	1	Trunk Group 09	Yes		
(Insert)	xxxx	Trunk Group 10	Yes		
Local (Delete)	0	Trunk Group 11	Yes		
(Insert)	xxxx	Trunk Group 12	Yes		
Note: (Insert)		Trunk Group 13	Yes		
After 10+(Equal Access		Trunk Group 14	Yes		
Carrier Code)		Trunk Group 15	Yes		
		Trunk Group 16	Yes		

COMMON HRD CPY

Summary

Assigns available trunk groups and parameters necessary for making Equal Access calls. Four screens are provided for Equal Access

number from 1 to 4.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Service	No	Yes : Equal Access is available No : Equal Access is unavailable	3-C-1.04 4-C-3.03
Name	blank	letters, numbers, marks within three digits blank : not assigning	5-A-1.03 6-D-1.03
Equal Access Carrier Code	blank	three digit number	
Toll Restriction Level	blank	01 to 16	
Toll Restriction Table	blank	1 to 8: Area/ Office Code table number	

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Digit Modification Long Distance Local Toll Local (Delete)	blank	1 to 4 : digits to be deleted 0 : deleting no digits	3-C-1.04 4-C-3.03 5-A-1.03 6-D-1.03
(Insert)	blank	maximum four digit number : dialing number to be inserted	
Trunk Group (01 to 16)	blank	Yes : calling is available No : calling is unavailable	

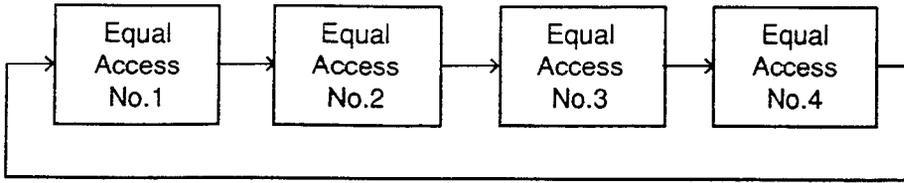
Description of Assigning Items

Service	Assigns whether Equal Access is available or not. If set to "No," "—" appear in all the setting fields of this screen, and setting is impossible.
Name	Assigns the Carrier's name to be used in making Equal Access calls.
Equal Access Carrier Code	Assigns the Carrier code for making Equal Access calls.
Toll Restriction Level	Assigns the toll restriction level on Special Carrier Access used for Toll Restriction.
Toll Restriction Table	Assigns the Area/ Office Code table number used for Toll Restriction.
Digit Modification	
Long Distance	
Local Toll	
Local	
(Delete)	Assigns the number of leading digits to be deleted.
(Insert)	Assigns the number to be inserted which follows the Carrier code.
Trunk group (01 to 16)	Assigns the available trunk groups for making Equal Access calls.

Conditions

Service	<p>If "No" is selected, all the assigning items below this display "—" and setting is impossible.</p> <p>If "No" is assigned, it is possible to program "System-Class of Service", Special Carrier Access. However, Equal Access of the screen which has "No" assigned will not be active.</p>
Digit Modification	<p>When making a long distance call using Equal Access function, the dialed number will be modified as the following example.</p> <p><Example> Programmings are: Equal Access Carrier Code : 222 Digit Modification Long Distance (Delete) : 1 (Insert) : blank</p> <p>Dialed number is: 1 201 123 4567</p> <p>Modification procedures are: (1) Deletes the initial digit. 201 123 4567 (2) Inserts no digit. 201 123 4567 (3) The final digits to be sent to trunk are 10 222 201 123 4567</p>

When pressing the NEXT key, this screen changes as follows:



Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

2.00 OCC Access

Special Carrier Access - OCC Access		OFL	PRG	SCR	SEL
OCC Access No. = 1					
Service -----	Yes	Trunk Group 01	Yes		
Name -----		Trunk Group 02	Yes		
Local Access Code -----	9501001 (Max. 8 DG)	Trunk Group 03	Yes		
Toll Restriction Level ---	16	Trunk Group 04	Yes		
Toll Restriction Table ---	8	Trunk Group 05	Yes		
Digit Modification		Trunk Group 06	Yes		
Long Distance (Delete) ---	1	Trunk Group 07	Yes		
(Insert) ---	P[123456]PH	Trunk Group 08	Yes		
Local Toll (Delete) ---	1	Trunk Group 09	Yes		
(Insert) ---	12345678901234567890	Trunk Group 10	Yes		
Local (Delete) ---	0	Trunk Group 11	Yes		
(Insert) ---	P[123456]PH	Trunk Group 12	Yes		
Note: (Insert)		Trunk Group 13	Yes		
After (Local Access		Trunk Group 14	Yes		
Code)+(Pause)		Trunk Group 15	Yes		
		Trunk Group 16	Yes		

COMMON

HRD CPY

Summary

Assigns available trunk groups and parameters necessary for making OCC (Other Common Carrier) Access calls.

Four screens are provided for OCC Access numbers from 1 to 4.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Service	No	Yes : OCC Access is available No : OCC Access is unavailable	4-C-3.03 5-A-1.03 6-D-1.03
Name	blank	three digit letters, numbers or marks blank : not assigned	
Local Access Code	blank	maximum eight digit numbers	
Toll Restriction Level	blank	01 to 16	3-C-1.04
Toll Restriction Table	blank	1 to 8: Area/ Office Code table number	3-C-1.04

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Digit Modification Long Distance, Local Toll, Local (Delete)	blank	1 to 15: number of digits to be deleted 0 : no digit deletion	4-C-3.03 5-A-1.03 6-D-1.03
(Insert)	blank	maximum of 20 digits consisting of numbers , * , # and marks below : H : Home position P : Pause D : Switch to DTMF [: start of secret number] : end of secret number (enter secret marks in a pair) - : Hyphen	
Trunk Group (01 to 16)	blank	Yes : calling is available No : calling is unavailable	3-C-1.03 4-C-3.03 5-A-1.03 6-D-1.03

Description of Assigning Items

Service	Assigns whether OCC Access is available or not.
Name	Assigns the Carrier's name to be used in making OCC calls.
Local Access Code	Assigns the Carrier code for making OCC Access calls.
Toll Restriction Level	Assigns the Toll Restriction level for special Carrier Access which is used for Toll Restriction.
Toll Restriction Table	Assigns the Area /Office Code table number used for Toll Restriction
Digit Modification	
Long Distance	
Local Toll	
Local	
(Delete)	Assigns the number of leading digits to be deleted.
(Insert)	Assigns the number to be inserted, which follows the Carrier code.
Trunk group (01 to 16)	Assigns the available trunk groups for making OCC Access calls.

Conditions

Service

If set to "No," all the assigning items below display "—" and setting is impossible.

If set to "No," it is possible to program "System-Class of Service", Special Carrier Access. However, OCC Access of the screen which has "No" assigned will not be active.

Digit Modification

When making a call using OCC Access function, the dialed number will be modified as the following example.

<Example 1>

Programmings are:

Local Access Code: 9501001

Digit Modification

Long Distance (Delete): 1

(Insert) : P123456 PH

Dialed number is :

1 201 123 4567

Modification procedures are :

(1) Deletes the initial digit.

201 123 4567

(2) Inserts the dial programmed.

P123456 P 201 123 4567

(3) The final digits to be sent to trunk are:

9501001 P P 123456 P 201 123 4567

↑
Automatically added.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

I. Toll Restriction Screen

1.00 Area/Office Code Tables

Toll Restriction - Area/Office Code Tables						OFL	PRG	SCR	SEL
Area/Office Code Table No. = 1						Entry = 200			
Code	L,RL,OC	Code	L,RL,OC	Code	L,RL,OC	Code	L,RL,OC	Code	L,RL,OC
200	Y,01,32	210	Y,01,32	220	Y,01,32	230	Y,01,32	240	Y,01,32
201	Y,01,32	211	Y,01,32	221	Y,01,32	231	Y,01,32	241	Y,01,32
202	Y,01,32	212	Y,01,32	222	Y,01,32	232	Y,01,32	242	Y,01,32
203	Y,01,32	213	Y,01,32	223	Y,01,32	233	Y,01,32	243	Y,01,32
204	Y,01,32	214	Y,01,32	224	Y,01,32	234	Y,01,32	244	Y,01,32
205	Y,01,32	215	Y,01,32	225	Y,01,32	235	Y,01,32	245	Y,01,32
206	Y,01,32	216	Y,01,32	226	Y,01,32	236	Y,01,32	246	Y,01,32
207	Y,01,32	217	Y,01,32	227	Y,01,32	237	Y,01,32	247	Y,01,32
208	Y,01,32	218	Y,01,32	228	Y,01,32	238	Y,01,32	248	Y,01,32
209	Y,01,32	219	Y,01,32	229	Y,01,32	239	Y,01,32	249	Y,01,32
L : Local Call Access (Y/N), RL: Restriction Level (01-16) OC: Office Code Table Number (No Use:Blank,01-64)									
COMMON		INDEX		COPY		HRD CPY			

Summary

Assigns local call control, toll restriction level and office code table number for area or office codes. Eight screens are provided for Area/Office Code

Table numbers from 1 to 8.
(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
L	N	Y : not executing 3/6 Digit Toll Restriction N : executing 3/6 Digit Toll Restriction	3-C-1.06
RL	16: for 411, 800, 911, NNX 01: for NPX except the above codes	01 to 16 : toll restriction level	
OC	blank	Office Code table number blank : for 3 digits Toll Restriction 01 to 64 : for 6 digits Toll Restriction	

Description of Assigning Items

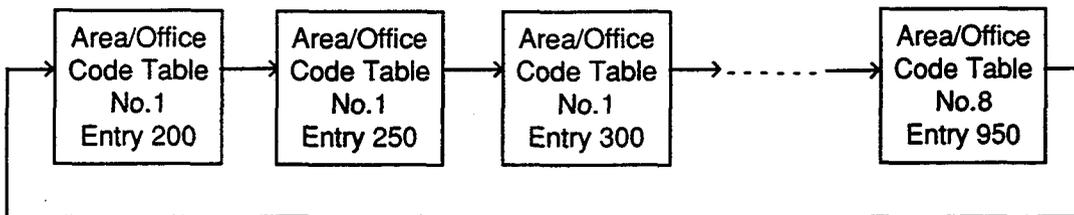
- L Assigns whether Toll Restriction is executed for local calls or not.
When "Y" is set, 3.6 Digit Toll Restriction is not executed.

- RL Assigns toll restriction level.
This setting does not restrict the extension user when $RL \leq TRLE$
(toll restriction level of each extension).

- OC Office Code table number
blank : Call restricted if $TRLE < RL$
0 to 64 : Office Code table number, for 6 Digits Toll Restriction. If the office code
dialed is in the office code table, the call proceeds to 7/10 digit toll restriction. If it is
not then the call is restricted.

Conditions

When pressing the NEXT key, this screen changes as follows:



Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this screen.

1	COMMON	2	INDEX	3	COPY	4		5		6	HRD CPY	7		8
---	--------	---	-------	---	------	---	--	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and COPY keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.

F2 :

INDEX>Area/Office Code Table No. (1-8)= <input type="text"/> , Entry (200-999)= <input type="text"/>														
1		2		3		4		5		6		7	EXIT	8

F3 :

1	TABLE	2	ENTRY	3		4		5		6		7	EXIT	8
---	-------	---	-------	---	--	---	--	---	--	---	--	---	------	---

Copying all the tables

Press **F1** (TABLE)

COPY > Table No. (1-8)= <input type="text"/> --> Table No.= <input type="text"/>														
1		2		3		4		5		6		7	EXIT	8

Copying an entry within the table

Press **F2** (Entry)

COPY > Entry No. (200-999)= <input type="text"/> --> Entry No.= <input type="text"/>														
1		2		3		4		5		6		7	EXIT	8

2.00 Office Code Tables

Toll Restriction - Office Code Tables		OFL	PRG	SCR	SEL
Office Code Table No. = 01 (1/4)					
2 Hundred Office Code			3 Hundred Office Code		
00,01,02,03,04,05,06,07,08,09	10,11,12,13,14,15,16,17,18,19	20,21,22,23,24,25,26,27,28,29	30,31,32,33,34,35,36,37,38,39	40,41,42,43,44,45,46,47,48,49	50,51,52,53,54,55,56,57,58,59
60,61,62,63,64,65,66,67,68,69	70,71,72,73,74,75,76,77,78,79	80,81,82,83,84,85,86,87,88,89	90,91,92,93,94,95,96,97,98,99		
COMMON			INDEX		
COPY			HRD CPY		
			SET		

Summary

Assigns the office codes which are restricted and which are allowed to proceed to the 7/10 digit restriction check.

64 screens are provided for Office Code Table

numbers from 01 to 64, each of which consists of four screens.

(Password level : Two or higher)

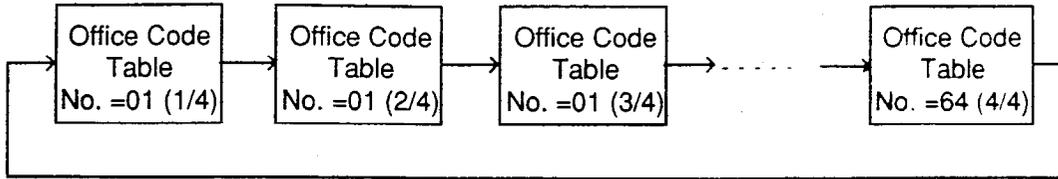
Assigning Items	Default	Selection of Value	Reference
Hundred Office Code	blank	blank : restricts 00 to 99: allowable number for outgoing calls	3-C-1.06

Description of Assigning Items

Hundred Office Code Assigns office codes to be admitted for 6 Digits Toll Restriction.
blank : Call denied based on office code dialed.

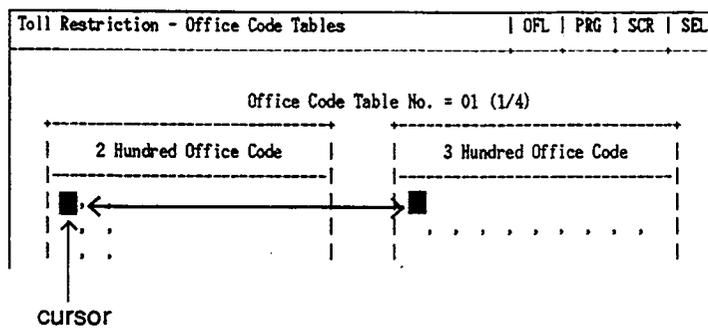
Conditions

Pressing the NEXT button changes this screen as follows:



Pressing the PREV key changes the screen in reverse order.

Pressing the TAB key moves the cursor as follows:

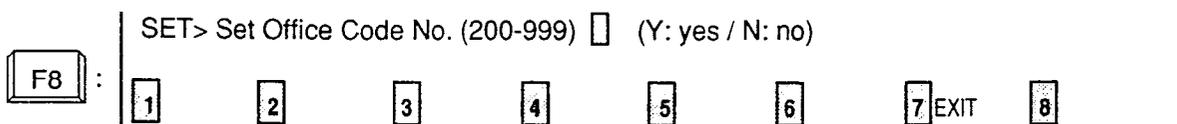
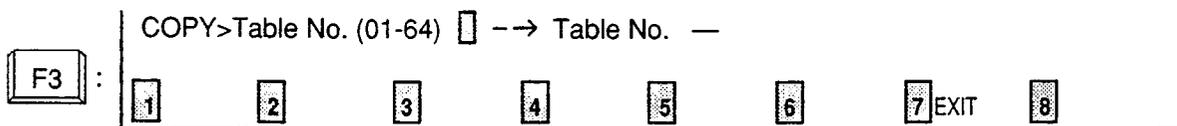
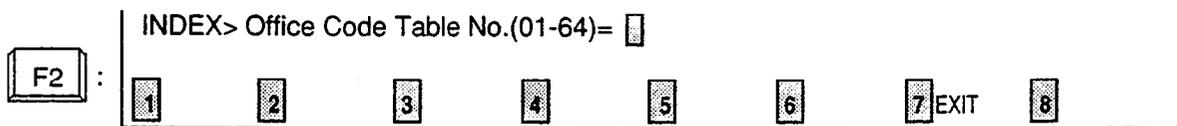


Function

The following functions appear on the function line of this screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and COPY keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



3.00 7/10 Digit Toll Restriction Table

Toll Restriction - 7/10 Digit Toll Restriction Table OFL PRG SCR DIR									
ENT.	Number	ENT.	Number	ENT.	Number	ENT.	Number	ENT.	Number
01	1234567	16	1234567	31	1234567	46	1234567	61	1234567
02	5551212	17		32		47		62	
03		18		33		48		63	
04		19		34		49		64	
05		20		35		50			
06		21		36		51			
07		22		37		52			
08		23		38		53			
09		24		39		54			
10		25		40		55			
11		26		41		56			
12		27		42		57			
13		28		43		58			
14		29		44		59			
15		30		45		60			

COMMON 2 3 4 5 6 HRD CPY 7 8

Summary

Assigns 10 Digit Toll Restriction when the call is a long distance call, and assigns 7 Digit Toll Restriction when the call is a local call. (Password level : Two or higher)

Assigning Item	Default	Selection of Value	Reference
EXT. (01 to 64) Number	blank	The last seven digits of the dialed number blank : not assigned	3-C-1.07

Description of Assigning Items

EXT. (01 to 64)
Number Assigns the office code and subscriber number to be checked by toll restriction.

Conditions

None

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.
For operation, refer to Section 7-I "Operation of Function Keys."

J. Automatic Route Selection Screen

1.00 Leading Digit Table

Automatic Route Selection - Leading Digit Table										OFL	PRG	SCR	DIR
Leading Digit Table					Entry = 200								
Entry	AC, OC	Entry	AC, OC	Entry	AC, OC	Entry	AC, OC	Entry	AC, OC	Entry	AC, OC		
200	10, 14	210	10,	220	, 14	230	, 14	240	, 14				
201	12, 13	211	12,	221	, 14	231	, 14	241	, 14				
202	10, 14	212	10,	222	, 13	232	, 13	242	, 13				
203	12,	213	12,	223	, 14	233	, 14	243	, 14				
204	10, 14	214	10,	224	, 14	234	, 14	244	, 14				
205	12,	215	12,	225	, 13	235	, 13	245	, 13				
206	10,	216	10,	226	, 13	236	, 13	246	, 13				
207	12,	217	12,	227	, 14	237	, 14	247	, 14				
208	10, 13	218	10,	228	, 14	238	, 14	248	, 14				
209	12,	219	12,	229	, 13	239	, 13	249	, 13				

AC: Enter Route Plan Table No. when area code (No Use:Blank,01-32)
 OC: Enter Route Plan Table No. when office code (No Use:Blank,01-32)

COMMON INDEX COPY HRD CPY

Summary

Assigns the route plan table number to be used depending on the area code or office code dialed. 16 screens are provided for Leading Digit Table.

(Password level : Two or higher)

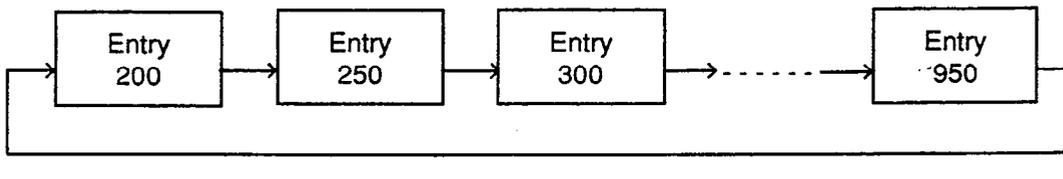
Assigning Items	Default	Selection of Value	Reference
AC	blank	blank : not using area code 01 to 32 : route plan table number	3-C-2.00
OC	blank	blank : not using office code 01 to 32 : route plan table number	

Description of Assigning Items

- AC (Area code) When the leading digits represent an Area code, this field assigns the Route Plan table number.
 When not dialing an Area code, leave "blank."
 Also if the numbering plan is Type C, assign the Area code even if the leading digits represent a Local Toll dial.
- OC (Office code) When the leading digits represent an Office code, this field assigns the Route Plan table number.
 When not using the Office code, leave "blank ."

Conditions

Pressing the NEXT button changes this screen as follows:



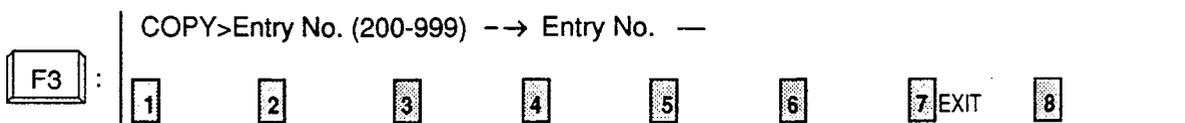
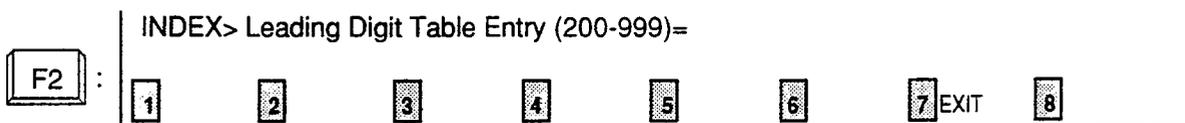
Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and COPY keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



2.00 Office Code Tables

Automatic Route Selection - Office Code Tables		OFL	PRG	SCR	SEL
Office Code Table No. = 01 (1/4)					
2 Hundred Office Code			3 Hundred Office Code		
00,01,02,03,04,05,06,07,08,09			00,01,02,03,04,05,06,07,08,09		
10,11,12,13,14,15,16,17,18,19			10,11,12,13,14,15,16,17,18,19		
20,21,22,23,24,25,26,27,28,29			20,21,22,23,24,25,26,27,28,29		
30,31,32,33,34,35,36,37,38,39			30,31,32,33,34,35,36,37,38,39		
40,41,42,43,44,45,46,47,48,49			40,41,42,43,44,45,46,47,48,49		
50,51,52,53,54,55,56,57,58,59			50,51,52,53,54,55,56,57,58,59		
60,61,62,63,64,65,66,67,68,69			60,61,62,63,64,65,66,67,68,69		
70,71,72,73,74,75,76,77,78,79			70,71,72,73,74,75,76,77,78,79		
80,81,82,83,84,85,86,87,88,89			80,81,82,83,84,85,86,87,88,89		
90,91,92,93,94,95,96,97,98,99			90,91,92,93,94,95,96,97,98,99		

Area Code		201	Route Plan Table No. when hit data (01-32)		21

COMMON	INDEX	COPY		HRD CPY	SET

Summary

Assigns all office codes used in each area code in every hundred unit.

32 screens are provided for Office Code Table

numbers from 01 to 32, each of which consists of four screens.

(Password level : Two or higher)

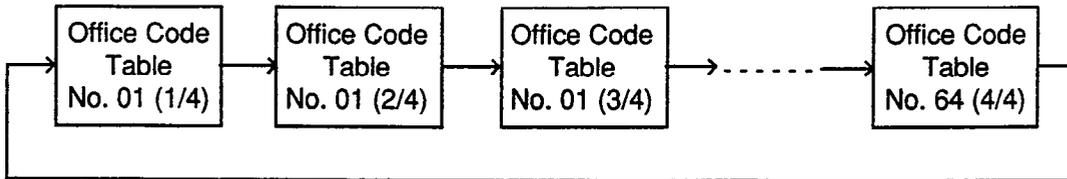
Assigning Items	Default	Selection of Value	Reference
Hundred Office Code	blank	blank : not using office code table 00 to 99 : office code	3-C-2.00
Area Code	blank	blank : not assigning area code 200 to 999 : area code	
Route Plan Table No.	01	01 to 32 : route plan table number	

Description of Assigning Items

- Hundred Office Code Assigns all office codes corresponding to the area code.
- Area Code Assigns the area code.
- Route Plan Table No. Assigns route plan table number.

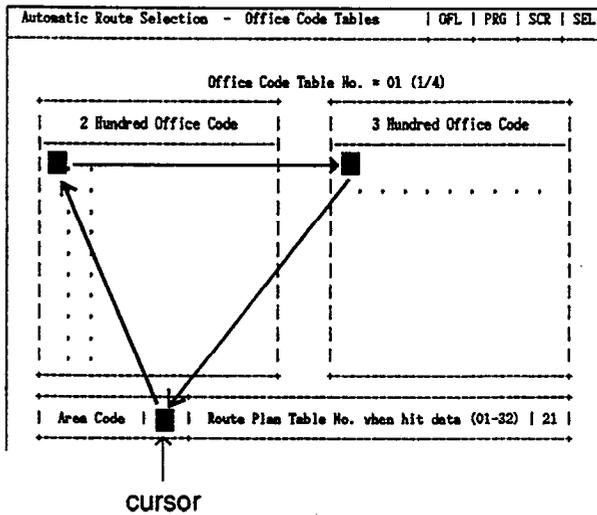
Conditions

Pressing the NEXT key changes this screen as follows:

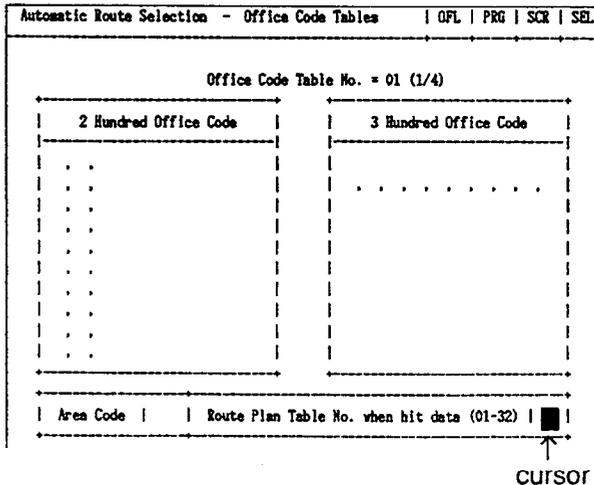


Pressing the PREV key changes the screen in reverse order.

Pressing the TAB key moves the cursor as follows:



To move the cursor to "Route Plan Table No. when hit data (01-32)," use the key when the cursor is located in "Area Code."



Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3	COPY	4		5		6	HRD CPY	7		8	SET
---	--------	---	-------	---	------	---	--	---	--	---	---------	---	--	---	-----

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and COPY keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.

F2	:	INDEX> Office Code Table No.(01-32)=													
		1	2	3	4	5	6	7	EXIT	8					

F3	:	COPY>Table No. (01-32) → Table No. —													
		1	2	3	4	5	6	7	EXIT	8					

F8	:	SET> Table No. (01-32)													
		1	2	3	4	5	6	7	EXIT	8					

3.00 Route Plan Tables

Automatic Route Selection - Route Plan Tables										OFL	PRG	SCR	SEL
Route Plan Table No. = 01													
Start Hour		Route List Number (01 ~ 64)											
Hour	AM/PM	MON.	TUE.	WED.	THU.	FRI.	SAT.	SUN.					
8	AM	01	02	03	04	05	06	07					
12	AM	08	09	09	10	11	12	13					
1	PM	14	15	16	17	18	19	20					
5	PM	21	22	23	24	01	02	03					
COMMON INDEX COPY READ HRD CPY													

Summary

Sets route plan tables by assigning time zones and route list numbers applied to each time zone of each day of the week.

32 screens are provided for Route Plan Table numbers from 01 to 32.
(Password level: Two or higher)

Assigning Items	Default	Selection of Value	Reference
Start Hour	blank	01 to 12: hour	3-C-2.00
Hour			
AM/PM	blank	AM/PM : a.m./p.m.	
Route List Number (01 to 64)	blank	01 to 64: route list number	
MON.			
TUE.			
WED.			
THU.			
FRI.			
SAT.			
SUN.			

Description of Assigning Items

Start Hour
Hour

Assigns starting time of applied Route List.
When assigning "Hour," enter each item without leaving any "blank."

AM/PM

Assigns a.m. or p.m. of the starting time.

Route list number(MON)

Route list number(TUE)

Route list number(WED)

Route list number(THU)

Route list number(FRI)

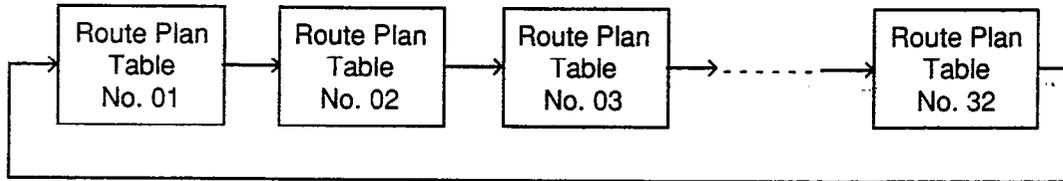
Route list number(SAT)

Route list number(SUN)

Assigns Route List number.
Be sure to assign Route List number for each specified "Hour," without leaving any "blank."

Conditions

Pressing the NEXT key changes this screen as follows:



Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	INDEX	3	COPY	4	READ	5		6	HRD CPY	7		8
---	--------	---	-------	---	------	---	------	---	--	---	---------	---	--	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX, COPY and READ keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.

F2	:	INDEX> Route Plan Table No. (01-32)=											
1	2	3	4	5	6	7	EXIT	8					

F3	:	COPY>Table No. (01-32) → Table No. —											
1	TABLE	2	ENTRY	3	4	5	6	7	EXIT	8			

F4	:	READ> Table No. (01-32)=											
1	2	3	4	5	6	7	EXIT	8					

4.00 Route Lists Table

Automatic Route Selection - Route Lists Table														OFL	PRG	SCR	DIR
Route Lists Table (1/6)																	
Route List	Priority 1				Priority 2				Priority 3				Priority 4				
	TG	MOD	WT	ALV	TG	MOD	WT	ALV	TG	MOD	WT	ALV	TG	MOD			
#01	01	00	Y	00	02	01	Y	00	03	01	Y	00	04	01			
#02	02	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#03	03	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#04	04	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#05	05	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#06	06	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#07	07	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#08	08	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#09	09	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#10	10	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#11	11	00	Y	01	02	01	Y	02	03	01	Y	03	04	01			
#12	12	00	Y	15	02	01	Y	02	03	01	Y	03	04	01			

COMMON INDEX COPY HRD CPY

Summary

Assigns trunk groups in order of economical priority (1 to 4) and parameters on each priority. The screen consists of six screens.

(Password level: Two or higher).

Assigning Items	Default	Selection of Value	Reference
Priority 1 TG	blank	blank : local trunk 01 to 16: real trunk	3-C-2.00
MOD	blank	blank : when "TG" is blank 01 to 32: modified digit table number	
Priority 2 WT	No	Y : sending warning tone N : without warning tone	
ALV	blank	blank : when "TG" is blank 01 to 16: restriction level	

*ARS Priority
Rest. Lvl
TRA. GRP*

Assigning Items	Default	Selection of Value	Reference
Priority 2 TG	00	00 : local trunk 01 to 16: trunk group number	3-0-2.00
MOD	blank	blank : when "TG" is blank 01 to 32: modified digit table number	
Priority 3 WT	No	Y : sending warning tone N : without warning tone	
AVL	blank	blank : when "TG" is blank 01 to 16: restriction level	
TG	00	00 : local trunk 01 to 16: trunk group number	
MOD	blank	blank : when "TG" is blank 01 to 32: modified digit table number	
Priority 4 WT	No	Y : sending warning tone N : without warning tone	
AVL	blank	blank : when "TG" is blank 01 to 16: restriction level	
TG	00	00 : local trunk 01 to 16: trunk group number	
MOD	blank	blank : when "TG" is blank 01 to 32: modified digit table number	

Description of Assigning Items

Priority 1

TG Assigns the most economical trunk group number.
MOD Assigns modified digit table number to modify the digits to suitable ones for the preset trunk group.

Priority 2

WT Assigns sending warning tone or not, before going around to the secondary economical trunk group.
ALV Assigns restriction level of the secondary economical trunk group number.
TG Assigns the secondary economical trunk group number.
MOD Assigns modified digit table number for modifying the digits suitable ones for secondary economical trunk.

Priority 3

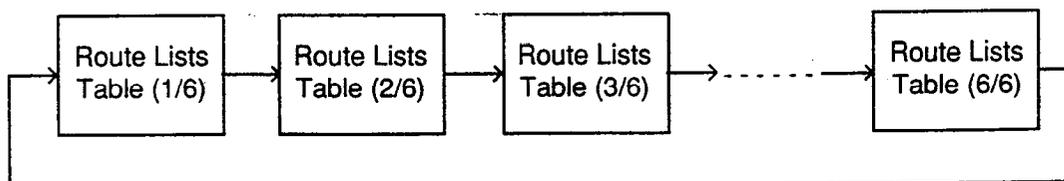
WT Assigns sending warning tone or not, before going around to the third economical trunk group.
ALV Assigns the thirdly economical trunk group.
TG Assigns the thirdly economical trunk group.
MOD Assigns the modified digit table number for making the most suitable digits for the thirdly economical trunk group.

Priority 4

WT Assigns sending warning tone or not, before going around to the fourth economical trunk group.
ALV Assigns the restriction level of the fourth economical trunk group.
TG Assigns the fourth economical trunk group.
MOD Assigns the modified digit table number for making the most suitable digits for the fourth economical trunk group.

Conditions

Pressing the NEXT key changes this screen as follows:



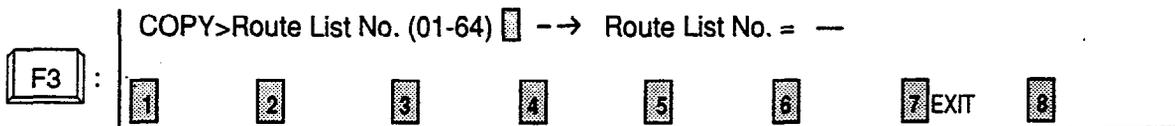
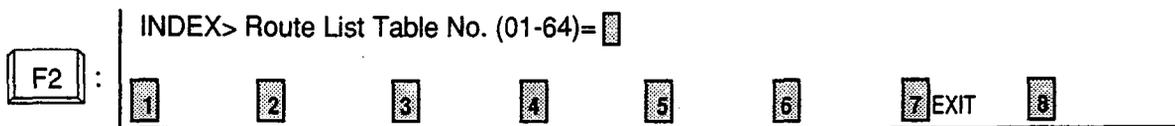
Pressing the PREV key changes the screen in reverse order.

Function

The following functions appear on the function line of this screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in all setting screens. INDEX and COPY keys are also available in this screen. The operation of function keys are described in Section 7-1 "Operation of Function Keys." Only messages are provided here.



5.00 Modified Digit Table

Automatic Route Selection - Modified Digit Table				OFL	PRG	SCR	DIR
Modified Digit Table (1/2)							
ENT.	DEL	Digits to be Inserted	ENT.	DEL	Digits to be Inserted		
01	1	12345678901234567890123456	09	1	12345678901234567890123456		
02	1		10	1			
03	1		11	1			
04	1		12	1			
05	1		13	1			
06	1		14	1			
07	1		15	1			
08	1		16	1			
H: Home Position		P: Pause (5 seconds)		D: Switch to DTMF			
[: Secret (Start)]: Secret (End)					
COMMON				HRD CPY			

Summary

Assigns digits to be deleted and digits to be inserted.

(Password level: Two or higher)

The screen consists of two screens.

Assigning Items	Default	Selection of Value	Reference
DEL	0	0 to 9 : digit to be deleted	3-C-2.00
Digits to be Inserted	blank	Digits to be inserted Maximum 26 digits consisting of numbers, *, # and marks below : H: Home Position P: Pause D: Switch to DTMF [: Start of secret number] : end of secret number (Enter [] in a pair)	

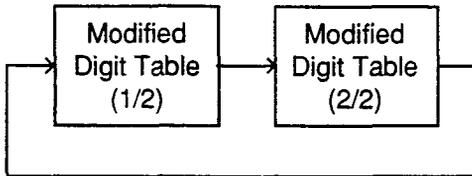
Description of Assigning Items

Del Assigns the number of the digits to be deleted from the dialed digits.

Digits to be inserted Assigns numbers and marks to be added.

Conditions

Pressing the NEXT key changes this screen as follows:



Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

K. Special Attended Screen

1.00 DISA

Special Attended - DISA								OFL	PRG	SCR	DIR
DISA No.	Shelf	Slot	For Use	Tenant							
1	1	05	DISA	1	Delayed Answer	After 1 ring					
2	2	04	OGM1	2	Prolong Time	2 minute(s)					
3	1	05	OGM2	1	Control Code "z"	Yes					
4	2	04	W-UP	2	Tone Detect	Yes					
DISA Code	User Code	ARS Override	Toll LVL	Forced	Prolong	Tenant					
1		Yes	10	No	Yes	1					
2		Yes	11	No	Yes	1					
3		Yes	11	No	Yes	2					
4		Yes	16	No	Yes	2					
5		Yes	10	No	Yes	1					
6		Yes	11	No	Yes	1					
7		Yes	11	No	Yes	2					
8		Yes	16	No	Yes	2					

COMMON HRD CPY

Summary

Assigns parameters for effectuating DISA (Direct Inward System Access) function.

(Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
DISA No. (1 to 4) For Use	DISA	DISA : For DISA feature OGM1 : For UCD-OGM 1 OGM2 : For UCD-OGM 2 W-UP : For Wake-up Call	3-D-2.02 3-D-2.06 3-F-4.00 3-F-13.00 4-I-13.00 6-J-8.00
Tenant	1	1 : tenant 1 2 : tenant 2	3-D-2.02
DISA Code (1 to 8) User Code	blank	Four digit numbers : DISA user code blank : not assigning	3-D-2.02
ARS Override	No	Yes : specifying a trunk group is available No : specifying a trunk group is unavailable	3-D-2.02

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
DISA Code (1 to 8) (cont.) Toll LVL	01	01 to 16 : toll restriction level	3-D-2.02
Forced	No	Yes : forced No : option	3-D-2.02
Prolong -	Yes	Yes : prolonging duration is available No : prolonging duration is unavailable	3-D-2.02
Tenant	1	1 : tenant 1 2 : tenant 2	3-D-2.02
Delayed Answer	After 2 rings	Immediately : immediately After 1 ring : 1 ringing After 2 rings : 2 ringings After 3 rings : 3 ringings	3-B-10.00 3-D-2.02
Prolong Time	5	0 to 7 : minute	3-B-10.00 3-D-2.02
Control Code "*" "	Yes	Yes : Control Code is available No : Control Code is unavailable	3-D-2.02
Tone Detect	Yes	Yes : executing tone detection No : not detecting tone	3-D-2.02

Description of Assigning Items

DISA No. (1 to 4) For use	Assigns the usage of DISA cards.
Tenant	Assigns Tenant number which each of the DISA cards one through four belongs to.
DISA Code User Code	Assigns User Code required for making outgoing CO call vial DISA feature.
ARS Override	Assigns whether admitting both calling by specifying a trunk group and local trunk calling or admitting only local trunk calling.
Toll LVL	Assigns toll restriction level in making outgoing calls.
Forced	Assigns account code input mode in making outgoing calls.
Prolong	Assigns admitting the prolonged duration of conversation between two outside parties.
Tenant	Assigns the tenant number which is able to use the User Codes.
Delayed Answer	Assigns the delayed answer time (from detection of DISA arriving to answer).
Prolong Time	Assigns allowable prolonged time limit for conversation between two outside parties.
Control Code "*" "	Assigns recalling and disconnecting operation is possible or not by using "*" key.
Tone Detect	Assigns whether executing tone detection during CO-CO conversation or not.

Conditions

This screen cannot be selected from "Special Attended-Submenu," if "Configuration-Slot Assignment" has no DISA card programmed.

Tenant Displays "—" if "System-Operation", Tenant Service is set to "No."

ARS Override Displays "—" if "System-Operation", Automatic Route Selection is set to "No."

Pressing the TAB key moves the cursor as follows:

Special Attended - DISA							OFL	PRG	SCR	DIR
DISA No.	Shelf	Slot	For Use	Tenant						
1	1	05	→	1	Delayed Answer	→				
2					Prolong Time	2	minute(s)			
3					Control Code "≠"	Yes				
4					Tone Detect	Yes				
DISA Code	User Code	ARS Override	Toll LVL	Forced	Prolong	Tenant				
1	█	Yes	10	No	Yes	1				
2						1				
3						2				
4						2				
5						1				
6						1				
7						2				
8						2				

cursor

Function

The following functions appear on the function line of this setting screen.

1	COMMON	2	3	4	5	6	HRD CPY	7	8
---	--------	---	---	---	---	---	---------	---	---

COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

2.00 DID

Special Attended - DID					OFL	PRG	SCR	DIR																				
<table border="1"> <thead> <tr> <th>Item</th> <th>Table 1</th> <th>Table 2</th> <th>Table 3</th> <th>Table 4</th> </tr> </thead> <tbody> <tr> <td>Receive Digit</td> <td>4</td> <td>5</td> <td>5</td> <td>7</td> </tr> <tr> <td>Delete Digit</td> <td>1</td> <td>2</td> <td>2</td> <td>6</td> </tr> <tr> <td>Insert Dial No.</td> <td></td> <td></td> <td></td> <td>22</td> </tr> </tbody> </table>									Item	Table 1	Table 2	Table 3	Table 4	Receive Digit	4	5	5	7	Delete Digit	1	2	2	6	Insert Dial No.				22
Item	Table 1	Table 2	Table 3	Table 4																								
Receive Digit	4	5	5	7																								
Delete Digit	1	2	2	6																								
Insert Dial No.				22																								
COMMON																												
HRD CPY																												

Summary

Makes up the DID modification table for effectuating DID (Direct Inward Dialing) function.
 (Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Table (1 to 4) Receive Digit	1 : for Table 1 3 : for Tables 2 to 4	1 to 7 : number of receiving digit(s)	3-D-2.03
Delete Digit	0	1 to 6 : number of deleting digit(s) 0 : deleting no digit	
Insert Dial No.	blank	Maximum three digit numbers: dialing number to be added blank : inserting no digit	

Description of Assigning Items

Table 1 to 4

Receive Digits

Assigns receiving dialing digits.
Digits exceeding assigned digits are omitted.

Delete Digits

Assigns the leading digits to be deleted from received dialing number.

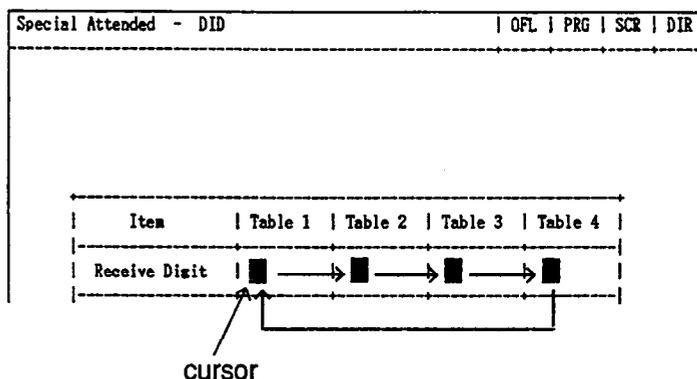
Insert Dial No.

Assigns dialing number to be inserted.

Conditions

This screen cannot be selected from "Special Attended-Submenu," if "Configuration-Slot Assignment" has no DID card programmed.

Pressing the TAB key moves the cursor as follows:



Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-1 "Operation of Function Keys."

3.00 UCD

3.01 UCD (1/2)

Special Attended - UCD												OFL	PRG	SCR	DIR
UCD (1/2)															
UCD	FDN	OFDN	OT	UCD	FDN	OFDN	OT	UCD	FDN	OFDN	OT				
01	1234	5678	-	12	1234	5678	8	23	1234	5678	8				
02	1234	5678	-	13	1234	5678	10	24	1234	5678	8				
03	1234	5678	-	14	1234	5678	10	25	1234	5678	8				
04	1234	5678	-	15	1234	5678	8	26	1234	5678	8				
05	1234	5678	8	16	1234	5678	8	27	1234	5678	8				
06	1234	5678	8	17	1234	5678	8	28	1234	5678	8				
07	1234	5678	8	18	1234	5678	8	29	1234	5678	8				
08	1234	5678		19	1234	5678	8	30	1234	5678	8				
09	1234	5678		20	1234	5678	8	31	1234	5678	8				
10	1234	5678		21	1234	5678	8	32	1234	5678	8				
11	1234	5678		22	1234	5678	8								

FDN: Floating DN(No Use:Blank), OFDN: Overflow DN(No Use:Blank),
UCD: UCD Group, OT:Overflow Time (No Use:Blank,1-10)

COMMON HRD CPY

Summary

Assigns the parameters on each UCD (Uniform Call Distribution) group. (Password level : Two or higher)
This is the first screen of two screens.

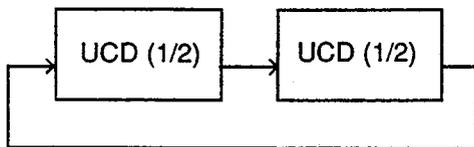
Assigning Items	Default	Selection of Value	Reference
UCD (01 to 32) FDN	blank	Three or four digits : Floating Directory Number blank : without FDN	3-B-3.00 3-D-2.05 to 2.06
OFDN	blank	Three or four digits : Overflow DN blank : without OFDN	3-D-2.05 to 2.06
UCD (05 to 32) OT	blank	1 to 10: minute(s) ; Overflow timer blank : without Overflow timer	3-D-2.05

Description of Assigning Items

UCD (01 to 32) FDN	Assigns the pilot number of UCD groups.
OFDN	Assigns the call placing destination in case of overflowing.
UCD (05 to 32) OT	Assigns the Overflow timer. Timer starts at the beginning of calls entering into the UCD queue.

Conditions

Pressing the NEXT key changes this screen as follows:



Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen. For operation, refer to Section 7-I "Operation of Function Keys."

L. Miscellaneous Screen

1.00 Installation Information

```

Miscellaneous - Installation Information | OFL | PRG | SCR | DIR
-----+-----+-----+-----+-----
<< Customer & Installation Data >>
Customer Name      :
Location           :

Phone No.          :
Modem No.          :
Customer Contact   :
Date of Installation :
Unit ID            :
Installers Name    :
Programmers Name   :
-----+-----+-----+-----+-----
Comments: Panasonic Hybrid PBX Install

COMMON          HRD CPY
  
```

Summary

Assigns the customer's name, address, telephone number etc., of the installation point.
 (Password level : Two or higher)

Assigning Items	Default	Selection of Value	Reference
Customer Name	blank	Letters, numbers, marks within 32 digits	None
Location	blank	Letters, numbers, marks within 64 digits	
Phone No.	blank	Letters, numbers, marks within 16 digits	
Modem No.	blank	Letters, numbers, marks within 16 digits	
Customer Contact	blank	Letters, numbers, marks within 32 digits	
Date of Installation	blank	Letters, numbers, marks within 16 digits	
Unit ID	blank	Letters, numbers, marks within eight digits	

Continued

Continued

Assigning Items	Default	Selection of Value	Reference
Installers Name	blank	Letters, numbers, marks within 32 digits	None
Programmers Name	blank	Letters, numbers, marks within 32 digits	
Comments	blank	Letters, numbers, marks within 70 digits	

Description of Assigning Items

None

Conditions

None

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen. For operation, refer to Section 7-1 "Operation of Function Keys."

Description of Assigning Items

Trunk No. (1 to 18)

Shelf Assigns shelf number of COT (LCOT, GCOT).

Slot Assigns slot number of COT (LCOT, GCOT).

Extension No. (1 to 18)

Shelf Assigns shelf number of extensions (SLC, HLC).

Slot Assigns slot number of extensions (SLC, HLC).

Conditions

None

Function

The following functions appear on the function line of this setting screen.



COMMON (SHOW LV, CHG LV, INS, OUS, REMOVE, EXIT) and HRD CPY keys are available in this setting screen.

For operation, refer to Section 7-I "Operation of Function Keys."

M. Error Message Tables

1.00 Error Messages Related to the Assigning Items in the Same Screen

If there is a wrong entry in the displayed screen, the following appears on the message line when storing the entry: "Contradict the relative item internal (XXX)."

The (XXX) indicates one of the error message numbers shown below and possible causes of the errors and countermeasures for them are as follows.

Error Message No. (XXX)	Probable Cause	Countermeasure
010	(page length)-(skip length) < 6	Make (page length)-(skip length) \geq 6.
011	(receive digit) \geq (delete digit) is not established in - Special Attended DID screen.	Make (receive digit) \geq (delete digit).
012	Restriction Level-Operator \leq Restriction Level-International is not established in - Operation (1/3) screen	Make Restriction Level-Operator \leq Restriction Level-International
020	Day-night combination in the incoming mode is not correct.	Check the day-night combination in incoming mode.
040	Combination of the terminals of operators 1, 2 is incorrect.	Check the combination of terminals for operators 1, 2.
050	DN is not installed.	Designate the installed DN.
051	Attempting to assign FDN's of UCD # 1 to # 4 for the overflow destination of UCD # 5 to # 32	Set FDN of other UCD, or extension directory number.
060	Attempting to assign its own extension number on the key which cannot be assigned to its own extension number. <example> DSS(ICM) DSS(DN) SDN	Specify the number except its own extension number.
070	Specifying UCD number incorrectly.	Assign UCD to only one ICM.
100	Date value is incorrect on the check of month, and leap year in the time and date setting screen.	Check the date setting.

2.00 Error Messages Related to the Assigning Items in the Other Screens

If there is a wrong entry related to the assigning items in the other screens, the following appears on the message line when storing the entry:
 “Contradict the relative item external (xxx).”

The (XXX) indicates an error message number shown below and possible causes of the errors and countermeasures for them are as follows.

Error Message No.	Probable Cause	Countermeasure
010	Setting DN which is not stored in the hundred block.	Enter data in hundred block. Or, set DN which is stored in hundred block.
011	Specified extension DN is not stored.	Store the extension DN.
012	Telephone type of the extension paired with DSS console is not PITS.	Paired extension should be changed to a PITS.
020	Setting DN to the DSS button.	Set DN to assignable port.
030	Setting trunk group except DID on CO-line on DID card. Or, assigning trunk group of DID to CO-line on the card except DID.	Assign trunk group to the correct kind of card.
040	Tenant is different.	Assign the same tenant.
041	As assigned to the destination of 1 : N of trunk group, impossible to change tenant.	Cancel the 1 : N destination.
042	As assigned to the destination of doorphone call, impossible to change tenant.	Cancel the doorphone call destination.
043	Setting one pickup group to ICM & PAG group belonging to different tenant.	Set it to the same tenant. Or, change tenant after deleting pickup group.
044	Changing tenant of ICM/PAG group without canceling extensions.	Change after canceling extensions. Impossible to move extensions to the other tenant.
045	As assigned to the destination of paging from attendant console, impossible to change Tenant.	Change the destination of attendant paging.
046	As assigned to call placing mode of Trunk group, impossible to change Tenant.	Change assigning of incoming mode.
047	As assigned to night answer point for CO-line, impossible to change Tenant.	Change assignment of night answer point.
048	Attempting to change the tenant of Trunk group without removing the CO lines which belong to the trunk group.	Change after removing the CO lines. Impossible to move CO lines to the other tenant.
049	Attempting to change the tenant of Trunk group without canceling the setting of 1:N destination for the trunk group.	Change after canceling 1: N destination.
050	Deleting is impossible because it is assigned in another item.	Change the item beforehand.

Error Message No.	Probable Cause	Countermeasure
052	Extension assigned to NEXT HUNT STATION is already assigned to NEXT HUNT STATION for another extension.	Assign another extension or clear the previous assignment.
053	Relation between ICM group and Pickup group assigned for an extension is incorrect.	Make them in proper relation.
054	As PRV-CO is assigned by PITS button assignment, impossible to change the type of the trunk group to any other than PRV.	Cancel the assignment of the PITS button.
055	As assigned to Single CO by PITS button assignment, impossible to change the 1:1 destination of the line to a different PITS.	Cancel the assignment of the PITS button.
056	Attempting to change the tenant of Trunk group without canceling the setting of 1:1 destination.	Change the tenant after clearing all 1:1 destinations of CO lines belonging to the group.
057	UCD group is not assigned.	Assign Pickup group to a UCD group.
058	Attempting to assign DID to Trunk group which has CO lines belonging to the group.	Assign DID after clearing all CO lines belonging to the group.
060	Attempting to assign the unstored ICM number to the DSS (ICM) button.	Assign stored ICM number.
070	Attempting to assign the ATT which is not registered as the operator to the maintenance device.	Register the ATT as an operator, or specify another device.
080	Specified CO line does not exist.	Specify proper CO line.
081	Specified CO line is not the PVL.	Specify proper CO line.
082	Specified CO line is already assigned as a DIL 1:1 or PRV-CO by another extension.	Specify another CO line or cancel the assignment of the desired line.
083	Impossible to assign because the programmings for specified CO does not satisfy the condition.	Change call placing type to 1:1, or change group type to unique type.
084	Impossible to assign because the programmings for specified CO does not satisfy the condition.	Change call placing type to 1:N, and group type to group.
090	Specified External Pager is not existing.	Specify an existing pager.
101	Attempting to delete the extension which is registered as an operator of the tenant.	Cancel the assignment as an operator.
102	Attempting to delete the extension which is registered as the destination of intercept routing for the Trunk group.	Cancel the assignment as the destination.
103	Attempting to delete the extension which is registered as an ATT busy out extension of Trunk group.	Cancel the assignment as an ATT busy out extension.

Error Message No.	Probable Cause	Countermeasure
104	Attempting to delete the extension which is registered as an ATT overflow extension for Trunk group.	Cancel the storage as an ATT overflow extension.
105	Attempting to delete the extension which is registered as an overflow extension for UCD group.	Cancel the storage as an overflow destination.
106	Attempting to delete the extension/RMT which is registered as a DIL 1:1 call destination of CO line.	Cancel the storage as a DIL 1:1 call destination.
107	Attempting to delete the extension which is registered as a night answer point of CO line.	Cancel the storage as a night answer point.
108	Attempting to delete the extension which is registered as a walking station.	Cancel the storage as a walking station.
109	Attempting to delete the PITS paired with DSS-console.	Change the PITS paired with DSS Console.
110	Attempting to delete the extension which is registered as a night answer point for tenant.	Cancel the storage as night answer point.
111	Attempting to delete the extension which is set to SDN.	Cancel the assignment of SDN.
113	Attempting to delete the ATT when the ATT is assigned for day incoming mode in Trunk group.	Change the incoming mode destination other than ATT.
114	Attempting to delete RMT when the RMT alarm is assigned.	Cancel the assignment of RMT alarm.
115	Attempting to delete the external pager which is registered as UNA point for CO line.	Change the night answer point.
116	Attempting to delete the external pager which is registered as a TAFAS for day/night incoming mode for Trunk group.	Change the incoming mode.
117	Attempting to delete the external pager which is registered as a paging destination for the ATT.	Change the paging destination.
118	Attempting to delete the ATT which is specified for maintenance device.	After changing maintenance device, delete the ATT.
119	When deleting ATT, combination of operators 1 and 2 is incorrect.	Check the combination of operators.
121	Impossible to delete the card, for all of the ports belonging to the card is not made pre-installed.	Delete all the ports belonging to the card.
122	Impossible to delete the card, for DN is assigned to an extension port.	Delete all the ports belonging to the card.

Error Message No.	Probable Cause	Countermeasure
123	Deleting the card is impossible, for it is assigned as a maintenance device	Change the maintenance device.
124	Deleting the card is impossible, because it is assigned for the intercept routing destination for the Trunk group.	Change the intercept routing destination.
125	Deleting the card is impossible, because it is assigned for doorphone call destination.	Cancel the doorphone call destination.
126	Attempting to delete the ATT which is specified for incoming mode destination.	Change the incoming mode destination.
127	Attempting to delete the DISA which is specified for incoming mode.	Change the incoming mode.
128	Attempting to assign NAG as Night Answer Point of a CO line belonging to a Trunk Group whose Incoming Mode (Night) is not FIXED.	Assign Incoming Mode (Night) to FIXED.
130	Changing Tenant Service from "Yes" to "No" is impossible as all ATT's are not assigned to tenant 1.	Assign ATT's to tenant 1.
131	Changing Tenant Service from "Yes" to "No" is impossible as all music sources are not assigned to tenant 1.	Assign music sources to tenant 1.
132	Changing Tenant Service from "Yes" to "No" is impossible as all external pagers are not assigned to tenant 1.	Assign external pagers to tenant 1.
133	Changing Tenant Service from "Yes" to "No" is impossible as all doorphones are not assigned to tenant 1.	Assign doorphones to tenant 1.
134	Changing Tenant Service from "Yes" to "No" is impossible as all DISA's are not assigned to tenant 1.	Assign DISA's to tenant 1.
135	Changing Tenant Service from "Yes" to "No" is impossible as all AGC's are not assigned to tenant 1.	Assign AGC's to tenant 1.
136	Changing Tenant Service from "Yes" to "No" is impossible as all paging groups are not assigned to tenant 1.	Assign all paging groups to tenant 1.
137	Changing Tenant Service from "Yes" to "No" is impossible as all ICM groups are not assigned to tenant 1.	Assign all ICM groups to tenant 1.
138	Changing Tenant Service from "Yes" to "No" is impossible as all trunk groups are not assigned to tenant 1	Assign all trunk groups to tenant 1.
140	Deleting expansion shelf is impossible, as one or more cards are assigned to the expansion shelf.	Delete all the cards in the expansion shelf.

Error Message No.	Probable Cause	Countermeasure
150	Impossible to change the Numbering Plan to "Fixed," because there exist DN's which should be blank in the "Fixed" mode in the Hundred Block.	Clear DN's which should be blank.
160	Impossible to change ICM/Paging group, for the pickup group belonging to the ICM/Paging group contains extensions.	Change after deleting all the extensions in the pickup group.

3.00 Other Error Messages

Error Message	Probable Cause	Countermeasure
Illegal parameter	Unacceptable value is assigned.	Assign an allowable value.
Parameter is not consecutive	Space exists between items.	Remove the space.
This parameter cannot assign	Assigned selection value is not for the item.	Set the assignable value.
Duplicate parameter definition internal	The number which is set previously in this screen is assigned again.	Set the number different from the previous number.
Duplicate parameter definition external	The number which is set previously in a different screen is assigned.	Set the number different from the previous number.
Not installed	Device is not installed.	Assign the installed device.
Invalid status	Status of the specified device does not accept this command.	Change the status of the device to be acceptable for the command.
Diagnostic failure	Diagnostic error is checked when In-Service command is executed.	Execute test.
Insufficient privilege	Privilege level is lower than specified level.	Increase the privilege level through the Change level function.
Failure	Port test is made during a card malfunction.	Repair the malfunctioning card.
Service violation	Specified service is not executed.	Check specified service.
Already accessed by another device	Another maintenance device (remote, PITS, system) is in use.	Wait until another device is finished or let him finish.
Printer is not ready	Printer is not connected to the system or the power is off.	Connect the printer, and make the power on.
Cannot print out in remote	Print out is unavailable from Remote.	Execute print out on-site.
Waiting	Changing of program data is suspended because call placement is going on.	Wait for a while or cancel the setting by "CTRL+C"
Calendar IC trouble	Calendar IC malfunction.	Repair calendar IC.
Device error	Backup device is not connected (only when maintenance device is ATT).	Connect the backup device to SIO # 1 Port.
Version error	Different version at the time of backup.	Match the backup version.
Checksum error	A checksum error has been detected.	Communication line is defective, or backup data is destroyed.

Error Message	Probable Cause	Countermeasure
Illegal code detected	Improper data is received.	Communication link is defective, or backup data is destroyed.
Off line	Execution is impossible during off-line.	Execute during on-line.
Status is already set	Impossible change such as [INS] → [INS], [OUS] → [OUS] is attempted.	Impossible.

Section 10

System Programming

Dumb Type Terminal

(Section 10)

System Programming

Dumb Type Terminal

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A. Introduction

This section provides system programming using Dumb type terminal. Before starting system programming, Section 8 "Preparation for Programming and Maintenance (Dumb Type Terminal)" must be read. This section describes the basic operations for programming.

Programming mode consists of 53 commands, which enable users to assign or change various parameters concerning the system administration such as Tenant, Class of Service, Numbering Plan and so on. A list of all programming commands is provided on the following page.

B. Construction of Programming Mode

		Password Level	
PRG (Programming)	SYA (System Assignment)	1	First Set
	SLA (Slot Assignment)	1	
	DNA (DN Assignment)	1	
	OPR (Operation)	2	Second Set
	TNN (Tenant)	2	
	TIM (System Timer)	2	
	CS1 (Class of Service 1)	2	
	CS2 (Class of Service 2)	2	
	LAG (Local Access Group)	2	
	NBP (Numbering Plan)	2	
	COM (Communication Interface)	2	
	SPD (Speed Dialing - System)	3	
	ABS (Absent Message)	3	
	TG1 (Trunk Group 1)	2	Third Set
	TG2 (Trunk Group 2)	2	
	IPG (ICM/Paging Group)	2	
	CPG (Call Pickup Group)	2	
	COL (CO Line)	3	
	PAG (External Pager)	3	
	MUS (Music Source)	3	
	AGC (Automatic Gain Control)	3	
	EXT (Extension)	3	
	DSS (DSS Console)	3	
	DNK (DN Button Assignment)	3	
	PFK (PF Button Assignment)	3	
	DSK (DSS Button Assignment)	3	
	DPH (Doorphone)	3	
	ATT (Attendant Console)	2	
	AQP (Attendant Queue Priority)	2	
	EQU (Equal Access)	2	
	OCC (OCC Access)	2	
	TR1 (Toll Restriction 1)	2	
	TR2 (Toll Restriction 2)	2	
	TR3 (Toll Restriction 3)	2	
AR1 (Automatic Route Selection 1)	2		
AR2 (Automatic Route Selection 2)	2		
AR3 (Automatic Route Selection 3)	2		
AR4 (Automatic Route Selection 4)	2		
AR5 (Automatic Route Selection 5)	2		
DIS (Direct Inward System Access)	2		
DIC (DISA Code)	2		
DIP (DISA Password)	2		
DID (Direct Inward Dialing)	2		
UC1 (UCD 1)	2		
UC2 (UCD 2)	2		
INF (Information)	2		
PFT (Power Failure Transfer)	2		
CHG (Change Password)	1		
CPC (CPC Detect Timing-Outgoing)	3		
ABC (Automatic Busy-out Count)	3		
WS1 (World Select 1)	2		
WS2 (World Select 2)	2		
WS3 (World Select 3)	2		

These programs must be done in order from "First Set" "Second Set" to "Third Set" shown in the table. For example, if you program Operation (OPE) before doing System Assignment (SYA) program, an error message appears.

C. Programming Commands

1.00 System Assignment (SYA)

Description

This command is used to configure the system for:

- Expansion Shelf (1, or both 1 and 2)
- T-SW Conference Expansion Card

To expand the conference trunks, T-SW Conference Expansion Card (KX-T336104) must be installed.

(Password level : One)

Input Format

Mode ()

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Expansion Shelf	N: expansion shelf not installed 1: expansion shelf 1 available 2: both expansion shelves 1 and 2 available
2	TSW Additional CONF	Y: conference expansion card installed N: conference expansion card not installed

Conditions

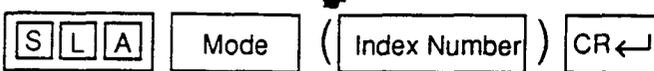
None

2.00 Slot Assignment (SLA)

Description

To assign the type of card equipped in each free slot on the basic and expansion shelves, such as PLC (Proprietary Line Circuit), HLC (Hybrid Line Circuit), SLC (Single Line Circuit) etc..
(Password level : One)

Input Format



➤ In the AT mode, to display or edit in the conversation style, do not enter the index number :

<Example>

When you enter; PRG>SLA AT (\leftarrow), the display starts from the slot number 101 and moves one by one.

Index Number

Index Number	Explanation
	Physical number (101 to 315)

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Card Type	XX (00 to 13) 00 : none 01 : PLC (Proprietary Integrated Telephone System Line Circuit) card 02 : HLC (Hybrid Line Circuit) card 03 : SLC (Single Line Telephone Circuit) card 04 : OPX (Off Premise Extension) card 05 : LCOT (Loop Start Central Office Trunk) card 06 : GCOT (Ground Start Central Office Trunk) card 07 : DID (Direct Inward Dialing) card 08 : ATLC (Attendant Console Line Circuit) card

Continued

Item Number	Assigning Items	Input Value
		09 : DPH (Doorphone Circuit) card 10 : AGC (Automatic Gain Control) card 11 : DISA (Direct Inward System Access) card 12 : RMT (Remote Circuit) card 13 : TSW-OHCA (Off-Hook Call Announcement) card

Conditions

If "SLA" command is entered without index number, all physical slot numbers (except 113 and 115) will be displayed in ascending order (from 101 to 315).

It is impossible to select Index No.113 and 115, because Index No.113 is fixed to CPU card and 115 is fixed to T-SW card.

If Index No.114 is selected, assignable input value is limited to "00: none" or "13: OHCA."

If no CO trunk card (LCOT, GCOT, DID) is assigned, it is not possible to program "CO Line (COL)."

If AGC card is not assigned, "Automatic Gain Control (AGC)" cannot be programmed.

If DPH card is not assigned, "Doorphone (DPH)" cannot be programmed.

If ATLC card is not assigned, it is not possible to program "Attendant Console (ATT)" and "Attendant Queue Priority (AQP)."

If DISA card is not assigned, it is not possible to program "DISA (DIS)", "DISA Code (DIC)" and "DISA Password (DIP)."

If DID card is not assigned, it is not possible to program "DID (DID)."

When assigning a card, the card status is Out of Service (OUS). When using the card, the card status should be set to In Service (INS).

For In Service (INS) and Out of Service (OUS), refer to Section 8-F-3.00 "In Service (INS)" and Section 8-F-4.00 "Out of Service (OUS)."

For confirming whether card status is INS or OUS, refer to Section 15-F-1.02 "Card Status Screen."

When deleting or changing the pre-assigned card type, the conditions should be the followings:

- The card status is OUS or Fault.
- All of the port data has been deleted.

However, if there exist port data, it is possible to change the cards as follows:

- PLC card \longleftrightarrow HLC card
- SLC card \longleftrightarrow HLC card

Deleting the ATLC card will be an error if there exist the following assignments:

- "Trunk Group (TG1)",
 Incoming Mode (Day) is set to "1 (ATT)."
 Intercept Routing (Day) is set to "A (ATT)."
- "Doorphone (DPH)",
 Doorphone Assignment is set to "A(ATT)."

Deleting the DISA card will be an error if there exist the following assignments:

- "Trunk Group (TG1)",
 Incoming Mode (Day) is set to "4 (DISA)."
 Incoming Mode (Night) is set to "4 (DISA)."

Deleting the HLC, SLC, LCOT or GCOT card will be an error if there is the following assignment to the slot to be deleted:

- "Power Failure Transfer (PFT)"

See Section 1-A-5.00 "Service Cards Description" for installing the cards in combination.

3.00 DN Assignment (DNA)

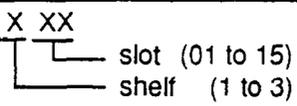
Description

To assign a DN (directory number) to each port.
(Password level : One)

Input Format

()

Index Number

Index Number	Explanation
X XX 	Physical number (101 to 315)

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Port 1	Three or four numeric digits: directory number
2	Port 2	
3	Port 3	
4	Port 4	
5	Port 5	
6	Port 6	
7	Port 7	
8	Port 8	

Conditions

None

Continued

Item Number	Assigning Items	Input Value
08	DSS Operation Mode	1 : disconnect and call 2 : hold and transfer
09	Busy Tone	1 : busy tone 1 2 : busy tone 2
10	Held Call Reminder	Y : Held Call Reminder is enabled N : Held Call Reminder is disabled
11	Beep Tone for Bsy-ovr / Brg-in	Y : overriding with beep tone N : overriding without beep tone
12	External Paging 1	Y : using external pager 1 N : not using external pager 1
13	External Paging 2	Y : using external pager 2 N : not using external pager 2
14	External Music Source 1	Y : using external music source 1 N : not using external music source 1
15	External Music Source 2	Y : using external music source 2 N : not using external music source 2
16	Idle Line Preference	1 : off-hook selects an idle DN button 2 : off-hook selects an idle CO button
17	FDN for General Operator Call 1	0 : no FDN DN XXXX (XXXX: three or four numeric digits): FDN for general operator call 1
18	FDN for General Operator Call 2	0 : no FDN DN XXXX (XXXX: three or four numeric digits): FDN for general operator call 2

ConditionsItem
Number

- 01 Tenant Service If "N" is selected, the assigning items listed below cannot be programmed:
- "Trunk Group 1 (TG 1)", Tenant
"Pager (PAG)", Tenant
"Music Source (MUS)", Tenant
"AGC (AGC)", Tenant
"Doorphone (DPH)", Tenant
"DISA(DIS)", Tenant
- 02 Automatic Route Selection If set to "N," it is impossible to program "DISA Code (DIC)", ARS Override.

03	Numbering Plan	If set to "1," "Numbering Plan (NBP)" is changeable.
07	Home Dialing Plan	Dial type must be selected depending on the type of the area where this system is installed.
10	Held Call Reminder	If set to "N," Held Call Reminder does not function. However, it is possible to program the items below: "System Timer (TIM)", Held Call Reminder/Held Call Reminder (ATT) "Attendant Queue Priority (AQP)", Held Call Reminder
12, 13	External Paging 1,2	If both are set to "N," Paging through External Pagers does not function and "Pager (PAG)" does not appear. However, it is possible to program the items below: "Class of Service 2 (CS2)", External Paging 1/2 "Numbering Plan (NBP)", External Paging/External Paging Answer If either is set to "N," it is not possible to program its "Pager (PAG)", Tone/BGM.
14, 15	External Music Source 1,2	If both are set to "N," "Music Source (MUS)" does not appear. If either is set to "N," it is not possible to program its "Music Source (MUS)", For Use.

Index Number

Index Number	Explanation
2	The second Operation block

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	System Administration Device	1 : VT220/VT100 2 : Dumb terminal 3 : Attendant Console 1 4 : Attendant Console 2
02	SMDR	Y : SMDR enabled N : SMDR disabled
03	Page Length	04 to 99: page length (number of lines)
04	Skip Perf.	00 to 95: skip perforation • Note: if printing out system data: (page length)- (skip perforation)≥23 if printing out call processing information : (page length)- (skip perforation)≥6 if printing out error log data : (page length)- (skip perforation)≥4
05	Outgoing Duration Log	0 : do not print outgoing calls 1 : print outgoing toll calls 2: print all calls
06	Incoming Duration Log	Y: print incoming calls N: do not print incoming calls
07	Attendant Duration	1 : Attendant Console duration recorded 2 : Attendant Console duration included with destination
08	Special Carrier Name	1 : print out default value 2 : print out users name 3 : print out dialing number
09	Print Secret Dial	Y: print secret dial numbers N: do not print secret dial numbers
10	Print Error Log	Y: print the error log N: do not print the error log
11	Print Programming	Y: print programming N: do not print programming

Continued

Item Number	Assigning Items	Input Value
12	Print Traffic	Y : print traffic N : do not print traffic
13	Start Time of Traffic Measurement	XX: XXX 01 to 12: hour 00 to 59: minute A or P : a.m. or p.m.
14	Start Time of Test	XX: XXX 01 to 12: hour 00 to 59: minute A or P : a.m./p.m.
15	Remote Directory Number	0 : none DN XXXX (XXXX: three or four numeric digits) : Floating Directory Number
16	Remote Alarm	Y : Remote Alarm enabled N : Remote Alarm disabled
17	Destination Address	Maximum 26 numeric digits : telephone (modem) number of the destination for Remote Alarm

ConditionsItem
Number

02 SMDR

If set to "N," the following items cannot be programmed:
"Operation (OPR)", (Index Number 2)

Page Length
Skip Perf.
Outgoing Duration Log
Incoming Duration Log
Attendant Duration
Special Carrier Name
Print Secret Dial
Print Error Log
Print Programming
Print Traffic

15 Remote Directory Number To assign this item, RMT card is necessary,

16, 17 Remote Alarm/
Destination Address Impossible to program if "12"(RMT card) is not assigned in the "Slot Assignment (SLA)." If Remote Alarm is set to "N," Destination Address cannot be programmed.

5.00 Tenant (TNN)

Description

To assign tenant data (specifying terminal type for the operators, the method to change over Night Service mode, the password for PITS programming etc.).

(Password level: Two or higher)

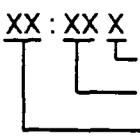
Input Format

()

Index Number

Index Number	Explanation
1 or 2	tenant number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Operator 1	Type of Terminal: 0 : no operator A1 : Attendant Console 1 A2 : Attendant Console 2 DN XXXX (XXXX: three or four numeric digits): extension directory number	
02	Operator 2	Same as operator 1	
03	Night Service	1 : manual change 2 : automatic change	
04	Auto Start Time : MON. (Day)	 <p>XX : XX X A or P : a.m./p.m. 00 to 59 : minute 01 to 12 : hour</p>	<input type="radio"/>
05	Auto Start Time : MON. (Night)		<input type="radio"/>
06	Auto Start Time : TUE. (Day)		<input type="radio"/>
07	Auto Start Time : TUE. (Night)		<input type="radio"/>
08	Auto Start Time : WED. (Day)		<input type="radio"/>
09	Auto Start Time : WED. (Night)		<input type="radio"/>
10	Auto Start Time : THU. (Day)		<input type="radio"/>
11	Auto Start Time : THU. (Night)		<input type="radio"/>
12	Auto Start Time : FRI. (Day)		<input type="radio"/>
13	Auto Start Time : FRI. (Night)		<input type="radio"/>
14	Auto Start Time : SAT. (Day)		<input type="radio"/>
15	Auto Start Time : SAT. (Night)		<input type="radio"/>
16	Auto Start Time : SUN. (Day)		<input type="radio"/>
17	Auto Start Time : SUN. (Night)		<input type="radio"/>

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
18	PITS Programming Password	four numeric digits	<input type="radio"/>
19	Walking COS Password	four numeric digits	<input type="radio"/>
20	Inter-Tenant Calling	Y: Inter-Tenant calling is available N: Inter-Tenant calling is unavailable	
21	Speed Dialing-System Boundary	000 to 200 : boundary number 000 : all for tenant 2 200 : all for tenant 1	
22	Call Park Boundary	00 to 20 : boundary number 00 : all for tenant 2 20 : all for tenant 1	
23	Message Waiting Boundary	000 to 500 : boundary number 000 : all for tenant 2 500 : all for tenant 1	
24	Absent Message Boundary	06 to 16 : boundary number 06 : all for tenant 2 16 : all for tenant 1	

☛ The item numbers 20 through 24 are for tenant 2 only when tenant service is employed.

: clearing function is effective for the item

Conditions

Index Number 2 does not appear if "Operation (OPR)" Tenant Service is set to "N."

Item
Number

01, 02 Operator 1/2

This system can accommodate up to two Attendant Consoles. When Tenant Service is available and if two Attendant Consoles are assigned to tenant 1, no Attendant Console can be assigned to tenant 2. If only one Attendant Console is accommodated, it must be assigned only to Operator 1.

21 to 24 Speed Dialing-
System Boundary/
Call Park Boundary/
Message Waiting
Boundary/Absent
Message Boundary

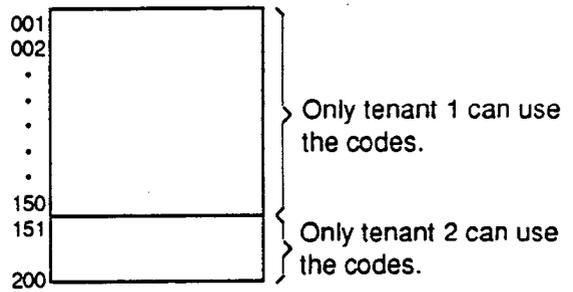
If Tenant Service is available, the following items can be split between tenant 1 and tenant 2. The boundaries are to set tenant-boundary numbers. The last number that tenant 1 can use must be assigned in each boundary for the functions below:

Speed Dialing-System
Call Park-System
Message Waiting
Absent Message

<Example>

Up to 200 speed dialing codes can be programmed for the system. If you wish to assign 150 codes to tenant 1 and 50 codes to tenant 2, enter "150" in Speed Dialing-System Boundary.

Speed dialing codes



If tenant 1 uses no code and tenant 2 uses 200 codes, enter "000."

6.00 System Timer (TIM)

Description

To assign a value to the various system timers.
(Password level: Two or higher)

Input Format

Mode ()

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	Held Call Reminder	15 to 240 : seconds
02	Held Call Reminder (ATT)	15 to 240 : seconds
03	Transfer Recall	15 to 240 : seconds
04	Pickup Dial Waiting	1 to 5 : second(s)
05	External First Digit Time-Out	5 to 20 : seconds
06	External Inter digit Time-Out	3 to 15 : seconds
07	External Inter digit Time-Out (PBX)	3 to 10 : seconds
08	Toll Restriction Guard Time-Out	0 to 25 : second(s)
09	Call Forwarding-No Answer Time-Out	5 to 60 : seconds
10	Intercept Routing Time-Out (System)	15 to 240 : seconds
11	Intercept Routing Time-Out (DISA)	15 to 240 : seconds
12	Attendant Overflow Time	15 to 240 : seconds
13	SMDR Duration Time	0 to 15 : second(s)

Conditions

Item
Number

01 to 02 Held Call Reminder/
Held Call Reminder (ATT) If these items are programmed but if "Operation (OPR)" Index Number 1, Held Call Reminder is set to "N," Held Call Reminder does not function.

7.00 Class of Service 1 (CS1)

Description

This is the first Class of Service block which is used to assign toll restriction level, maximum dialing digits, Call Forwarding, Do Not Disturb, Do Not Disturb Override and so on.
(Password level: Two or higher)

Input Format

()

Index Number

Index Number	Explanation
01 to 32	Class of Service number

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	Toll Restriction Level (Day)	01 to 16
02	Toll Restriction Level (Night)	01 to 16
03	Max. Dialing Digits	002 to 255 : maximum number of dialed digits [input value -1] 000 : no limit to digits dialed 001 : cannot dial
04	Call Forwarding/Do Not Disturb	Y : Call Forwarding/Do Not Disturb is available N : Call Forwarding/Do Not Disturb is unavailable
05	Do Not Disturb Override	Y : Do Not Disturb Override is available N : Do Not Disturb Override is unavailable
06	CO Forward Mode	Y : Call Forwarding to CO is available N : Call Forwarding to CO is unavailable
07	CO Transfer Mode	Y : Call Transfer to CO is available N : Call Transfer to CO is unavailable
08	Forced Account Code Mode	Y : account codes are required for outgoing CO calls N : account codes are optional for outgoing CO calls
09	BSS/OHCA	Y : Override is available N : Override is unavailable

Continued

Continued

Item Number	Assigning Items	Input Value
10	BSS/OHCA Deny	Y: Override Deny is possible N: Override Deny is impossible
11	Executive Busy Override	Y: Executive Busy Override is available N: Executive Busy Override is unavailable
12	Executive Busy Override Deny	Y: Executive Busy Override Deny is available N: Executive Busy Override Deny is unavailable
13	Station Lock	Y: Station Lock is available N: Station Lock is unavailable
14	Walking Station	Y: Walking Station is possible N: Walking Station is impossible
15	Maintenance Capability	Y: PITS system programming is possible N: PITS system programming is impossible
16	ARS/Local Access	1: With restriction 2: No restriction 3: No access

Conditions

None

8.00 Class of Service 2 (CS2)

Description

This is the second Class of Service block which is used to assign the trunk groups available for access and so on.
(Password level: Two or higher)

Input Format

Mode Index Number ()

Index Number

Index Number	Explanation
01 to 32	Class of Service number

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	Trunk Group 01	Y : trunk group available for access N : trunk group unavailable for access
02	Trunk Group 02	
03	Trunk Group 03	
04	Trunk Group 04	
05	Trunk Group 05	
06	Trunk Group 06	
07	Trunk Group 07	
08	Trunk Group 08	
09	Trunk Group 09	
10	Trunk Group 10	
11	Trunk Group 11	
12	Trunk Group 12	
13	Trunk Group 13	
14	Trunk Group 14	
15	Trunk Group 15	
16	Trunk Group 16	

Continued

17	EQA 1	Y: special carrier available for access N: special carrier unavailable for access
18	EQA 2	
19	EQA 3	
20	EQA 4	
21	OCC 1	
22	OCC 2	
23	OCC 3	
24	OCC 4	
25	PAG 1	Y: paging group available for access N: paging group unavailable for access
26	PAG 2	
27	PAG 3	
28	PAG 4	
29	PAG 5	
30	PAG 6	
31	PAG 7	
32	PAG 8	
33	External Paging 1	Y: external paging group available for access
34	External Paging 2	N: external paging group unavailable for access

Conditions

Item

Number

- 17 to 24 EQA 1 to 4
OCC 1 to 4
- If "Y" is selected but if "Equal Access (EQU)", Service and "OCC Access (OCC)", Service are set to "N," Special Carrier Access via virtual trunk group access does not work.
It is administable to activate or deactivate the EQU Access and/or OCC Access features on a system-wide basis.
Refer to Section 10-C-52.00 "World Select 2 (WS2)" for further information.
- 25 to 32 PAG 1 to 8
- If an extension does not belong to the same tenant as the paging groups assigned to "Y," the extension cannot access the paging groups.
- 33, 34 External Paging 1/2
- If "Y" is selected but if "Operation (OPR)" Index 1, External Paging 1/2 is not set to "Y," Paging through external pagers is impossible.
If an extension belongs to the other tenant than that of the External Paging 1 or 2 assigned to "Y," the extension cannot access the external paging group.

9.00 Local Access Group (LAG)

Description:

Assigns the toll restriction level and hunt sequence for idle trunk groups when using local access.

(Password level: Two or higher)

Input Format

Mode ()

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Toll Restriction Level	01 to 16 : restriction level	
02	Toll Restriction Table	1 to 8 : restriction table number	
03	Hunt Sequence 01	01 to 16 : trunk group number	<input type="radio"/>
04	Hunt Sequence 02		<input type="radio"/>
05	Hunt Sequence 03		<input type="radio"/>
06	Hunt Sequence 04		<input type="radio"/>
07	Hunt Sequence 05		<input type="radio"/>
08	Hunt Sequence 06		<input type="radio"/>
09	Hunt Sequence 07		<input type="radio"/>
10	Hunt Sequence 08		<input type="radio"/>
11	Hunt Sequence 09		<input type="radio"/>
12	Hunt Sequence 10		<input type="radio"/>
13	Hunt Sequence 11		<input type="radio"/>
14	Hunt Sequence 12		<input type="radio"/>
15	Hunt Sequence 13		<input type="radio"/>
16	Hunt Sequence 14		<input type="radio"/>
17	Hunt Sequence 15		<input type="radio"/>
18	Hunt Sequence 16		<input type="radio"/>

: clearing function is effective for the item

Conditions

None

10.00 Numbering Plan (NBP)

Description

This is used for assigning the first one or two digits of extension numbers, and feature numbers. Entry is possible only when the "Numbering Plan" is assigned to "1 (manual)" in the Operation (OPR) program.
(Password level: Two or higher)

Input Format

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	1st Hundred Block Extension	One or two numeric digits	<input type="radio"/>
02	2nd Hundred Block Extension		<input type="radio"/>
03	3rd Hundred Block Extension		<input type="radio"/>
04	4th Hundred Block Extension		<input type="radio"/>
05	5th Hundred Block Extension		<input type="radio"/>
06	6th Hundred Block Extension		<input type="radio"/>
07	7th Hundred Block Extension		<input type="radio"/>
08	8th Hundred Block Extension		<input type="radio"/>
09	9th Hundred Block Extension		<input type="radio"/>
10	10th Hundred Block Extension		<input type="radio"/>
11	11th Hundred Block Extension		<input type="radio"/>
12	12th Hundred Block Extension		<input type="radio"/>
13	13th Hundred Block Extension		<input type="radio"/>
14	14th Hundred Block Extension		<input type="radio"/>
15	15th Hundred Block Extension		<input type="radio"/>
16	16th Hundred Block Extension		<input type="radio"/>
17	Operator Call (General)	Maximum four digits consisting of numbers, *, #	<input type="radio"/>
18	Operator Call (Specific)		<input type="radio"/>
19	ARS/Local CO Line Access		<input type="radio"/>

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
20	Trunk Group 01-08 access	Maximum four digits consisting of numbers, *, #	<input type="radio"/>
21	Trunk Group 09-16 access		<input type="radio"/>
22	Trunk Group 17-24 access		<input type="radio"/>
23	Speed Dialing-System		<input type="radio"/>
24	Speed Dialing-Station	Maximum four digits consisting of numbers, *	<input type="radio"/>
25	Doorphone Call (1-4)	Maximum four digits consisting of numbers, *, #	<input type="radio"/>
26	External Paging		<input type="radio"/>
27	Station Paging		<input type="radio"/>
28	External Paging Answer		<input type="radio"/>
29	Station Paging Answer		<input type="radio"/>
30	Night Answer 1		<input type="radio"/>
31	Night Answer 2		<input type="radio"/>
32	Dial Call Pickup		<input type="radio"/>
33	Directed Call Pickup		<input type="radio"/>
34	Hold Extension Retrieve		<input type="radio"/>
35	Redial		<input type="radio"/>
36	External Feature Access		<input type="radio"/>
37	Account Code		<input type="radio"/>
38	Hold		<input type="radio"/>
39	Hold Retrieve		<input type="radio"/>
40	Call Park-System		<input type="radio"/>
41	Call Park Retrieve-System		<input type="radio"/>
42	Call Park Station		<input type="radio"/>
43	Call Park Retrieve-Station		<input type="radio"/>
44	Call Forwarding-All Call Set		<input type="radio"/>
45	Call Forwarding-Busy Set		<input type="radio"/>
46	Call Forwarding-No Answer Set		<input type="radio"/>
47	Call Forwarding-to Trunk		Maximum four digits consisting of numbers, *

Continued

Continued

Item Number	Assigning Items	Input Value	CLR	
48	Call Forwarding-Busy/No Answer	Maximum four digits consisting of numbers, *, #	<input type="radio"/>	
49	Do Not Disturb Set		<input type="radio"/>	
50	Call Forwarding/Do Not Disturb Cancel		<input type="radio"/>	
51	Dial Call Pickup Deny Set		<input type="radio"/>	
52	Dial Call Pickup Deny Cancel		<input type="radio"/>	
53	Call Waiting Set		<input type="radio"/>	
54	Call Waiting Cancel		<input type="radio"/>	
55	BSS/OHCA Deny Set		<input type="radio"/>	
56	BSS/OHCA Deny Cancel		<input type="radio"/>	
57	Busy Override Deny Set		<input type="radio"/>	
58	Busy Override Deny Cancel		<input type="radio"/>	
59	Data Line Security Set		<input type="radio"/>	
60	Data Line Security Cancel		<input type="radio"/>	
61	Pickup Dialing Programming		Maximum four digits consisting of numbers, *	<input type="radio"/>
62	Pickup Dialing Set		Maximum four digits consisting of numbers, *, #	<input type="radio"/>
63	Pickup Dialing Cancel			<input type="radio"/>
64	Absent Message Set	<input type="radio"/>		
65	Absent Message Cancel	<input type="radio"/>		
66	Timed Reminder Confirm	<input type="radio"/>		
67	Timed Reminder Set	<input type="radio"/>		
68	Timed Reminder Cancel	<input type="radio"/>		
69	Voice Calling Mode Set	<input type="radio"/>		
70	Voice Calling Mode Cancel	<input type="radio"/>		
71	Voice Calling Deny Set	<input type="radio"/>		
72	Voice Calling Deny Cancel	<input type="radio"/>		
73	Speed Dialing-Station Programming	<input type="radio"/>		
74	Station Lock Set	<input type="radio"/>		
75	Station Lock Cancel	<input type="radio"/>		

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
76	Walking COS Set	Maximum four digits consisting of numbers, *, #	<input type="radio"/>
77	Walking COS Cancel		<input type="radio"/>
78	Walking Station Set		<input type="radio"/>
79	Walking Station Cancel		<input type="radio"/>
80	Message Set		<input type="radio"/>
81	Message Cancel		<input type="radio"/>
82	Station Program Clear		<input type="radio"/>
83	Night Mode Set		<input type="radio"/>
84	Night Mode Cancel		<input type="radio"/>
85	Night Service Manual Mode Set		<input type="radio"/>
86	Night Service Manual Mode Cancel		<input type="radio"/>
87	Flexible Night Service		<input type="radio"/>
88	Remote Station Lock Set		<input type="radio"/>
89	Remote Station Lock Cancel		<input type="radio"/>
90	Remote DND Set		<input type="radio"/>
91	Remote DND Cancel		<input type="radio"/>
92	Remote FWD Cancel		<input type="radio"/>
93	Remote FWD Cancel-One Time		<input type="radio"/>
94	BGM Through External Paging		<input type="radio"/>
95	Busy Out Trunk		<input type="radio"/>
96	Unbusy Trunk		<input type="radio"/>
97	OGM Record		<input type="radio"/>
98	OGM Playback		<input type="radio"/>
99	UCD Log In		<input type="radio"/>
100	UCD Log Out		<input type="radio"/>

: clearing function is effective for the item

Conditions

"Numbering Plan (NBP)" setting cannot be changed if "Operation (OPR)" Index 1, Numbering Plan is set to "2 (Fixed 1)" or "3 (Fixed 2)." If "1" is selected, this setting is changeable.

Logical check is performed by every storage according to the following logic:

Extension numbers are three or four digits and the leading one or two digits are assigned in this screen.

Feature numbers may be one, two, three or four digits.

Those numbers assigned in this screen cannot include the same number assigned to other feature number as the part or whole of it. For example, the digit "2" is assigned to the feature number for "Trunk Group 01-08 Access" and another digits "21" is assigned for "Trunk Group 09-19 Access," it is checked at the time of data storage. Similarly, "35" and "351" cannot be present at the same time.

It is possible to store "0" through "9," "*", "#," as the feature numbers. However, if "*" or "#" is included in the feature numbers, those features are not accessed by the rotary telephone extensions.

Item

Number

01 to 16	1st to 16th Hundred Block Extension	Extension numbers cannot include "*" and "#."
24/47/61	Speed Dialing- Station/Call Forwarding-to Trunk/Pickup Dialing Programming	These feature numbers cannot include "#."

11.00 Communication Interface (COM)

Description

To set parameters for the RS-232C and Modem
(Modulator and Demodulator) ports.
(Password level: Two or higher)

Input Format

() ()

Index Number

Index Number	Explanation
1	SIO # 1 (terminal)
2	SIO # 2 (SMDR)
3	Remote

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	NL-code	1 : CR + LF 2 : CR
2	Baud Rate	110/150/300/600/1200/2400/4800/9600 : for SIO 300/1200 : for Remote
3	Word Length	6 : 6 bits (for Remote only) 7 : 7 bits 8 : 8 bits
4	Parity	1 : none 2 : mark (for SIO only) 3 : space (for SIO only) 4 : even 5 : odd
5	Stop Bit	1 : 1 bit 2 : 1.5 bits (for Remote only) 3 : 2 bits

Conditions

It is possible to change assigning items in "Communication Interface (COM)" while on-site administration or remote administration is performed or SMDR is being printed out. New setting becomes effective when those operation modes are finished.

12.00 Speed Dialing-System (SPD)

Description

To assign toll restriction levels and telephone numbers for speed dialing codes.
(Password level: Three or higher)

Input Format

S P D Mode Index Number (Item Number) CR ←

Index Number

Index Number	Explanation
001 to 200	Speed dialing code

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
1	Restriction Level	00 : a call is checked against the system toll restriction feature 01 to 16 : a call is first checked against the toll restriction level of Extension Users	
2	Dial	Maximum 32 digits consisting of numbers, *, # and marks below : P : pause F : flash [: start of secret number] : end of secret number - : hyphen (Enter [] in a pair.)	○

○ : clearing function is effective for the item

Conditions

If "Operation (OPR)", Tenant Service is set to "Y (Yes)," 200 speed dialing codes can be split between tenant 1 and tenant 2. To split them, "Tenant (TNN)", Speed Dialing-System Boundary must be executed.

13.00 Absent Message (ABS)

Description

To assign absent messages.
(Password level: Three or higher)

Input Format

 Mode ()

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Will Return Soon	Fixed messages % : must be input by the extension user	
02	Gone Home		
03	In a Meeting		
04	Back at % % : % % % %		
05	Out until % % / % %		
06	At Ext % % % %		
07 to 16		Flexible messages Maximum 16 digits Valid characters are letters, numbers and up to five % % : input by the extension user (Be sure to enter " before and after the message.)	<input type="radio"/>

: clearing function is effective for the item

Conditions

If "Operation (OPR)", Tenant Service is assigned to "Y (Yes)," 10 flexible messages can be split between tenants 1 and 2. To split them, "Tenant (TNN)", Absent Message Boundary is used. Six fixed messages cannot be split between tenants. They are used in common.

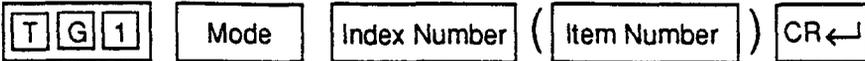
If a flexible message in use is changed, the current message on the extension is automatically canceled.

14.00 Trunk Group 1 (TG1)

Description

To assign information for the 16 trunk groups.
 This is the first of two blocks.
 (Password level: Two or higher)

Input Format



Index Number

Index Number	Explanation
01 to 16	Trunk group number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Type	1 : DDD(Direct Distance Dialing) 2 : FEX(Foreign Exchange) 3 : WATS (Wide Area Telecommunication Service) 4 : PVL (Private Line) 5 : PBX (Behind PBX) 6 : DID (Direct Inward Dialing)	
02	Name	Trunk group name Maximum three digits composed of characters, numbers, and marks (Enclose the name with double quotes ".)	○
03	Tenant	1/2: tenant number (not assignable when "Tenant Service" is set to "N")	
04	Incoming/Outgoing	1 : incoming only 2 : outgoing only 3 : both way (Not assignable when the Trunk Group type is DID)	

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
14	Pause Time	1 : 1.5 seconds 2 : 2.5 seconds 3 : 3.5 seconds 4 : 4.5 seconds	
15	Hook Switch Flash Time	0 : none 1 : 80 milliseconds 2 : 300 milliseconds 3 : 600 milliseconds 4 : 900 milliseconds 5 : 1200 milliseconds	

○ : clearing function is effective for the item

Conditions

The assigning items: Type, Incoming Mode (Day/Night), Destination (DIL 1:N Only) Type and Number, CO Appearance Type can be changed only when all the trunks belonging to the trunk group are not in use. If any trunk is used, it is impossible to change.

Item Number

- 03 Tenant If "***" is displayed here, "Operation (OPR)", Tenant Service is set to "N (No)."
- 05 Incoming Mode (Day) Refer to Section 9-E-1.01 "Trunk Group (1/2)."
- 06 Incoming Mode (Night) If "2 (Fixed)" or "3 (Flexible)" is changed to another option, it cancels all the settings of CO lines in "CO Line (COL)", Night Answer Point (Type: No.) which belong to the trunk group.
If "2 (Fixed)" is changed to "3 (Flexible)" and vice versa, the Night Answer Points are not canceled.
- 11 Dialing Plan Refer to Section 9-E-1.01 "Trunk Group (1/2)."

For the relation between trunk group/CO line setting and PITS DN button setting, refer to Section 9-E-1.01 "Trunk Group (1/2)."

15.00 Trunk Group 2 (TG2)

Description

This is the second block to assign various data for trunk groups.
(Password level: Two or higher)

Input Format

Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
01 to 16	Trunk group number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01 to 08	Destination (DIL 1: N Only)	I X (X : 1 to 8): ICM group number P XX (XX : 01 to 32) : pickup group number DN XXXX (XXXX : three or four digits): extension number 0 : none (Assignable only when "Incoming Mode (Day)" is set to DIL 1: N)	
09	DID Digit Modification Table	1 to 4 : table number (Assignable when the Trunk Group type is DID)	
10 to 17	PBX Access Code (No Restriction)	Maximum three digit numbers (Assignable when the Trunk Group type is PBX, and CO line access is both way)	<input type="radio"/>
18 to 25	PBX Access Code (Restriction)	Maximum three digits of numbers (Assignable when the Trunk Group type is PBX, and CO line access is both way)	<input type="radio"/>
26	Max. Dial No. after EFA Signal	1 to 7 : maximum dialing digits 0 : cannot dial after external feature access	
27	CO Appearance Type	1 : single CO 2 : group CO	

: clearing function is effective for the item

Conditions

Refer to Section 10-C-14.00 "Trunk Group 1 (TG1)."

16.00 ICM/Paging Group (IPG)

Description

To assign intercom groups and paging groups to tenant 1 or 2.

(Password level: Two or higher)

Input Format

I	P	G	Mode	Index Number	(Item Number)	CR ←
---	---	---	------	--------------	---	-------------	---	------

Index Number

Index Number	Explanation
1	For ICM groups
2	For PAG groups

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	ICM or PAG Group 1	1 : tenant 1 2 : tenant 2
2	ICM or PAG Group 2	
3	ICM or PAG Group 3	
4	ICM or PAG Group 4	
5	ICM or PAG Group 5	
6	ICM or PAG Group 6	
7	ICM or PAG Group 7	
8	ICM or PAG Group 8	

Conditions

This screen does not appear if "Operation (OPR)", Tenant Service is set to "N (No)."

This must be programmed before programming "Call Pickup Group (CPG)".

17.00 Call Pickup Group (CPG)

Description

To assign the ICM (intercom) groups, UCD (Uniform Call Distribution) groups, and paging groups which call pickup groups belong to.
(Password level : Two or higher)

Input Format

 Mode Index Number ()

Index Number

Index Number	Explanation
01 to 32	Pickup group number

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	ICM Group Number	1 to 8 : ICM Group 1 to 8
2	UCD Group Number	01 to 32 : UCD Group 1 to 32 00 : none
3	Paging Group Number	1 to 8 : Paging Group 1 to 8 00 : none

Conditions

If "Operation (OPR)" Tenant Service is set to "Y (Yes)", "ICM/Paging Group (IPG)" setting must be done before setting this screen.

Refer to Section 9-E-3.00 "Call Pickup Group" for the other conditions.

18.00 CO Line (COL)

Description

To assign parameters on a CO line basis. DATA ERROR appears on the entry of parameters if no LCOT (Loop Start Central Office Trunk) card, GCOT (Ground Start Central Office Trunk) card, or DID (Direct Inward Dialing) card is assigned in the Slot Assignment (SLA) programming.
(Password level : Three or higher)

Input Format

Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
Four digit numbers (1011 to 3158)	Physical number of the CO line

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Trunk Group	01 to 16 : trunk group number
2	Trunk Name	Maximum ten digits consisting of letters, numbers and marks (Enclose the name with double quotes ".)
3	Direct Termination	DN XXXX (XXXX : three or four digits) : extension number 0 : none (Not assignable when the Trunk Group type is DID or Incoming Mode (Day) is set to any mode except DIL 1:1)
4	Night Answer Point (Type : No.)	DN XXXX (XXXX : three or four digits) : extension number U1 : universal night answer 1 U2 : universal night answer 2 0 : none RMT: Remote Administration (Not assignable in case of DID, PVL outgoing only)
5	Dial Mode	1 : DTMF mode 2 : Pulse mode (Not assignable when the Trunk Group type is DID)
6	DTMF Duration Time	1 : 80 milliseconds 2 : 160 milliseconds (Not assignable when the Trunk Group type is DID, or the dial type is pulse)

Continued

Item Number	Assigning Items	Input Value
7	Pulse Speed	1 : low (10 pps) 2 : high (20 pps) (Not assignable when the Trunk Group type is DID, or the dial type is DTMF)
8	% Break	1 : 60% break 2 : 67% break (Not assignable when the Trunk Group type is DID or the dial type is DTMF)
9	CPC Detection	00 : none 01 : 6.5 msec. detection 02 to 75 : 8N msec. detection (Not assignable when the Trunk Group type is DID)
10	DID Start Arrangement	1 : immediate start 2 : delayed wink start (Assignable when the Trunk Group type is DID)

Conditions

Before setting this screen, "Trunk Group (TG1) (TG2)" must be programmed.

This cannot be programmed if LCOT or GCOT or DID card is not programmed in "Slot Assignment (SLA)." If any one of the cards is programmed, this screen can be programmed.

If the "Trunk Group (TG1)" containing the CO line has "Type" assigned to "6 (DID)," the following items cannot be entered : "****" is displayed :

- Direct Termination
- Night Answer Point (Type : No)
- Dial Mode
- DTMF Duration Time
- Pulse Speed
- % Break
- CPC Detection

If the "Trunk Group (TG1)" containing the CO line has "Type" assigned to anything other than "6 (DID)," the following item cannot be entered : "****" is displayed :

- DID Start Arrangement

Item
Number

3	Direct Termination	This is assignable only when the "Trunk Group (TG1)" containing the CO line has "Incoming Mode (Day)" assigned to "2 (DIL 1:1)." Otherwise, "****" is displayed and setting is impossible.
4	Night Answer Point (Type : No.)	This is assignable only when the "Trunk Group (TG1)" containing the CO line has "Incoming Mode (Night)" assigned to "2 (Fixed)" or "3 (Flexible)." Otherwise, "****" is displayed and setting is impossible.
5	Dial Type	If "Pulse mode" is selected, refer to Section 10-C-51.00 "World Select 1 (WS1)" about the following items: <ul style="list-style-type: none"> • Interdigit Pause • Pulse Type • % Break Detect

19.00 Pager (PAG)

Description

To assign items concerning external pagers.
(Password level : Three or higher)

Input Format

P	A	G
---	---	---

 Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
1 or 2	External pager number

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Tenant	1 : tenant 1 2 : tenant 2
2	Tone	Y : sending confirmation tone when accessing the external pager N : no confirmation tone
3	BGM	Y : BGM heard over external paging N : BGM not heard

Conditions

This cannot be programmed if "Operation (OPR)", External Paging 1/2 are set to "N (No)."

Item number 1 "Tenant" cannot be assigned if "Operation (OPR)", Tenant Service is set to "N (No)."

20.00 Music Source (MUS)

Description

To assign items concerning the music source.
(Password level : Three or higher)

Input Format

 Mode Index Number () CR←

Index Number

Index Number	Explanation
1 or 2	Music source number

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Tenant	1 : tenant 1 2 : tenant 2
2	For Use	1 : used when a call is put on hold 2 : used for BGM 3 : used for hold + BGM

Conditions

This cannot be programmed if "Operation (OPR)", External Music Source 1/2 are set to "N (No)."

Item number 1 "Tenant" cannot be assigned if "Operation (OPR)", Tenant Service is set to "N (No)."

21.00 Automatic Gain Control (AGC)

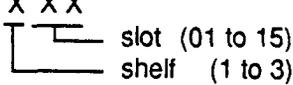
Description

To assign the tenant number for the AGC (Automatic Gain Control) card, and to determine if the tone detection is executed.
(Password level : Three or higher)

Input Format

A	G	C	Mode	Index Number	CR ←
---	---	---	------	--------------	------

Index Number

Index Number	Explanation
X X X 	Physical card location (101 to 315)
000	Tone detect

Input Value for Item Number

Assigning Items	Input Value
Slot No. XXX	1 : tenant 1 2 : tenant 2
Tone Detect	Y : with tone detection N : without tone detection

Conditions

This cannot be programmed if "Slot Assignment (SLA)" has no AGC card programmed.

Slot No. XXX Physical number
 "***" will be displayed here if "Operation (OPR)",
 Tenant Service is set "N (No)."

To assign Tone Detect only, enter "000" as the index number.

22.00 Extension (EXT)

Description

To assign extension parameters.
(Password level : Three or higher)

Input Format

 Mode Index Number () CR

Index Number

Index Number	Explanation
DN XXXX or Four digit number (1011 to 3158)	Extension directory number (XXXX : three or four digits) Physical location of extension

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Telephone Type	1 : SLT (Single Line Telephone) 2 : PITS (Proprietary Integrated Telephone System) 3 : OPX (Off Premise Extension)	
02	PITS Model	01 : KX-T123250 02 : KX-T123220 03 : KX-T123230 04 : KX-T123235 (7130) 05 : KX-T61650 06 : KX-T61620 07 : KX-T61630 08 : KX-T30850 09 : KX-T30820 10 : KX-T30830 11 : KX-T7050 12 : KX-T7020 13 : KX-T7030 (for "PITS" only)	
03	OHCA Circuit	Y : with OHCA circuit N : without OHCA circuit (for "PITS" only)	
04	Primary Directory Number	Three or four digit extension directory number	
05	Intercom Number	One or two digit number (Assignable only for "PITS")	<input type="radio"/>

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
06	Station Name	Maximum ten digits consisting of letters and/or numbers (Surround each entry with double quotes ".)	
07	ICM Group	1 to 8 : ICM group number	
08	Pickup Group	00 : none 01 to 32 : pickup group number	
09	Next Hunt Station	0 : none DN XXXX (XXXX: three or four digits) : extension directory number	
10	Class of Service	01 to 32 : COS number	
11	Data Line Security	Y : Data Line Security is available N : Data Line Security is disabled	
12	Automatic Callback-Trunk	Y : Automatic Call Back-Trunk is available N : Automatic Call Back-Trunk is unavailable	
13	Parallel Connect	Y : Parallel Connection is available N : Parallel Connection is not available	

○ : clearing function is effective for the item

Conditions

This screen does not appear if "Slot Assignment (SLA)" does not have any of PLC, SLC, HLC, OPX cards programmed or if "DN Assignment (DNA)" does not have the extension number programmed.

Index Number

01 Telephone Type Assignable telephone types differ depending on the card types connected to the extensions, as follows:

Card Type	Telephone Type Assignable
PLC	PITS
SLC	SLT
HLC	PITS or SLT
OPX	OPX

If "SLC" or "OPX" is selected, "***" will appear in the following items and cannot be assigned:

- Model
- OHCA Circuit
- Intercom Number
- Parallel Connect

Note:

Parallel connection assignment is available only when PITS telephone interfaced with HLC card is selected.

If PITS telephone interfaced with PLC card is selected, "***" will appear in Parallel Connect field and parallel connection assignment is not available.

02 If PITS telephone KX-T123230D is connected, select 04: KX-T123235 (7130), for PITS Model.

For OHCA Circuit, Intercom Number, Next Hunt Station, refer to Section 9-G-1.01 "Station (1/3)."

23.00 DSS Console (DSS)

Description

To assign parameters for DSS consoles.
(Password level : Three or higher)

Input Format

()

Index Number

Index Number	Explanation
Four digit number	Physical number of the extension port

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	DSS Console Model	1 : KX-T123240 (7040) 2 : KX-T61640
2	Pair Extension	DN XXXX (XXXX : three or four digits) : extension directory number 0 : none

Conditions

If HLC (Hybrid Line Circuit) or PLC (Proprietary Line Circuit) is not assigned in the "Slot Assignment (SLA)" program, DATA ERROR appears on the screen.

24.00 DN Button Assignment (DNK)

Description

This is used to assign the function of the DN buttons when the telephone type is set to "2 (PITS)" in the Extension (EXT) program.
(Password level : Three or higher)

Input Format

()

Index Number

Index Number	Explanation
DN XXXX or Four digit number	Extension directory number (XXXX : three or four digits) Physical location of extension

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	DN-01 Day Ring	1 : lamp indication only (no ringing)	
02	DN-01 Night Ring	2 : ring immediately 3 : delayed 1 ring 4 : delayed 3 rings 5 : delayed 6 rings	
03	DN-02 Type	01 : DSS (DN) button 02 : DSS (ICM) button 03 : One Touch button 04 : Privacy Change button 05 : External Feature Access button 06 : Call Park System button 07 : Call Park Station button 08 : Ringing Transfer button 09 : Call Split button 11 : Tone Through Break button 12 : SNR button 13 : PDN button 14 : SDN button 15 : Private CO button 16 : OHCA button 17 : Message Waiting button 18 : UCD Log In button 19 : Local Alarm button 20 : Single CO button 21 : Group CO button	

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
04	DN-02 Number	Three or four digits : directory number for "PDN," "SDN," "DSS (DN)" One or two digits : intercom number for "DSS (ICM)" Maximum 16 digits : destination number for "One Touch" Four digit number : physical location for "Private CO" and "Single CO" 01 to 16 : trunk group number for "Group CO"	○
05	DN-02 SDN COS	1 : use the COS of the station 2 : use the COS of the PDN	
06	DN-02 Day Ring	Same as the items 01 and 02	
07	DN-02 Night Ring		
08-12	DN-03	Same as the items from 03 to 07	
13-17	DN-04		
18-22	DN-05		
23-27	DN-06		
28-32	DN-07		
33-37	DN-08		
38-42	DN-09		
43-47	DN-10		
48-52	DN-11		
53-57	DN-12		

○ : clearing function is effective
for the item

Conditions

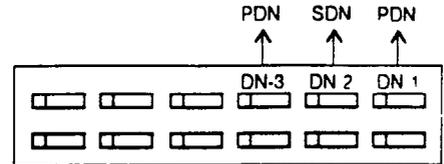
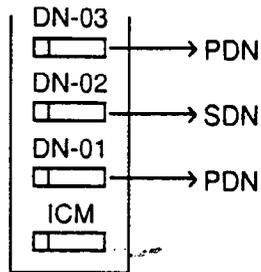
When "***"s appear, they cannot be assigned.

The "Type" and "Number" of the DN-01 (fixed to PDN) is set automatically.

The "Number" displays the number assigned to the DN in "DN Assignment (DNA)."

Up to three PDN buttons can be assigned consecutively to DN-01 button through DN-3 button.

PDN buttons must be consecutive. For example, it is not possible to program as follows:



(DN buttons on PITS 7000 series)

(DN buttons on PITS type 20, 30 and 50)

DN-XX Type

If "PRV-CO" (Private CO) is selected, a physical number of the selected CO line must be programmed in "Number."

The CO line of the physical number belongs to a "CO Line (COL)", Trunk Group.

The trunk group where the CO line belongs must have "Trunk Group 1 (TG1)", Type assigned to "4 PVL (Private Line)."

If "Single CO" is selected, a physical number of the selected CO line must be programmed in "Number."

The CO line of the physical number belongs to a "CO Line (COL)", Trunk Group. The trunk group of the CO line must have "Trunk Group 1 (TG1)", Type assigned to "1 (DDD)" or "2 (FEX)" or "3 (WATS)", or "5 (PBX)" and also "Trunk Group 2 (TG2)", CO Appearance Type assigned to "1 (Single CO)."

If "Group CO" is selected, a trunk group number must be programmed in "Number."

The programmed trunk group must have "Trunk Group 1 (TG1)", Type assigned to "1 (DDD)" or "2 (FEX)" or "3 (WATS)" or "5 (PBX)" and also "Trunk Group 2 (TG2)", CO Appearance type assigned to "2 (Group CO)."

25.00 PF Button Assignment (PFK)

Description

This is used to assign the function of the PF (programmable feature) buttons of PITS telephones and DSS consoles.
(Password level : Three or higher)

Input Format

P F K Mode Index Number (Item Number) CR←J

Index Number

Index Number	Explanation
DN XXXX or Four digit number	Extension directory number (XXXX : three or four digits) Physical location of extension

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	PF-01 Type	00 : not assigned 02 : DSS (ICM) button 03 : One Touch button 05 : External Feature Access button 06 : Call Park System button 07 : Call Park Station button 08 : Ringing Transfer button 09 : Call Split button 10 : FWD/DND button 11 : Tone Through Break button 12 : SNR (Saved Number Redial) button	
02	PF-01 Number	One or two digits : intercom number for "DSS (ICM)" Maximum 16 digits : destination number for "One Touch"	○
03,04	PF-02	Same as the items 01 and 02	
05,06	PF-03		
07,08	PF-04		
09,10	PF-05		
11,12	PF-06		

Continued

Continued

Item Number	Assigning Items	Input Value
13,14	PF-07	Same as the items 01 and 02
15,16	PF-08	
17,18	PF-09	
19,20	PF-10	
21,22	PF-11	
23,24	PF-12	
25,26	PF-13 (DSS console only)	
27,28	PF-14 (DSS console only)	
29,30	PF-15 (DSS console only)	
31,32	PF-16 (DSS console only)	

○ : clearing function is effective for the item

Conditions

If "Extension (EXT)", Telephone Type is not assigned to "2 (PITS)", DATA ERROR appears on the screen.

Only the PF3 button on PITS type 50 and KX-T7050 can be programmed to the FWD/DND button.

Only the PF1 button on PITS type 50, KX-T7020 and KX-T7030 can be programmed to the SNR button.

In case of a PITS telephone, Item Nos. 25 through 32 cannot be selected.

26.00 DSS Button Assignment (DSK)

Description

This is used to assign the function of the DSS (Direct Station Selection) buttons on a DSS console and PITS KX-T30830.
(Password level : Three or higher)

Input Format

()

Index Number

Index Number	Explanation
DN XXXX or Four digit number	Extension directory number (XXXX : three or four digits) Physical location of extension

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	DSS-01 Type	00 : not assigned 01 : DSS (DN) button 02 : DSS (ICM) button 03 : One Touch button 04 : Privacy Change button 05 : External Feature Access button 06 : Call Park System button 07 : Call Park Station button 08 : Ringing Transfer button 09 : Call Split button 11 : Tone Through Break button 17 : Message Waiting button 18 : UCD Login button 19 : Local Alarm button
02	DSS-01 Number	Three or four digits : directory number for "PDN," "SDN," "DSS (DN)" One or two digits : intercom number for "DSS (ICM)" Maximum 16 digits : destination number for "One Touch"
03,04	DSS-02	Same as the items 01 and 02
05,06	DSS-03	
07,08	DSS-04	

Continued

Continued

Item Number	Assigning Items	Input Value
09,10	DSS-05	Same as the items 01 and 02
11,12	DSS-06	
13,14	DSS-07	
15,16	DSS-08	
17,18	DSS-09 (DSS console only)	
19,20	DSS-10 (DSS console only)	
21,22	DSS-11 (DSS console only)	
23,24	DSS-12 (DSS console only)	
25,26	DSS-13 (DSS console only)	
27,28	DSS-14 (DSS console only)	
29,30	DSS-15 (DSS console only)	
:	:	
:	: (DSS console only)	
63,64	DSS-32 (DSS console only)	

Conditions

In case of PITS KX-T30830, Item Nos.17 through 64 cannot be selected.

27.00 Doorphone (DPH)

Description

To assign parameters for doorphones.
(Password level : Three or higher)

Input Format

()

Index Number

Index Number	Explanation
1 to 4	Doorphone number

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Tenant	1 : tenant number 1 2 : tenant number 2 (not assignable when "Tenant Service" is assigned to "N")
2	Open Duration	01 to 10 : door opening duration (seconds) 00 : door opening disabled
3	Doorphone Assignment	Doorphone call destination 0 : none
4	Doorphone Assignment	P XX : pickup group number (XX : 01 to 32)
5	Doorphone Assignment	I X : ICM group number (X :1 to 8)
6	Doorphone Assignment	A : Attendant Consoles DN XXXX : extension directory number (XXXX: three or four digits)

Conditions

If DPH (Doorphone) card is not assigned in the "Slot Assignment (SLA)" program, DATA ERROR appears on the screen.

28.00 Attendant Console (ATT)

Description

To assign parameters for Attendant Consoles.
(Password level : Two or higher)

Input Format

 Mode ()

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	ATT 1 Tenant Number	Not assignable (fixed to tenant 1)
02	ATT 1 FDN	DN XXXX (XXXX : three or four digit number) : FDN 0 : none
03	ATT 1 TRS LV	01 to 16: toll restriction level
04	ATT 1 PAG	1 : Paging All Extensions 2 : External Pager 1 3 : External Pager 2 4 : External Pager 1 & 2 5 : Paging All Extensions and External Pagers
05	ATT 2 Tenant Number	Not assignable (fixed to tenant 2)
06	ATT 2 FDN	DN XXXX (XXXX : three or four digit number) : FDN 0 : none
07	ATT 2 TRS LV	01 to 16: toll restriction level
08	ATT 2 PAG	Same as the item 04
09	Tenant 1 Overflow	DN XXXX (XXXX : three or four digit number) : extension directory number 0 : none
10	Tenant 1 Night	DN XXXX (XXXX : three or four digit number) : extension directory number 0 : none
11	Tenant 2 Overflow	DN XXXX (XXXX : three or four digit number) : extension directory number 0 : none (Not assignable when "Tenant Service" is assigned to "N")

Continued

Continued

Item Number	Assigning Items	Input Value
12	Tenant 2 Night	DN XXXX (XXXX : three or four digit number) : extension directory number 0 : none (Not assignable when "Tenant Service" is assigned to "N")
13	Busy-Out TG 01	DN XXXX (XXXX : three or four digit number) : extension directory number 0 : none
14	Busy-Out TG 02	
15	Busy-Out TG 03	
16	Busy-Out TG 04	
17	Busy-Out TG 05	
18	Busy-Out TG 06	
19	Busy-Out TG 07	
20	Busy-Out TG 08	
21	Busy-Out TG 09	
22	Busy-Out TG 10	
23	Busy-Out TG 11	
24	Busy-Out TG 12	
25	Busy-Out TG 13	
26	Busy-Out TG 14	
27	Busy-Out TG 15	
28	Busy-Out TG 16	

Conditions

If ATLC (Attendant Console Line Circuit) card is not assigned in the "Slot Assignment (SLA)" program, DATA ERROR appears on the screen.

29.00 Attendant Queue Priority (AQP)

Description

To assign incoming call priority when several calls arrive at the Attendant Console at the same time.
(Password level : Two or higher)

Input Format

Mode ()

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	Internal Calling Station	01 to 24 : call priority
02	Internal Calling Doorphone	
03	Console Calling	
04	Transfer Recall	
05	Serial Calling Recall	
06	Call Park Recall	
07	Intercept Routing	
08	Held Call Reminder	
09	External Calling TG 01	
10	External Calling TG 02	
11	External Calling TG 03	
12	External Calling TG 04	
13	External Calling TG 05	
14	External Calling TG 06	
15	External Calling TG 07	
16	External Calling TG 08	
17	External Calling TG 09	
18	External Calling TG 10	
19	External Calling TG 11	
20	External Calling TG 12	
21	External Calling TG 13	
22	External Calling TG 14	
23	External Calling TG 15	
24	External Calling TG 16	

Conditions

If ATLC card is not assigned in the "Slot Assignment (SLA)" program, DATA ERROR appears on the screen.

Regardless of the assignment of Held Call Reminder, Held Call Reminder does not function if "Operation (OPR)", Held Call Reminder is assigned to "N."

30.00 Equal Access (EQU)

Description

To assign parameters and trunk groups necessary for making Equal Access calls.
(Password level : Two or higher)

Input Format

 Mode Index Number ()

Index Number

Index Number	Explanation
1 to 4	Equal Access number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Service	Y : Equal Access service is available N : Equal Access service is not available (If "Service" is assigned to "N," all items below are not assignable.)	
02	Name	Up to three digits consisting of letters, numbers and marks (Enclose the name with double quotes ".)	<input type="radio"/>
03	Equal Access Carrier Code	Three digit number	
04	Toll Restriction Level	01 to 16	
05	Toll Restriction Table	1 to 8: Area/Office Code table number	
06	Long Distance (Delete)	1 to 4: number of digits to be deleted to a maximum of four 0 : no digits deleted	
07	Long Distance (Insert)	Up to four digits to be inserted	<input type="radio"/>
08	Local Toll (Delete)	1 to 4: number of digits to be deleted to a maximum of four 0 : no digits deleted	
09	Local Toll (Insert)	Up to four digits to be inserted	<input type="radio"/>

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
10	Local (Delete)	1 to 4: number of digits to be deleted to a maximum of four 0 : no digits deleted	
11	Local (Insert)	Up to four digits to be inserted	<input type="radio"/>
12	Trunk Group 01	Y : trunk group is available N : trunk group is unavailable	
13	Trunk Group 02		
14	Trunk Group 03		
15	Trunk Group 04		
16	Trunk Group 05		
17	Trunk Group 06		
18	Trunk Group 07		
19	Trunk Group 08		
20	Trunk Group 09		
21	Trunk Group 10		
22	Trunk Group 11		
23	Trunk Group 12		
24	Trunk Group 13		
25	Trunk Group 14		
26	Trunk Group 15		
27	Trunk Group 16		

: clearing function is effective for the item

Conditions

If "N (No)" is assigned to "Service", "Class of Service 2 (CS2)", EQA 1 to 4 can be programmed. However, Equal Access which has "N" assigned here does not function.

For conditons on Item Numbers 06 to 11, refer to Section 9-H-1.00 "Equal Access."

It is administable to activate or deactivate the Equal access feature on a system-wide basis.

Refer to Section 10-C-52.00 "World Select 2 (WS2)" for further information.

31.00 OCC Access (OCC)

Description

To assign parameters and trunk groups necessary for OCC (Other Common Carrier) Access calls.
(Password level : Three or higher)

Input Format

Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
1 to 4	OCC Access number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Service	Y : OCC Access service is available N : OCC Access service is not available (If "Service" is assigned to "N," all items below are not assignable.)	
02	Name	Up to three digits consisting of letters, numbers and marks (Enclose the name with double quotes ".")	<input type="radio"/>
03	Local Access Code	Maximum eight digit number	
04	Toll Restriction Level	01 to 16	
05	Toll Restriction Table	1 to 8 : Area/Office Code table number	
06	Long Distance (Delete)	00 to 15 : number of digits to be deleted to a maximum of four 00 : no digits deleted	
07	Long Distance (Insert)	Digits to be inserted up to a maximum of 20 digits consisting of numbers, *, # and marks below: H: home position [: start of secret number] : end of secret number P: pause D: switch to DTMF - : hyphen (Enter [] in a pair.)	<input type="radio"/>

Continued

Continued

Item Number	Assigning Items	Input Value	CLR
08	Local Toll (Delete)	Same as the Item 06	
09	Local Toll (Insert)	Same as the Item 07	○
10	Local (Delete)	Same as the Item 06	
11	Local (Insert)	Same as the Item 07	○
12	Trunk Group 01	Y : trunk group is available N : trunk group is not available	
13	Trunk Group 02		
14	Trunk Group 03		
15	Trunk Group 04		
16	Trunk Group 05		
17	Trunk Group 06		
18	Trunk Group 07		
19	Trunk Group 08		
20	Trunk Group 09		
21	Trunk Group 10		
22	Trunk Group 11		
23	Trunk Group 12		
24	Trunk Group 13		
25	Trunk Group 14		
26	Trunk Group 15		
27	Trunk Group 16		

○ : clearing function is effective for the item

Conditions

If "N (No)" is assigned to "Service," "Class of Service 2 (CS2)", OCC 1 to 4 can be programmed. However, OCC Access which has "N" assigned here does not function.

For conditions on Items Numbers 06 to 11, refer to Section 9-H-2.00 "OCC Access."

It is administrable to activate or deactivate the OCC access feature on a system-wide basis.

Refer to Section 10-C-52.00 "World Select 2 (WS2)" for further information.

32.00 Toll Restriction 1 (TR1)

Description

To assign local call control, toll restriction level, and office code table number for area or office codes.
 (Password level : Two or higher)

Input Format

T	R	1
---	---	---

 Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
1 to 8	Area/office code table number

Input Value for Item Number

Item Number	Assigning Items	Input Value
0001	Entry=200 Local Call Access	Y : do not execute 3/6 digit toll restriction N : execute 3/6 digit toll restriction
0002	Entry=200 Restriction Level	01 to 16 : toll restriction level 00 : none
0003	Entry=200 Office Code Table Number	01 to 64 00 : not used
0004 . . . 2398	Entry=201 Local Call Access . . . Entry=999 Office Code Table Number	Same as the items from 0001 to 0003

Conditions

None

33.00 Toll Restriction 2 (TR2)

Description

Used to assign yes or no to entry numbers in an office code table.

(Password level : Two or higher)

Input Format

T	R	2
---	---	---

 Mode Index Number (Item Number) CR←↓

Index Number

Index Number	Explanation
01 to 64	Office code table number

Input Value for Item Numer

Item Number	Assigning Items	Input Value
001	Entry=200	Y: applicable N: not applicable
002 . . . 800	Entry=201 . . . Entry=999	Same as the item 001

Conditions

None

34.00 Toll Restriction 3 (TR3)

Description

To assign 10 digits toll restriction for a long distance call and to assign 7 digits toll restriction for a local call.

(Password level : Two or higher)

Input Format

T	R	3
---	---	---

 Mode (Item Number) CR←J

Input Value for Item Number

Item Number	Assigning Items	Input Value
01 to 64	Number	Seven digit number

Conditions

None

35.00 Automatic Route Selection 1 (AR1)

Description

To assign the route plan table number for dialed area or office codes.
(Password level : Two or higher)

Input Format

A	R	1
---	---	---

 Mode Index Number (Item Number) CR←J

Index Number

Index Number	Explanation
200 to 999	Entry number

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Route Plan Table No. When Area Code	00 : not using area codes 01 to 32 : route plan table number
2	Route Plan Table No. When Office Code	00 : not using office codes 01 to 32 : route plan table number

Conditions

None

36.00 Automatic Route Selection 2 (AR2)

Description

To assign all the office codes used in each area code. (Password level : Two or higher)

Input Format

A	R	2	Mode	Index Number	(Item Number)	CR←J
---	---	---	------	--------------	---	-------------	---	------

Index Number

Index Number	Explanation
01 to 32	Office code table number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
001	Area Code	200 to 999 : area code	<input type="radio"/>
002	Route Plan Table No.	01 to 32 : route plan table number	
003	Entry=200	Y : usable as an office code N : not usable	
004 . . . 802	Entry=201 . . . Entry=999	Same as the item 003	

: clearing function is effective for the item

Conditions

None

37.00 Automatic Route Selection 3 (AR3)

Description

To make up route plan tables by assigning time zones and route list numbers to each time zone for each day of the week.

(Password level : Two or higher)

Input Format

A	R	3
---	---	---

 Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
01 to 32	Route plan table number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Start Hour 1	X X X : starting time for the time zone T T A or P : a.m./p.m. 01 to 12: hour	<input type="radio"/>
02	Route List Number MON.	01 to 64 : route list table number	<input type="radio"/>
03	Route List Number TUE.		
04	Route List Number WED.		
05	Route List Number THU.		
06	Route List Number FRI.		
07	Route List Number SAT.		
08	Route List Number SUN.		
09	Start Hour 2	Same as the item 01	
10 to 16	Route List Number (MON. to SUN.)	Same as the items from 02 to 08	
17	Start Hour 3	Same as the item 01	
18 to 24	Route List Number (MON. to SUN.)	Same as the items from 02 to 08	
25	Start Hour 4	Same as the item 01	
26 to 32	Route List Number (MON. to SUN.)	Same as the items from 02 to 08	

○ : clearing function is effective for the item

Conditions

None

38.00 Automatic Route Selection 4 (AR4)

Description

To assign trunk groups in order of economical priority (1 to 4) and assign parameters on each priority.

(Password level : Two or higher)

Input Format

()

Index Number

Index Number	Explanation
01 to 64	Route lists table number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Priority 1 Trunk Group No.	01 to 16	<input type="radio"/>
02	Priority 1 Modified List No.	01 to 32 : modified digit table number	<input type="radio"/>
03	Priority 2 Warning Tone	Y : send warning tone N : do not send warning tone	
04	Priority 2 ARS Restriction Level	01 to 16	<input type="radio"/>
05	Priority 2 Trunk Group No.	Same as the item 01	<input type="radio"/>
06	Priority 2 Modified List No.	Same as the item 02	<input type="radio"/>
07	Priority 3 Warning Tone	Same as the item 03	<input type="radio"/>
08	Priority 3 ARS Restriction Level	Same as the item 04	<input type="radio"/>
09	Priority 3 Trunk Group No.	Same as the item 01	<input type="radio"/>
10	Priority 3 Modified List No.	Same as the item 02	<input type="radio"/>
11	Priority 4 Warning Tone	Same as the item 03	<input type="radio"/>
12	Priority 4 ARS Restriction Level	Same as the item 04	<input type="radio"/>
13	Priority 4 Trunk Group No.	Same as the item 01	<input type="radio"/>
14	Priority 4 Modified List No.	Same as the item 02	<input type="radio"/>

: clearing function is effective for the item

Conditions

None

39.00 Automatic Route Selection 5 (AR5)

Description

To make up modified digit tables.
(Password level : Two or higher)

Input Format

A R 5 Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
01 to 32	Modified digit table number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
1	Delete Digits	1 to 9 : number of digits to be deleted to a maximum of nine 0 : no deletion	
2	Insert Digit	Digits to be inserted up to a maximum of 26 digits consisting of numbers, *, # and marks listed below : H : home position P : pause D : switch to DTMF [: start of secret number] : end of secret number - : hyphen (Enter [] in a pair.)	○

○ : clearing function is effective for the item

Conditions

None

40.00 DISA (DIS)

Description

To assign parameters for the DISA (Direct Inward System Access) feature.
 (Password level : Two or higher)

Input Format

DIS Mode Index Number (Item Number) CR←J

Index Number

Index Number	Explanation
000	Block 1
Physical Number (101 to 112, 201 to 215, 301 to 315)	Physical slot number for Block 2

Input Value for Item Number

Item Number	Assigning Items	Input Value
Block 1	1 Delayed Answer	1 : 1 ring 2 : 2 rings 3 : 3 rings 4 : immediately
	2 Prolong Time	1 to 7 : minute(s)
	3 Control Code "*"	Y : control code entry is possible N : control code entry is not allowed
	4 Tone Detect	Y : executing tone detection N : no tone detection
Block 2	1 For Use	1 : DISA 2 : OGM1 3 : OGM2 4 : W-UP
	2 Tenant	1 : Tenant 1 2 : Tenant 2

Conditions

If a DISA card is not assigned in the "Slot Assignment (SLA)" program, DATA ERROR appears on the screen.

Tenant Not assignable, if "Operation (OPR)" Index 1, Tenant Service is set to "N (No)."

41.00 DISA Code (DIC)

Description

To assign parameters on each DISA code.
(Password level : Two or higher)

Input Format

D	I	C	Mode	Index Number	(Item Number)	CR←
---	---	---	------	--------------	---	-------------	---	-----

Index Number

Index Number	Explanation
1 to 8	DISA code number

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	ARS Override	Y : specifying a trunk group is available N : specifying a trunk group is unavailable
2	Toll Restriction Level	01 to 16
3	Account Code	Y : forced N : optional
4	Prolong	Y : prolonging is available N : prolonging is not available
5	Tenant	1 : tenant 1 2 : tenant 2 (not assignable if "Tenant Service" is preset to "N")

Conditions

If a DISA card is not assigned in the "Slot Assignment (SLA)" program, DATA ERROR appears on the screen.

Item Number

- | | | |
|---|--------------|--|
| 1 | ARS Override | Not assignable if "Operation (OPR)" Index 1, Automatic Route Selection is set to "N (No)." |
|---|--------------|--|

42.00 DISA Password (DIP)

Description

To assign the users' passwords for DISA required for making outgoing CO call via DISA feature.
(Password level : Two or higher)

Input Format

()

☛ Show Mode is denied.

Input Value for Item Number

Item Number	Assigning Items	Input Value	
1 to 8	DISA Password	Four digit number (Not displayed on the screen)	<input type="radio"/>

: clearing function is effective for the item

Conditions

If the DISA card is not assigned in the "Slot Assignment (SLA)" program, DATA ERROR appears on the screen.

43.00 DID (DID)

Description

To define the characteristics of the DID (Direct Inward Dialing) modification table.
(Password level : Two or higher)

Input Format

D	I	D
---	---	---

Mode

Index Number

 (

Item Number

)

CR←J

Index Number

Index Number	Explanation
1 to 4	DID modification table number

Input Value for Item Number

Item Number	Assigning Items	Input Value	
1	Receive Digit	1 to 7: number of received digit(s)	
2	Delete Digit	1 to 6: number of digits to be deleted to a maximum of six 0 : no digits to be deleted	
3	Insert Dial No.	The digits to be inserted to a maximum of three	○

○ : clearing function is effective for the item

Conditions

This is impossible to program if "Slot Assignment (SLA)" has no DID card programmed.

44.00 UCD 1 (UC1)

Description

To assign UCD (Uniform Call Distribution) group parameters.

(Password level : Two or higher)

Input Format

U	C	1
---	---	---

 Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
01 to 32	UCD group number

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Floating DN	DN XXXX (XXXX : three or four digit number) : Floating DN 0 : no Floating DN
2	Overflow DN	DN XXXX (XXXX : three or four digit number) : Overflow DN 0 : no Overflow DN
3	Overflow Time	01 to 10 : minute(s) ; Overflow timer 00 : no Overflow timer (Not assignable for UCD groups 01 to 04)

Conditions

None

45.00 UCD 2 (UC2)

Description

To specify the treatment of calls that are placed on the UCD groups and queued into the busy queue.
(Password level : Two or higher)

Input Format

U	C	2
---	---	---

 Mode Index Number (Item Number) CR↵

Index Number

Index Number	Explanation
1 to 4	UCD group number

Input Value for Item Number

Item Number	Assigning Items	Input Value
01	Time Table # 01	00 : stopper 01 : timer (15 secs) 02 : timer (30 secs) 03 : timer (45 secs) 04 : timer (60 secs) 05 : sending OGM 1 (if busy, waiting until idle status) 06 : sending OGM 2 (if busy, waiting until idle status) 07 : sending OGM 1 (if busy, skipping) 08 : sending OGM 2 (if busy , skipping) 09 : send the hold tone 10 : transfer to the overflow destination 11 : disconnect the line
02	Time Table # 02	
03	Time Table # 03	
04	Time Table # 04	
05	Time Table # 05	
06	Time Table # 06	
07	Time Table # 07	
08	Time Table # 08	
09	Time Table # 09	
10	Time Table # 10	
11	Time Table # 11	
12	Time Table # 12	
13	Time Table # 13	
14	Time Table # 14	
15	Time Table # 15	
16	Time Table # 16	

Conditions

None

46.00 Information (INF)

Description

To assign the customer's name, address, telephone number etc..
(Password level : Two or higher)

Input Format

I	N	F
---	---	---

 Mode (Item Number) CR←J

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
01	Customer Name	Up to 32 letters, numbers or marks	<input type="radio"/>
02	Location	Up to 64 letters, numbers or marks	<input type="radio"/>
03	Phone No.	Up to 16 letters, numbers or marks	<input type="radio"/>
04	Modem No.	Up to 16 letters, numbers or marks	<input type="radio"/>
05	Customer Contact	Up to 32 letters, numbers or marks	<input type="radio"/>
06	Data of Installation	Up to 16 letters, numbers or marks	<input type="radio"/>
07	Unit ID	Up to 8 letters, numbers or marks	<input type="radio"/>
08	Installers Name	Up to 32 letters, numbers or marks	<input type="radio"/>
09	Programmers Name	Up to 32 letters, numbers or marks	<input type="radio"/>
10	Comments	Up to 70 letters, numbers or marks	<input type="radio"/>

☛ Be sure to enclose all entries with quotation marks.

Conditions

None

47.00 Power Failure Transfer (PFT)

Description

To assign the relationship between CO lines (LCOT, GCOT) and extensions (HLC, SLC) during a power failure.
(Password level : Two or higher)

Input Format

P	F	T
---	---	---

 Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
01 to 18	Power Failure Transfer number

Input Value for Item Number

Item Number	Assigning Items	Input Value	CLR
1	Trunk Slot No.	Physical slot number (three digit number) : 101 to 315	<input type="radio"/>
2	Extension Slot No.	Physical slot number (three digit number) : 101 to 315	<input type="radio"/>

: clearing function is effective for the item

Conditions

None

48.00 Change Password (CHG)

Description

To assign passwords for each level.
(Password level : One)

Input Format

C	H	G
---	---	---

 Mode Index Number (Item Number) CR←

Index Number

Index Number	Explanation
1	On-Site
2	Remote

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Protection Level 1 Password	Four digits consisting of letters or numbers
2	Protection Level 2 Password	Four digits consisting of letters or numbers
3	Protection Level 3 Password	Four digits consisting of letters or numbers
4	Protection Level 4 Password	Four digits consisting of letters or numbers

☛ Enclose all entries in quotation marks.

Conditions

None

49.00 CPC Signal Detect Timing- Outgoing CO Calls (CPC)

Description

CPC command is used to make CPC (Calling Party Control) signal detection effect on outgoing CO calls as well as on incoming CO calls.

Refer to Section 3-F-7.00 "Calling Party Control (CPC) Signal Detection" for further information.

(Password level: Three or higher)

Input Format

C	P	C	Mode	Index Number	CR ←
---	---	---	------	--------------	------

Index Number

Index Number	Explanation
1011 to 3158	Physical Number of the Trunk Port

Input Value for Item Number

Item Number	Assigning Items	Input Value
None	CPC signal detect timing (for outgoing CO calls)	00 : CPC signal is not detected 01 : 6.5 ms 02 : 16 ms (8 N ms N=2 to 75) : : 75 : 600 ms (Default = 00)

Conditions

Some switching system of central office may send CPC-like signal in dialing sequence and the attempt of making a call may be terminated.

If your switching system does not send CPC-like signal in dialing sequence, we recommend to make CPC signal detection work on outgoing CO calls.

CPC signal detection can be assigned to incoming CO calls only or both on incoming and outgoing CO calls. If CPC signal detection is assigned to outgoing CO calls only, it does not function.

50.00 Automatic Busy-out Count (ABC)

Description

It is administrable to busy out the invalid CO line automatically to prevent extension users from accessing it by monitoring the loop current sent through CO line.

(Password level: Three or higher)

One of the following three options is assignable on a CO line basis.

(1) N=0

On CO calls, the system monitors a loop current sent through the CO line, and if a loop current is not detected, busy tone is sent to the caller.

(2) N=1 to 240

On CO calls, the system monitors a loop current sent through the CO line, and if a loop current is not detected pre-assigned times (1 to 240) consecutively, busy tone is sent to the caller.

Then the system busies out the corresponding CO line automatically.

(3) N=241

On CO calls, the system does not monitor the loop current sent through the CO line, therefore, CO line is always seized by extension users whether loop current is running or not.

Refer to Section 52.00 "WS 2" L-COT/G-COT Busy Out Looprelay.

Input Format

A	B	C	Mode	Index Number	CR ←
---	---	---	------	--------------	------

Index Number

Index Number	Explanation
1011 to 3158	Physical Number of the Trunk Port

Input Value for Item Number

Item Number	Assigning Items	Input Value
None	Automatic Busy-out Count	xxx (0 to 241) (Loop Current Detection) (Automatic Busy-out) 0: Yes No 1 to 240 : Yes Yes if loop current is not detected by the pre- assigned times (1 to 240) 241 : No No (Default = 241)

51.00 World Select 1 (WS1)

Description

"WS1" command provides the following six assignments.
(Password level: Two or higher)

- (1) **Interdigit Pause (For Dial Pulse Trunk)**
Interdigit Pause is used to distinguish between pulse signals.
To meet the requirements of your central office, select the appropriate value that represents the delay between dial pulses.
This setting is only required when using dial pulse trunks.
- (2) **Pulse Type (For Dial Pulse Trunk)**
The system supports the following three types of dial pulse signaling.
Select the appropriate option to your area.
Normal Type, New Zealand Type, and Sweden Pulse.
This setting is only required when using dial pulse trunks.
- (3) **Automatic Redial Retry Count**
Automatic Redialing will be repeated 15 times automatically by default and can be administered within 1 to 32 times.
- (4) **Automatic Redial Retry Interval**
Automatic Redialing will be repeated at a 40-second interval automatically by default and can be administered within 10 to 320 seconds.
Refer to Section 4-C-4.04 "Automatic Redial" for further information.
- (5) **% Break Detect (SLT)**
Dialed digits from dial pulse type Single Line Telephone (SLT) is transmitted to the system by making and breaking a loop current (dc path), thereby interrupting loop current.
Duration time required to detect the number of breaks depends on the SLT connected and can be administered to "16 to 96 ms" or "16 to 136 ms" by this command.
- (6) **Flash Detect (SLT only)**
It is assignable that the Flash signal transmitted from SLT is detected or not by the system.
If "0=No" is selected, the system does not detect the Flash signal transmitted from SLT.

0 : No (Flash signal transmitted from SLT is not detected by the system)
1 : Yes (Flash signal transmitted from SLT is detected by the system)

Input Format

W	S	1	Mode	(Item Number)	CR	↵
---	---	---	------	---	-------------	---	----	---

Index Number

None

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Interdigit Pause	x (1 to 3) 1 : 630 ms 2 : 830 ms 3 : 1030 ms (Default = 2)
2	Pulse Type	x (1 to 3) 1 : Normal 2 : New Zealand 3 : Sweden (Default = 1)
3	Automatic Redial Retry Count	xx (01 to 32) 01 : 1 time . . 32 : 32 times (Default = 15)
4	Automatic Redial Retry Interval	xx (01 to 32) (10 to 320 sec) 01 : 10 seconds . . 32 : 320 seconds (Default = 04)
5	% Break Detect	x (1 to 2) 1 : 16 to 96-msec 2 : 16 to 136 msec (Default = 1)
6	Flash Detect	x (0 to 1) 0 : No 1 : Yes (Default = 1)

52.00 World Select 2 (WS2)

Description

"WS2" command provides the following six assignments.

(Password level: Two or higher)

(1) First Dial Timer

On outgoing CO calls, the system waits at least 0.5 seconds after seizing the CO line, before sending the dialing digits required by the central office. This allows the central office enough time to accept the dialing digits correctly.

Default setting is 1.0 second and can be ranged from 0.5 to 8.0 seconds.

(2) EQU Access

Used to activate or deactivate the EQU Access feature on a system-wide basis. If "N" is selected by this command, programming screen of "Special Carrier Access" Equal Access is not accessible.

(3) OCC Access

Used to activate or deactivate the OCC Access feature on a system-wide basis. If "N" is selected by this command, programming screen of "Special Carrier Access" OCC Access is not accessible.

(4) Outgoing CO Back Tone

On outgoing CO calls, dialed number is toned out, which informs the extension users that dialed number has been dialed.

CO Dialing Tone is usually toned out by default setting, select "N" to turn off the CO dialing tone.

(5) L-COT Busy Out Looprelay

When CO line is busied out either manually by the operator or automatically by the system, the state of Loop Relay is controlled by this setting.

(6) G-COT Busy Out Looprelay

When CO line is busied out either manually by the Operator 1, or automatically by the system, the state of Loop Relay and Ring-FG are controlled by this setting.

Input Format

W	S	2	Mode	(Item Number)	CR ↵
---	---	---	------	---	-------------	---	------

Index Number

None

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	First Dial Timer	xx (01 to 16) (0.5 to 8.0 sec) 01 : 0.5 sec . . 16 : 8.0 sec (Default = 02 : 1.0 sec)
2	EQU Access	(Y or N) Y : EQU Access is allowed N : EQU Access is not allowed (Default = Y)
3	OCC Access	(Y or N) Y : OCC Access is allowed N : OCC Access is not allowed (Default = Y)
4	Outgoing CO Back Tone	(Y or N) Y : Dialed digits is toned out N : Dialed digits is not toned out (Default = Y)
5	L-COT Busy Out Looprelay	(Y or N) (ON or OFF) Y : Loop Relay ON N : Loop Relay OFF (Default = N)
6	G-COT Busy Out Looprelay	x (1 to 3) (ON or OFF) 1 : Loop Relay ON + Ring-FG Open 2 : Loop Relay OFF + Ring-FG Close 3 : Loop Relay OFF + Ring-FG Open (Default = 3)

53.00 World Select 3 (WS3)

Description

"WS3" command provides the following seven assignments.
(Password level: Two or higher)

(1) DIL 1: N CO Key Only (PITS only)

It is programmable that an incoming CO call routed via "DIL 1: N" feature arrives at "CO button only" or "CO button or PDN button" as follows.

(Parameters)

Y : An incoming CO call routed via DIL 1: N feature only arrives at a PITS telephone which has associated CO button (SCO, GCO).
If no CO button is assigned on a PITS, an incoming CO call will not arrive at that extension.

N : An incoming CO call routed via DIL 1: N feature arrives at CO button (SCO, GCO) or PDN button.
If no CO button is available on a PITS, an incoming CO call will arrive at PDN button available. (default)

(2) EXT Off-hook BLF (PITS only)

The status indicator on DSS (DN) button reflects the idle/busy status of the associated extension user under one of the following settings.

(Parameters)

Y : The status indicator on DSS (DN) button is lighted steadily either when the associated extension user goes off-hook, or when all PDN buttons are busy. (default)

N : The status indicator on DSS (DN) button is lighted steadily only when all PDN buttons on the associated extension are busy.

(3) DTMF-Tone Integration

On extensions with the Voice Mail Port parameter enabled, the KX-T336 system can send codes (DTMF tones) to indicate the state of the call (busy, answered, ringing, disconnect, etc.) in addition to the normal call progress tones. These codes enable the Voice Processing system to immediately recognize the current state of the call and improve its call handling performance.

(Parameters)

Y : The KX-T336 system sends codes (DTMF tones) to the VPS.

N : The KX-T336 system does not send codes (DTMF tones) to the VPS.
(default)

(4) SLT On-hook Operation Mode

In single line telephone procedures, active call is put on consultation hold when the switchhook is pressed down for approximately 1/2 second and released.

In this case, consultation hold recall tone will ring immediately if you replace the handset on the switchhook without dialing any digits.

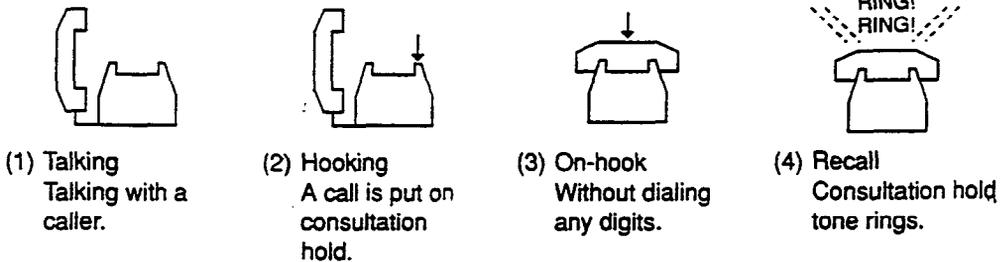
Then you may hear recorder tone when you lift the handset to reply this ringing

This may happen sometimes if the handset is replaced on the switchhook after hopping on it.

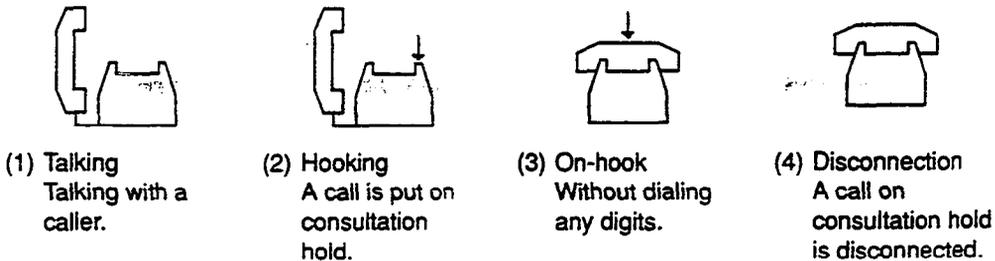
To prevent such unexpected consultation hold tone from ringing, select "2" for this setting.

When setting "2" is selected, a call put consultation hold will be disconnected if you replace the handset on the switchhook without dialing any digits.

When "1" is selected. — default



When "2" is selected



(Note)

To hang up and make another call right away, an SLT user should be sure to hold down the switchhook for more than two seconds.

(Parameters)

1 : Hang-up causes ringing of consultation hold recall tone. (default)

2 : Hang-up disconnects a call on consultation hold.

(5) Mode Selection of Calls Arriving at ATT

When two attendant consoles are connected to the system, one of the following three types of Incoming Mode can be selected.

Options 2 and 3 work only for the incoming outside call routed via a CO line which belongs to the Trunk Group whose Incoming Mode (Day) is assigned as "ATT."

(Parameters)

1. Load Sharing

Incoming outside calls are distributed evenly to two attendant consoles so that they can share the same load. (default)

2. Simultaneous Ringing

An incoming outside call rings at two attendant consoles simultaneously.

3. Interconsole IRNA

If an incoming outside call ringing at one attendant console is not answered within a specified time period (Attendant Overflow Time), it will be automatically transferred to another attendant console automatically.

(6) Centrex ARS Mode

In ARS mode, not only a 7-digit or 10-digit number but a number equal to or less than 6-digit (such as CENTREX feature access code) that follow the ARS access code (default: 9) can be routed via an outside line.

A number equal to or less than 6-digit is routed via Local Trunk Dial Access procedure after passing toll restriction process.

A 7-digit or 10-digit number is routed via ARS procedure after passing toll restriction process.

(Parameters)

Y : A number equal to or less than 6-digit can be routed via an outside line in ARS mode.

N : A number equal to or less than 6-digit can not be routed via an outside line in ARS mode. (default)

(7) Waiting for Second Dial Tone Mode

In some area, upon completion of facility access code entry, the extension user must ensure the reception of the second dial tone from the Central Office before continuing to dial the telephone number.

(Parameters)

Y : The system waits for the second CO dial tone.

N : The system does not wait for the second CO dial tone. (default)

Input Format

W	S	3	Mode	(Item Number)	CR ←
---	---	---	------	---	-------------	---	------

Index Number

None

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	DIL 1: N CO Key Only	(Y or N) Y: Arrives at CO button only N: Arrives at CO button or PDN button (Default = N)
2	EXT Off-hook BLF	(Y or N) Y: DSS indicator lights when all PDN buttons of the associated extension are busy or Off-Hook N: DSS indicator lights only when all PDN buttons of the associated extension are busy (Default = Y)
3	DTMF-Tone Integration	(Y or N) Y: The KX-T336 system sends codes (DTMF tones) to the VPS. N: The KX-T336 system does not send codes (DTMF tones) to the VPS. (Default = N)
4	SLT On-hook Operation mode	X (1 or 2) 1: Hang-up causes ringing of consultation hold recall tone (default). 2: Hang-up disconnects a call on consultation hold. (Default = 1)
5	Mode Selection of Calls Arriving at ATT	X (1 to 3) 1: Load sharing. 2: Simultaneous Ringing. 3: Interconsole IRNA (Default = 1)
6	Centrex ARS Mode	(Y or N) Y: A number equal to or less than 6-digit can be routed via an outside line in ARS mode. N: A number equal to or less than 6-digit can not be routed via an outside line in ARS mode. (Default = N)
7	Waiting for Second Dial Tone	(Y or N) Y: The system waits for the second CO dial tone. N: The system does not wait for the second CO dial tone. (Default = N)

54.00 Voice Mail Directory Number (VMD)

Description

Used to assign DN of a Voice Mail port (the extension port to which the Voice Mail system is connected.)

This means the KX-T336 system will send the mailbox number of the extension (on which a call forwarding feature is assigned) with DTMF tones to a Voice Mail port, when a call forwarded to a Voice Mail port is answered. Calls from any Voice Mail port will not be forwarded, if forwarding destination is another Voice Mail port.

Input Format

V	M	D
---	---	---

 Mode (

Item Number

) CR ←

Index Number

None

Input Value for Item Number

Item Number	Assigning Items	Input Value
01 . . 16	Voice Mail DN	DNxxxx: Directory Number 0: None (Default = 0)

Programming

(Example)

When DN 109 to 112 are connected to the Voice Mail ports.

To assign the Voice Mail DN

1. At the programming prompt (PRG>), type:

→ ; PRG>VMD AT 01 (↵)

The screen displays the Input prompt (INPUT >>) as follows:

```
; PRG> VMD AT 01
; 01: Voice Mail DN.....0
→ ; INPUT >>
```

2. At Input prompt (INPUT >>), type:

```
; PRG> VMD AT 01
; 01: Voice Mail DN.....0
→ ; INPUT >> DN109 (↵)
```

The screen displays the next Input prompt (INPUT >>) as follows:

```
; PRG> VMD AT 01
; 01: Voice Mail DN.....0
; INPUT >> DN109
; 02: Voice Mail DN.....0
→ ; INPUT >>
```

3. Follow the step 2 for each Voice Mail DN you want to store.
4. To store the assigned voice mail DN to the system, at Input prompt (INPUT >>), type:

```

; PRG> VMD AT 01
; 01: Voice Mail DN.....0
; INPUT >> DN109
; 02: Voice Mail DN.....0
; INPUT >> DN110
; 03: Voice Mail DN.....0
; INPUT >> DN111
; 04: Voice Mail DN.....0
; INPUT >> DN112
; 05: Voice Mail DN.....0
→ ; INPUT >> $EOD (␣)

```

This assigns the Voice Mail DN to the system, and the programming prompt (PRG >) appears again.

To confirm the assignments

At the programming prompt (PRG >), type:

```
→ ; PRG> VMD SH (␣)
```

The screen displays the Voice Mail DN assignments as follows.

```

; PRG> VMD SH (␣)
; 01: Voice Mail DN.....DN109
; 02: Voice Mail DN.....DN110
; 03: Voice Mail DN.....DN111
; 04: Voice Mail DN.....DN112
; 05: Voice Mail DN.....0
; 06: Voice Mail DN.....0
;
;
; 16: Voice Mail DN.....0
; PRG >

```

To remove the existing Voice Mail DN

1. At the programming prompt (PRG >), type:

```
→ ; PRG> VMD AT 01 (␣)
```

The screen displays the Input prompt (INPUT >>) as follows:

```

; PRG> VMD AT 01
; 01: Voice Mail DN.....DN109
→ ; INPUT >>

```

2. At input prompt (INPUT >>), type:

```

; PRG> VMD AT 01
; 01: Voice Mail DN.....DN109
→ ; INPUT >> $CLR (␣)

```

The screen displays the next Input prompt (INPUT >>) as follows:

```
; PRG> VMD AT 01
; 01: Voice Mail DN.....DN109
; INPUT >> $CLR
; 02: Voice Mail DN.....DN110
→ ; INPUT >>
```

3. Follow the step 2 for each Voice Mail DN you want to remove.

4. To store the changed data to the system, at Input prompt (INPUT >>), type:

```
; PRG> VMD AT 01
; 01: Voice Mail DN.....DN109
; INPUT >> $CLR
; 02: Voice Mail DN.....DN110
; INPUT >> $CLR
; 03: Voice Mail DN.....DN111
; INPUT >> $CLR
; 04: Voice Mail DN.....DN112
; INPUT >> $CLR
; 05: Voice Mail DN.....0
→ ; INPUT >> $EOD (␣)
```

This assigns the changed data to the system, and the programming prompt (PRG >) appears again.

To finish the programming

At the programming prompt (PRG >), type:

```
→ ; PRG> EXIT (␣)
```

The screen displays the initial prompt (>) of the Dumb programming mode as follows.

```
; PRG> EXIT
→ ; >
```

To return to the VT programming mode

At initial prompt (>), press:

```
→ CTRL and V keys simultaneously.
```

The screen displays the Main Menu of the VT programming mode.

55.00 Mailbox Number (MBN)

Description

This program tells the KX-T336 system what mailbox number is assigned for each extension.

By default, mailbox number identical with each extension number is assigned to all extensions.

That is, mailbox number for DN100 extension is 100.

This means when a call is forwarded (via DN100) to a port that is assigned as a voice mail port, the system will sent 100 with DTMF tones automatically when the voice mail port answers the call.

Input Format

M	B	N	Mode	Item Number	CR ↵
---	---	---	------	-------------	------

Index Number

Index Number	Explanation
DN XXXX or Four-digit number (1011 to 3158)	Extension directory number (XXXX : three or four digits) Physical location of extension

Input Value for Item Number

Item Number	Assigning Items	Input Value
None	Mailbox Number	Up to 10 digits of numeric characters (0-9), "*" and "#" (Default = Same as the extension number)

Mailbox number specific to each extension (Same as the extension number) is assigned to all extensions by default.

Programming

To change the default setting

1. At the programming prompt (PRG>), type:

→ ; PRG> MBN AT DN100 (↵)

The screen displays the Input prompt (INPUT >>) as follows:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
→ ; INPUT >>
```

2. At Input prompt (INPUT >>), type:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
→ ; INPUT >> 200 (↵)
```

The screen displays the next Input prompt (INPUT >>) as follows:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
; INPUT >> 200
; 1: Mail Box Number.....200
→ ; INPUT >>
```

3. To store the new Mailbox Number to the system, at Input prompt (INPUT >>), type:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
; INPUT >> 200
; 1: Mail Box Number.....200
→ ; INPUT >> $EOD (↵)
```

This assigns the new Mailbox Number to the system, and the programming prompt (PRG >) appears again.

To change the default setting for another extension

4. At the programming prompt (PRG >), type:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
; INPUT >> 200
; 1: Mail Box Number.....200
; INPUT >> $EOD
→ ; PRG> MBN AT DN101 (↵)
```

The screen displays the next Input prompt as follows:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
; INPUT >> 200
; 1: Mail Box Number.....200
; INPUT >> $EOD
; PRG> MBN AT DN101
; 1: Mail Box Number.....101
→ ; INPUT >>
```

5. At Input prompt (INPUT >>), type:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
; INPUT >> 200
; 1: Mail Box Number.....200
; INPUT >> $EOD

; PRG> MBN AT DN101
; 1: Mail Box Number.....101
→ ; INPUT >> 201 (↵)
```

The screen displays the next Input prompt (INPUT >>) as follows:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
; INPUT >> 200
; 1: Mail Box Number.....200
; INPUT >> $EOD

; PRG> MBN AT DN101
; 1: Mail Box Number.....101
; INPUT >> 201
; 1: Mail Box Number.....201
→ ; INPUT >>
```

6. To store the new Mailbox Number to the system, at Input prompt (INPUT >>), type:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
; INPUT >> 200
; 1: Mail Box Number.....200
; INPUT >> $EOD

; PRG> MBN AT DN101
; 1: Mail Box Number.....101
; INPUT >> 201
; 1: Mail Box Number.....201
→ ; INPUT >> $EOD
```

This assigns the new Mailbox Number to the system, and the programming prompt (PRG >) appears again.

To remove the existing Mailbox Number

1. At the programming prompt (PRG>), type:

```
; PRG> MBN AT DN100 (↵)
```

The screen displays the Input prompt (INPUT >>) as follows:

```
; PRG> MBN AT DN100
; 1: Mail Box Number.....100
→ ; INPUT >>
```

2. At Input prompt (INPUT >>), type:

```
; PRG> MBN AT DN100
;   1: Mail Box Number.....100
→ ;   INPUT >> $CLR  (↵)
```

The screen displays the next Input prompt as follows:

```
; PRG> MBN AT DN100
;   1: Mail Box Number.....100
;   INPUT >> $CLR
;   1: Mail Box Number.....
→ ;   INPUT >>
```

3. To store the changed data to the system, at input prompt (INPUT >>), type:

```
; PRG> MBN AT DN100
;   1: Mail Box Number.....100
;   INPUT >> $CLR
;   1: Mail Box Number.....
→ ;   INPUT >> $EOD  (↵)
```

This assigns the changed data to the system, and the programming prompt (PRG >) appears again.

To finish the programming

At the programming prompt (PRG >), type:

```
→ ; PRG> EXIT  (↵)
```

The screen displays the initial prompt (>) of the Dumb programming mode as follows:

```
; PRG> EXIT
→ ; >
```

To return to the VT programming mode

At initial prompt (>), press:

CTRL and **V** keys simultaneously.

The screen displays the Main Menu of the VT programming mode.

56.00 Account Code Verified

Description

Account Code Verified is used to prevent the extension users from making unauthorized outside calls by checking the validity of the entered account code. In default mode, the validity of the entered account code is not checked by the system.

When Account Code Verified is utilized, account code entered before making an outside call is checked against the list of system account codes. If the entered account code matches one of the codes on the list, the outside call is completed. If the entered account code is not found on this list, reorder tone is returned to the extension user and the outside call is restricted.

System Account Codes for this feature can be registered in the Speed Dialing Screen by dividing it into two areas using SPB command.

This feature is applied to the extension user whose Class of Service No. is assigned to "YES" by entering ACV command at dumb programming mode.

System Account Codes are not assignable, if Tenant Service is employed.

To utilize this feature, the following programming should be done beforehand.

(1) Programming the System Account Codes-Speed Dialing Boundary (SPB)

To register the System Account Codes, first divide the System Dialing Screen into two areas by entering SPB command as an example shown below.

When divided, the first area is used to register Speed Dialing Codes and the second area is used to register System Account Codes.

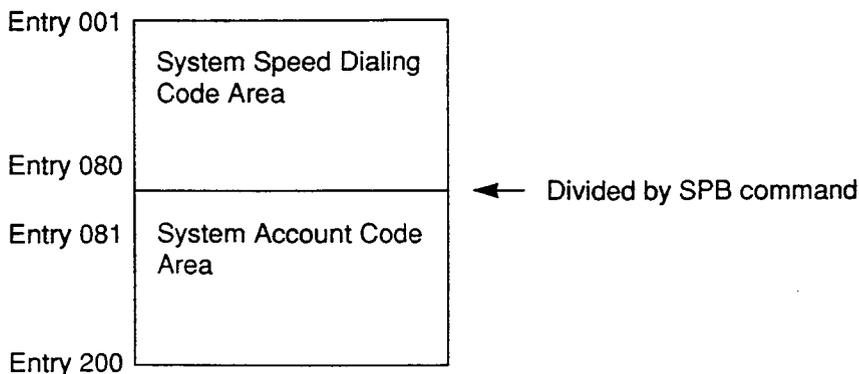
SPB command is available only when tenant service is not employed.

<Example>

To assign 80 Speed Dialing Codes and 120 System Account Codes in the Speed Dialing Screen, enter as follows.

```
; PRG>SPB AT<CR>
; Speed Dial Boundary ----- 200
;   INPUT>> 080 <CR>
; Speed Dial Boundary ----- 080
;   INPUT>> $EOD <CR>
; PRG>
```

As a result, System Speed Dialing area will be divided into two areas as follows.



Boundary number is ranging from "000" to "200."

If "000" is entered in Speed Dial Boundary, whole system speed dialing screen is used to register the System Account Codes.

If "200" is entered in Speed Dial Boundary, whole system speed dialing screen is used to register a number for Speed Dialing.

After Speed Dial Boundary is determined, register System Account Codes at "System-Speed Dialing-System" screen.

(2) Assigning Account Code Verified (ACV) Feature to the Extension

ACV command is used to assign Account Code Verified feature to each extension user on a basis of COS No. for that extension.

When Account Code Verified feature is assigned "Yes" to COS No.2, the account code entered is checked against the System Account Code List. If match is found on the table, a call is completed, if not found, a call is stopped and reorder tone is sent.

To program Account Code Verified feature, enter ACV command as follows. Then enter "Y" to activate this feature, or enter "N" to deactivate this feature.

<Example>

```
; PRG>ACV AT<CR>
; Class of Service No. 01 ----- N
;   INPUT>> Y <CR>
; Class of Service No. 02 ----- N
;   INPUT>> Y <CR>
; Class of Service No. 03 ----- N
;   INPUT>> Y <CR>
; Class of Service No. 04 ----- N
;   INPUT>> $EOD <CR>
; PRG>
```

Input Format

(1)

(2)

Index Number

(1) None

(2)

Index Number	Explanation
01 to 32	COS (Class of Service) Number

Input Value for Index Number

(1)

Item Number	Assigning Items	Input Value
None	Speed Dial Boundary	000 to 200 : Boundary Number 000 : Up to 200 System Account Codes can be registered 200 : Up to 200 Speed Dialing Codes can be registered (Default = 200)

(2)

Item Number	Assigning Items	Input Value
None	Account Code Verified Mode	Y : Enabled N : Disabled (Default = N)

Reference

It is helpful to use this feature together with ACL feature.
Refer to Section 3-F-11.00 "Call Accounting Summary" for further information.

57.00 Account Code Entry on Long Distance Calls (ACL)

Description

Used to allow the extension user to override the restrictions on numbers programmed by the Toll Restriction Table.

When this feature is utilized, the call is completed even if the last 7-digit of the dialed outside number is found on the table, by entering the appropriate account code before making an outside call.

This feature works on a basis of COS (Class of Service) assigned to each extension.

To utilize this feature, the extension user must enter an account code before making an outside call.

The validity of the account code entered, however, is not checked by the system.

To check the validity, assign "Account Code Verified (ACV)" feature.

Input Format

Mode ()

Index Number

Index Number	Explanation
01 to 32	COS (Class of Service) Number

Input Value for Index Number

Assigning Items	Input Value
Account Code on Long Distance Calls	Y : Enabled N : Disabled (Default = N)

Assigning Account Code Entry on Long Distance Calls (ACL)

To activate this feature, enter ACL command and then "Y (Yes)" as follows.

<Example>

```

; PRG>ACL AT<CR>
; Class of Service No 01 ----- N
;   INPUT>> Y <CR>
; Class of Service No 02 ----- N
;   INPUT>> Y <CR>
; Class of Service No 03 ----- N
;   INPUT>> Y <CR>
; Class of Service No 04 ----- N
;   INPUT>> $EOD <CR>
; PRG>
    
```

Conditions

None

Reference

Section 3-C-1.00 "Toll Restriction"

Section 3-F-11.00 "Call Accounting Summary"

Section 4-I-2.00 "Account Code Entry"

Section 5-G-2.00 "Account Code Entry"

Section 10-C-56.00 "Account Code Verified"

It is helpful to use this feature together with ACL feature.

Refer to Section 3-F-11.00 "Call Accounting Summary" for further information.

58.00 CO Access Instantly (CAI)

Description

When an extension user makes an outside call, the system seizes a CO line (if available) and sends out dial signal after the toll restriction procedure in default mode.

In some region, CO dial tone is returned to the system in a delayed timing.

If you want to send out dial signal after receiving the CO dial tone, program CO Access Instantly feature.

When this feature is activated, a CO line is seized (if available) directly after pressing a CO button or dialing a CO line access code.

Then the extension user can send dial signal to the central office after receiving CO dial tone.

This feature is programmable on a trunk group basis.

In case of Local Trunk-Dial Access, system decides the mode by the top trunk group of Local Trunk Hunt Sequence.

(1) Assigning "CO Access Instantly" on a Trunk Group

This feature can be assigned on a trunk group basis by entering CAI command at dumb programming mode as follows.

Then enter "Y" to activate this feature, and enter "N" to deactivate this feature.

<Example>

```

; PRG>CAI AT<CR>
; Trunk Group No. 01 ----- N
;   INPUT>> Y <CR>
; Trunk Group No. 02 ----- N
;   INPUT>> Y <CR>
; Trunk Group No. 03 ----- N
;   INPUT>> Y <CR>
; Trunk Group No. 04 ----- N
;   INPUT>> $EOD <CR>
; PRG>
    
```

Input Format

Index Number

Index Number	Explanation
01 to 16	Trunk Group Number

Input Value for Index Number

Item Number	Assigning Items	Input Value
None	CO Access Instantly	Y : Enabled N : Disabled (Default = N)

Conditions

(External First Digit Time-Out timer assignment)

When CO Access Instantly is utilized, we recommend to set System-System Timer "External First Digit Time-Out" timer longer than length of CO dial tone delay.

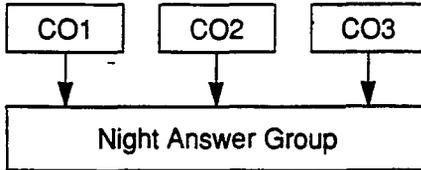
This setting can be ranged from 5 to 120 seconds.

Refer to Section 9-D-3.00 "System Timer" or
Section 10-C-6.00 "System Timer (TIM)."

59.00 Night Answer Group (NAG)

Description

A single group of extensions (called the Night Answer Group) can be created to receive calls at night. Calls from more than one CO line may arrive at this group. The size limit of the group is 32 extensions.



Refer to Section 3-B-8.01 "Directed Night Answer" and Section 3-B-8.04 "Fixed Night Service" for further information.

Input Format

N A G Mode (Item Number) CR ←

Index Number

None

Input Value for Item Number

Item Number	Assigning Items	Input Value
01 to 32	Destination (Night Answer Group Extensions)	DN XXXX (XXXX : three or four digits): extension number 0 : none (Available only when Trunk Group "Incoming Mode (Night)" is set to "FIXED") (Default = 0)

Programming

(Example)

To assign the Night Answer Group Extensions

- At the programming prompt (PRG>), type:

→ ; PRG> NAG AT (↵)

The screen displays the Input prompt (INPUT >>) as follows:

```

; PRG> NAG AT
; 01: Night Answer EXT .....0
→ ; INPUT >>
  
```

- At Input prompt (INPUT >>), type:

```

; PRG> NAG AT
; 01: Night Answer EXT .....0
→ ; INPUT >> DN109 (↵)
  
```

The screen displays the next Input prompt (INPUT >>) as follows:

```
; PRG> NAG AT
; 01: Night Answer EXT .....0
; INPUT >> DN109
; 02: Night Answer EXT .....0
→ ; INPUT >>
```

3. Follow the step 2 for each Night Answer Group Extensions you want to assign.

4. To store the assignments to the system, at Input prompt (INPUT >>), type:

```
; PRG> NAG AT
; 01: Night Answer EXT .....0
; INPUT >> DN109
; 02: Night Answer EXT .....0
; INPUT >> DN110
; 03: Night Answer EXT .....0
; INPUT >> DN111
; 04: Night Answer EXT .....0
; INPUT >> DN112
; 05: Night Answer EXT .....0
→ ; INPUT >> $EOD (↓)
```

This assigns the Night Answer Group Extensions to the system, and the programming prompt (PRG >) appears again.

To confirm the assignments

At the programming prompt (PRG >), type:

```
→ ; PRG> NAG SH (↓)
```

The screen displays the current assignments as follows.

```
; PRG> NAG SH (↓)
; 01: Night Answer EXT .....DN109
; 02: Night Answer EXT .....DN110
; 03: Night Answer EXT .....DN111
; 04: Night Answer EXT .....DN112
; 05: Night Answer EXT .....0
; 06: Night Answer EXT .....0
;
; 32: Night Answer EXT .....0
; PRG >
```

To remove the existing Night Answer Group Extensions

1. At the programming prompt (PRG >), type:

```
→ ; PRG> NAG AT (↓)
```

The screen displays the Input prompt (INPUT >>) as follows:

```
; PRG> NAG AT
; 01: Night Answer EXT .....DN109
→ ; INPUT >>
```

2. At input prompt (INPUT >>), type:

```
; PRG> NAG AT
; 01: Night Answer EXT .....DN109
→ ; INPUT >> $CLR (␣)
```

The screen displays the next Input prompt (INPUT >>) as follows:

```
; PRG> NAG AT
; 01: Night Answer EXT .....DN109
; INPUT >> $CLR
; 02: Night Answer EXT .....DN110
→ ; INPUT >>
```

3. Follow the step 2 for each Night Answer Group Extension you want to remove.

4. To store the changed data to the system, at Input prompt (INPUT >>), type:

```
; PRG> NAG AT
; 01: Night Answer EXT .....DN109
; INPUT >> $CLR
; 02: Night Answer EXT .....DN110
; INPUT >> $CLR
; 03: Night Answer EXT .....DN111
; INPUT >> $CLR
; 04: Night Answer EXT .....DN112
; INPUT >> $CLR
; 05: Night Answer EXT .....0
→ ; INPUT >> $EOD (␣)
```

This assigns the changed data to the system, and the programming prompt (PRG >) appears again.

To finish the programming

At the programming prompt (PRG >), type:

```
→ ; PRG> EXIT (␣)
```

The screen displays the initial prompt (>) of the Dumb programming mode as follows.

```
; PRG> EXIT
→ ; >
```

To return to the VT programming mode

At initial prompt (>), press:

```
→ CTRL and V keys simultaneously.
```

The screen displays the Main Menu of the VT programming mode.

60.00 Polarity Reversal Detection (PRD)

Description

When an R-LCOT card (KX-T96183) is installed, reversal of CO line polarity is monitored at each port by default.

The PRD command is used to deactivate this monitoring function, or to activate this monitoring function when it has been deactivated.

This command is not valid when an R-LCOT card (KX-T96183) is not installed in the system.

Input Format

P **R** **D** Mode (Index Number) CR ←

Index Number

Index Number	Explanation
Four-digit number (1011 to 3158)	Physical number of the CO line port

Input Value for Item Number

Assigning Items	Input Value
Polarity Reversal Detection	(Y or N) Y: Detects reversal of CO line polarity. N: Does not detect reversal of CO line polarity. (Default=Y)

Programming

To enter the Dumb Programming mode

1. Press **CTRL** key and **V** key simultaneously when Main Menu screen is displayed at VT programming mode.
2. At the Dumb programming initial prompt (; >), type:

; > PRG (↵)

The screen displays the programming prompt (PRG>) as follows:

; PRG>

To change the default setting

(Deactivating the polarity reversal detection)

1. At the programming prompt (PRG>), type:

→ ; PRG> PRD AT (↵)

The screen displays the input prompt (INPUT >>) as follows:

; PRG> PRD AT
; Equipment No.2011Y
→ ; INPUT >>

2. At input prompt (INPUT >>), type:

; PRG> PRD AT
; Equipment No.2011Y
→ ; INPUT >> N (↵)

The screen displays the next input prompt (INPUT >>) as follows:

; PRG> PRD AT
; Equipment No.2011Y
; INPUT >> N
; Equipment No.2012.....Y
→ ; INPUT >>

3. Follow the step 2 for other CO line ports of an R-LCOT card.

4. To store the new assignments to the system, at input prompt (INPUT >>), type:

; PRG> PRD AT
; Equipment No.2011Y
; INPUT >> N
; Equipment No.2012.....Y
; INPUT >> N
:
; Equipment No.2018.....Y
; INPUT >> N
; Equipment No.2011N
→ INPUT >> \$ EOD (↵)

This assigns the new setting to the system, and the programming prompt (PRG >) appears again.

To finish the programming

At the programming prompt (PRG >), type:

→ ; PRG> EXIT (↵)

The screen displays the initial prompt (>) of the Dumb programming mode as follows:

; PRG> EXIT
→ ; >

To return to the VT programming mode

At initial prompt (>), press:

CTRL and **V** keys simultaneously.

The screen displays the Main Menu of the VT programming mode.

61.00 Waiting for Second Dial tone (WSD)

Description

In some areas, upon completion of area code entry, the extension user must ensure the reception of the second dial tone from the central office before continuing to dial the rest of the telephone number.

The WSD command is used to assign the area code and pause time required to support the above mentioned special dialing procedures. Refer to Section 3-F-12.00 "Waiting for Second Dial tone" for further information.

Programming Procedures

Register the facility access code required and pause time as follows.

```
; PRG > WSD AT ( ␣ )  
; Dial Entry Table No. 01  
; 1 : Dial ..... 811  
; 2 : Pause ..... 1
```

<Note>

(1) Dial

One through four digits number consisting of numeric characters 1 – 9 can be entered.

One character "X" can be used as a wild card character that substitutes any numeric character in its position.

(2) Pause

One digit (1–4) which indicates the number of pause characters.

A pause character may be used to help ensure the receipt of dial tone from Central Office.

Each pause character causes a fixed dialing delay of four and one-half (4.5) seconds.

Up to four pause characters may be used consecutively, if a longer pause is required.

Input Format

W	S	D	Mode	(Index Number)	(Item Number)	CR ␣
---	---	---	------	------------------	-----------------	------

Index Number

Index Number	Explanation
01 to 32	Dial Entry Table No.

Input Value for Item Number

Item Number	Assigning Items	Input Value
1	Dial	One through four digits number consisting of numeric characters 1-9. "X" can be used as a wild card character. (Default= None)
2	Pause	One digit (1-4) which indicates the number of pause characters. Each pause character causes a fixed dialing delay of four and one-half (4.5) seconds. (Default=0)

D. Error Message Tables

1.00 Error Messages Related to the Assigning Items in the Same Command

If there is a wrong entry in the displayed screen, the following appears on the message line when storing the entry: "DATA ERROR (XXX)."

The (XXX) indicates one of the error message numbers shown below and possible causes of the errors and countermeasures for them are as follows.

DATA ERROR No. (XXX)	Probable Cause	Countermeasure
100	(page length)-(skip length) < 6	Make (page length)-(skip length) \geq 6.
101	(receive digit) \geq (delete digit) is not established in - Special Attended DID screen.	Make (receive digit) \geq (delete digit).
102	Restriction Level-Operator \leq Restriction Level-International is not established in - Operation (1/3) screen	Make Restriction Level-Operation \leq Restriction Level-International
110	Day-night combination in the incoming mode is not correct.	Change the day-night combination in incoming mode.
130	Combination of the terminals of operators 1, 2 is incorrect.	Change the combination of terminals for operators 1, 2.
140	DN is not installed.	Designate the installed DN.
141	Attempting to assign FDN's of UCD # 1 to # 4 for the overflow destination of UCD # 5 to # 32	Set FDN of other UCD, or extension directory number.
150	Attempting to assign its own extension number on the key which cannot be assigned to its own extension number. <example> DSS(ICM) DSS(DN) SDN	Specify the number except its own extension number.
160	Specifying UCD number incorrectly.	Assign UCD to only one ICM.
190	Date value is incorrect on the check of month, and leap year in the time and date setting screen.	Check the date setting.

2.00 Error Messages Related to the Assigning Items in the Other Commands

If there is a wrong entry related to the assigned by the other commands, the following appears on the message line when storing the entry: "DATA ERROR (xxx)."

The (XXX) indicates an error message number shown below and possible causes of the errors and countermeasures for them are as follows.

DATA ERROR No.	Probable Cause	Countermeasure
300	Setting DN which is not stored in the hundred block.	Enter data in hundred block. Or, set DN which is stored in hundred block.
301	Specified extension DN is not stored.	Store the extension DN.
302	Telephone type of the extension paired with DSS console is not PITS.	Paired extension should be changed to a PITS.
310	Setting DN to the DSS console.	Set DN to assignable port.
320	Setting trunk group except DID on CO-line on DID card. Or, assigning trunk group of DID to CO-line on the card except DID.	Assign trunk group to the correct kind of card.
330	Tenant is different.	Assign the same tenant.
331	As assigned to the destination of 1 : N of trunk group, impossible to change tenant.	Cancel the 1 : N destination.
332	As assigned to the destination of doorphone call, impossible to change tenant.	Cancel the doorphone call destination.
333	Setting one pickup group to ICM & PAG group belonging to different tenant.	Set it to the same tenant. Or, change tenant after deleting pickup group.
334	Changing tenant of ICM/PAG group without canceling extensions.	Change after canceling extensions. Impossible to move extensions to the other tenant.
335	As assigned to the destination of paging from attendant console, impossible to change Tenant.	Change the destination of attendant paging.
336	As assigned to call placing mode of Trunk group, impossible to change Tenant.	Change assigning of incoming mode.
337	As assigned to night answer point for CO-line, impossible to change Tenant.	Change assignment of night answer point.
338	Attempting to change the tenant of Trunk group without removing the CO lines which belong to the trunk group.	Change after removing the CO lines. Impossible to move CO lines to the other tenant.
339	Attempting to change the tenant of Trunk group without canceling the setting of 1:N destination for the trunk group.	Change after canceling 1: N destination.
340	Deleting is impossible because it is assigned in another item.	Change the item beforehand.

DATA ERROR No.	Probable Cause	Countermeasure
342	Extension assigned to NEXT HUNT STATION is already assigned to NEXT HUNT STATION for another extension.	Assign another extension or clear the previous assignment.
343	Relation between ICM group and Pickup group assigned for an extension is incorrect.	Make them in proper relation.
344	As PRV-CO is assigned by PITS button assignment, impossible to change the type of the trunk group to any other than PRV.	Cancel the assignment of the PITS button.
345	As assigned to Single CO by PITS button assignment, impossible to change the 1:1 destination of the line to a different PITS.	Cancel the assignment of the PITS button.
346	Attempting to change the tenant of Trunk group without canceling the setting of 1:1 destination.	Change the tenant after clearing all 1:1 destinations of CO lines belonging to the group.
347	UCD group is not assigned.	Assign Pickup group to a UCD group.
348	Attempting to assign DID to Trunk group which has CO lines belonging to the group.	Assign DID after clearing all CO lines belonging to the group.
350	Attempting to assign the unstored ICM number to the DSS (ICM) button.	Assign stored ICM number.
360	Attempting to assign the ATT which is not registered as the operator to the maintenance device.	Register the ATT as an operator, or specify another device.
370	Specified CO line does not exist.	Specify proper CO line.
371	Specified CO line is not the PVL.	Specify proper CO line.
372	Specified CO line is already assigned as a DIL 1:1 or PRV-CO by another extension.	Specify another CO line or cancel the assignment of the desired line.
373	Impossible to assign because the programmings for specified CO does not satisfy the condition.	Change call placing type to 1:1, or change group type to unique type.
374	Impossible to assign because the programmings for specified CO does not satisfy the condition.	Change call placing type to 1:N, and group type to group.
391	Attempting to delete the extension which is registered as an operator of the tenant.	Cancel the assignment as an operator.
392	Attempting to delete the extension which is registered as the destination of intercept routing for the Trunk group.	Cancel the assignment as the destination.
393	Attempting to delete the extension which is registered as an ATT busy out extension of Trunk group.	Cancel the assignment as an ATT busy out extension.
394	Attempting to delete the extension which is registered as an ATT overflow extension for Trunk group.	Cancel the storage as an ATT overflow extension.

DATA ERROR No.	Probable Cause	Countermeasure
395	Attempting to delete the extension which is registered as an overflow extension for UCD group.	Cancel the storage as an overflow destination.
396	Attempting to delete the extension/RMT which is registered as a DIL 1:1 call destination of CO line.	Cancel the storage as a DIL 1:1 call destination.
397	Attempting to delete the extension which is registered as a night answer point of CO line.	Cancel the storage as a night answer point.
398	Attempting to delete the extension which is registered as a walking station.	Cancel the storage as a walking station.
399	Attempting to delete the PITS paired with DSS-console.	Change the PITS paired with DSS Console.
400	Attempting to delete the extension which is registered as a night answer point for tenant.	Cancel the storage as night answer point.
401	Attempting to delete the extension which is set to SDN.	Cancel the assignment of SDN.
403	Attempting to delete the ATT when the ATT is assigned for day incoming mode in Trunk group.	Change the incoming mode destination other than ATT.
404	Attempting to delete RMT when the RMT alarm is assigned.	Cancel the assignment of RMT alarm.
405	Attempting to delete the external pager which is registered as UNA point for CO line.	Change the night answer point.
406	Attempting to delete the external pager which is registered as a TAFAS for day/night incoming mode for Trunk group.	Change the incoming mode.
407	Attempting to delete the external pager which is registered as a paging destination for the ATT.	Change the paging destination.
408	Attempting to delete the ATT which is specified for maintenance device.	After changing maintenance device, delete the ATT.
409	When deleting ATT, combination of operators 1 and 2 is incorrect.	Check the combination of operators.
411	Impossible to delete the card, for all of the ports belonging to the card is not made pre-installed.	Delete all the ports belonging to the card.
412	Impossible to delete the card, for DN is assigned to an extension port.	Delete all the ports belonging to the card.
413	Deleting the card is impossible, for it is assigned as a maintenance device.	Change the maintenance device.

DATA ERROR No.	Probable Cause	Countermeasure
414	Deleting the card is impossible, because it is assigned for the intercept routing destination for the Trunk group.	Change the intercept routing destination.
415	Deleting the card is impossible, because it is assigned for doorphone call destination.	Cancel the doorphone call destination.
418	Attempting to assign NAG as Night Answer Point of a CO line belonging to a Trunk Group whose Incoming Mode (Night) is not FIXED.	Assign Incoming Mode (Night) to FIXED.
420	Changing Tenant Service from "Yes" to "No" is impossible as all ATT's are not assigned to tenant 1.	Assign ATT's to tenant 1.
421	Changing Tenant Service from "Yes" to "No" is impossible as all music sources are not assigned to tenant 1.	Assign music sources to tenant 1.
422	Changing Tenant Service from "Yes" to "No" is impossible as all external pagers are not assigned to tenant 1.	Assign external pagers to tenant 1.
423	Changing Tenant Service from "Yes" to "No" is impossible as all doorphones are not assigned to tenant 1.	Assign doorphones to tenant 1.
424	Changing Tenant Service from "Yes" to "No" is impossible as all DISA's are not assigned to tenant 1.	Assign DISA's to tenant 1.
425	Changing Tenant Service from "Yes" to "No" is impossible as all AGC's are not assigned to tenant 1.	Assign AGC's to tenant 1.
426	Changing Tenant Service from "Yes" to "No" is impossible as all paging groups are not assigned to tenant 1.	Assign all paging groups to tenant 1.
427	Changing Tenant Service from "Yes" to "No" is impossible as all ICM groups are not assigned to tenant 1.	Assign all ICM groups to tenant 1.
428	Changing Tenant Service from "Yes" to "No" is impossible as all trunk groups are not assigned to tenant 1.	Assign all trunk groups to tenant 1.
430	Deleting expansion shelf is impossible, as one or more cards are assigned to the expansion shelf.	Delete all the cards in the expansion shelf.
440	Impossible to change the Numbering Plan to "Fixed," because there exist DN's which should be blank in the "Fixed" mode in the Hundred Block.	Clear DN's which should be blank.
450	Impossible to change ICM/Paging group, for the pickup group belonging to the ICM/Paging group contains extensions.	Change after deleting all the extensions in the pickup group.

3.00 Fixed Error Messages

DATA ERROR No.	Probable Cause	Countermeasure
003	Unacceptable value is assigned.	Assign an allowable value.
004	Space exists between items.	Remove the space.
005	Some items are left blank.	Assign all required items, or leave all items blank.
006	At least one blank should be left among multiple items.	Leave at least one blank.
007	Assigned selection value is not for the item.	Set the assignable value.
008	The number which is set previously in this screen is assigned again.	Set the number different from the previous number.
009	The number which is set previously in a different screen is assigned.	Set the number different from the previous number.
012	Device is not installed.	Assign the installed device.
013	Status of the specified device does not accept this command.	Change the status of the device to be acceptable for the command.
016	Privilege level is lower than specified level.	Increase the privilege level through the Change level function.
017	Diagnostic error has been detected when INS command is executed.	Verify the related device.
018	Specified service is not executed.	Check specified service.
019	Another maintenance device (remote, PITS, system) is in use.	Wait until another device is finished or let him finish.
020	Printer is not connected to the system or the power is off.	Connect the printer, and make the power on.
021	Print out is unavailable from Remote.	Execute print out on-site.
022	Entered parameters for Item or Index is out of the specified range.	Enter the parameters within the specified range.
023	“, /” or “, <CR>” is entered in BT (Batch) programming.	Correct the wrong entry.
024	Calendar IC malfunction.	Repair calendar IC.
027	Backup device is not connected (only when maintenance device is ATT).	Connect the backup device to SIO # 1 Port.
029	Different version at the time of backup.	Match the backup version.

DATA ERROR No.	Probable Cause	Countermeasure
030	A checksum error has been detected.	Communication line is defective, or backup data is destroyed.
031	Improper data is received.	Communication link is defective, or backup data is destroyed.
040	Execution is impossible during off-line.	Execute during on-line.
041	Impossible change such as [INS] → [INS], [OUS] → [OUS] is attempted.	Impossible.
042	Some required items are omitted.	Enter the required items.

4.00 Other Error Messages

Error Message	Probable Cause	Countermeasure
PASSWORD ERROR	Assigned password is not correct.	Enter the correct password.
MODE ERROR	Selected mode is not correct.	Change the mode.
COMMAND ERROR	Entered command is not correct.	Enter the correct command.
TYPE ERROR	Selected type is not correct.	Select the correct type. (SH, AT, BT)
INDEX ERROR	Entered index number is not correct.	Enter the correct index number.
ITEM ERROR	Entered item number is not correct.	Enter the correct item number.
LOGICAL ERROR	Programming data assigned in off-line mode has some logical error.	Assign the correct data.
DATA ERROR	Assigned data is invalid.	Refer to the DATA ERROR No. list.

Section 11

System Programming

Proprietary Integrated Telephone System (PITS)

(Section 11)

System Programming

Proprietary Integrated Telephone System (PITS)

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A. Introduction

Description

There are two programming types using PITS (Proprietary Integrated Telephone System):

1. PITS system programming
2. PITS station programming

PITS system programming is performed in PITS system programming mode. (Described in this section)

PITS station programming is performed in PITS station programming mode. (Described in Section 12)

PITS system programming is used to program the following system data:

- 1) Setting Date and Time
- 2) Storing Speed Dialing-System
- 3) Changing Extension Number
- 4) Changing Extension Name
- 5) Changing PITS System Program Mode Entry Password
- 6) Changing DISA User Code
- 7) Changing Walking COS Password

Conditions

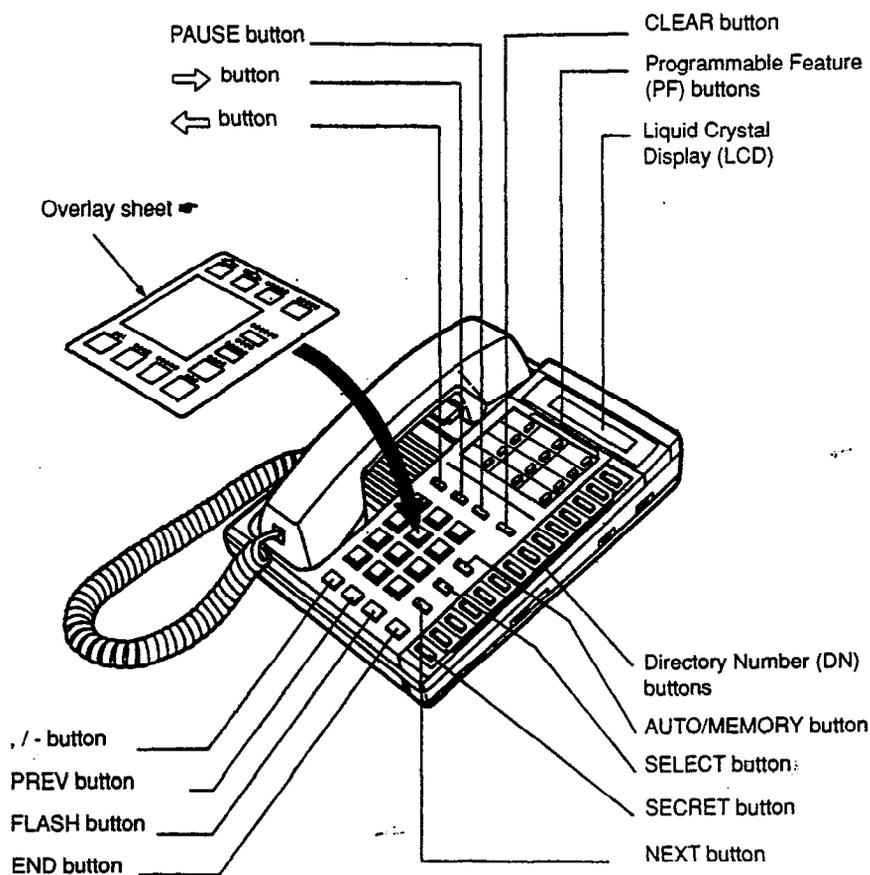
The following are the conditions required to execute PITS system programming:

- 1) The extension must be assigned to "Yes" in "System-Class of Service", Maintenance Capability.
Refer to Section 9-D-4.01 "Class of Service (1/2)" for information on system programming.
- 2) It is recommended to use PITS telephones provided with the display, which are:
KX-T7030, KX-T7130, KX-T123235, KX-T123230D, KX-T123230, KX-T61630, and KX-T30830.
- 3) The system is on-line communication mode.
- 4) Password for PITS system programming is required to enter into PITS system programming mode. The password is assigned in "System-Operation", PITS Programming Password. (Refer to Section 9-D-1.03 "Operation (3/3).") If Tenant Service is employed, the password for Tenant 2 is assigned in "System-Tenant", PITS Programming Password (Tenant 2).
- 5) It is impossible to enter into PITS system programming mode if the system has already been accessed by other System Administration Devices, such as VT220, compatibles, Attendant Console, Dumb terminal, or if an extension in the same tenant is in PITS system programming.
- 6) To enter into PITS programming mode, the telephone set must be on-hook. If it is off-hook or in the state of speaker phone activated, programming mode is not established even if the MEMORY switch is set to the "PROGRAM" side.

B. Function of PITS Buttons in PITS Programming

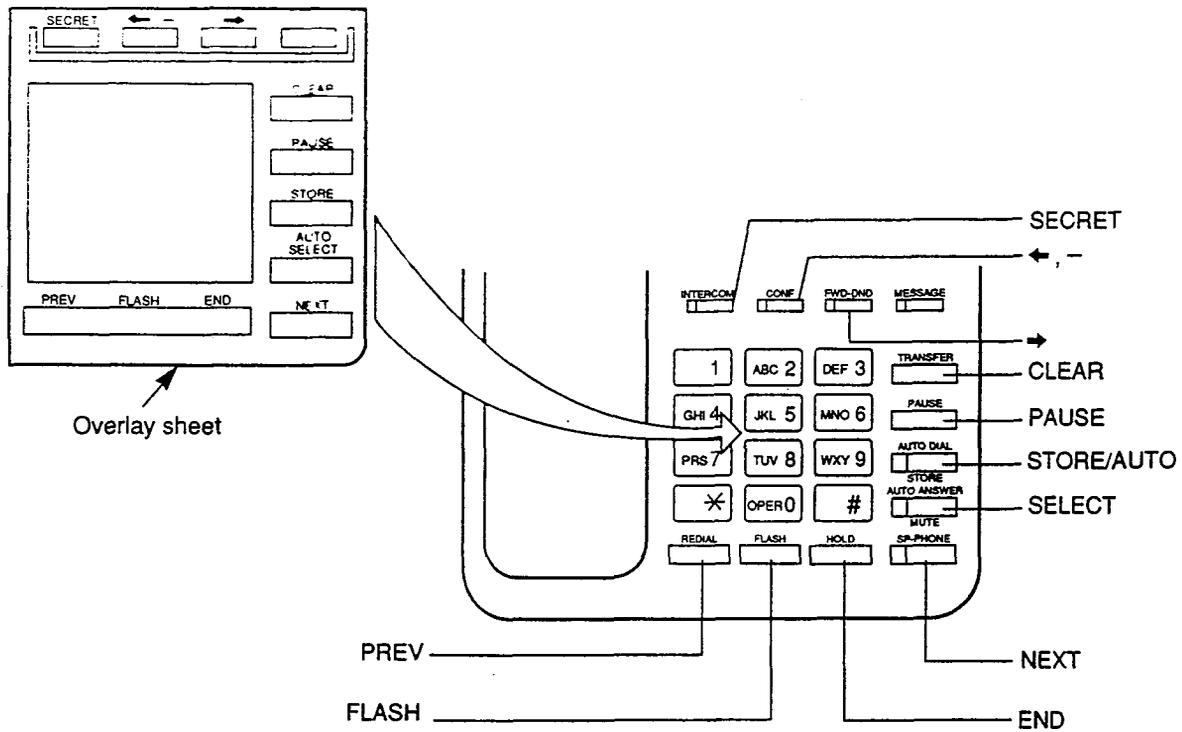
In PITS system and PITS station programming modes, the functions of the fixed feature buttons on a PITS are changed as illustrated below:

- For users with PITS type 30 (KX-T30830, KX-T61630, KX-T123230D, KX-T123230, KX-T123235);

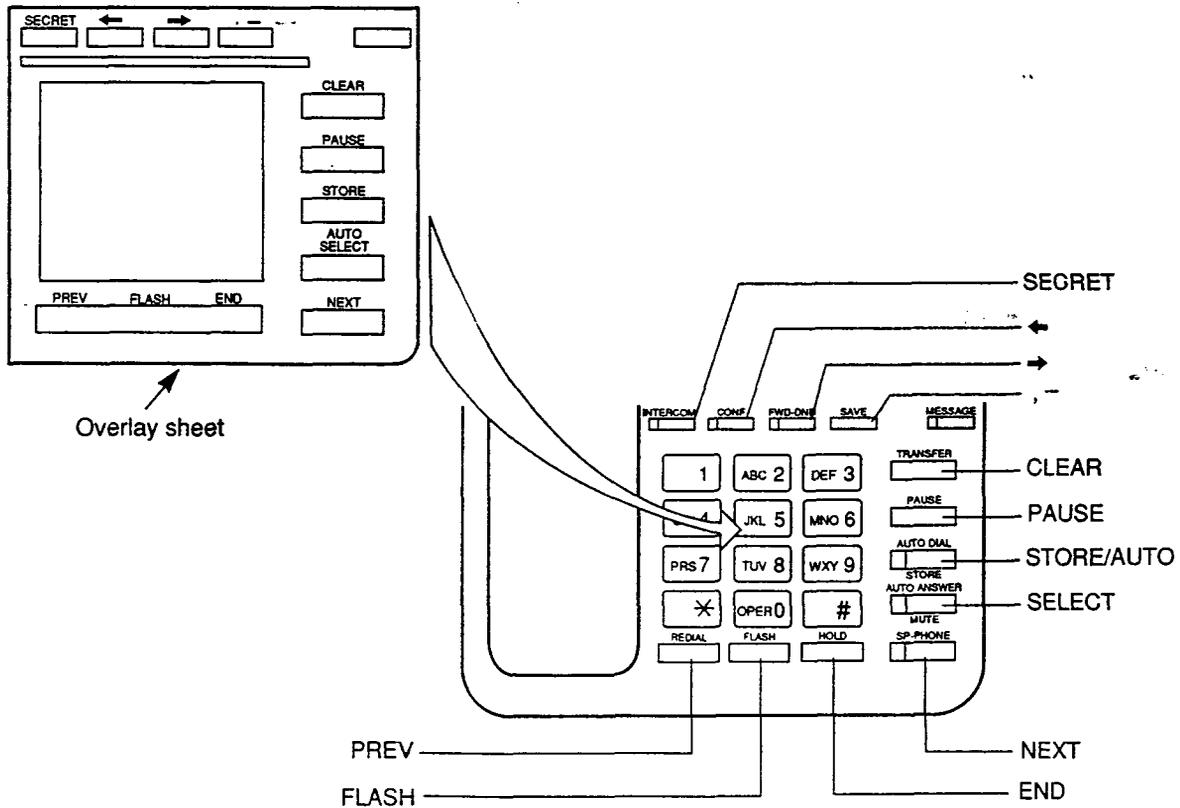


- For the convenience of PITS system/station programming, function names for programming are printed on the overlay sheet. This sheet is provided for PITS telephones equipped with the display.

- For users with PITS Model. KX-T7030.



- For users with PITS Model. KX-T7130.

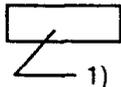
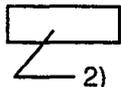
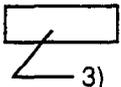


C. Operation

Introduction

Procedures for setting PITS system programming mode and performing PITS system programming are described in tables and operation charts.

The tables show the procedures in the following form:

Operation	Result	Comment/Note
		

- 1) Describes actual operation.
- 2) Shows the result from the operation.
- 3) Comment or note on the operation.

Operation charts are attached to the tables to help you to understand the flow.

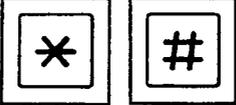
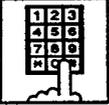
The procedures for setting PITS system programming mode are explained first in "Setting PITS System Programming Mode."

The procedures for PITS system programming are explained in each programming item.

Note: The procedures in this section are described from the viewpoint of type 30 PITS telephone users. If KX-T7030 or KX-T7130 is used in PITS system programming mode, press the STORE button instead of MEMORY button.

1.00 Entering PITS System Programming Mode

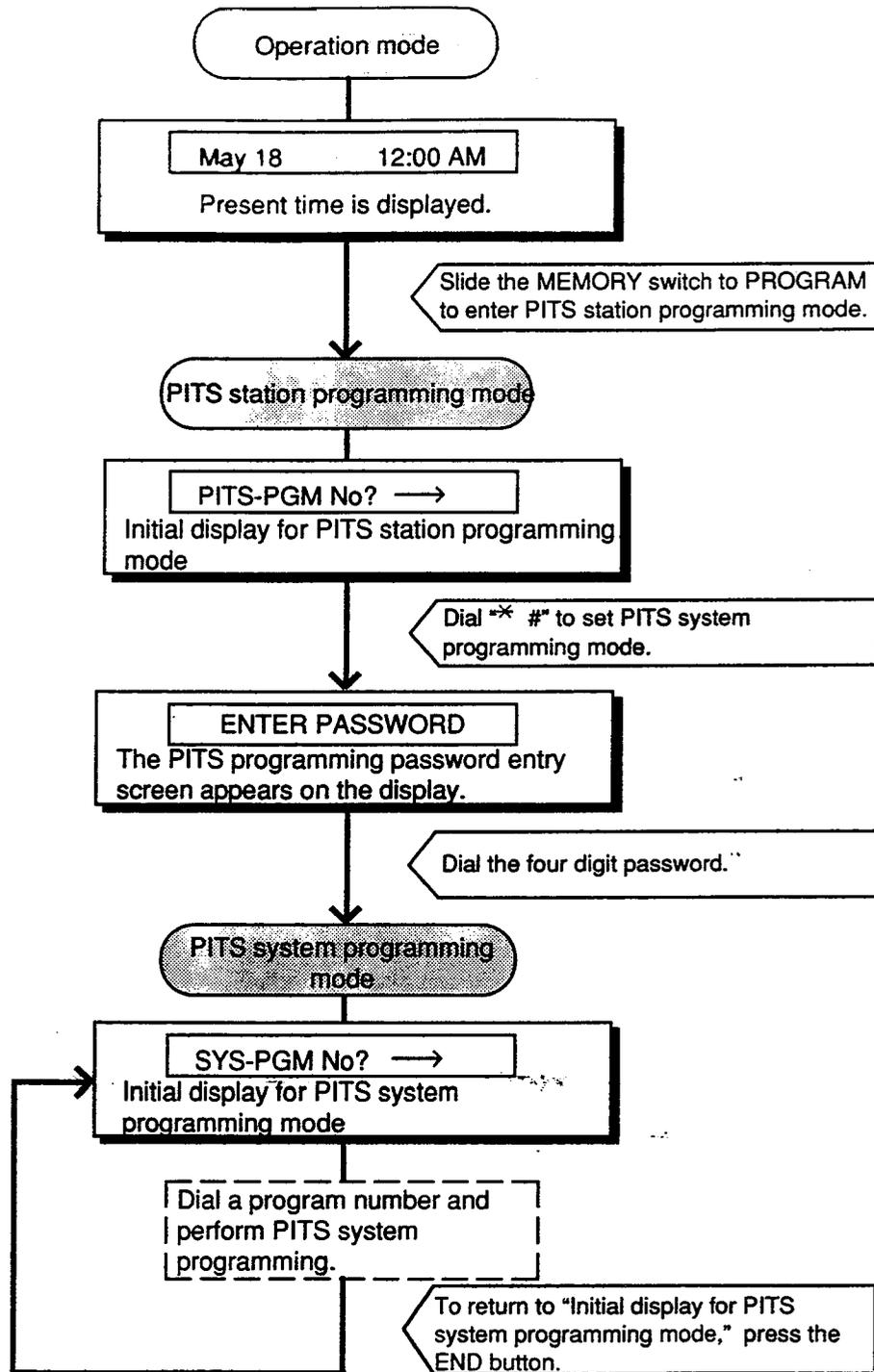
Procedures for setting PITS system programming mode :

Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p> 	<ul style="list-style-type: none"> The message below appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">PITS-PGM No? →</div> <ul style="list-style-type: none"> The MEMORY button indicator lights in red. 	<ul style="list-style-type: none"> This display is called "Initial display for PITS station programming mode." If the programming data of your PITS is already accessed by another system administration device, the following message appears on the display. <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Already Accessed</div>
<p>2. Dial "*" #." (program number)</p> 	<ul style="list-style-type: none"> The PITS programming password entry screen appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">ENTER PASSWORD</div> <ul style="list-style-type: none"> The MEMORY button indicator light goes out. 	
<p>3. Dial the PITS Programming Password: four digits.</p> 	<ul style="list-style-type: none"> The message below appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">SYS-PGM No?</div> <ul style="list-style-type: none"> The MEMORY button indicator lights in red. 	<ul style="list-style-type: none"> This display is called "Initial display for PITS system programming mode." The password characters are not displayed when they are entered for security reason. Entry of an incorrect password causes an alarm tone. If the following message appears, the system is already accessed by another administration device: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Already Accessed</div>

When nothing is entered within one minute after "Initial display for PITS system programming mode" is displayed, "Initial display for PITS station programming mode" is displayed again.

You can return to the operation mode whenever you slide the MEMORY switch to SET.

Operation chart for setting PITS system programming mode



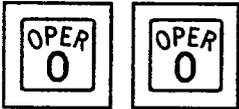
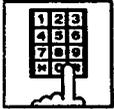
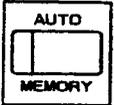
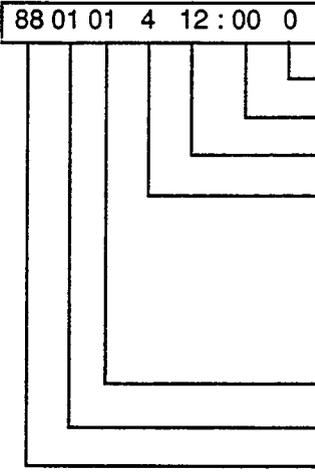
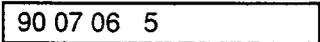
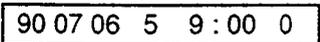
Note:

To finish PITS system programming mode and return to PITS station programming mode, press the END button while "Initial display for PITS system programming mode" is displayed. In PITS system programming mode, you can return to "Initial display for PITS system programming mode" (status 1) by pressing the END button.

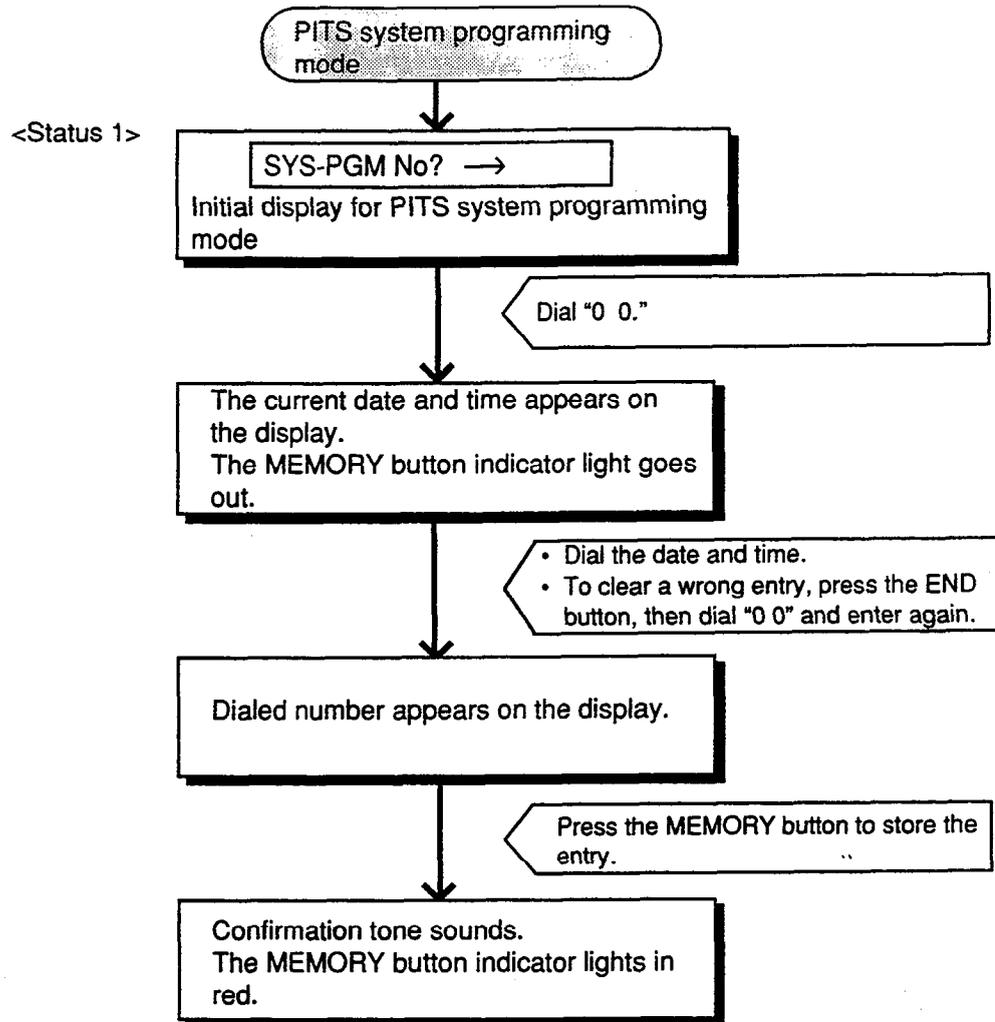


2.00 Setting Date and Time

Used to change date and time.

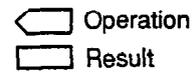
Operation	Result	Comment/Note
<p>1. Set PITS system programming mode.</p> <p>2. Dial "0 0." (program number)</p>  <p>3. Enter the current date and time.</p>  <p>4. Press the MEMORY button to store the entry.</p> 	<ul style="list-style-type: none"> The message below appears on the display:  <ul style="list-style-type: none"> The MEMORY button indicator lights in red. The current date and time appears on the display: <p><Example></p>  <ul style="list-style-type: none"> The MEMORY button indicator light goes out. Dialed digits appear in dialed order. <p><Example></p> <p>When you set 9:00 a.m., July 6, Friday, 1990:</p>  <p style="text-align: center;">↓</p>  <ul style="list-style-type: none"> The MEMORY button indicator lights in red. Confirmation tone sounds. 	<ul style="list-style-type: none"> Refer to Section 11-C-1.00 "Entering PITS System Programming Mode." Displayed details and conditions for entry are as follows: <ul style="list-style-type: none"> a.m./p.m.: 0: a.m. 1: p.m. Minute : 00 to 59 Hour : 01 to 12 Day of the week : <ul style="list-style-type: none"> 0: SUN. 1: MON. 2: TUE. 3: WED. 4: THU. 5: FRI. 6: SAT. Day : 01 to 31 Month : 01 to 12 Year : 00 to 99 If you want to clear a wrong entry, press the END button and enter the data again from step 2. Setting is completed when all the above items from "Year" to "a.m./ p.m." are entered. An incomplete entry returns alarm tone, and the MEMORY button indicator does not light.

Operation chart for setting date and time



Note:

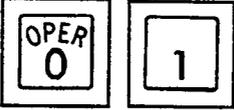
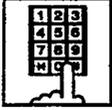
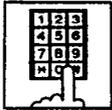
In PITS system programming mode, you can return to "Initial display for PITS system programming mode" (Status 1) by pressing the END button.



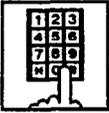
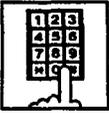
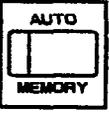
3.00 Storing Speed Dialing-System

This is used to store telephone numbers for speed dialing which all the extension users in the system can use to call outside parties. Up to 200 speed dialing codes can be stored.

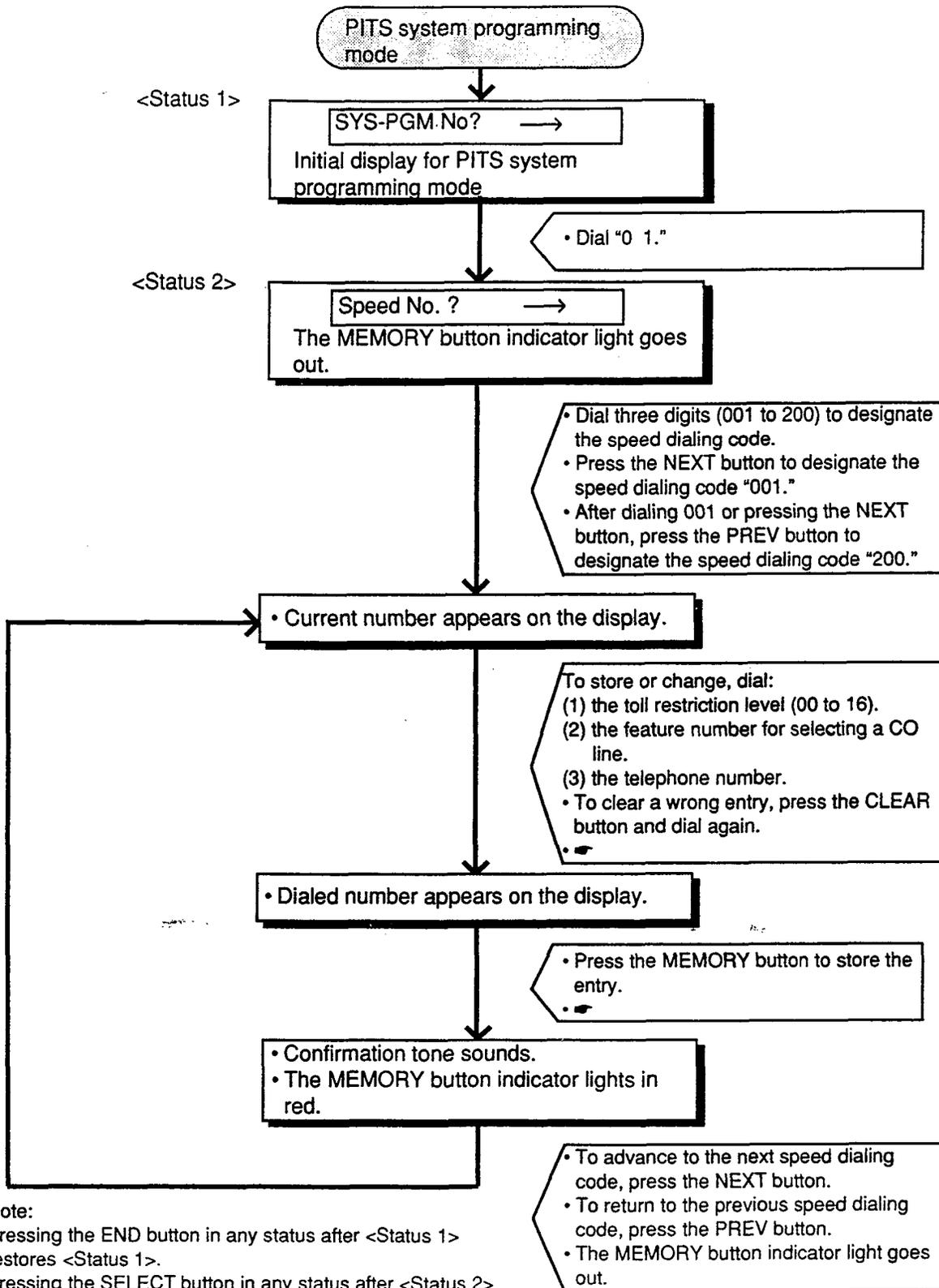
For further information about Speed Dialing feature, refer to Section 4-C-4.02 "Speed Dialing-System."

Operation	Result	Comment/Note
<p>1. Set PITS system programming mode.</p> <p>2. Dial "01." (program number)</p>  <p>3. Dial the appropriate speed dialing code: three digits (001 to 200).</p>  <p>4. Dial the toll restriction level: two digits (00 to 16).</p> 	<ul style="list-style-type: none"> The message below appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block;">SYS-PGM No? →</div> The MEMORY button indicator lights in red. Speed dialing code entry screen appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block;">Speed No? →</div> The MEMORY button indicator light goes out. Current entry for the selected code appears on the display: <Example> <div style="border: 1px solid black; padding: 2px; display: inline-block;">100: 01, 9555-1212</div> 100: Speed dialing code 01 : Toll restriction level 9 : Feature number for selecting the CO line 555-1212 : Telephone number If nothing is stored: <div style="border: 1px solid black; padding: 2px; display: inline-block;">100: Not Stored</div> Dialed digits appear on the display: <Example> <div style="border: 1px solid black; padding: 2px; display: inline-block;">100: 16,</div> 	<ul style="list-style-type: none"> Refer to Section 11-C-1.00 "Entering PITS System Programming Mode." If the NEXT button is pressed, the number for the speed dialing code "001" appears. After the current entry is displayed, pressing the PREV button displays the number of the previous speed dialing code. When Tenant Service is employed,, you can store the speed dialing codes of your tenant. When more than 10 digits are stored, it can be confirmed by scrolling the display with the ← or → button. After dialed number is displayed, " , " appears automatically.

Continued

Operation	Result	Comment/Note
<p>5. Dial the feature number for selecting a CO line and, if necessary, trunk group specifying number (1 to 8).</p> 	<ul style="list-style-type: none"> Dialed number appears on the display: <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">100: 16, 9</div>	<ul style="list-style-type: none"> The feature numbers for selecting a CO line are: <ul style="list-style-type: none"> "ARS/Local CO Line Access" "Trunk Group 01-08 Access" "Trunk Group 09-16 Access" "Trunk Group 17-24 Access"
<p>6. Dial the telephone number.</p> 	<ul style="list-style-type: none"> Dialed number appears on the display: <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">100: 16, 9 5551212</div>	<ul style="list-style-type: none"> Up to 32 digits consisting of the feature number and telephone number can be stored. You can enter : 0 to 9, *, #, Pause, Flash, — (hyphen), SECRET button. If you want to clear a wrong entry, press the CLEAR button and dial again.
<p>7. Press the MEMORY button to store the entry.</p> 	<ul style="list-style-type: none"> The MEMORY button indicator lights in red. Confirmation tone sounds. 	

Operation chart for storing speed dialing



Note:

Pressing the END button in any status after <Status 1> restores <Status 1>. Pressing the SELECT button in any status after <Status 2> restores <Status 2>.

• You can also advance to the next speed dialing code by pressing the NEXT button and return to the previous code by pressing the PREV button.

◀ Operation
 ◻ Result

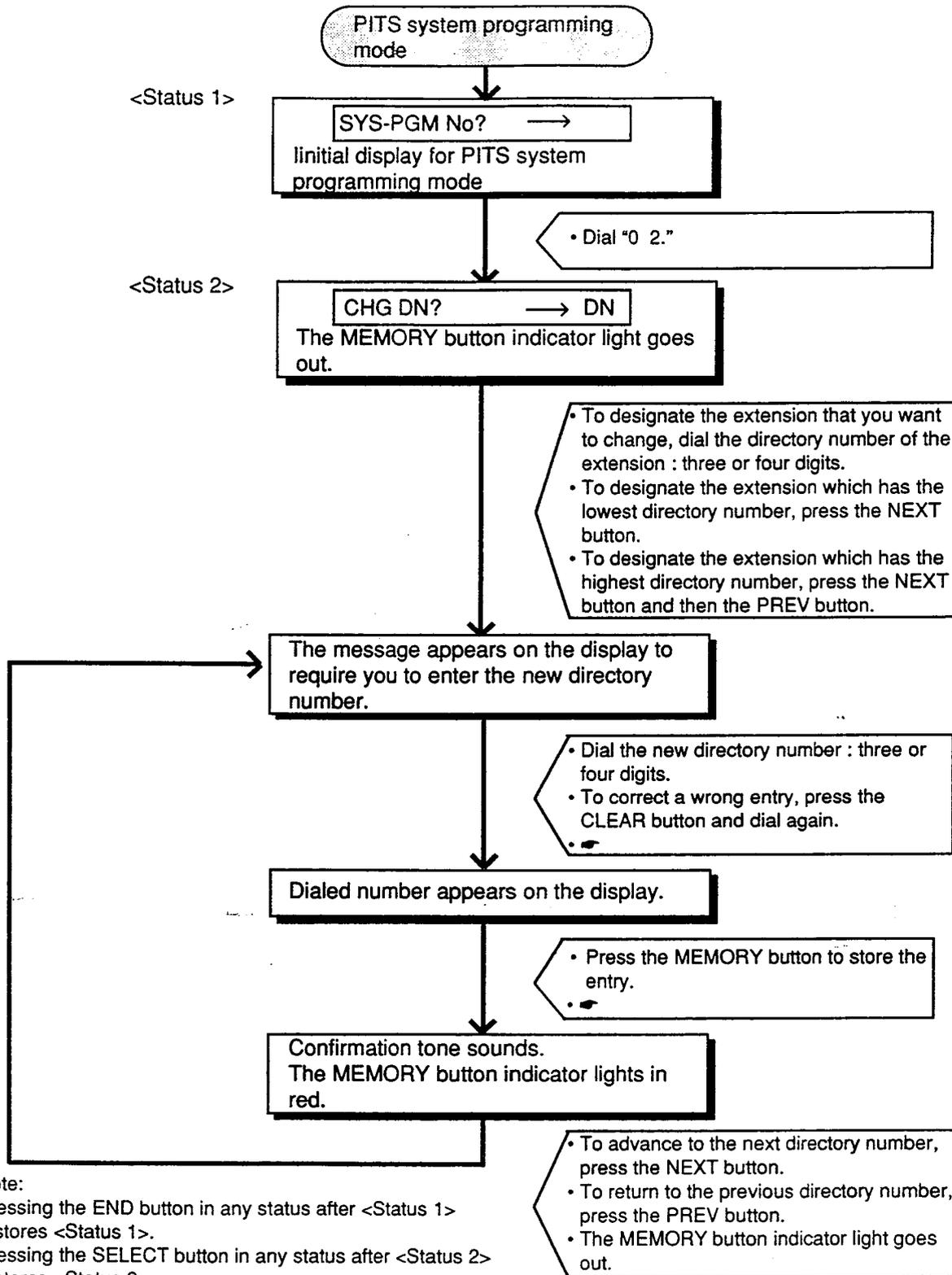
4.00 Changing Extension Number

This is used to change extension directory numbers.
 Before changing Extension Number, please read

the following sub-sections.
 Section 3-B-1.00 "Flexible Numbering"
 Section 3-B-2.00 "Directory Number (DN)"

Operation	Result	Comment/Note												
<p>1. Set PITS system programming mode.</p> <p>2. Dial "0 2." (program number)</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; text-align: center;">OPER 0</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">ABC 2</div> </div>	<ul style="list-style-type: none"> The message below appears on the display: <div style="border: 1px solid black; padding: 2px; text-align: center;">SYS-PGM No? →</div> The MEMORY button indicator lights in red. <p>A message appears on the display, to require you to enter the directory number of the extension that you want to change:</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">CHG DN? → DN</div> <ul style="list-style-type: none"> The MEMORY button indicator light goes out. 	<ul style="list-style-type: none"> Refer to Section 11-C-1.00 "Entering PITS System Programming Mode." 												
<p>3. Dial the directory number of the extension that you want to change : three or four digits.</p> <div style="border: 1px solid black; padding: 2px; text-align: center;"> <table border="1" style="font-size: small;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>MEM</td><td>CLR</td><td>CALL</td></tr> </table> </div>	1	2	3	4	5	6	7	8	9	MEM	CLR	CALL	<ul style="list-style-type: none"> The following message appears on the display and requires you to enter the new directory number. <p><Example></p> <div style="border: 1px solid black; padding: 2px; text-align: center;">DN 100 => DN</div>	
1	2	3												
4	5	6												
7	8	9												
MEM	CLR	CALL												
<p>4. Dial the directory number that you want to set : three or four digits.</p> <div style="border: 1px solid black; padding: 2px; text-align: center;"> <table border="1" style="font-size: small;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>MEM</td><td>CLR</td><td>CALL</td></tr> </table> </div>	1	2	3	4	5	6	7	8	9	MEM	CLR	CALL	<ul style="list-style-type: none"> Newly entered number appears on the display as follows: <div style="border: 1px solid black; padding: 2px; text-align: center;">DN 100 =>DN 2000</div>	<ul style="list-style-type: none"> If you want to correct a wrong entry, press the CLEAR button and dial again.
1	2	3												
4	5	6												
7	8	9												
MEM	CLR	CALL												
<p>5. Press the MEMORY button to store the entry.</p> <div style="border: 1px solid black; padding: 2px; text-align: center;"> <table border="1" style="font-size: small;"> <tr><td colspan="3">AUTO</td></tr> <tr><td colspan="3" style="height: 20px;"></td></tr> <tr><td colspan="3">MEMORY</td></tr> </table> </div>	AUTO						MEMORY			<ul style="list-style-type: none"> The MEMORY button indicator lights in red. Confirmation tone sounds. 	<ul style="list-style-type: none"> If the directory number you are trying to assign is already assigned, you hear alarm tone. 			
AUTO														
MEMORY														

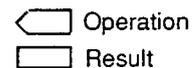
Operation chart for changing extension number



Note:
 Pressing the END button in any status after <Status 1> restores <Status 1>.
 Pressing the SELECT button in any status after <Status 2> restores <Status 2>.

• You can also advance to the next directory number by pressing the NEXT button and return to the previous directory number by pressing the PREV button.

- To advance to the next directory number, press the NEXT button.
- To return to the previous directory number, press the PREV button.
- The MEMORY button indicator light goes out.



5.00 Changing Extension Name

This is used to change extension names.

Operation	Result	Comment/Note																								
<p>1. Set PITS system programming mode.</p> <p>2. Dial "03." (program number)</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; text-align: center;">OPER 0</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">DEF 3</div> </div> <p>3. Dial the directory number of the extension whose name you want to change: three or four digits.</p> <div style="border: 1px solid black; padding: 2px; text-align: center;"> <table border="1" style="font-size: small;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>*</td><td>0</td><td>#</td></tr> </table> </div> <p>4. Dial new name of the extension.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px; text-align: center;"> <table border="1" style="font-size: small;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>*</td><td>0</td><td>#</td></tr> </table> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;"> AUTO ANS MUTE SELECT button </div> </div> <p>5. Press the MEMORY button to store the entry.</p> <div style="border: 1px solid black; padding: 2px; text-align: center;"> AUTO MEMORY </div>	1	2	3	4	5	6	7	8	9	*	0	#	1	2	3	4	5	6	7	8	9	*	0	#	<ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px 0;">SYS-PGM No? →</div> • The MEMORY button indicator lights in red. • A message appears on the display and requires you to enter the directory number of the extension whose name you want to change. <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px 0;">CHG Name? → DN</div> • The MEMORY button indicator light goes out. • Current entry appears: <Example> <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px 0;"># 100: Smith</div> • Dialed name appears on the display: <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px 0;"># 100: Jack</div> • The MEMORY button indicator lights in red. • Confirmation tone sounds. 	<ul style="list-style-type: none"> • Refer to Section 11-C-1.00 "Entering PITS System Programming Mode." • To enter the name, use 0 through 9, *, #, and SELECT button. For further detail, refer to "Registration of extension name" on the next page: • When you dial, dialed number winks one by one on the display.
1	2	3																								
4	5	6																								
7	8	9																								
*	0	#																								
1	2	3																								
4	5	6																								
7	8	9																								
*	0	#																								

Registration of extension name

To enter extension names, use the buttons from "0" to "9," "*" and "#" and the SELECT button. Multiple pressing of the SELECT button select a different column of letters, numbers or special characters.

For instance, dialing "1" and pressing the SELECT button once give the letter "Q." Dialing "1" and pressing the SELECT button twice give the letter "q," and so on.

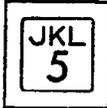
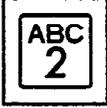
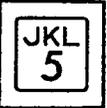
Combination Table

Pressing "SELECT" (Times)	Dial						
	0	1	2	3	4	5	6
Dial 1	1	Q	q	Z	z	!	?
Dial 2	2	A	a	B	b	C	c
Dial 3	3	D	d	E	e	F	f
Dial 4	4	G	g	H	h	I	i
Dial 5	5	J	j	K	k	L	l
Dial 6	6	M	m	N	n	O	o
Dial 7	7	P	p	R	r	S	s
Dial 8	8	T	t	U	u	V	v
Dial 9	9	W	w	X	x	Y	y
Dial 0	0		.	,	'	:	;
Dial *	*	"	+	-	=	<	>
Dial #	#	\$	%	&	@	()

<Example>

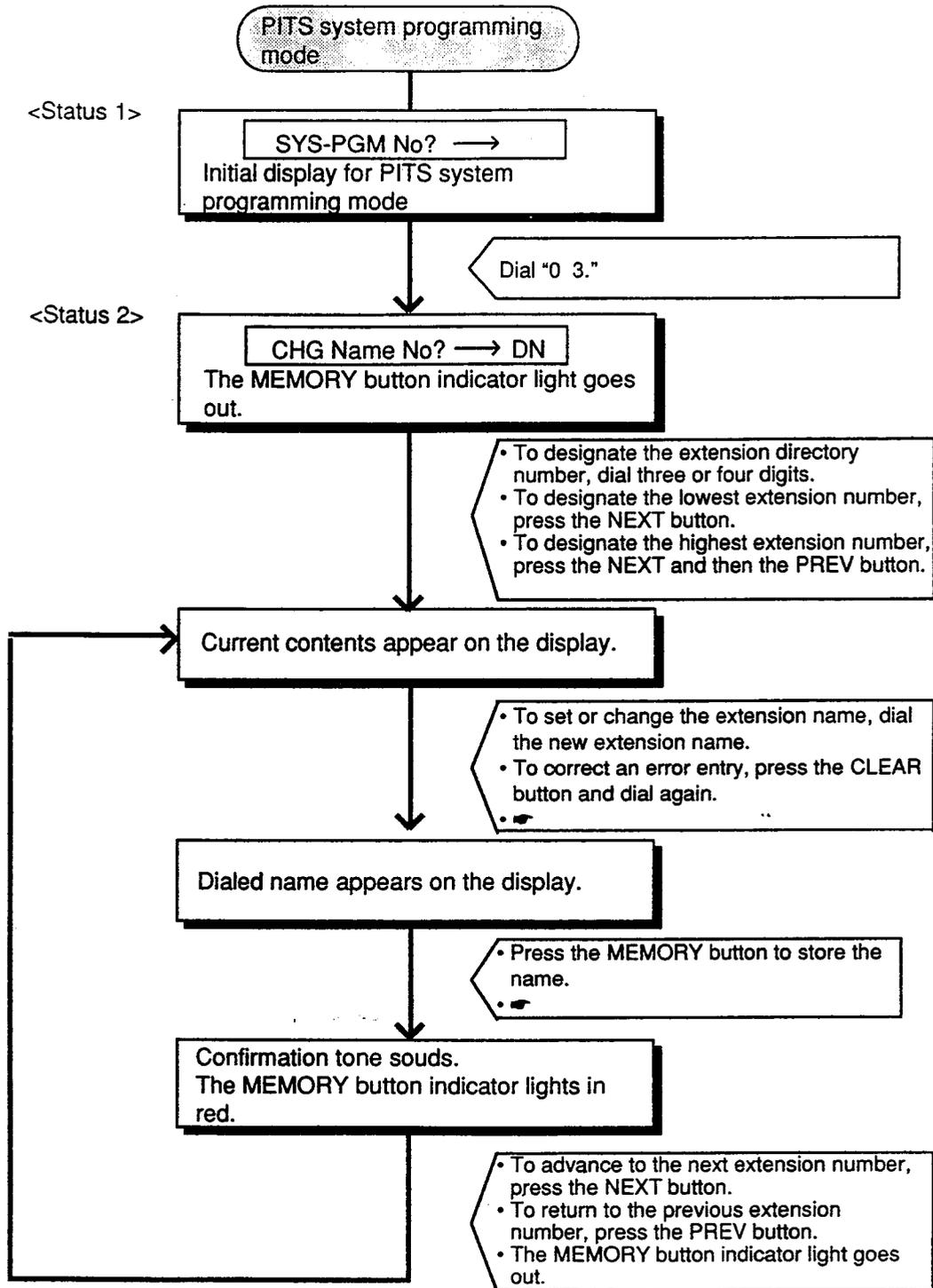
Here is an example of changing a name to "Jack" at step 4 on the previous page.

Refer to Combination Table at left.

Operation	Display Resulted
1. Dial "5."	# 100: 5
	
2. Press the SELECT (AUTO ANS/MUTE) button once.	Gives the letter "J."
	# 100: J
3. Dial "2."	# 100: J2
	
4. Press the SELECT (AUTO ANS/MUTE) button twice.	Gives the letter "a."
	# 100: Ja
5. dial "2."	# 100: Ja 2
	
6. Press the SELECT (AUTO ANS/MUTE) button six times.	Gives the letter "c."
	# 100: Jac
7. Dial "5."	# 100: Jac 5
	
8. Press the SELECT (AUTO ANS/MUTE) button four times.	Gives the letter "k."
	# 100: Jack

Now "Jack" is entered.

Operation chart for changing extension name



Note:

Pressing the END button in any status after <Status 1> restores <Status 1>.

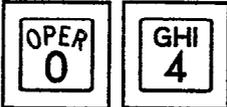
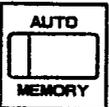
Pressing the SELECT button in any status after <Status 2> restores <Status 2>.

- You can also advance to the next extension number by pressing the NEXT button and return to the previous extension number by pressing the PREV button.

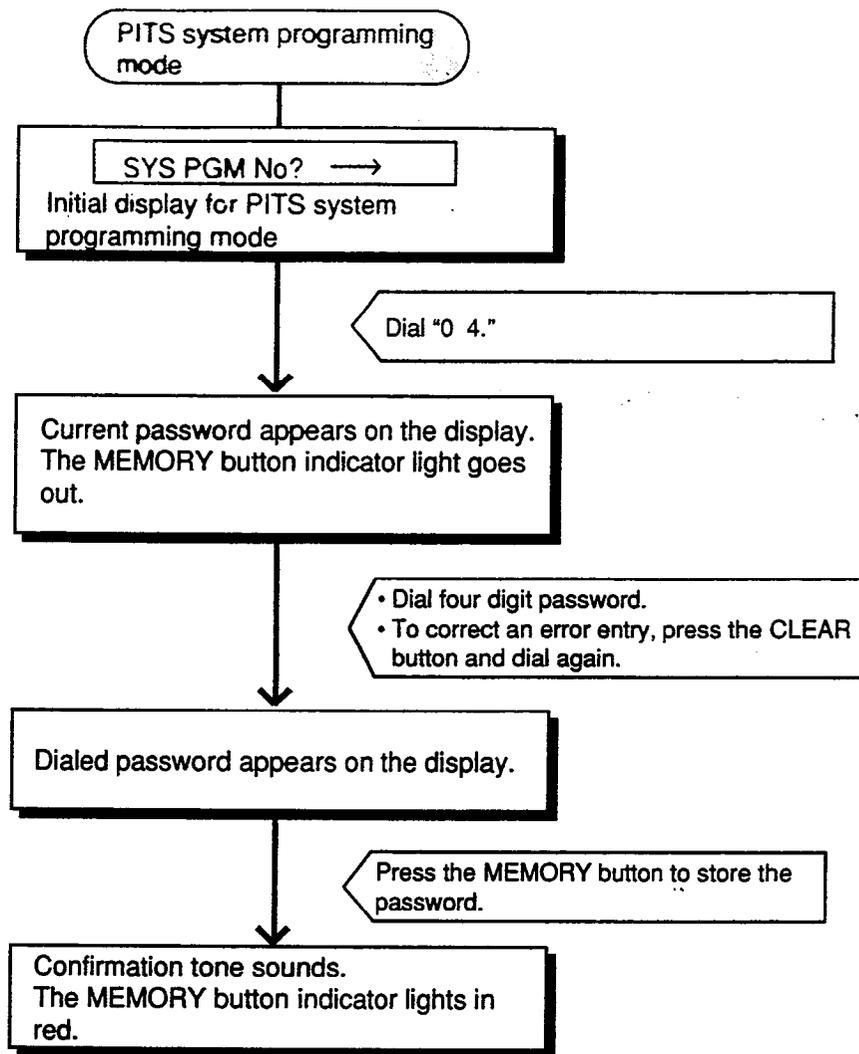
◁ Operation
 □ Result

6.00 Changing PITS Programming Password

The following operation is used to change the PITS programming password which is required to enter into PITS system programming mode.

Operation	Result	Comment/Note
<p>1. Set PITS system programming mode.</p> <p>2. Dial "0 4." (program number)</p>  <p>3. Dial new password: four digits.</p>  <p>4. Press the MEMORY button to store the entry.</p> 	<ul style="list-style-type: none"> The message appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">SYS-PGM No? →</div> The MEMORY button indicator lights in red. Current password appears on the display. <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">System PW: 1111</div> The MEMORY button indicator light goes out. Dialed password appears on the display. <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">System PW: 5555</div> The MEMORY button indicator lights in red. Confirmation tone sounds. 	<ul style="list-style-type: none"> Refer to Section 11-C-1.00 "Setting PITS System Programming Mode." Values from 0 to 9, *, # can be entered.

Operation chart for changing PITS programming password

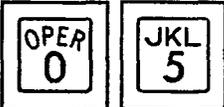
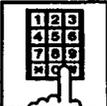
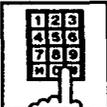
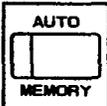


Note:
Pressing the END button in PITS system programming mode restores the Initial display for PITS system programming mode.

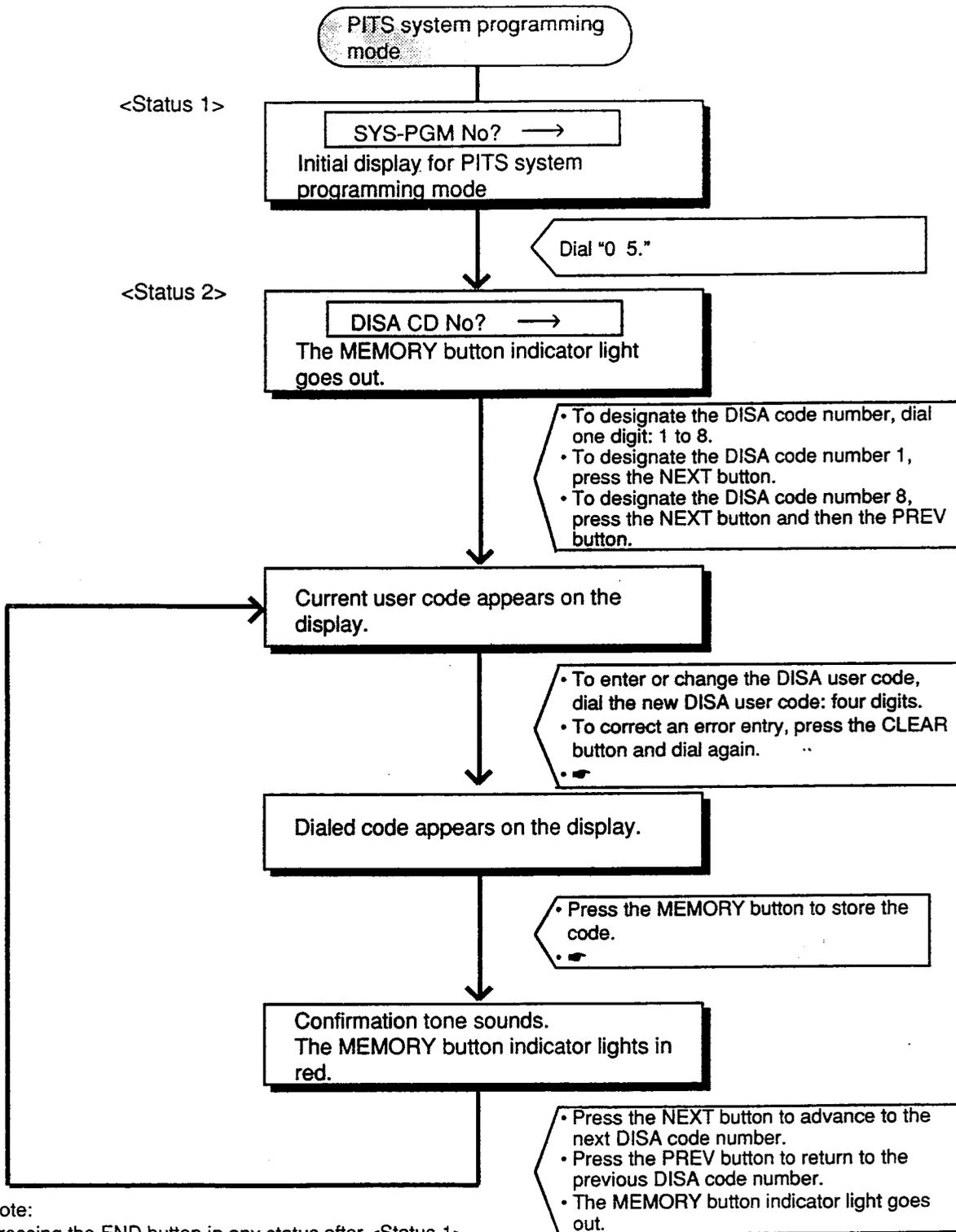
7.00 Changing DISA User Code

This is used to change the DISA user code.
For further information about DISA feature, refer

to Section 3-D-2.02 "Direct Inward System
Access (DISA)."

Operation	Result	Comment/Note
<p>1. Set PITS system programming mode.</p> <p>2. Dial "0 5." (program number)</p>  <p>3. Dial DISA code number (1 to 8).</p>  <p>4. Dial DISA user code: four digits.</p>  <p>5. Press the MEMORY button to store the code.</p> 	<ul style="list-style-type: none"> The following message appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block;">SYS-PGM No? →</div> The MEMORY button indicator lights in red. A message appears on the display and requires you to enter the DISA code number: <div style="border: 1px solid black; padding: 2px; display: inline-block;">DISA CD No? →</div> The MEMORY button indicator light goes out. Current user code of the selected DISA code number appears on the display: <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">USR CD 8 : 1234</div> <p>8 : DISA code number 1234 : DISA user code</p> If nothing is stored: <div style="border: 1px solid black; padding: 2px; display: inline-block;">USR CD 8 :</div> Dialed digits appear on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block;">USR CD 8 : 5555</div> The MEMORY button indicator lights in red. Confirmation tone sounds. 	<ul style="list-style-type: none"> Refer to Section 11-C-1.00 "Entering PITS System Programming Mode." Digits 0 through 9 can be entered as the DISA user code.

Operation chart for changing DISA user code



Note:
 Pressing the END button in any status after <Status 1> restores <Status 1>.
 Pressing the SELECT button in any status after <Status 2> restores <Status 2>.
 • You can also advance to the next DISA code number by pressing the NEXT button and return to the previous DISA code number by pressing the PREV button.

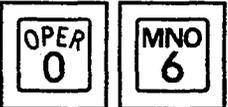
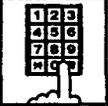
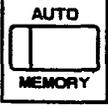
◁ Operation
 ▭ Result

8.00 Changing Walking COS Password

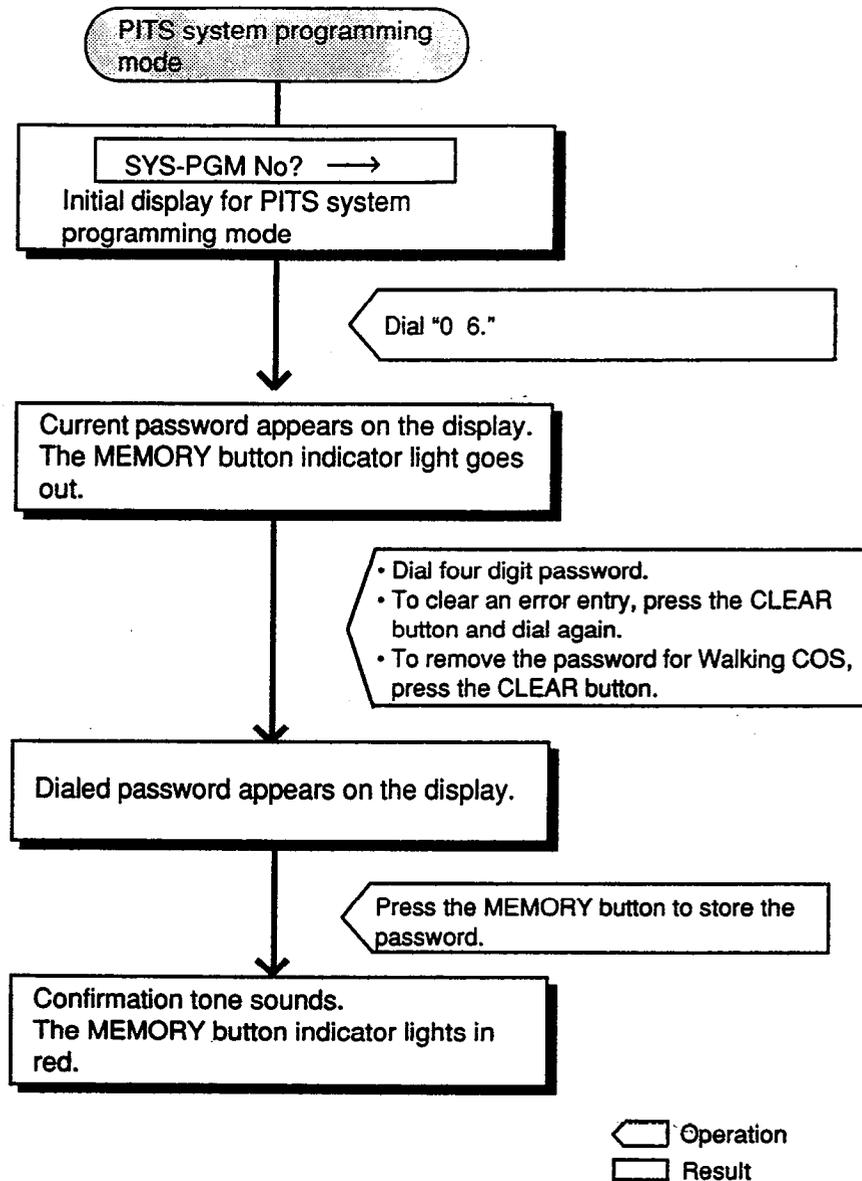
This is used to change the walking COS password for performing Walking COS.

For further information about Walking COS, refer to

Section 4-C-9.00 "Walking COS (Class of Service)."

Operation	Result	Comment/Note
<p>1. Set PITS system programming mode.</p> <p>2. Dial "0 6." (program number)</p>  <p>3. Dial new password: four digits.</p>  <p>4. Press the MEMORY button to store the newly dialed password.</p> 	<ul style="list-style-type: none"> The message appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px 0;">SYS-PGM No ? →</div> The MEMORY button indicator lights in red. Current password appears on the display: <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px 0;">Walk PW: 1111</div> The MEMORY button indicator light goes out. Dialed password appears on the display: <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px 0;">Walk PW: 5555</div> The MEMORY button indicator lights in red. Confirmation tone sounds. 	<ul style="list-style-type: none"> Refer to Section 11-C-1.00 "Entering PITS System Programming Mode." Values from 0 to 9, *, # can be entered for the password.

Operation chart for changing Walking COS password



Note:

Pressing the END button in PITS system programming mode restores the Initial display for PITS system programming mode.

Section 12

Station Programming

Proprietary Integrated Telephone System (PITS)

(Section 12)

Station Programming

Proprietary Integrated Telephone System (PITS)

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5.00 Automatic Answering Selection	12-C-18
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A. Introduction

Description

This section provides information for the programming of various features unique to each PITS telephone and DSS console in PITS station programming mode.

The assignable features are:

- 1) Assigning DN (Directory Number) Buttons
- 2) Assigning PF (Programmable Feature) Buttons on PITS and DSS console
- 3) Assigning DSS (Direct Station Selection) Buttons on PITS and DSS console
- 4) Automatic Line Hunting (Calling) Selection
- 5) Automatic Answering Selection
- 6) Call Waiting Tone Selection
- 7) Confirmation of Directory Number/Port Number
- 8) PITS Automatic Test

Note:

The assignment of PF and DSS buttons on the DSS console can be done using the associated PITS telephone.

In the programming procedures described in Section 12-C-2.00 "PF Button Assignment" and 12-C-3.00 "DSS Button Assignment," press a PF or DSS button on the DSS console instead of pressing a PF or DSS button on the PITS telephone.

Refer to Section 4-B-2.00 "Assignable Feature Buttons" for further information about features assignable to DN buttons, PF buttons and DSS buttons.

Conditions

If the programming data of your PITS is already accessed by another administration device, the following message appears on the display:

Already Accessed

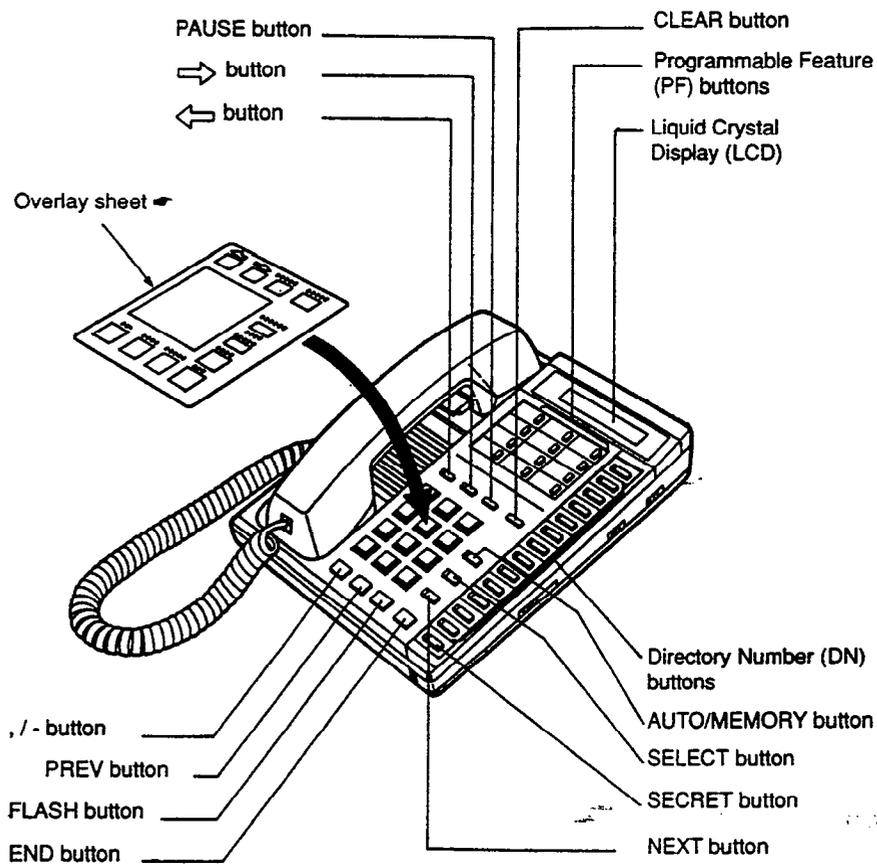
PITS station programming can be done at any extension simultaneously.

Be sure the handset is on the cradle and the SP-PHONE button is off. If it is off-hook or the speaker-phone is on, PITS programming mode is not established even if the MEMORY switch is set to the "PROGRAM" side.

B. Function of PITS Buttons in PITS Programming

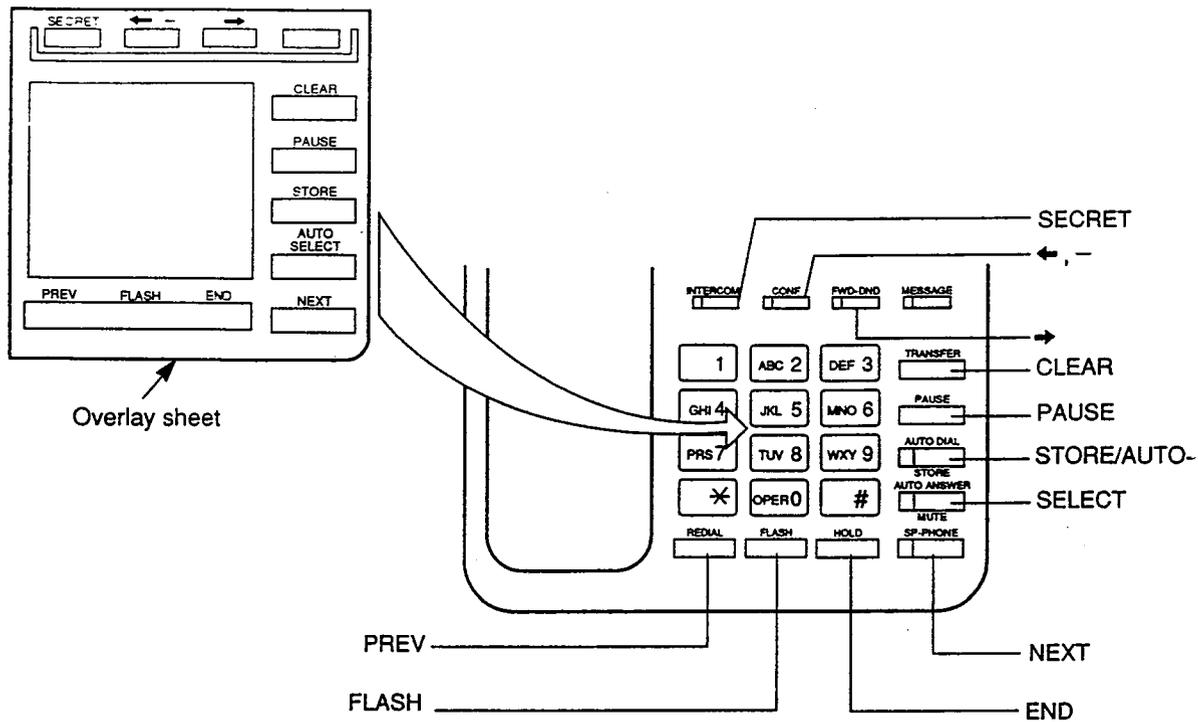
In PITS system and PITS station programming modes, the functions of the buttons are changed as illustrated below:

- For users with PITS type 30 (KX-T30830, KX-T61630, KX-T123230D, KX-T123230, KX-T123235);

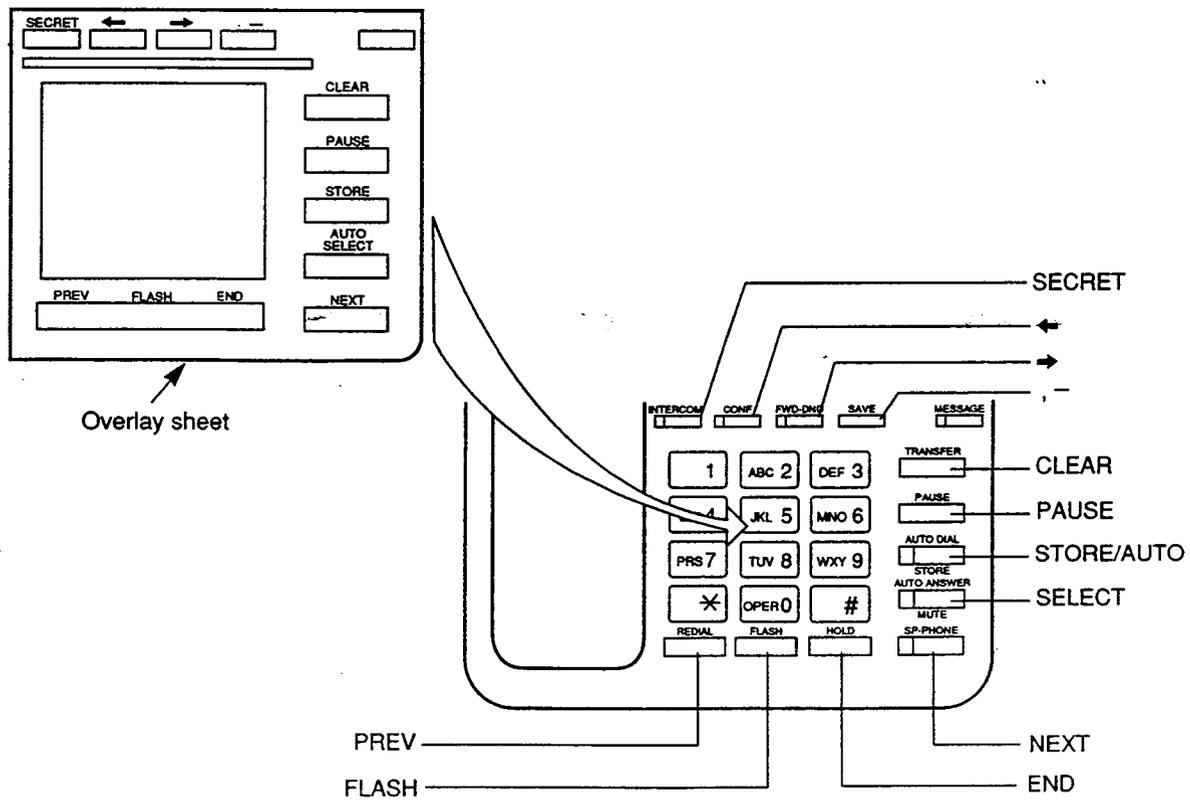


- For the convenience of PITS system/station programming, function names for programming are printed on the overlay sheet. This sheet is provided for PITS telephone equipped with display.

- For users with PITS Model. KX-T7030.



- For users with PITS Model. KX-T7130.

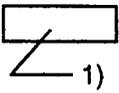
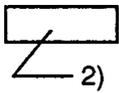
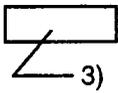


C. Operation

Introduction

Procedures for performing PITS station programming are described in tables and operation charts.

The tables show the procedures in the following form:

Operation	Result	Comment/Note
 1)	 2)	 3)

- 1) Describes actual operation.
- 2) Shows the result from the operation.
- 3) Comment or note on the operation.

Operation charts are attached to the tables to help you to understand the flow.

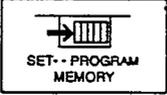
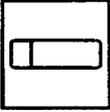
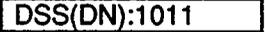
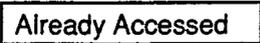
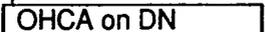
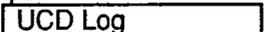
Note:

The procedures in this section are described from the viewpoint of type 30 PITS telephone users. If KX-T7030 or KX-T7130 is used in PITS station programming mode, press the STORE button instead of MEMORY button.

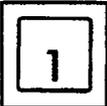
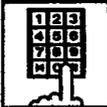
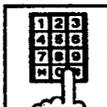
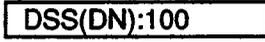
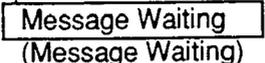
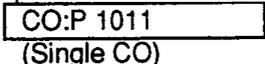
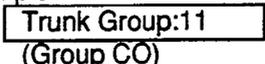
1.00 DN (Directory Number) Button Assignment

Assigning various features to the DN buttons of individual PITS telephone is explained here.

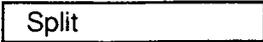
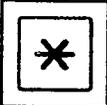
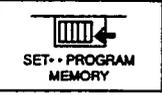
The explanation of the message display applies only to a PITS with the display.

Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p>  <p>2. Press the appropriate DN button.</p> 	<ul style="list-style-type: none"> The following message appears on the display:  The MEMORY button indicator lights in red. <ul style="list-style-type: none"> Previously stored data appears on the display: <Example>  The MEMORY button indicator light goes out and the associated DN button indicator lights in red. If nothing is entered within one minute after pressing the DN button, "Initial display for PITS station programming mode" is displayed again. 	<ul style="list-style-type: none"> This status is called "initial display for PITS station programming mode." If the programming data of your PITS has already been accessed by another administration device, the following message appears on the display.  From now on in any status, pressing the END button restores this status. When the following messages appears on the display, changing the assigned feature is impossible in this mode, and can be changed only by the system programming. <ul style="list-style-type: none"> <Example>  (Primary Directory Number) <Example>  (Secondary Directory Number) <Example>  (Private CO) <Example>  (Off-Hook Call Announcement) <Example>  (UCD Log in) <Example>  (Local Alarm)

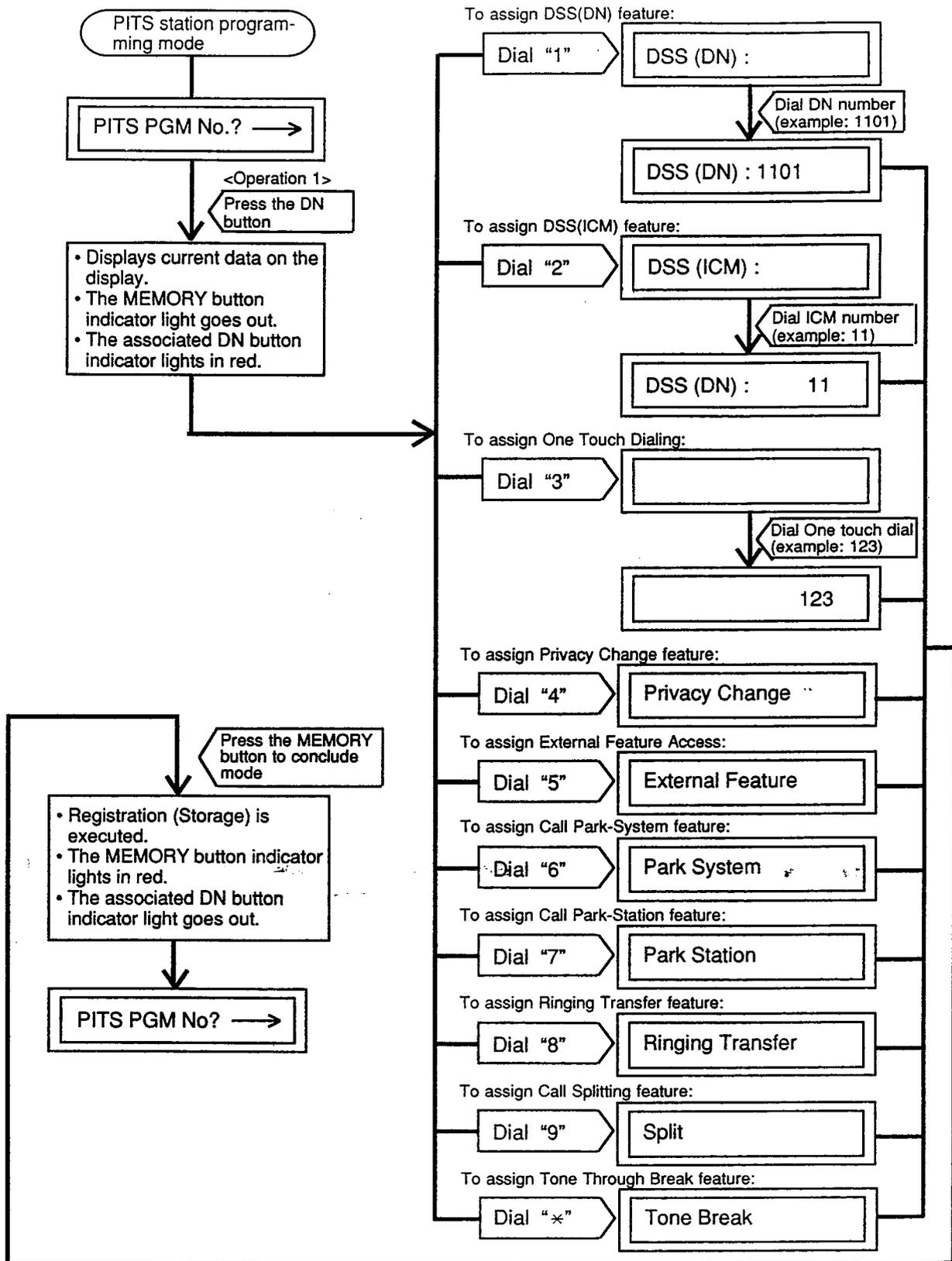
Continued

Operation	Result	Comment/Note
<p>3. To change the preset feature, dial the program number corresponding to the desired feature.</p> <ul style="list-style-type: none"> To assign DSS (DN) feature, <ol style="list-style-type: none"> Dial "1."  <ol style="list-style-type: none"> Dial a directory number (three or four digits).  To assign DSS (ICM) feature, <ol style="list-style-type: none"> Dial "2."  <ol style="list-style-type: none"> Dial an ICM number (one or two digit(s)).  	<p>1) The following message appears on the display.</p>  <p>2) The dialed number appears on the display.</p> <p><Example></p>  <p>1) The following message appears on the display.</p>  <p>2) The dialed number appears on the display.</p> <p><Example></p> 	<p><Example></p>  <p><Example></p>  <p><Example></p>  <ul style="list-style-type: none"> If no feature is assigned to the DN button, the following message appears on the display :  <ul style="list-style-type: none"> If the dialed number does not exist as a directory number, alarm tone sounds. If you want to clear a wrong entry, press the CLEAR button and dial the correct number. If the dialed number does not exist as an ICM number, alarm tone sounds. If you want to clear a wrong entry, press the CLEAR button and dial the correct number.

Operation	Result	Comment/Note
<ul style="list-style-type: none"> To assign One Touch Dialing feature, <ol style="list-style-type: none"> Dial "3," <div style="border: 1px solid black; padding: 5px; text-align: center;">DEF 3</div> Dial a telephone number or a feature number. <div style="border: 1px solid black; padding: 5px; text-align: center;">1 2 3 4 5 6 7 8 9 * 0 #</div> 	<ol style="list-style-type: none"> No message appears on the display: <div style="border: 1px solid black; height: 20px; width: 100%;"></div> The following message appears on the display: <Example 1> when dialing a telephone number: <div style="border: 1px solid black; padding: 2px;">1 2 3 4 5 6</div> <Example 2> when dialing a feature number: <div style="border: 1px solid black; padding: 2px;">01</div> 	<ul style="list-style-type: none"> Refer to Section 4-C-4.01 "One Touch Dialing" for further information . Up to 16 digits can be entered. If you want to clear a wrong entry, press the CLEAR button and dial the correct number.
<ul style="list-style-type: none"> To assign Privacy Change feature, dial "4." <div style="border: 1px solid black; padding: 5px; text-align: center;">GHI 4</div> 	<p>The following message appears on the display:</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Privacy Change</div>	<ul style="list-style-type: none"> Privacy Change feature is assignable to only one button among DN buttons and DSS buttons. Refer to Section 4-G-2.00 "Privacy Release" and Section 4-G-3.00 "Privacy Attach" for further information about Privacy Change feature.
<ul style="list-style-type: none"> To assign External Feature Access feature, dial "5." <div style="border: 1px solid black; padding: 5px; text-align: center;">JKL 5</div> 	<p>The following message appears on the display:</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">External Feature</div>	<ul style="list-style-type: none"> Refer to Section 4-G-9.00 "External Feature Access" for further information .
<ul style="list-style-type: none"> To assign Call Park-System feature, dial "6." <div style="border: 1px solid black; padding: 5px; text-align: center;">MNO 6</div> 	<p>The following message appears on the display:</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Park System</div>	<ul style="list-style-type: none"> Refer to Section 4-E-5.01 "Call Park-System" for further information .
<ul style="list-style-type: none"> To assign Call Park-Station feature, dial "7." <div style="border: 1px solid black; padding: 5px; text-align: center;">PRS 7</div> 	<p>The following message appears on the display:</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Park Station</div>	<ul style="list-style-type: none"> Refer to Section 4-E-5.02 "Call Park-Station " for further information .
<ul style="list-style-type: none"> To assign Ringing Transfer feature, dial "8." <div style="border: 1px solid black; padding: 5px; text-align: center;">TUV 8</div> 	<p>The following message appears on the display:</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Ringing Transfer</div>	<ul style="list-style-type: none"> Refer to Section 4-F-1.04 "Ringing Transfer" for further information.

Operation	Result	Comment/Note
<ul style="list-style-type: none"> To assign Call Splitting feature, dial "9." 	<p>The following message appears on the display:</p> 	<ul style="list-style-type: none"> Refer to Section 4-E-6.00 "Call Splitting" for further information.
<ul style="list-style-type: none"> To assign Tone Through Break feature, dial "∗." 	<p>The following message appears on the display:</p> 	<ul style="list-style-type: none"> Refer to Section 4-G-12.00 "Tone Through (End to End DTMF Signaling)" for further information.
<p>4. Press the MEMORY button to store the assignment.</p>	<ul style="list-style-type: none"> The MEMORY button indicator lights in red. The associated DN button indicator light goes out. Confirmation tone sounds. "Initial display for PITS station programming mode" is displayed again. 	
		
<p>5. To conclude the "PITS station programming mode," slide the MEMORY switch to "SET."</p> 	<ul style="list-style-type: none"> PITS station programming mode is concluded and returns to the operation mode. 	

--Operation Chart--

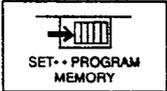
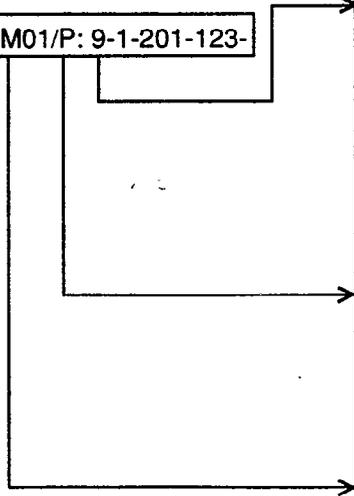


Note : In any status, pressing the END key restores <STATUS 1>.

2.00 PF (Programmable Feature) Button Assignment

Assigning various functions to the PF buttons of the individual PITS telephone and DSS Console is explained here.

The explanation of the message display applies only to a PITS provided with the display.

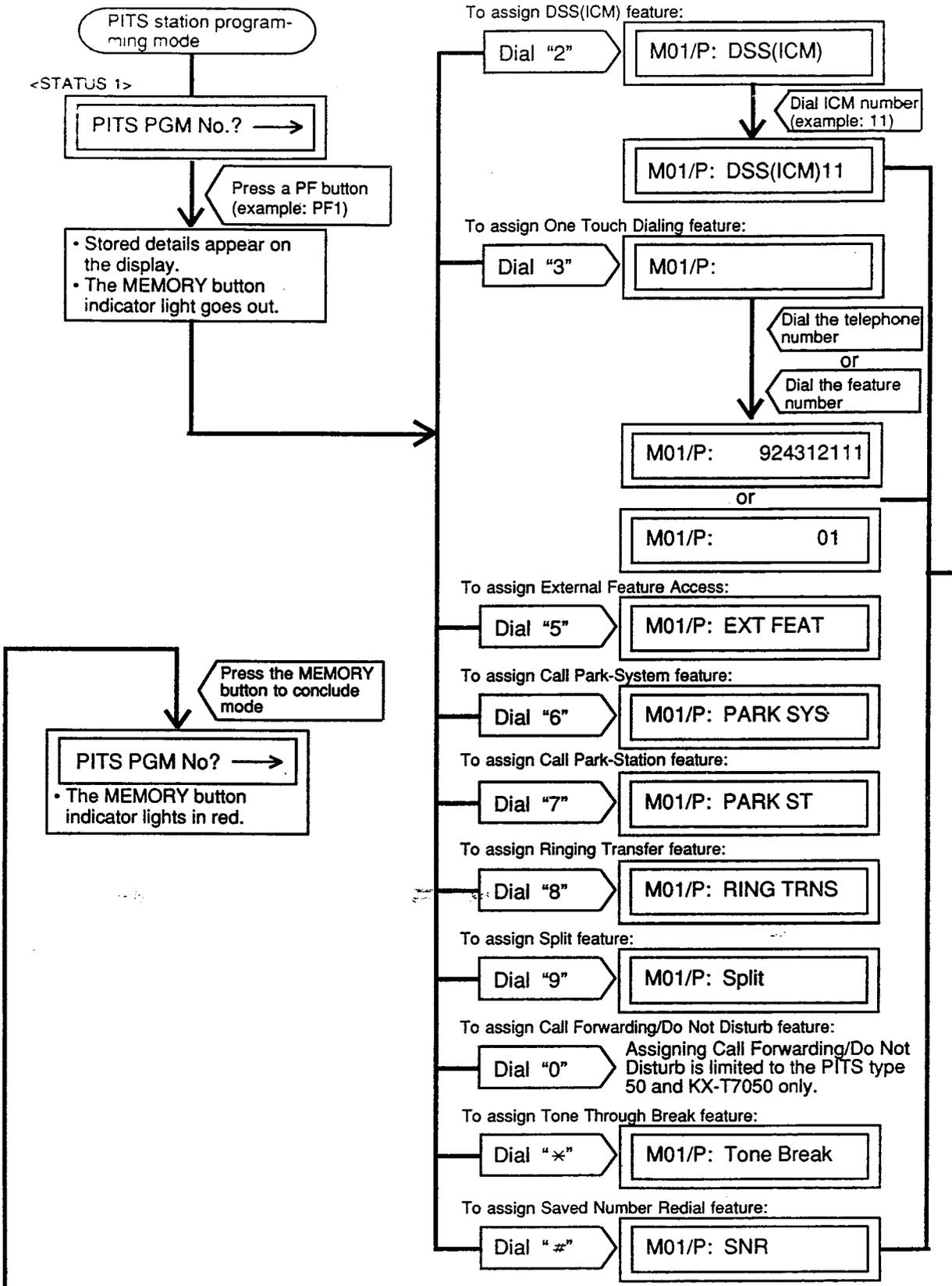
Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p> 	<ul style="list-style-type: none"> The following message appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">PITS-PGM No.?→</div> <ul style="list-style-type: none"> The MEMORY button indicator lights in red. 	<ul style="list-style-type: none"> This display is called "Initial display for PITS station programming mode." From now on in any status, pressing the END button restores this status. If the programming data of your PITS has already been accessed by another administration device, the following message appears on the display. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">Already Accessed</div>
<p>2. Press a PF button.</p> 	<ul style="list-style-type: none"> Previously stored data appears on the display. <p><Example> If preset to one touch dialing button</p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">M01/P: 9-1-201-123-</div>  <ul style="list-style-type: none"> The MEMORY button indicator light goes out. 	<ul style="list-style-type: none"> Stored data as one touch dialing. If nothing is stored, "Not Stored" appears. To scroll, use the ← or → button. <p>(Note)</p> <ul style="list-style-type: none"> "P" means PF button of the PITS. If PF button on DSS console associated with PITS is pressed, "C" appears instead of "P." PF button number. If nothing is entered within one minute after pressing a PF button, "Initial display for PITS station programming mode" is displayed again.

Continued

Operation	Result	Comment/Note
<p>3. To change the previously stored data, dial the program number corresponding to the desired feature.</p> <ul style="list-style-type: none"> • To assign DSS(ICM) feature, <ol style="list-style-type: none"> 1) Dial "2." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px 0;"> ABC 2 </div> 2) Dial ICM number (one or two digit(s)). <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px 0;"> 123 456 789 *0# </div> • To assign One Touch Dialing feature, <ol style="list-style-type: none"> 1) Dial "3." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px 0;"> DEF 3 </div> 2) Dial a telephone number or a feature number. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px 0;"> 123 456 789 *0# </div> • To assign External Feature Access, dial "5." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px 0;"> JKL 5 </div> • To assign Call Park-System feature, dial "6." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px 0;"> MNO 6 </div> • To assign Call Park-Station feature, dial "7." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px 0;"> PRS 7 </div> 	<ol style="list-style-type: none"> 1) The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : DSS(ICM) </div> 2) The following message appears on the display: <p style="margin-left: 20px;"><Example></p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : DSS(ICM)11 </div> 1) The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : </div> 2) The following message appears on the display: <p style="margin-left: 20px;"><Example> when entering a telephone number:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : 9123456 </div> <p style="margin-left: 20px;"><Example> when entering a feature number:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : 01 </div> • The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : EXT FEAT </div> • The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : PARK SYS </div> • The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;"> M01/P : PARK ST </div> 	<ul style="list-style-type: none"> • If the dialed number does not exist as an ICM number, alarm tone sounds. • If you want to clear a wrong entry, press the CLEAR button and dial the correct number. • Up to 16 digits can be stored. • You can enter: 0 to 9, *, #, Pause, Flash, - (hyphen), SECRET. • If you want to clear a wrong entry, press the CLEAR button and dial the correct number.

Operation	Result	Comment/Note
<ul style="list-style-type: none"> • To assign Ringing Transfer feature, dial "8." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">TUV 8</div> <ul style="list-style-type: none"> • To assign Call Splitting feature, dial "9." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">WXY 9</div> <ul style="list-style-type: none"> • To assign Call Forwarding /Do Not Disturb (FWD/DND) feature, dial "0." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">OPER 0</div> <ul style="list-style-type: none"> • To assign Tone Through Break feature, dial "*." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">*</div> <ul style="list-style-type: none"> • To assign Saved Number Redial (SNR) feature, dial "#." <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">#</div> <p>4. Press the MEMORY button to store the assignment.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> <div style="text-align: center;">AUTO</div> <div style="border: 1px solid black; width: 20px; height: 10px; margin: 0 auto;"></div> <div style="text-align: center;">MEMORY</div> </div> <p>5. To conclude PITS station programming mode, slide the MEMORY switch on the PITS to "SET."</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">  </div>	<ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">M01/P : RING TRNS</div> <ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">M01/P : Split</div> <ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">M01/P : Tone Break</div> <ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">M01/P : SNR</div> <ul style="list-style-type: none"> • The MEMORY button indicator lights in red. • Confirmation tone sounds. • "Initial display for PITS station programming mode" is displayed again. • PITS station programming mode is concluded and returns to operation mode. 	<ul style="list-style-type: none"> • This feature is assignable only to the PF3 button of PITS type 50. Refer to Section 4-A-2.01 "Location of Feature Buttons" for further information. • This feature is assignable only to the PF1 button of PITS type 50, KX-T7020 and KX-T7030.

--Operation Chart--

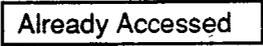
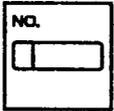
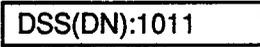
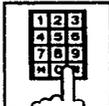
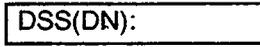
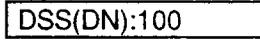


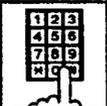
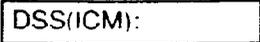
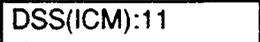
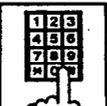
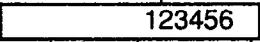
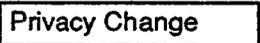
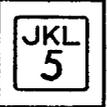
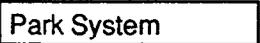
Note : In any status, pressing the END key restores <STATUS 1>.

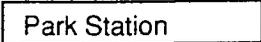
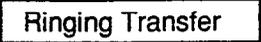
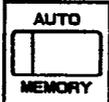
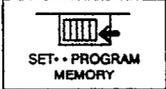
3.00 DSS (Direct Station Selection) Button Assignment

Assigning various functions to the DSS buttons on the KX-T30830 type PITS telephone and DSS console is explained here.

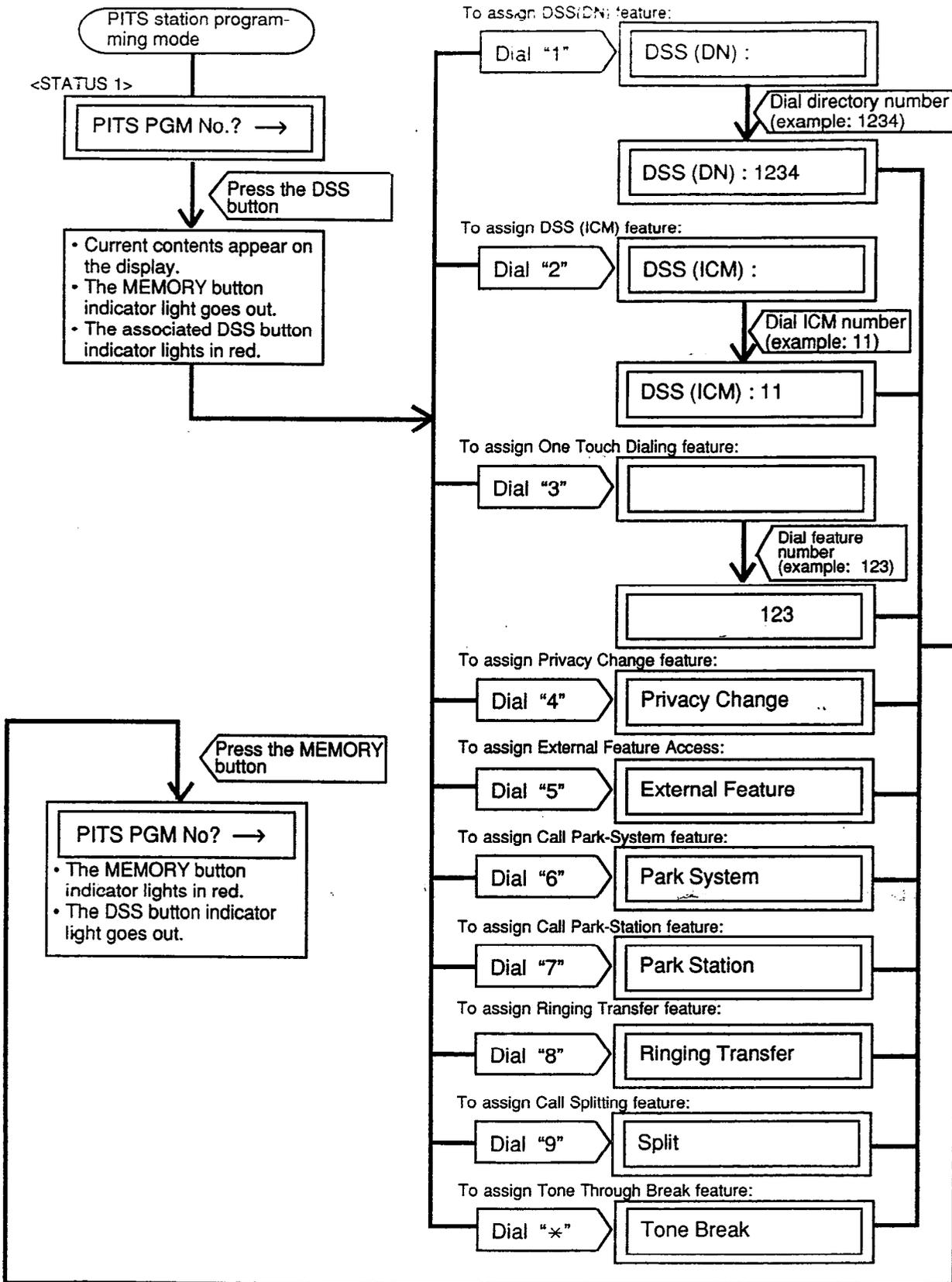
The explanation of the message display applies only to a PITS provided with the display.

Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p> 	<ul style="list-style-type: none"> The following message appears on the display:  The MEMORY button indicator lights in red. 	<ul style="list-style-type: none"> This status is called "initial display for PITS station programming mode." If the programming data of your PITS has already been accessed by another administration device, the following message appears on the display.  From now on in any status, pressing the END button restores this status.
<p>2. Press a DSS button.</p> 	<ul style="list-style-type: none"> Previously stored data appears on the display. <Example> If DSS(DN) feature is assigned:  The MEMORY button indicator light goes out. The associated DSS button indicator lights. 	<ul style="list-style-type: none"> If the following message appears, Message Waiting feature is already assigned and changing the feature in this mode is impossible.  If nothing is entered within one minute after pressing a DSS button, "Initial display for PITS station programming mode" is shown on the display again.
<p>3. To change the stored data, dial the program number corresponding to the desired feature.</p> <ul style="list-style-type: none"> To assign DSS (DN) feature, <ol style="list-style-type: none"> Dial "1."  <ol style="list-style-type: none"> Dial a directory number (three or four digits).  	<ol style="list-style-type: none"> The following message appears on the display:  The dialed directory number appears on the display: <Example>  	<ul style="list-style-type: none"> If the dialed number does not exist as a directory number, alarm tone sounds when MEMORY button is pressed. To clear an error entry, press the CLEAR button and dial the correct number.

Operation	Result	Comment/Note
<ul style="list-style-type: none"> To assign DSS (ICM) feature, <ol style="list-style-type: none"> Dial "2."  <ol style="list-style-type: none"> Dial ICM number (one or two digit(s)).  	<ol style="list-style-type: none"> The following message appears on the display:  The dialed ICM number appears on the display:  	<ul style="list-style-type: none"> If the dialed number does not exist as an ICM number, alarm tone sounds when MEMORY button is pressed. If you want to clear a wrong entry, press the CLEAR button and dial the correct number.
<ul style="list-style-type: none"> To assign One Touch Dialing feature, <ol style="list-style-type: none"> Dial "3."  <ol style="list-style-type: none"> Dial a telephone number or a feature number.  	<ol style="list-style-type: none"> No message appears on the display:  The following message appears on the display: <Example 1> when entering a telephone number:  <Example 2> when entering a feature number:  	<ul style="list-style-type: none"> Up to 16 digits can be stored. If you want to clear a wrong entry, press the CLEAR button and dial the correct number.
<ul style="list-style-type: none"> To assign Privacy Change feature, dial "4." 	<ul style="list-style-type: none"> The following message appears on the display:  	<ul style="list-style-type: none"> Privacy Change feature is assignable to only one button among DSS buttons and DN buttons.
<ul style="list-style-type: none"> To assign External Feature Access, dial "5." 	<ul style="list-style-type: none"> The following message appears on the display:  	
<ul style="list-style-type: none"> To assign Call Park-System feature, dial "6." 	<ul style="list-style-type: none"> The following message appears on the display:  	

Operation	Result	Comment/Note
<ul style="list-style-type: none"> To assign Call Park-Station feature, dial "7." 	<ul style="list-style-type: none"> The following message appears on the display: 	
<ul style="list-style-type: none"> To assign Ringing Transfer feature, dial "8." 	<ul style="list-style-type: none"> The following message appears on the display: 	
<ul style="list-style-type: none"> To assign Call Splitting feature, dial "9." 	<ul style="list-style-type: none"> The following message appears on the display: 	
<ul style="list-style-type: none"> To assign Tone Through Break feature, dial "*." 	<ul style="list-style-type: none"> The following message appears on the display: 	
<p>4. Press the MEMORY button to store the assignment.</p> 	<ul style="list-style-type: none"> The MEMORY button indicator lights in red. The associated DSS button indicator light goes out. Confirmation tone sounds. "Initial display for PITS station programming mode" is shown on the display. 	
<p>5. To conclude PITS station programming mode, slide the MEMORY switch to "SET."</p> 	<ul style="list-style-type: none"> PITS station programming mode is concluded and returns to the operation mode. 	

--Operation Chart--



Note : In any status, pressing END key restores <STATUS 1>.

4.00 Automatic Line Hunting (Calling) Selection

This feature automatically connects a PITS telephone to a pre-assigned line when an extension user lifts the handset or press the SP-PHONE to make calls.

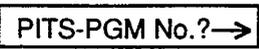
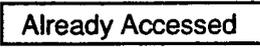
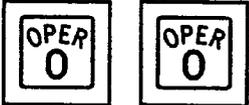
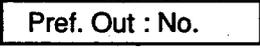
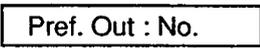
There are two options by which an extension user may select a desired line:

- Prime Line Preference-Calling (Default)
- Idle Line Preference-Calling

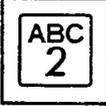
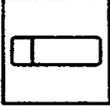
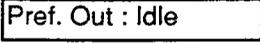
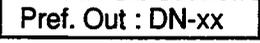
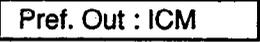
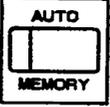
If "No Line Preference-Calling" is selected, no line is connected to a PITS telephone by lifting the handset or pressing the SP-PHONE button.

For further information about this feature, refer to Section 4-C-1.00 "Line Selection-Calling."

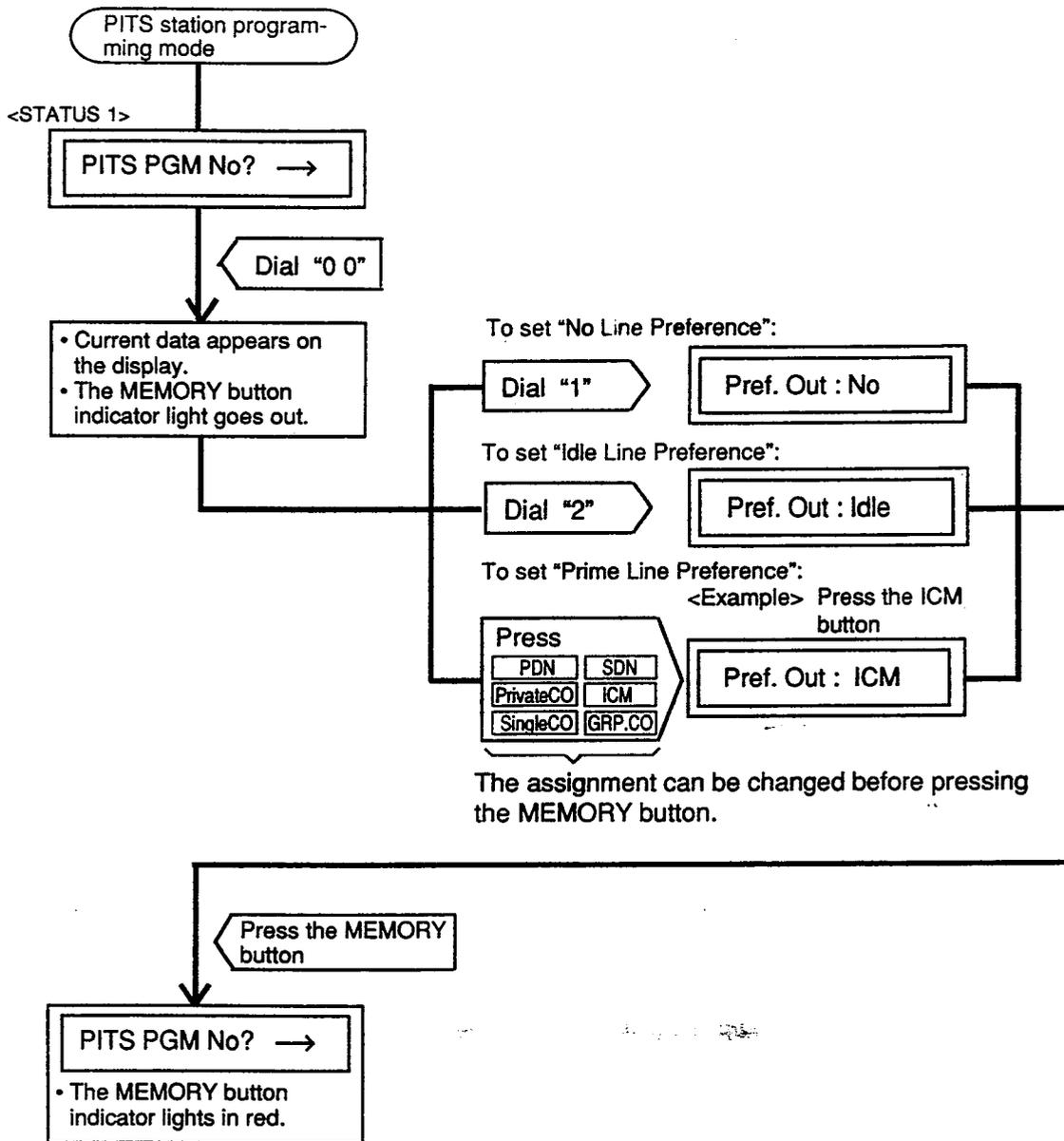
The table shows the operation for each programming. (The explanation of the message display applies only to a PITS provided with the display.)

Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p> 	<ul style="list-style-type: none"> • The following message appears on the display:  • The MEMORY button indicator lights in red. 	<ul style="list-style-type: none"> • This status is called "Initial display for PITS-station programming mode." • If the following message appears on the display, the programming data of your PITS has already been accessed by another administration device:  • From now on in any status, pressing the END button restores this status.
<p>2. Dial "00."</p> 	<ul style="list-style-type: none"> • Preset data appears on the display: <Example> If No Line Preference is preset:  • The MEMORY button indicator light goes out. 	<ul style="list-style-type: none"> • If nothing is entered within one minute after dialing "00," "Initial display for PITS-station programming mode" is shown again on the display.
<p>3. To change the preset feature, dial the appropriate program number corresponding to the desired feature.</p> <ul style="list-style-type: none"> • To set "No Line Preference," dial "1." 	<ul style="list-style-type: none"> • The following message appears on the display:  	<ul style="list-style-type: none"> • To change the assignment, simply dial the appropriate number again.

Continued

Operation	Result	Comment Note
<ul style="list-style-type: none"> To set "Idle Line Preference," dial "2."  <ul style="list-style-type: none"> To set "Prime Line Preference," press one of the following buttons: <p>PDN SDN Private CO Single CO Group CO ICM</p> 	<ul style="list-style-type: none"> The following message appears on the display:  <p><Example 1> When pressing one of the DN buttons, the DN number of the pressed button appears on the display:</p>  <p><Example 2> When pressing the ICM button, the following message appears on the display:</p> 	<p>If "Idle Line Preference" is set, the system selects an idle button from the buttons assigned in "System Operation", Idle Line Preference: DN (PDN,SDN) buttons or CO (Private CO, Single CO, Group CO) buttons.</p> <ul style="list-style-type: none"> Pressing a wrong button is cleared by pressing a correct button. If an inaccessible button is pressed, alarm tone sounds.
<p>4. Press the MEMORY button to store the assignment.</p> 	<ul style="list-style-type: none"> The MEMORY button indicator lights in red. Confirmation tone sounds. "Initial display for PITS station programming mode" is shown on the display. 	
<p>5. To conclude PITS station programming mode, slide the MEMORY switch to "SET."</p> 	<ul style="list-style-type: none"> PITS station programming mode is concluded and returns to the operation mode. 	

--Operation Chart--



Note : In any status, pressing the END key restores <STATUS 1>.

5.00 Automatic Answering Selection

This feature automatically connects a PITS telephone to a pre-assigned line when an extension user lifts the handset or press the SP-PHONE to answer incoming calls.

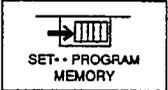
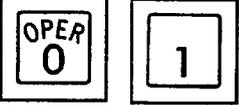
There are two options by which an extension user may select a desired line.

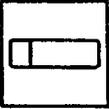
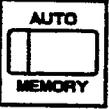
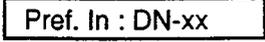
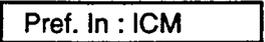
- Ringing Line Preference-Answering (Default)
- Prime Line Preference-Answering

If "No Line Preference-Answering" is selected, no line is connected to a PITS telephone by lifting the handset or pressing the SP-PHONE button.

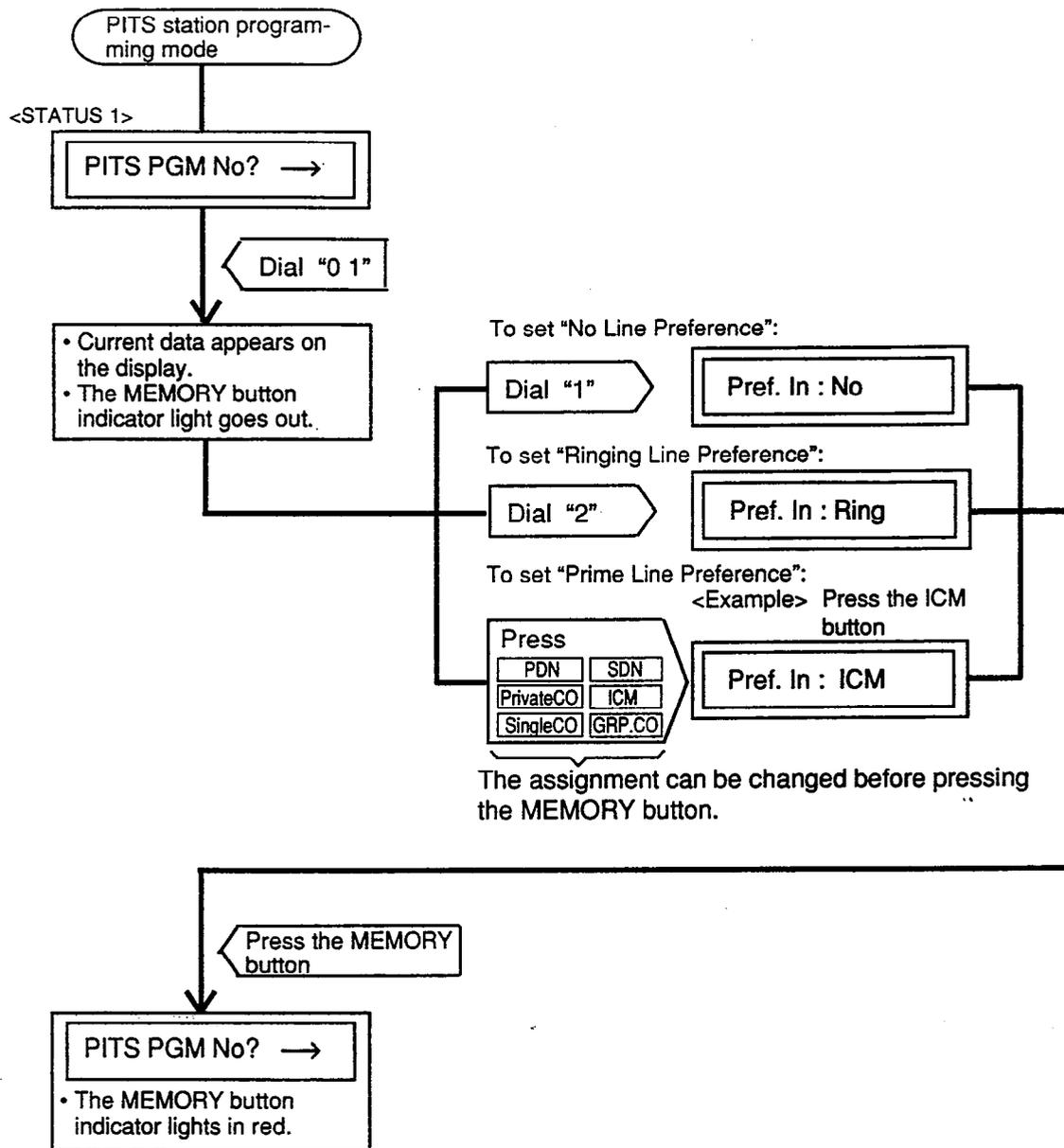
For further information about this feature, refer to Section 4-D-1.00 "Line Selection-Answering."

The table shows the operation for each programming. (The explanation of the message display applies only to a PITS provided with the display.)

Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p> 	<ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">PITS-PGM No.?→</div> <ul style="list-style-type: none"> • The MEMORY button indicator lights in red. 	<ul style="list-style-type: none"> • This display is called "Initial display for PITS-station programming mode." • If the following message appears on the display, the programming data of your PITS has already been accessed by another administration device. <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Already Accessed</div> <ul style="list-style-type: none"> • From now on, in any status, pressing the END button restores this status.
<p>2. Dial "01."</p> 	<ul style="list-style-type: none"> • Preset data appears on the display. <p><example> When "No Line Preference" is preset:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Pref. In : No</div>	<ul style="list-style-type: none"> • If nothing is entered within one minute after dialing "01," the "Initial display for PITS station programming mode" is shown on the display again.
<p>3. To change the preset feature, dial the program number corresponding to the desired feature.</p> <ul style="list-style-type: none"> • To set No Line Preference, dial "1." <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">1</div> <ul style="list-style-type: none"> • To set Ringing Line Preference, dial "2." <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">ABC 2</div>	<ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Pref. In : No.</div> <ul style="list-style-type: none"> • The following message appears on the display: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Pref. In : Ring</div>	<ul style="list-style-type: none"> • To change the assignment, simply dial the appropriate number again.

Operation	Result	Comment/Note
<ul style="list-style-type: none"> To set "Prime Line Preference," press one of the following buttons. <p> PDN SDN Private CO Single CO Group CO ICM </p>  <p>4. Press the MEMORY button to store the programming.</p>  <p>5. To conclude PITS station programming mode, slide the MEMORY switch to "SET."</p> 	<p><Example 1> When you press a DN button, the number of the pressed button appears on the display:</p>  <p><Example 2> If you press the ICM button, the following message appears on the display:</p>  <ul style="list-style-type: none"> The MEMORY button indicator lights in red. Confirmation tone sounds. "Initial display for PITS station programming mode" is displayed again on the display. PITS station programming mode is concluded and returns to the operation mode. 	<ul style="list-style-type: none"> Pressing a wrong button is cleared by pressing a correct button. If an inaccessible button is pressed, alarm tone sounds.

--Operation Chart--



Note : In any status, pressing the END key restores <STATUS 1>.

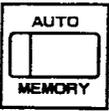
6.00 Call Waiting Tone Selection

Used to choose desired call waiting tone type from Tone 1 and Tone 2.
For further information about call waiting tone,

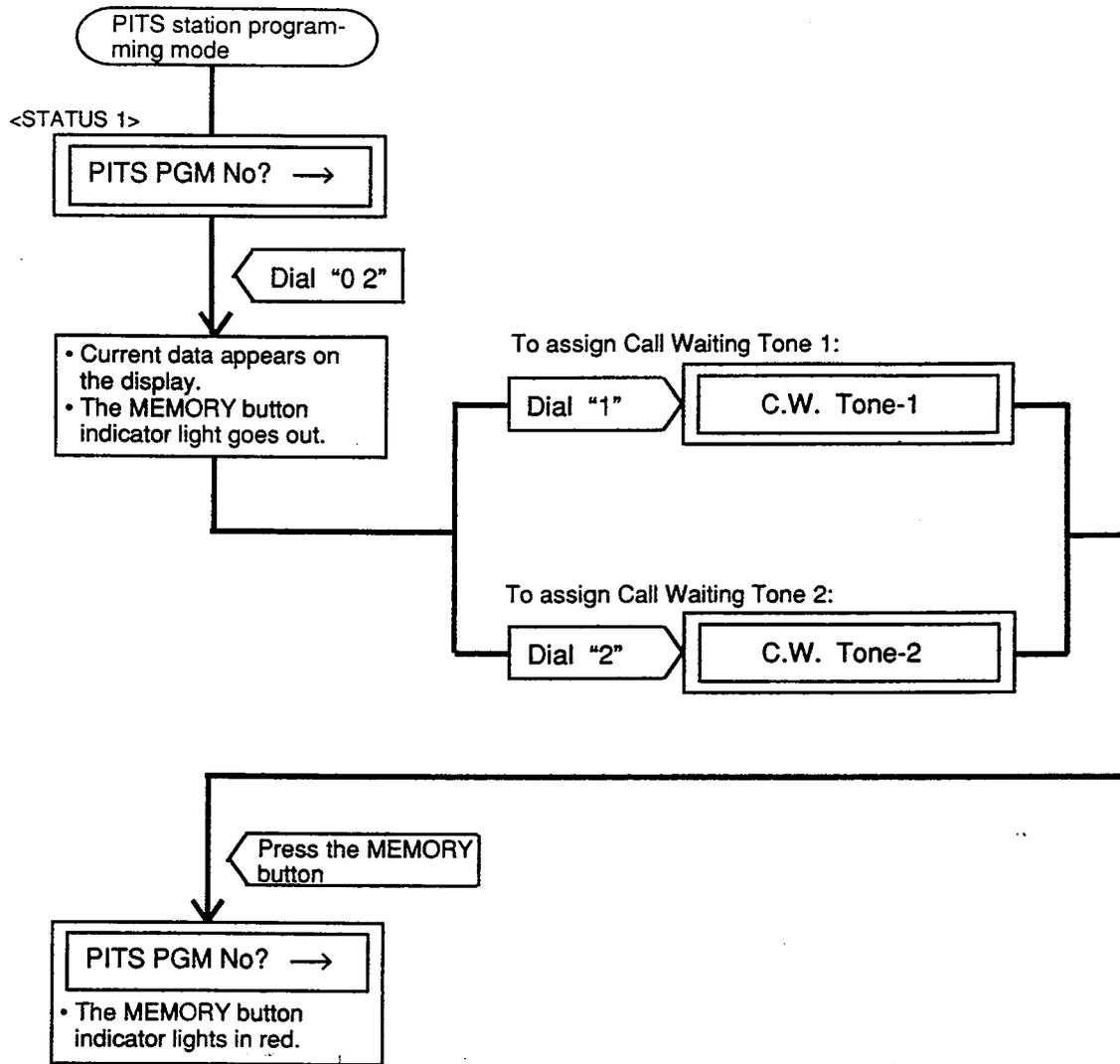
refer to Section 4-D-7.00 "Call Waiting."
The explanation of the message display applies only to a PITS provided with the display.

Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p> 	<ul style="list-style-type: none"> The following message appears on the display: The MEMORY button indicator lights in red. 	<ul style="list-style-type: none"> This display is called "Initial display for PITS station programming mode." If the following message appears on the display, the programming data of your PITS has already been accessed by another administration device. From now on, in any status, pressing the END button restores this status.
<p>2. Dial "02."</p> 	<ul style="list-style-type: none"> The preset tone type appears on the display: <Example> The MEMORY button indicator light goes out. 	<ul style="list-style-type: none"> If nothing is entered within one minute after dialing "02," "Initial display for PITS station programming mode" is shown again on the display.
<p>3. To change the preset tone type, dial the number corresponding to the desired call waiting tone.</p> <ul style="list-style-type: none"> To set the call waiting tone 1, dial "1."  <ul style="list-style-type: none"> To set the call waiting tone 2, dial "2." 	<ul style="list-style-type: none"> The following message appears on the display: The following message appears on the display: 	<ul style="list-style-type: none"> To change the assignment, simply dial the appropriate number again.

Continued

Operation	Result	Comment/Note
<p>4. Press the MEMORY button to store the entry.</p> 	<ul style="list-style-type: none"> • The MEMORY button indicator lights in red. • The confirmation tone sounds. • "Initial display for PITS station programming mode" is shown on the display. 	
<p>5. To conclude "PITS station programming mode," slide the MEMORY switch to "SET."</p> 	<ul style="list-style-type: none"> • PITS station programming mode is concluded and returns to the operation mode. 	

--Operation Chart--

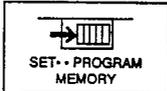
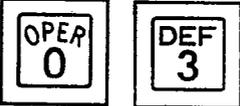


Note : In any status, pressing the END key restores <STATUS 1>.

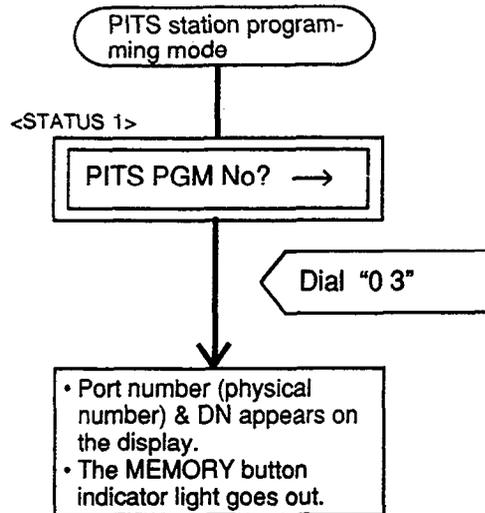
7.00 Confirmation of Directory Number/Port Number

Enables an extension of a PITS with display to confirm its own directory number and port number

(physical number) displayed on the display by the following operation:

Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p>  <p>2. Dial "03."</p>  <p>To conclude PITS station programming mode, slide the MEMORY switch to "SET."</p> 	<ul style="list-style-type: none"> The following message appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">PITS-PGM No. ?→</div> The MEMORY button indicator lights in red. <ul style="list-style-type: none"> The physical number and the directory number appear on the display: <p><Example></p> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">P1011↔ DN1111</div> The MEMORY button indicator light goes out. PITS station program mode is concluded and returns to the operation mode. 	<ul style="list-style-type: none"> This display is called "Initial display for PITS station programming mode." If the following message appears on the display, the programming data of your PITS has already been accessed by another administration device. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">Already Accessed</div> From now on, in any status, pressing the END button restores this status. If nothing is entered within one minute after dialing "03," "Initial display for PITS station programming mode" is shown again on the display.

--Operation Chart--

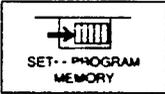
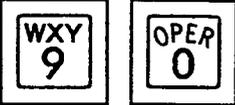


Note : In any status, pressing the END key restores <STATUS 1>.

8.00 PITS Automatic Test

Provides automatic test for normal operation of LCD (liquid crystal display), LED (light-emitting diode), and ringer tone on the PITS telephone.

Explanation of the message display applies only to a PITS with the display.

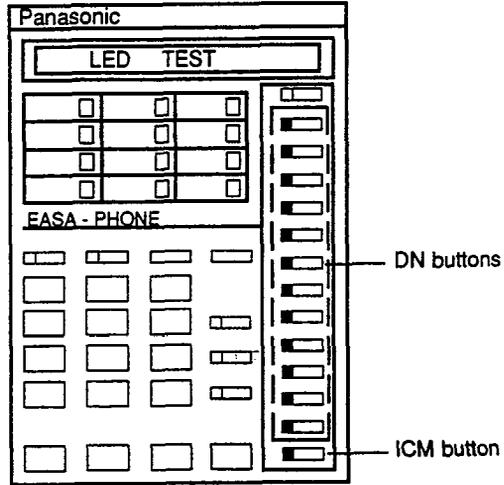
Operation	Result	Comment/Note
<p>1. Set the MEMORY switch at the rear of PITS to "PROGRAM."</p>  <p>2. Dial "90."</p> 	<ul style="list-style-type: none"> The following message appears on the display: <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px 0;">PITS-PGM No.? →</div> The MEMORY button indicator lights in red. <p>• Test sequence is as follows:</p> <ol style="list-style-type: none"> 1) LED Test 2) Ringer Test 3) LCD Test 	<ul style="list-style-type: none"> This status is called "Initial display for PITS station programming mode." If the following message appears on the display, the programming data of your PITS has already been accessed by another administration device. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px 0;">Already Accessed</div> Before starting the test, set the RINGER switch on the right side of the PITS to LOW or HIGH. To stop the test, press the END button, and then "Initial display for PITS station programming mode" is shown again on the display.

Testing sequence after dialing "90" is given below by using an example of PITS model KX-T123230.

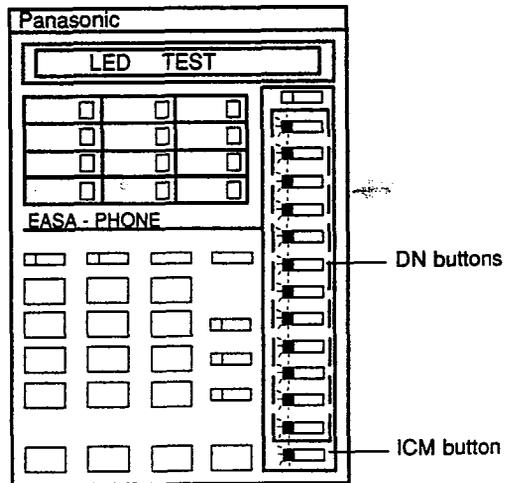
In LED test, "□" means the light off, "■" means the light on, "◻" means flashing.

LED test →

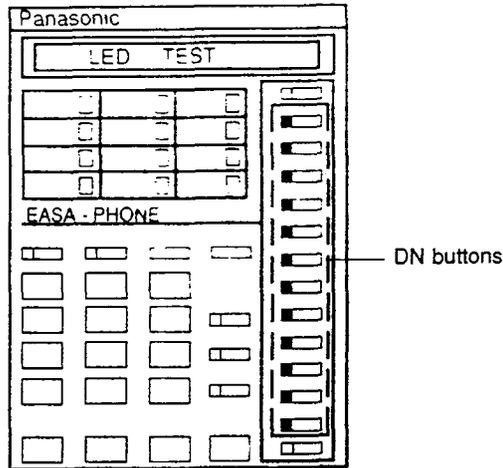
- 1) Testing the DN button indicators and the ICM button indicator for lighting in green.



- 2) Testing the DN button indicators and the ICM button indicator for flashing in green.

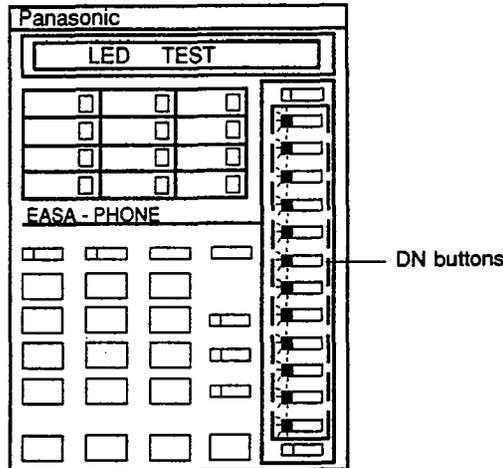


- 3) Testing the DN button indicators and the DSS button indicators for lighting in red.



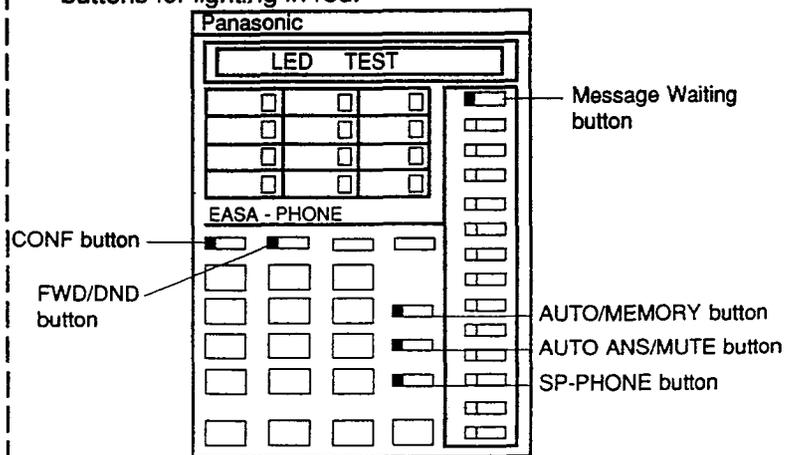
With the PITS model KX-T30830, the DSS button indicators also light in red.

- 4) Testing the DN button indicators and the DSS button indicators for flashing in red.



With the PITS model KX-T30830, the indicators on the DSS buttons also flash in red.

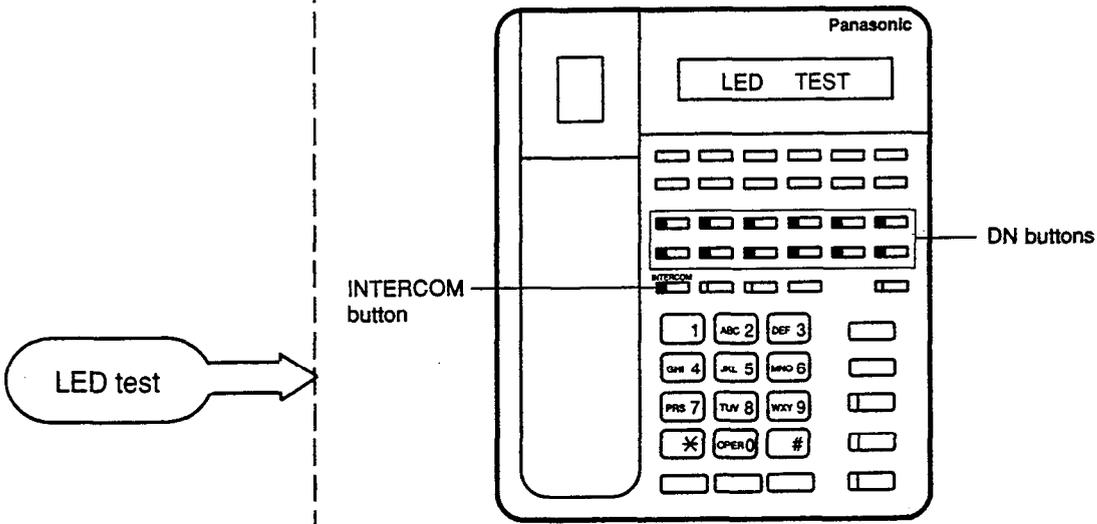
- 5) Testing the indicators of the Message Waiting, CONF, FWD/DND, AUTO/MEMORY, AUTO ANS/MUTE, SP-PHONE buttons for lighting in red.



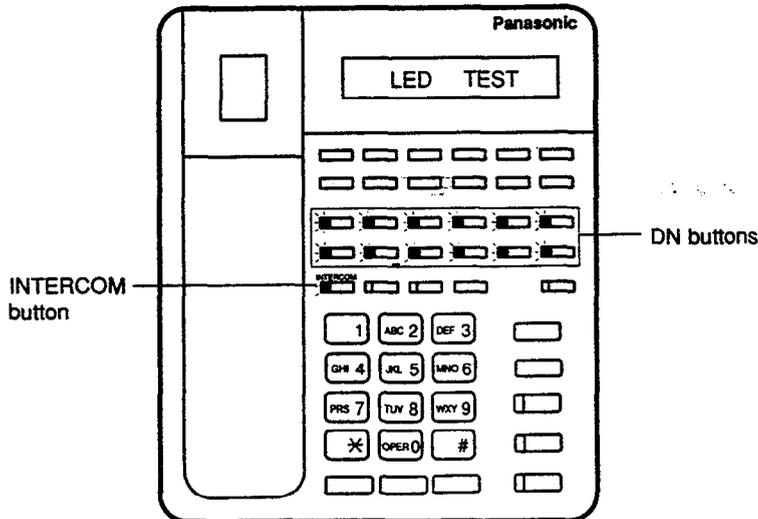
Testing sequence after dialing "90" is given below by using an example of PITS model KX-T7130.

In LED test, "□" means the light off, "■" means the light on, "◻" means flashing.

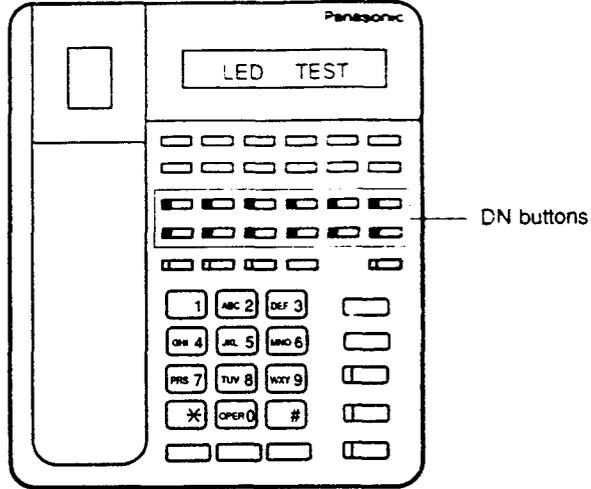
- 1) Testing the DN button indicators and the INTERCOM button indicator for lighting in green.



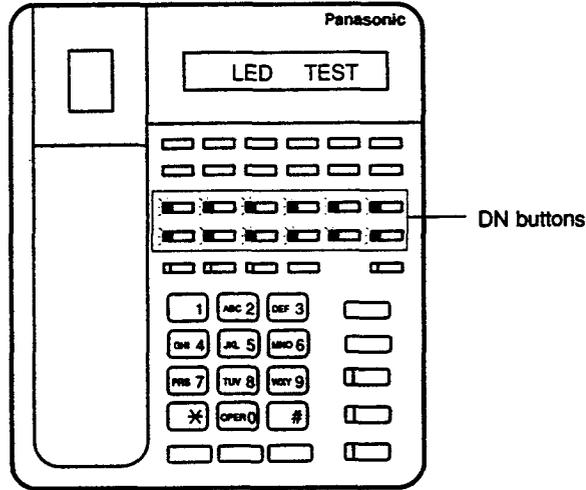
- 2) Testing the DN button indicators and the ICM button indicator for flashing in green.



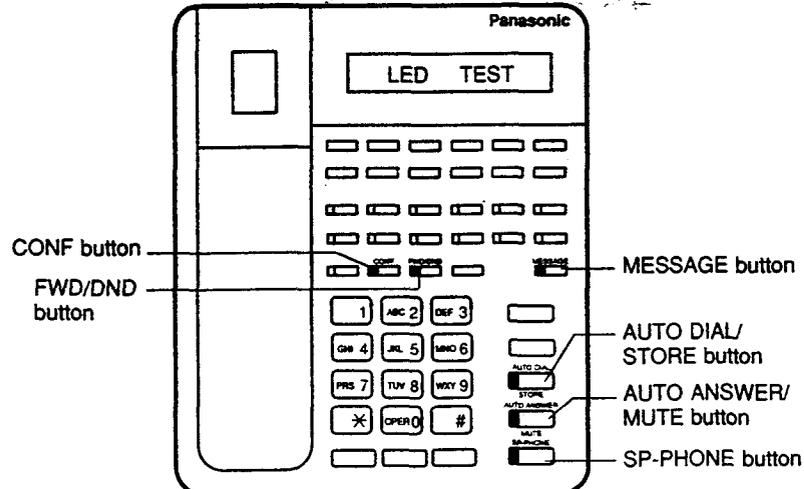
3) Testing the DN button indicators for lighting in red.



4) Testing the DN button indicators for flashing in red.



5) Testing the indicators of the MESSAGE, CONF, FWD/DND, AUTO DIAL/STORE, AUTO ANSWER/MUTE, SP-PHONE buttons for lighting in red.



Section 13

Station Programming

Attendant Console

(Section 13)

Station Programming

Attendant Console (ATT)

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A. Preparation

1.00 Outline of Local Mode

Attendant Console Local Mode is used to edit the local data dedicated to the attendant console.

Attendant Console Local Mode is operated independently from the main unit.

The operator at Attendant Console can utilize the following modes on local mode for programming, diagnosis, and backup.

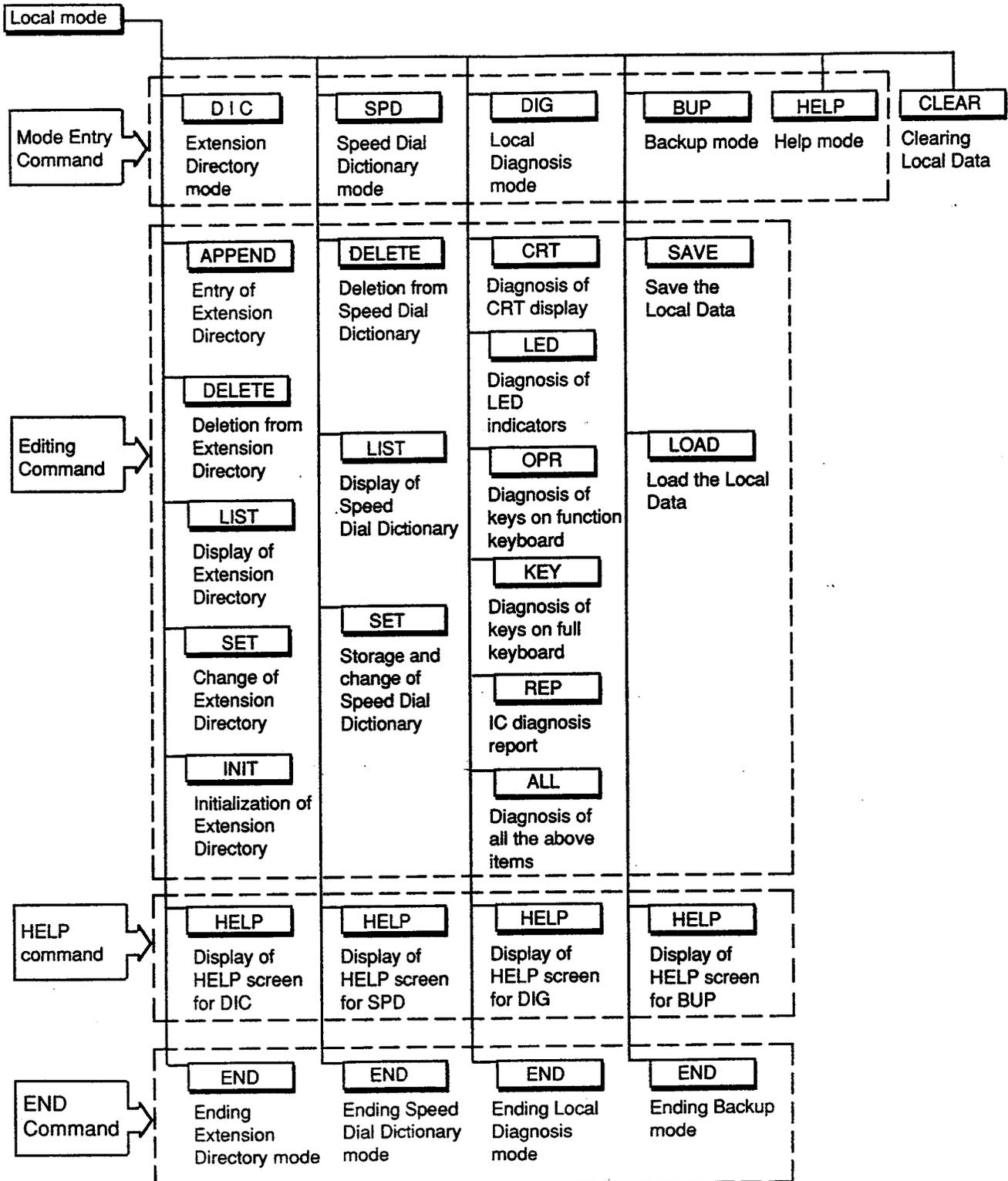
- Extension Directory mode
- Speed Dial Dictionary mode
- Local Diagnosis mode
- Backup mode

In addition, CLEAR mode is provided for clearing the programmed local data.

Before entering the above modes, HELP command will help you to see which commands are available in local mode.

2.00 Command System

Command System in the local mode is shown below:



3.04 Control Key Combinations

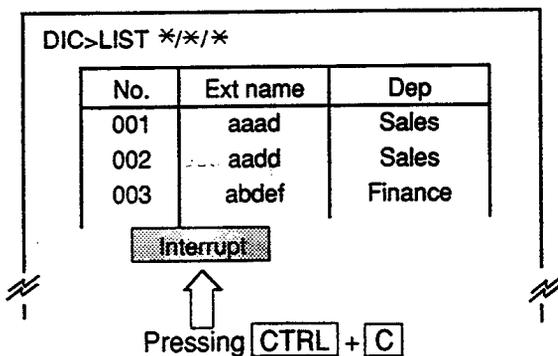
You can perform specific operations by using the **CTRL** key in combination with certain other keys as follows.

To use a **CTRL** key combination, hold down the **CTRL** key, and press the other key.

- CTRL** + **S** : suspends the display scrolling to let you view it.
- CTRL** + **Q** : restarts the display scrolling suspended by **CTRL** + **S**
- CTRL** + **C** : terminates the execution of entered command. Then allows you to enter a command again.
- CTRL** + **A** : establishes the insert mode. Pressing **CTRL** + **A** again cancels the insert mode.
- CTRL** + **→** : moves the cursor to the beginning of the next word.
- CTRL** + **←** : moves the cursor to the beginning of the previous word.
- CTRL** + **DEL** : deletes the line.

<Example>

While displaying the list in the Extension Directory mode, pressing **CTRL** + **C** terminates the display as follow:



<Example>

DIC>APPEND 100/Whit /Sales

After pressing **CTRL** + **A**, enter "e"

results in

DIC > APPEND 100/White/Sales

3.05 Special Keys

The following special keys are used to edit the command line:

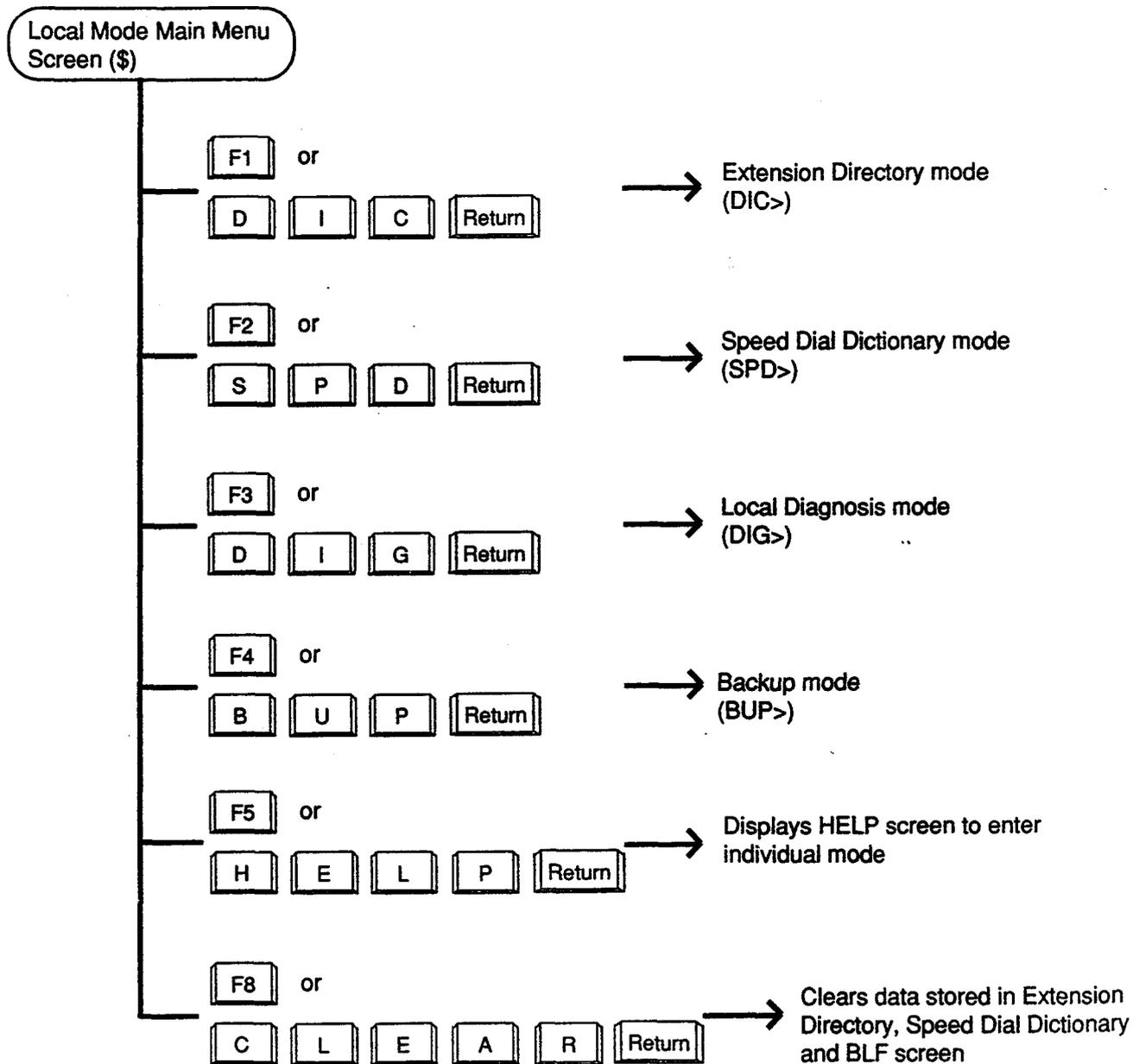
- DEL** : deletes the character at the current cursor position. The cursor does not move.
- BS** : moves the cursor one character left and deletes the character in that position.
- TAB** : moves the cursor one space to the right and adds a space to a line.
- : moves the cursor one character right.
- ←** : moves the cursor one character left.
- ↑** : recalls a command which was already executed by pressing the RETURN key in reverse order. When the oldest command is recalled, recalls again from the newest command.
- ↓** : recalls a command which was already executed by pressing the RETURN key in entered order. When the newest command is recalled, recalls again from the oldest command.

4.00 Entering a Mode

To enter the desired mode, either press the appropriate function key, or enter the appropriate command and press the RETURN key at Local Mode Main Menu screen.

Then the prompt associated with the entered mode is displayed on the screen.

The flow chart below shows how to enter each mode and () in the chart shows the prompt displayed in each mode.



B Extension Directory Mode

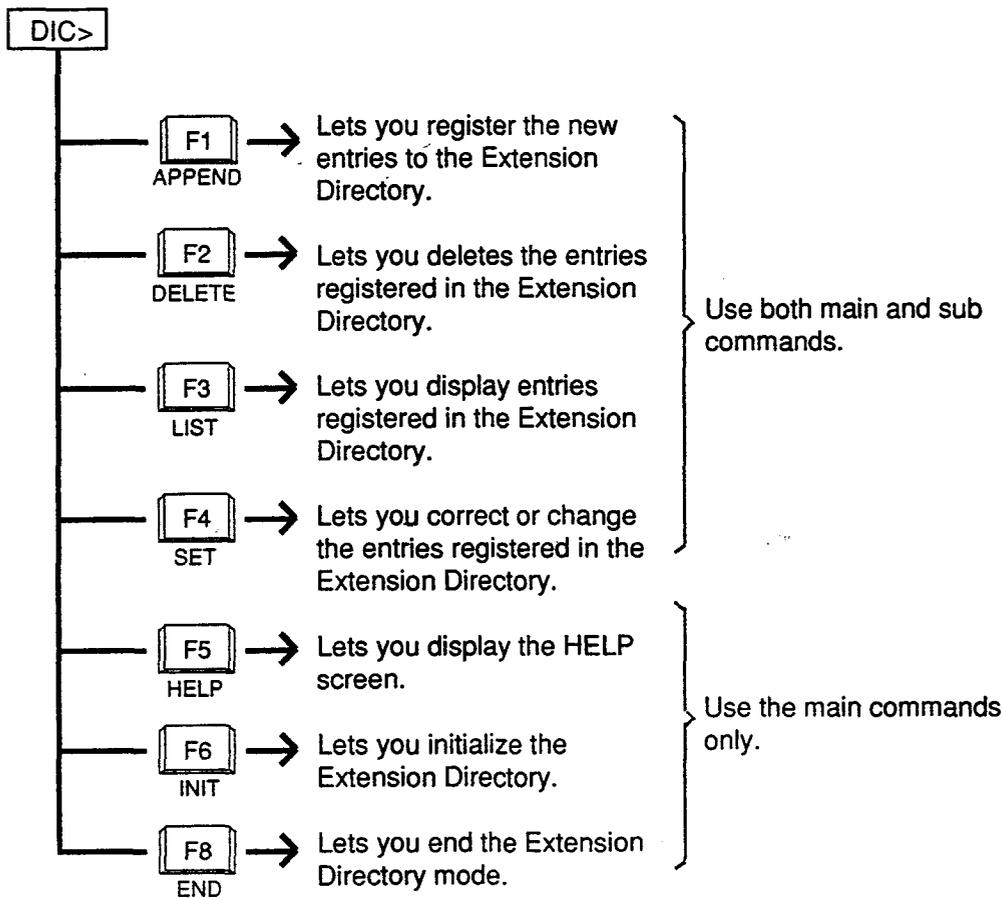
1.00 Summary

Extension Directory mode allows you to edit the extension directory for the Attendant Console. It is possible to store, add, delete, and change extension names and departments in this mode.

Pressing the F1 key or entering DIC (CR) command in the local mode main menu screen introduces the function field below, which indicates a command entry needed.

DIC> <input type="checkbox"/>							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
APPEND	DELETE	LIST	SET	HELP(c _R)	INIT(c _R)		END(c _R)

To start editing, press the function key associated with the desired operation, or enter the desired command directly at the full keyboard.



2.00 APPEND Command

Description Used to register the new entries to Extension Directory.
Up to 500 entries can be registered.

Input Format There are three types of input formats in APPEND Command, as follows:

	Contents	Format
1	Stores extension number, name, department.	DIC>APPEND Number/Name/Department
2	Stores extension number, name (without designating department)	DIC>APPEND Number/Name/
3	Stores extension number, department (without designating extension name)	DIC>APPEND Number//Department

Input Examples To store the extension number "1000," name "Bob," department "Sales," enter:
DIC>APPEND 1000/Bob/Sales
To store the extension number "1001," name "Steven," no department, enter:
DIC>APPEND 1001/Steven/
To store the extension number "1002," no name, department "Sales"; enter:
DIC>APPEND 1002//Sales

Display Example To store the extension number "1000," name "White," department "Sales":

DIC> APPEND 1000/White/Sales

No.	Ext name	Dep
900	Bob	Product
1000	White	Sales
1000	Whitnie	Sales

entry →

***** Append complete

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
APPEND	DELETE	LIST	SET	HELP(c _R)	INIT(c _R)		END(c _R)

Conditions An extension number consists of three or four digits.

An extension name consists of up to 16 characters including letters, numbers and special characters (except ", *, /, ~), and the first digit should be a letter.

A department name consists of up to eight characters including letters, numbers and special characters (except ", *, /, ~), and the first digit should be a letter.

Each entry should always include the extension number.
For example, entering: DIC>APPEND /Jack/Sales displays an error message.

Be sure not to leave a space within a sub command.
For example, entering: DIC>APPEND 1001/Jack Smith/Sales displays an error message. Instead of a space, special characters such as "-" can be used to separate words as "Jack-Smith."

The same extension number can be registered in the multiple number of entries if extension name and/or department name are/is different.

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Error: Input data already exist	Entered data has already been stored.
***** Append complete	Storing is completed.
***** Error: Append deny (already 500 data entry)	500 data entries have already been stored.

3.00 DELETE Command

Description Used to delete the entries registered in the Extension Directory.

Input Format There are 10 types of input formats, as follows:

	Contents	Format
1	Specifies extension number, name, department	DIC> DELETE Number/Name/Department
2	Specifies extension number, name (for a data which has no department stored)	DIC> DELETE Number/Name/
3	Specifies extension number, name (regardless of which department)	DIC> DELETE Number/Name/*
4	Specifies extension number, department (for which there is no name stored)	DIC> DELETE Number//Department
5	Specifies extension number, department (regardless of which extension name)	DIC> DELETE Number/* /Department
6	Specifies name, department (regardless of extension number)	DIC> DELETE */Name/Department
7	Specifies extension number only	DIC> DELETE Number/* /*
8	Specifies extension name only	DIC> DELETE */Name/*
9	Specifies department only	DIC> DELETE */*/Department
10	Deletes all	DIC> DELETE */*/*

Input Examples To delete the extension number "1000," name "Jack," department "Project," enter:

DIC > DELETE 1000/Jack/Project

To delete the extension number "1001," name "Betty," no department stored, enter:

DIC > DELETE 1001/Betty/

To delete all entries which include the department "Project," enter:

DIC > DELETE */*/Project

Display Example To delete the extension number "1000," name "White," department "Sales":

DIC> DELETE 1000/White/Sales

delete data		
No.	Ext name	Dep
1000	White	Sales

***** Total 1 entry
 ***** Delete OK ? (Y/N) => Y
 ***** Delete complete

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

APPEND	DELETE	LIST	SET	HELP(c _R)	INIT(c _R)		END(c _R)
--------	--------	------	-----	-----------------------	-----------------------	--	----------------------

When "Delete OK ? (Y/N)" appears on the screen, press "Y" key, then the RETURN key to delete the displayed data. Press "N" key, then the RETURN key, if you do not wish to delete the data.

Conditions

Usage of Wild Card Character

One character "*" can be used as a wild card character which substitutes any character in that position.

<Example 1>

If the followings are registered:

No.	Ext name	Dep
100		Sales
100	Jack	Sales

Entering: DIC/DELETE 100*/*/Sales deletes both of the above entries.

<Example 2>

To delete any entry which includes the extension numbers from 1000 to 1999, enter:

DIC > DELETE 1*/*/*

If the extension number is three digits, enter "0" at the beginning of the number.

<Example 3>

To delete any entry which includes the extension numbers from 310 to 319, enter:

DIC > DELETE 031*/*/*/

Take care not to delete the data that you do not intend to delete when you use the wild card * for the input formats 3 and 5 through 10.

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Error: Input data do not exist.	Entered data has not been stored.
***** Delete complete	Deleting is completed.
***** Delete abort	Deleting is not executed yet.
***** Delete OK? (Y/N)	Confirmation message.
***** Total 3 entries	There are three entries to be deleted.

4.00 LIST Command

Description Used to display all entries registered in the Extension Directory.

Input format There are 10 types of Input formats as follows:

	Contents	Format
1	Specifies extension number, name, department	DIC > LIST Number/Name/Department
2	Specifies extension number, name (for an entry which has no department stored)	DIC > LIST Number/Name/
3	Specifies extension number, name (regardless of department)	DIC > LIST Number/Name/*
4	Specifies extension number, department (for an entry which has no name stored)	DIC > LIST Number//Department
5	Specifies extension number, department (regardless of name)	DIC > LIST Number/*//Department
6	Specifies name, department (regardless of extension number)	DIC > LIST */Name/Department
7	Specifies extension number only	DIC > LIST Number/*/*
8	Specifies name only	DIC > LIST */Name/*
9	Specifies department only	DIC > LIST */*/Department
10	Lists all entries	DIC > LIST */*/*

Input Examples To display the extension number "1000," name "Jack," department "Project," enter:

DIC > LIST 1000/Jack/Project

To display the extension number "1001," name "Betty," no department stored, enter:

DIC > LIST 1001/Betty/

To display all the entries which include the extension number "1002," enter:

DIC > LIST 1002/*/*

To display all the entries which include the department "Project," enter:

DIC > LIST */*/Project

Display Example To display all the entries which include the extension number "1000" and the extension name whose initial is "J":

DIC> LIST 1000/J/*/*																																															
<table border="1"> <thead> <tr> <th>No.</th> <th>Ext name</th> <th>Dep</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1000</td> <td>James</td> <td>Sales</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1000</td> <td>Jennifer</td> <td>Product</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1000</td> <td>Joanna</td> <td>Product</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1000</td> <td>Jone</td> <td>Sales</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								No.	Ext name	Dep						1000	James	Sales						1000	Jennifer	Product						1000	Joanna	Product						1000	Jone	Sales					
No.	Ext name	Dep																																													
1000	James	Sales																																													
1000	Jennifer	Product																																													
1000	Joanna	Product																																													
1000	Jone	Sales																																													
***** Total 4 entries																																															
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)																																								
APPEND	DELETE	LIST	SET	HELP(c _R)	INIT(c _R)		END(c _R)																																								

Conditions

Usage of Wild Card Character

One character "*" can be used as a wild card character which substitutes any character in that position

If the following entries are stored:

<Example 1>

No.	Ext name	Dep
100		Sales
100	Jack	Sales

Entering: DIC > LIST 100*/*/Sales displays both the above entries.

<Example 2>

To list up 1000 through 1999, enter:

DIC > LIST 1*/*/*

If the extension number is three digits, "0" should be entered as the leading digit.

<Example 3>

To list up extension numbers from 310 through 319, enter:

DIC > LIST 031*/*/*

Listing Order

LIST command is used to list all entries in alphabetical order of extension names first, then alphabetical order of departments, and then ascending order of extension numbers.

<Example 1>

DIC>LIST */*/*		
No.	Ext name	Dep
1002	Betty	Sales
1003	Jack	Product
1001	Smith	Account

Listing order may be altered depending on input format types. For instance, the above list can be changed in ascending order of extension numbers by entering: DIC > LIST 100*/*/*, as follows:

<Example 2>

DIC>LIST 100*/*/*		
No.	Ext name	Dep
1001	Smith	Account
1002	Betty	Sales
1003	Jack	Product

That is, preferential order is determined by the sub parameters which are not substituted by wild card character “*.”

Listing all entries

All stored entries may be listed by entering LIST command only. Up to 14 entries can be displayed on the screen at a time.

For example, if 30 entries are stored, the first execution of LIST will display the first 14 entries and the second execution of LIST will display the second 14 entries and the third execution of LIST will display the remaining two entries.

Entering: LIST */*/* lists all the stored entries.

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Error: Input data do not exist.	Entered data has not been stored.
***** Total 3 entries	There are three entries to be listed.
***** No data is entered.	No data stored.

5.00 SET Command

Description Used to correct or change the entries registered in the Extension Directory.

Input Format Basic format for SET command is to enter:
DIC>SET [original data] [new data].

There are 10 types of input formats for it as shown below.

The < > mark in the table indicates that the data in the < > may be skipped.

The ⊔ mark in the table indicates a space.

	Contents	Format
1	Specifies extension number, name, department	DIC>SET ⊔ Number /Name/ Department ⊔ <Number>/<Name>/ <Department>
2	Specifies extension number, name (for data which has no department stored)	DIC>SET ⊔ Number /Name/ ⊔ <Number>/<Name>/<Department>
3	Specifies extension number, name (regardless of department)	DIC>SET ⊔ Number /Name/* ⊔ <Number>/<Name>/<Department>
4	Specifies extension number, department (for data which has no name stored)	DIC>SET ⊔ Number //Department ⊔ <Number>/<Name>/<Department>
5	Specifies extension number, department (regardless of name)	DIC>SET ⊔ Number /*/Department ⊔ <Number>/<Name>/<Department>
6	Specifies name, department (regardless of extension number)	DIC>SET ⊔ */Name/Department ⊔ <Number>/<Name>/<Department>
7	Specifies extension number only	DIC>SET ⊔ Number /*/* ⊔ <Number>/ <Name>/<Department>
8	Specifies name only	DIC>SET ⊔ */Name/* ⊔ <Number>/ <Name>/<Department>
9	Specifies department only	DIC>SET ⊔ /*/*/Department ⊔ <Number>/<Name>/<Department>
10	Changes all entries	DIC>SET ⊔ /*/*/* ⊔ <Number>/ <Name>/<Department>

Input Example To change the department from "Sales" to "Account" for the extension number "1000," name "Jack," department "Sales," enter :
DIC > SET 1000/Jack/Sales 1000/Jack/Account

To change the entry which has the extension number "1001," name "Betty," no department to the extension number "2000," name "Smith," department "Account," enter :
DIC > SET 1001/Betty/ ⊔ 2000/Smith/Account

Display Example

To change the extension number "1000," name "James," department "Sales" to "1000, White, Product" :

```
DIC > SET 1000/James/Sales 1000/White/Product
```

source data			exchanged data		
No.	Ext name	Dep	No.	Ext name	Dep
1000	James	Sales	1000	White	Product

***** Total 1 entry
***** Set complete

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
APPEND	DELETE	LIST	SET	HELP(c _R)	INIT(c _R)		END(c _R)

Conditions

An extension number can be three or four digits.

An extension name can be up to 16 characters including letters, numbers and special characters (except ", *, /, ~), and the first digit should be a letter.

A department can be up to eight characters including letters, numbers and special characters (except ", *, /, ~), and the first digit should be a letter.

Make sure not to leave a space within a sub command.
For example, if you enter: SET 1000/James/Sales 1001/James/Div 4, an error message appears on the screen and you cannot change the data.
In this case use special characters such as "-" to separate words as "Div-4."

Usage of Wild Card Character

One character "*" can be used as a wild card character which substitute any character in that position.
The wild card character cannot be used for sub parameters of new data.

<Example 1>

If the following entries are stored:

No.	Ext name	Dep
100	Betty	Project
101	Jack	Project

To change the extension numbers of the entries which include department "Project" to 200, enter :

DIC > SET *~/Project 200//

The specified entries will be changed as follows:

No.	Ext name	Dep
200	Betty	Project
200	Jack	Project

<Example 2>

To change all the extension numbers from 1000 through 1999 to 1000, enter:

DIC > SET 1*/**/ 1000//

If the extension number is three digits, "0" must be entered as the leading digit.

<Example 3>

To change all the extension numbers from 310 through 319 to 400, enter :

DIC > SET 031*/**/ 400//

As shown in formats 3 and 5 through 10, the wild card character "*" is used to change data without specifying sub parameters.

Insert one space between original data and new data.

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Error: Input data do not exist.	Entered data has not been stored.
***** Set complete	Changing the data is completed.
***** Total 3 entries	There are three entries to be changed.

6.00 HELP Command

Description Used to display brief instructions and a list of command related to the Extension Directory mode.

Input Format DIC>HELP

Display Example

```

DIC> HELP

***** Help for editing extension directory*****

append an entry          =>APPEND number/name/dep
delete an entry          =>DELETE number/name/dep
list an entry            =>LIST number/name/dep
change an entry          =>SET number/name/dep number/name/dep
initialize the directory =>INIT
return to the local menu =>END
help for using command  =>HELP
  
```

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
APPEND	DELETE	LIST	SET	HELP(c _R)	INIT(c _R)		END(c _R)

Displayed Message

Displayed Message	Meaning
***** Error : Illegal main command	There is an error in the main command.
***** Error : Illegal sub command	There is an error in the sub command.

7.00 INIT Command

Description Used to initialize the entries in the Extension Directory, and the extension names and numbers assigned in the system programming are copied to the Extension Directory screen at the same time.

Input Format DIC> INIT

Display Example

```

DIC > INIT
***** Initialize OK ? (Y/N)  => Y
***** Initialize complete
***** Total 3 entries
  
```

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
APPEND	DELETE	LIST	SET	HELP(c _R)	INIT(c _R)		END(c _R)

When "Initialize OK? (Y/N)" appears on the screen, press "Y" key then the RETURN key to execute.

Not to execute, press "N" key, then the RETURN key.

Conditions

Extension names to be copied can include letters, numbers and special characters (except ", *, /, ~), and the first digit should be a letter.

Both number and name of the extension will not be copied, if the first digit of the extension name is a numeric character other than a letter.

Displayed Message

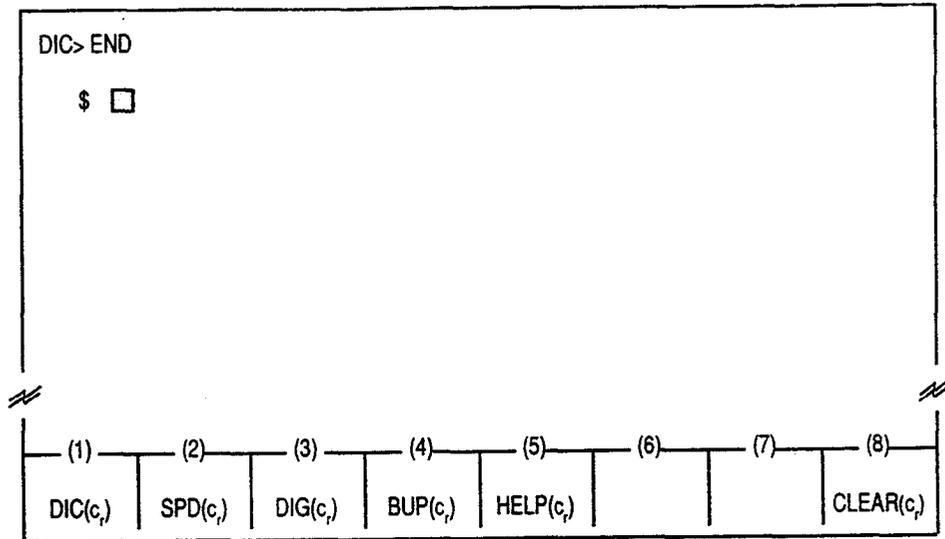
Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Initialize OK ? (Y/N) =>	Confirmation message.
***** Initialize complete	Initialization is completed.
***** Initialize abort	Did not initialize.
***** Total 3 entries	There are three entries to be copied.

8.00 END Command

Description Used to conclude the Extension Directory mode.

Input Format DIC>END

Display Example



Conditions Entry of END command concludes Extension Directory mode, and displays the prompt "\$" which indicates that you can enter another command.

Displayed Message

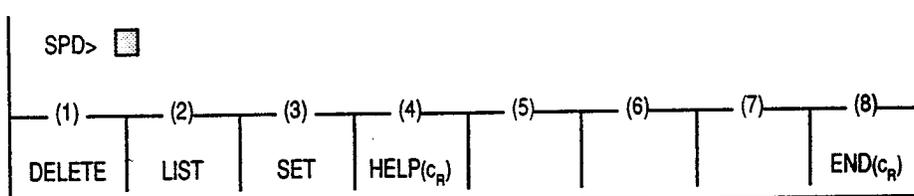
Displayed Message	Meaning
*****Illegal main command	There is an error in the main command.
*****Illegal sub command	There is an error in the sub command.

C Speed Dial Dictionary Mode

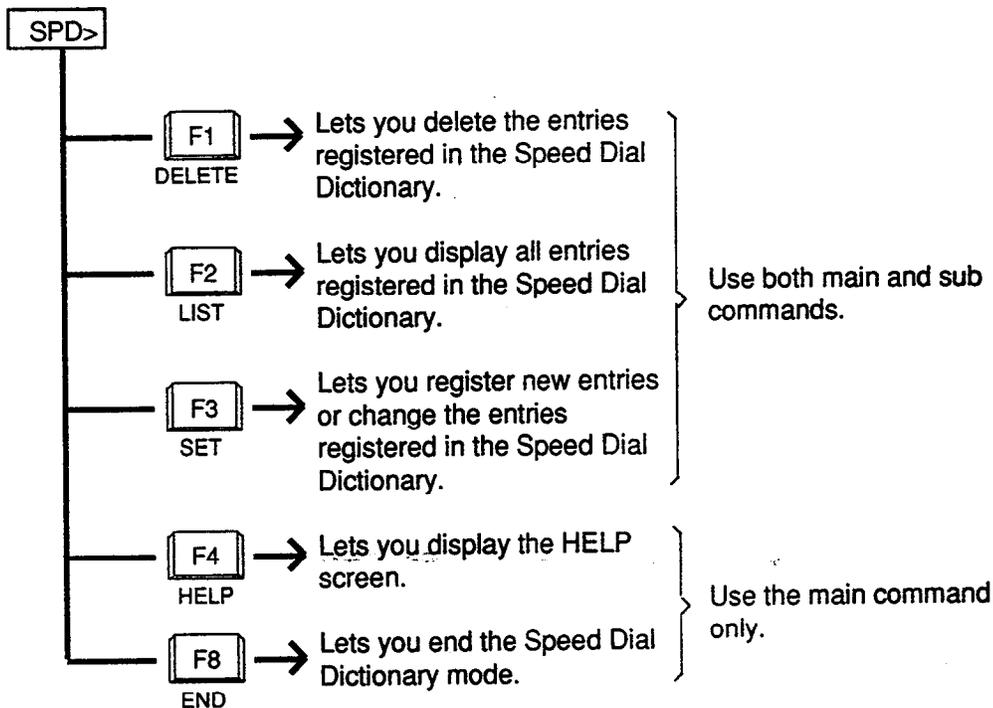
1.00 Summary

This mode is used to edit the Speed Dial Dictionary for the Attendant Console. It is used for storing, deleting and changing a speed dial name.

Pressing the F2 key "SPD (c_R)" in the local mode main menu screen displays the function field below. The "SPD> █" shows that you may enter further commands.



To start editing, press the function key associated with the desired operation, or enter the desired command directly at the full keyboard.



2.00 DELETE Command

Description Used to delete the entries registered in the Speed Dial Dictionary.

Input Format SPD > DELETE 001 to 200 (speed dial code)

Input Example To delete speed dial code 100, enter :
SPD > DELETE 100

Display Example When deleting speed dial code 100 :

SPD> DELETE 100

delete data	
No.	name
100	White

***** Total 1 entry
 ***** Delete OK ? (Y/N) => Y
 ***** Delete complete

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DELETE	LIST	SET	HELP(c _R)				END(c _R)

When the message "Delete OK? (Y/N) =>" appears, press "Y" then the RETURN key to delete the data.

Not to delete the data, press "N" then the RETURN key.

Conditions Usage of Wild Card Character

One character "*" can be used as a wild card character which substitutes any character in that position.

<Example>

To delete the speed dial code from 100 through 199, enter :
SPD > DELETE 1*

This function deletes the speed dial codes and the names from the Speed Dial Dictionary screen, but does not affect the data in the system programming.

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Delete OK ? (Y/N) =>	Confirmation message
***** Delete complete	Deleting is completed.
***** Error: Input data do not exist	Entered data does not exist.
***** Delete abort	Did not delete the specified data.
***** Total 3 entries	There are three entries to be deleted.

3.00 LIST Command

Description Used to display all entries registered in the Speed Dial Dictionary.

Input Format There are four types of input formats as follows :

	Contents	Format
1	Specifies speed code and name	SPD > LIST Number / Name
2	Specifies speed code (regardless of name)	SPD > LIST Number/*
3	Specifies name (regardless of number)	SPD > LIST */Name
4	Lists all entries	SPD > LIST */*

Input Example To list the speed dial code 100 and name Jones, enter :
SPD > LIST 100 / Jones

Display Example To list speed dial name which starts with J :

SPD> LIST */J*

No.	name
100	James
001	Jennifer
200	Joanna
150	Jone

***** Total 4 entries

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DELETE	LIST	SET	HELP(c _R)				END(c _R)

Conditions

Usage of Wild Card Character

One character "*" can be used as a wild card character which substitutes any character in that position..

<Example>

To list the speed dial code from 100 through 199, enter :
SPD > LIST 1*/*

Listing Order

LIST command is used to list all entries in alphabetical order of the extension names and in ascending order of the speed dial codes.

<Example>

SPD>LIST */*	
No.	name
102	Betty
103	Jack
101	Smith

The listing order can be altered by changing the input format. For instance, in the example above, to list the entries in ascending order of the speed dial codes, enter :

SPD>LIST 10*/*

The specified entries will be displayed as follow :

SPD>LIST 10*/*	
No.	name
101	Smith
102	Betty
103	Jack

That is, data is listed in the order of the code or the name which is not specified by one wild card *.

Listing All Entries

All stored entries may be listed by entering LIST command only. Up to 14 entries can be displayed on the screen at a time.

For instance, if 30 entries are stored, the first execution of LIST will display the first 14 entries and the second execution of LIST will display the second 14 entries and the third execution of LIST will display the remaining two entries.

When you want to list all the stored entries, enter :

LIST */*

Displayed Message

Displayed Message	Meaning
***** Error : Illegal main command	There is an error in the main command.
***** Error : Illegal sub command	There is an error in the sub command.
***** Error : Input data do not exist	Entered data does not exist.
***** Error : No data is entered	No data is stored.
***** Total 3 entries	Three entries are listed.

4.00 SET Command

Description Used to register or change the entries in the Speed Dial Dictionary. If newly registered speed dial code has been already registered, previous entry will be overwritten by the new one. Up to 200 entries (001 to 200) can be registered.

Input Format SPD > SET speed dial code/name

Input Example To store the speed dial code "120" and the name "James," enter :
 SPD>SET 120/James
 If the speed dial code 120 has already been stored, the preset name is changed to James.

Display Example To store the speed dial code 100 and the name "Bob" (when the speed dial code 100 has not been stored before) :

SPD> SET 100/Bob

set data	
No.	name
100	Bob

***** Total 1 entry
 ***** SET complete

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DELETE	LIST	SET	HELP(c _R)				END(c _R)

Conditions

A speed dial code should be three digits (001 to 200).
 A speed dial name consists of up to 20 characters including letters, numbers and special characters (except ", *, /, ~).
 The beginning of the name should be a letter.

Make sure not to insert a space into each sub command of speed dial code and name.

For example entering : SET 100/ABC Food displays an error message after pressing the RETURN key.

However, it is possible to use special characters such as "-" to separate words as "ABC-Food."

Only one speed dial name can be stored for one speed dial code.

Usage of Wild Card Character

One character "*" can be used as a wild card character which substitutes any character in that position.

<Example>

To change the name of speed code from 001 through 099 to Panasonic, enter :

SPD > SET 0*/Panasonic

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Set complete	Data has been stored or changed.
***** Error: Input data do not exist	Entered data does not exist.
***** Error: Set deny (speed dial number=001-200)	Entered speed dial code is out of the range of 001 to 200
***** Total 3 entries	There are three entries to be stored or changed.

5.00 HELP Command

Description Used to display brief instructions and a list of command related to the Speed Dial Dictionary mode.

Input Format SPD > HELP

Display Example

```

SPD> HELP

***** Help for editing speed dial dictionary *****

delete an entry      => DELETE number
list an entry        => LIST number/name
append/change an entry => SET number/name
return to the local menu => END
help for using command => HELP
    
```

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DELETE	LIST	SET	HELP(c _R)				END(c _R)

Displayed Message

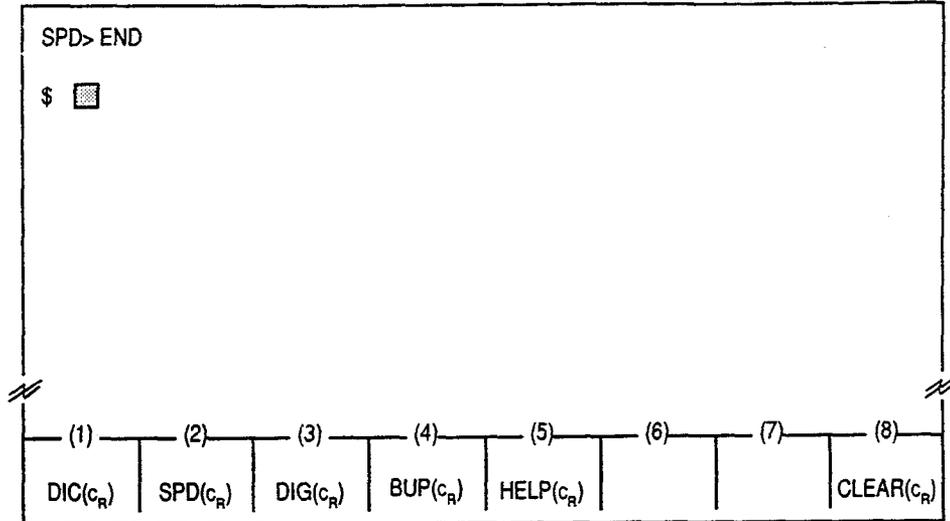
Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

6.00 END Command

Description Used to conclude the Speed Dial Dictionary mode.

Input Format SPD > END

Display Example



Conditions Entering END command concludes Speed Dial Dictionary mode and displays the prompt "\$" which indicates that you can enter another command.

Displayed Message

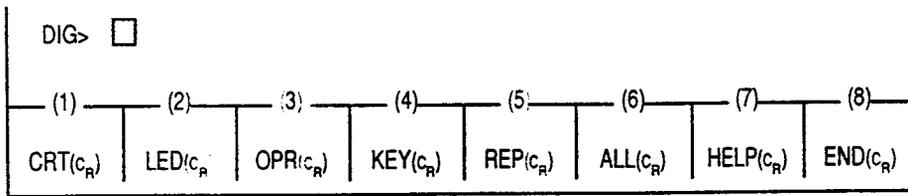
Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

D. Local Diagnosis Mode

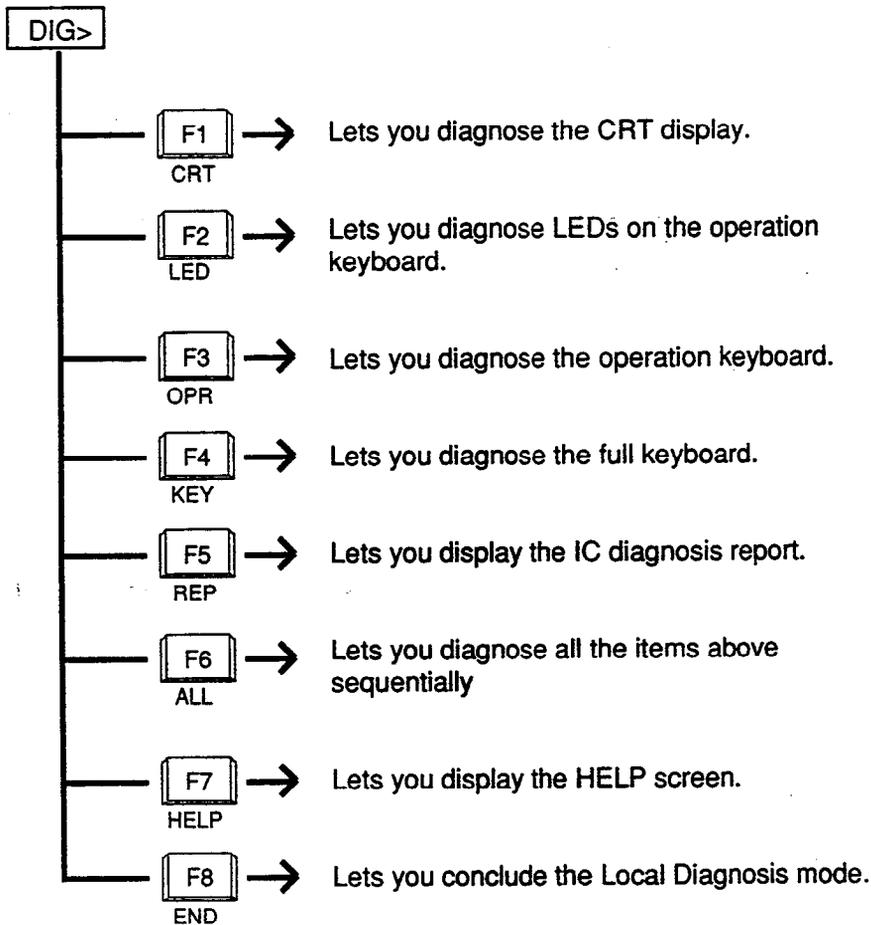
1.00 Summary

Local Diagnosis mode is used to diagnose the CRT, LEDs on the operation keyboard, the operation keyboard and the full keyboard of the Attendant Console.

Pressing the F3 key "DIG (CR)" introduces the following function field, and waits for command entry.



Press the function key for the desired command or directly enter the command from the full keyboard.



The diagnoses above are executed by the main commands only.

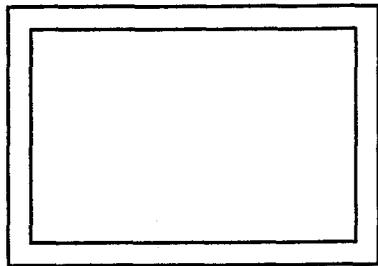
2.00 Diagnosis of CRT

Description Used to diagnose the CRT display.

Input Format DIG>CRT

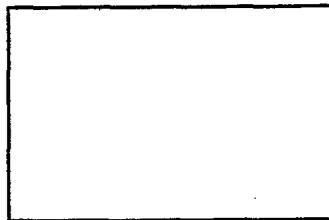
Diagnostic Method Follow the subsequent procedures for diagnosis of CRT.

- 1) When the following outer frame appears, confirm the distortion of vertical and horizontal lines.



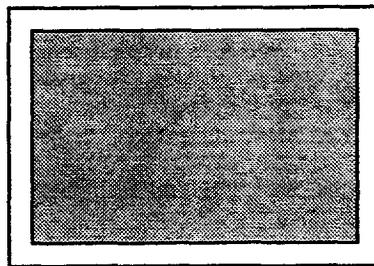
↓ after two seconds

- 2) The outer frame disappears and nothing appears for approximately two seconds.



↓ after two seconds

- 3) The outer frame appears in reverse video.

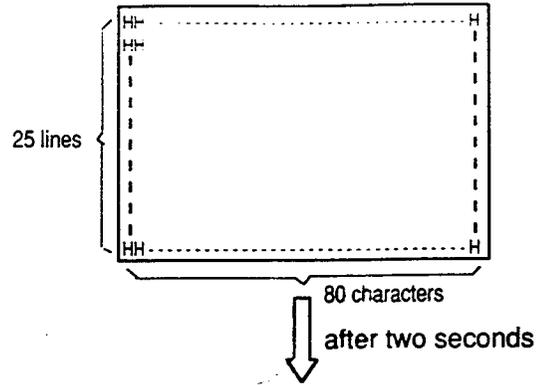


↓ after two seconds

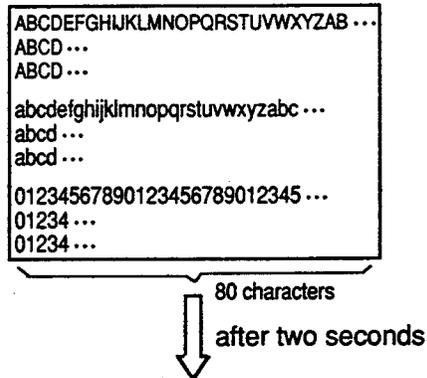
(Continued)

(Continued)

4) The letters "H"s appear.



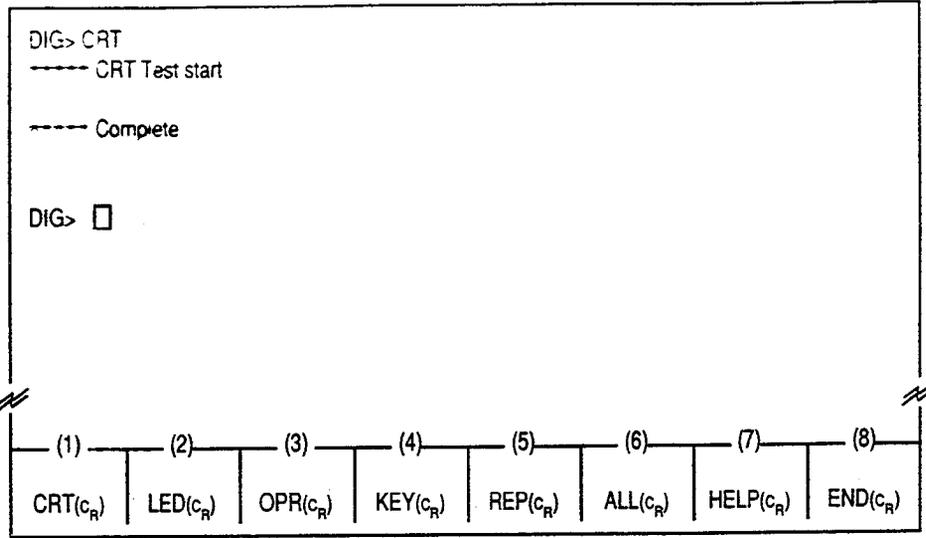
5) Letters and numbers appear.



6) The character generator codes and the attributes appear.

	0123----- F	0123----- F
0	Nj -----	0 -----
1	-----	1 -----
2	-----	2 -----
3	-----	3 -----
4	-----	4 -----
5	-----	5 -----
6	-----	6 -----
7	p -----	7 -----
	NORMAL BLINK REVERSE UNDERLINE	

- 7) After the diagnosis of the CRT display ends, the following display appears and waits for command entry.



Note : Pressing the F8 key or CTRL + C key during the diagnosis stops the diagnosis and displays "Abort."

Displayed Message

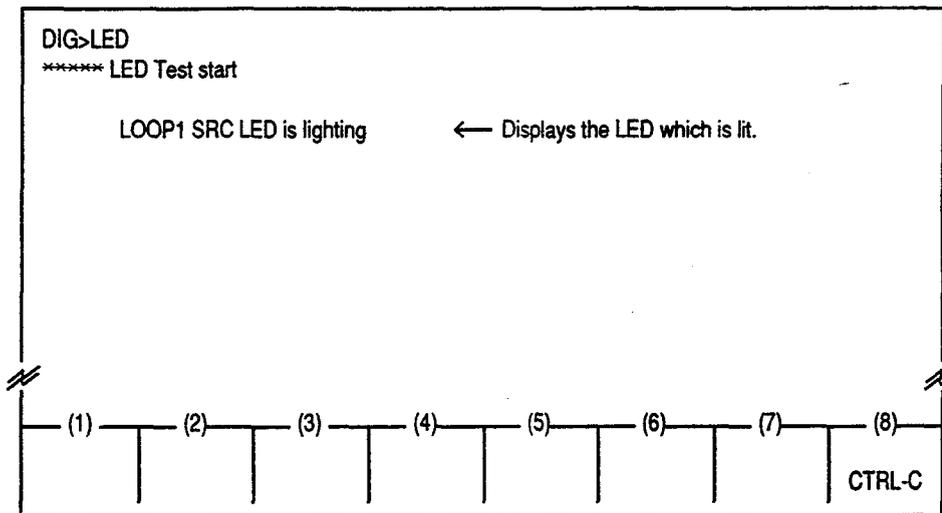
Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

3.00 Diagnosis of LEDs

Description Used to diagnose the LEDs on the operation keyboard.

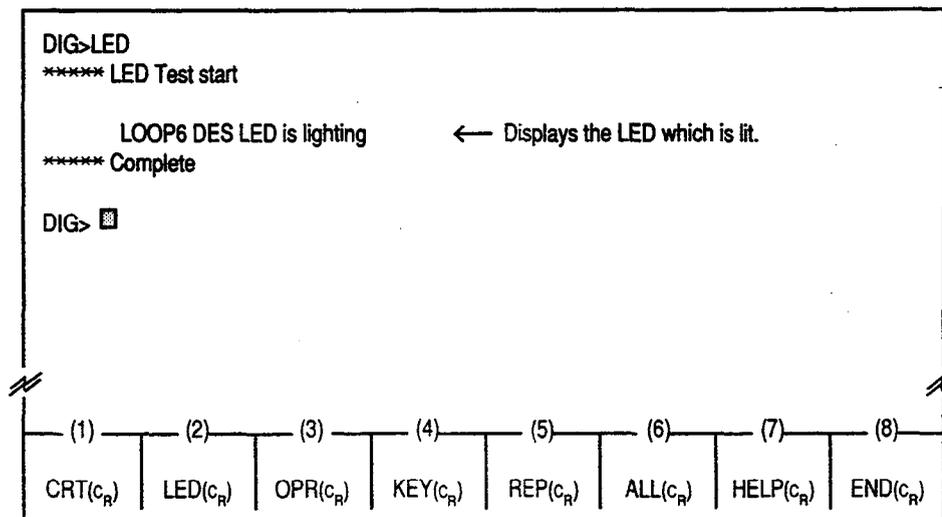
Input Format DIG>LED

Diagnosis Method 1) ALL LEDs on the operation keyboard light in the following order:
 SRC-LOOP 1, LOOP 2, LOOP 3, LOOP 4, LOOP 5, LOOP 6,
 NIGHT, ALARM, DES-LOOP 1, LOOP 2, LOOP 3, LOOP 4,
 LOOP 5, LOOP 6
 Confirm LEDs corresponding to the display on the screen.



Note : Pressing the F8 key or CTRL + C key during the diagnosis stops.. the diagnosis and displays "ABORT."

2) After the diagnosis of LED ends, "Complete" appears and waits for command entry.



Displayed Message

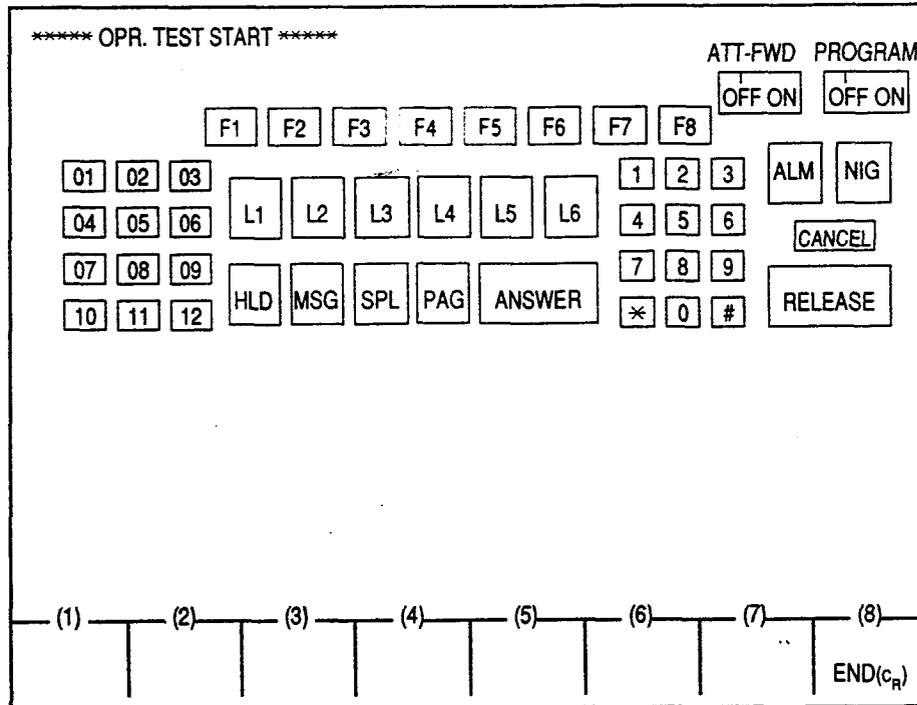
Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

4.00 Diagnosis of Operation Keyboard

Description Used to diagnose the operation keyboard.

Input Format DIG>OPR

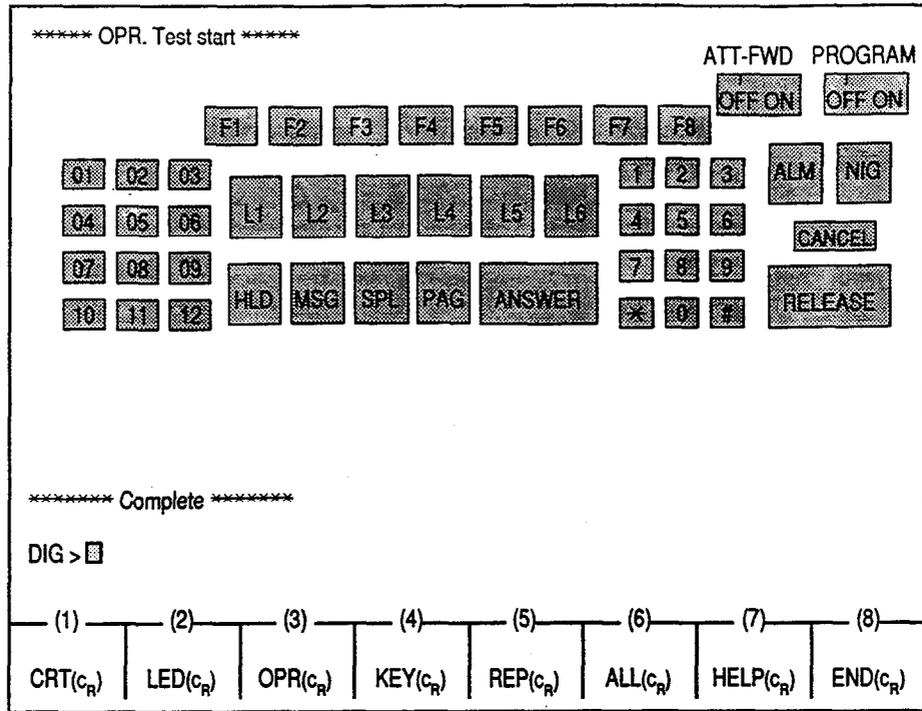
Diagnosis Method 1) When the arrangement of the operation keyboard appears on the CRT screen, confirm that the key pressed on the operation keyboard is displayed in reverse video on the CRT screen.



Note : Pressing the F8 key or the CTRL + C key during the diagnosis stops diagnosis, and displays "ABORT."

Displaying all keys in reverse video means the conclusion of diagnosis of operation keyboard.

- 2) After the diagnosis ends, "Complete" appears and waits for the entry of the next command.



Displayed Message

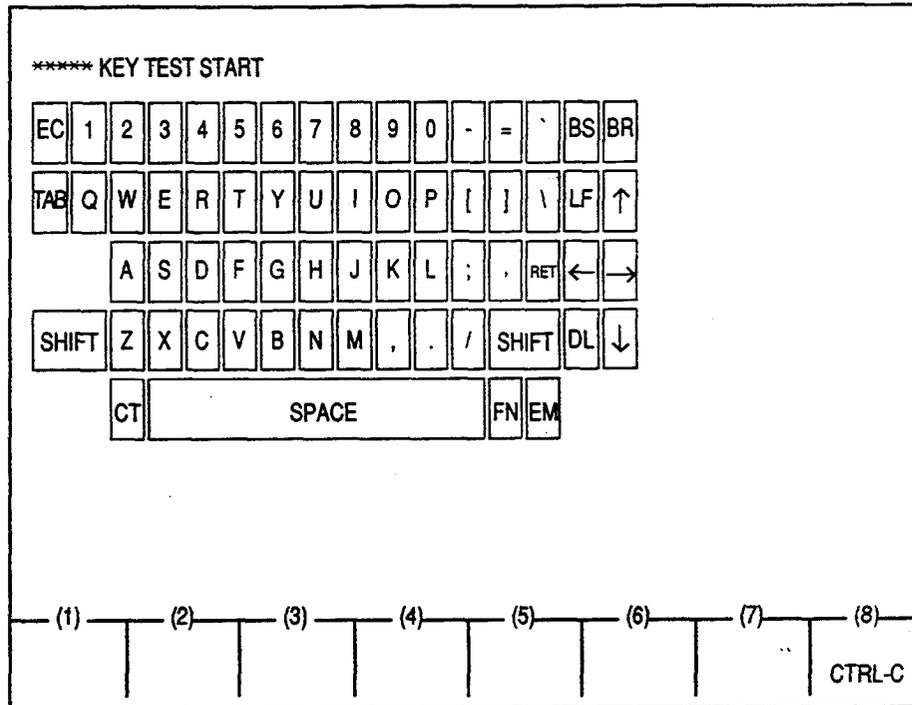
Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

5.00 Diagnosis of Full Keyboard

Description Used to diagnose the full keyboard.

Input Format DIG>KEY

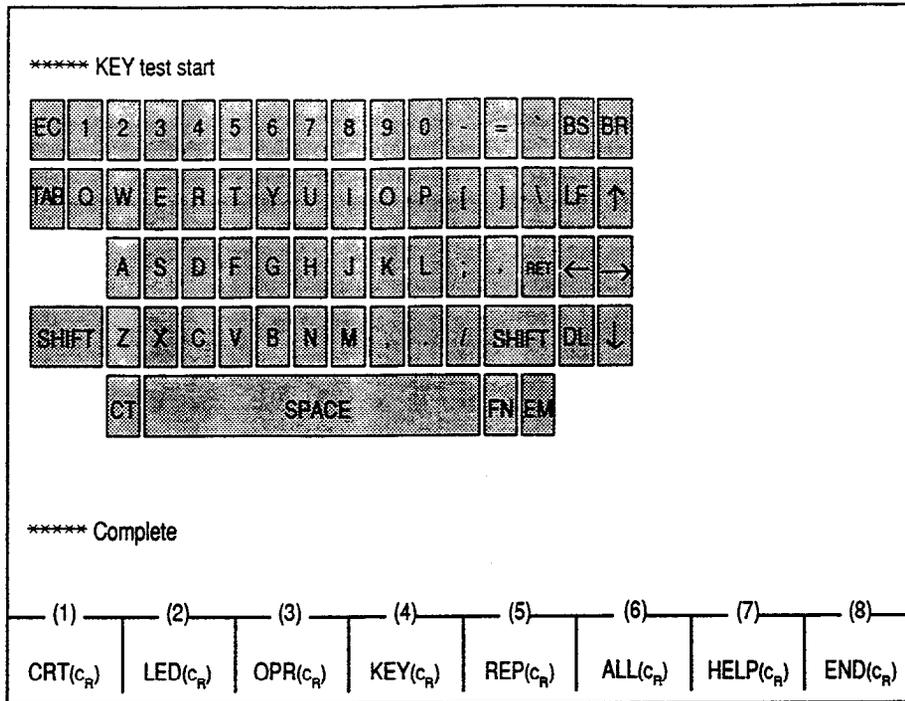
Diagnosis Method 1) When the arrangement of the full keyboard appears on the CRT screen, confirm that the key pressed on the full keyboard is displayed in reverse video on the CRT screen.



Note : Pressing the F8 key or CTRL + C key during the diagnosis, stops the diagnosis, and displays "ABORT."

Displaying all keys in reverse video means the conclusion of diagnosis of full keyboard.

- 2) After the diagnosis ends, "COMPLETE" appears and waits for the entry of the next command.



Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

6.00 REP Command

Description Displays IC diagnosis report performed when the Attendant Console is switched on.

Input Format DIG > REP

Display Example

```

DIG> REP

***** Report the result of IC diagnostic *****

1. ROM      (IC- 3) ----- OK
2. RAM      RAM #1 (IC- 4) ----- OK
             RAM #2 (IC- 5) ----- OK
             VRAM   (IC-56) ----- OK
3. I/O      8259A  (IC-9) ----- OK
             8253A  (IC-9) ----- OK
             8255A  (IC-9) ----- OK
             89322  (IC-10) ----- OK
             8255   (IC-43) ----- OK
             8952   (IC-11) ----- NG
  
```

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

7.00 All Diagnosis

Description Used to diagnose CRT, LED, OPR, KEY and REP sequentially.

Input Format DIG>ALL

Diagnosis Performs diagnosis in order from CRT, LED, OPR, KEY and REP.
After conclusion of all diagnosis, "Complete" appears and waits for the entry of the next command.

Note : Pressing the F8 key or the CTRL + C key stops the current diagnosis with displaying "Abort" and advances to the next diagnosis.

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

8.00 HELP Command

Description Used to display the brief instructions and a list of command related to the Local Diagnosis Mode.
After displaying the HELP screen, prompt "DIG>" is displayed on the screen, and you can perform desired diagnosis by entering the command associated with it.

Input Format DIG>HELP

Display Example

```

DIG>HELP

**** Help for Diagnostic mode command ****

    CRT(cR) : To diagnose CRT.
    LED(cR) : To diagnose LED.
    OPR(cR) : To diagnose operation keyboard.
    KEY(cR) : To diagnose full keyboard.
    REP(cR) : To diagnose the diagnostic result of memory and I/O.
    ALL(cR) : To diagnose all items.
    HELP(cR) : To diagnose the command information.
    END(cR) : To quite the diagnostic mode.

DIG> █
  
```

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
CRT (cR)	LED (cR)	OPR (cR)	KEY (cR)	REP (cR)	ALL (cR)	HELP (cR)	END (cR)

Displayed Message

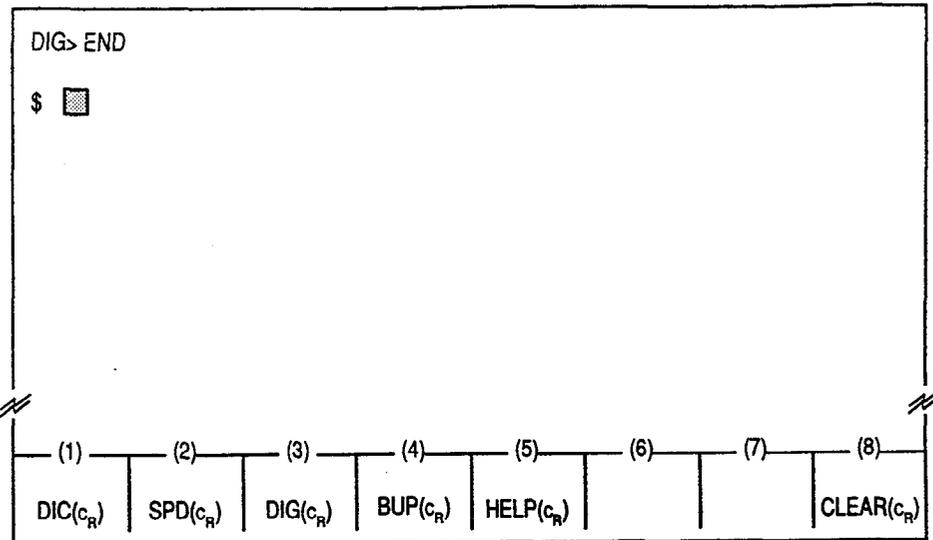
Displayed Message	Meaning
**** Error: Illegal main command	There is an error in the main command.
**** Error: Illegal sub command	There is an error in the sub command.

9.00 END Command

Description Used to conclude the Local Diagnosis mode.

Input Format DIG>END

Display Example



Condition Entering END command concludes Local Diagnosis mode and displays the prompt "\$" which indicates that you can enter another command.

Displayed Message	Displayed Message	Meaning
***** Error: Illegal main command		There is an error in the main command.
***** Error: Illegal sub command		There is an error in the sub command.

E. Backup Mode

1.00 Summary

(Saving Procedure)

Backup mode is used to make a backup copy of the user-programmable attendant console database on a memory location of the PBX for security reason.

The SAVE command is used to initiate the saving procedure.

(Loading Procedure)

If it becomes necessary to re-program the attendant console database, it will be faster to load the saved data form the system memory than manual re-input.

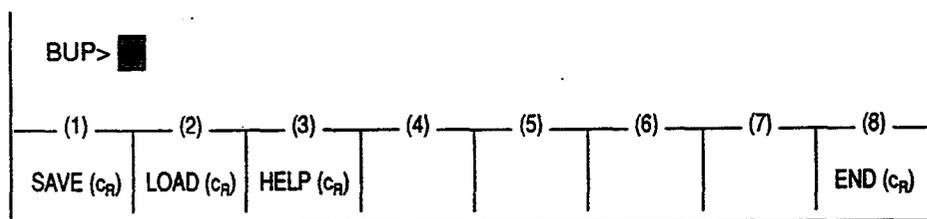
The LOAD command is used to initiate the loading procedure.

Attendant console database consists of Extension Directory data and Speed Dial Dictionary data programmed in the attendant console local mode.

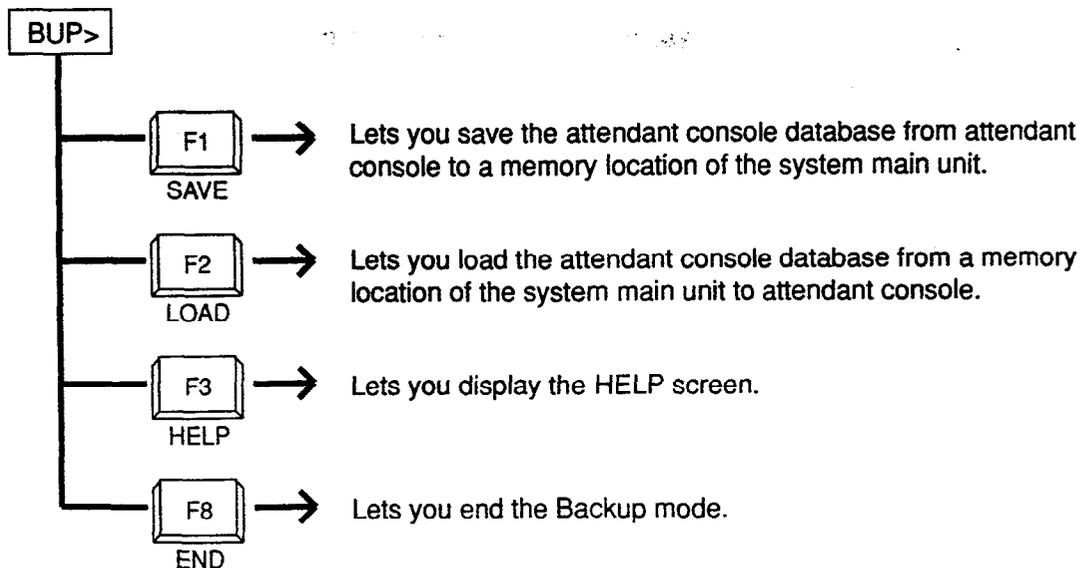
A backup copy of the attendant console database in the system memory location can be saved on an external device, and loaded in to system memory when required.

Refer to Section 16 "Backup Utility-On-site" and Section 17 "Backup Utility-Remote Location" for further information.

Pressing the F4 key "BUP(cR)" in the local mode main menu screen displays the function field below, that shows you four commands available in Backup mode. The "BUP> ■" indicates that you may enter any one of those commands. Press the function key for the desired command, or directly enter the command from the full keyboard.



Press the function key for the desired command, or directly enter the command from the full keyboard.



2.00 SAVE Command

Description The SAVE command is used to make a backup copy of the attendant console database on the memory location of the system main unit.

Input Format BUP>SAVE

Display Example

```

BUP>SAVE

***** Save OK? (Y/N) => Y
***** Complete
    
```

When "SAVE OK? (Y/N)" is displayed on the screen, press "Y" key to put the data into storage on PBX.

Not to save, press "N" key and then the RETURN key.

Conditions A backup copy of the attendant console database can be saved on an external device for further security. Refer to Section 16 "Backup Utility-On-Site" and Section 17 "Backup Utility-Remote Location" for further information.

Displayed Message

Displayed Message	Meaning
***** Save OK? (Y/N) =>	Confirmation Message.
***** Complete	Saving is executed successfully.
***** Save abort	Saving is interrupted.
***** Error : Illegal main command	There is an error in the main command.
***** Error : Illegal sub command	There is an error in the sub command.
***** Error : Can't save	Saving is executed unsuccessfully.

3.00 LOAD Command

Description The LOAD command is used to load a backup copy of the attendant console database that has been stored in the system memory location to the memory location of the attendant console.

Input Format BUP>LOAD

Display Example

```

BUP>LOAD

****- Load OK? (Y/N) => Y
****- Complete
    
```

When "LOAD OK? (Y/N)" is displayed on the screen, press "Y" key to read the data from the main unit to Attendant Console.

Not to read, press "N" key and then RETURN key.

Conditions If the loading operation is performed successfully, a copy of the entire attendant console database is made in attendant console, erasing whatever was previously in it.

Displayed Message

Displayed Message	Meaning
****- Load OK? (Y/N) =>	Confirmation Message.
****- Complete	Loading is executed successfully.
****- Load abort	Loading is interrupted.
****- Error : Illegal main command	There is an error in the main command.
****- Error : Illegal sub command	There is an error in the sub command.
****- Error : Can't Load	Loading is executed unsuccessfully.

4.00 HELP Command

Description Used to display brief instructions and a list of command related to the Backup Mode.

Input Format BUP>HELP

Display Example

```
BUP>HELP

***** Help for local data backup mode command *****

      SAVE(cR) : To save local data to PBX.
      LOAD(cR) : To load local data from PBX.
      HELP(cR) : To display the command information.
      END(cR)  : To quit backup mode.

BUP> █
```

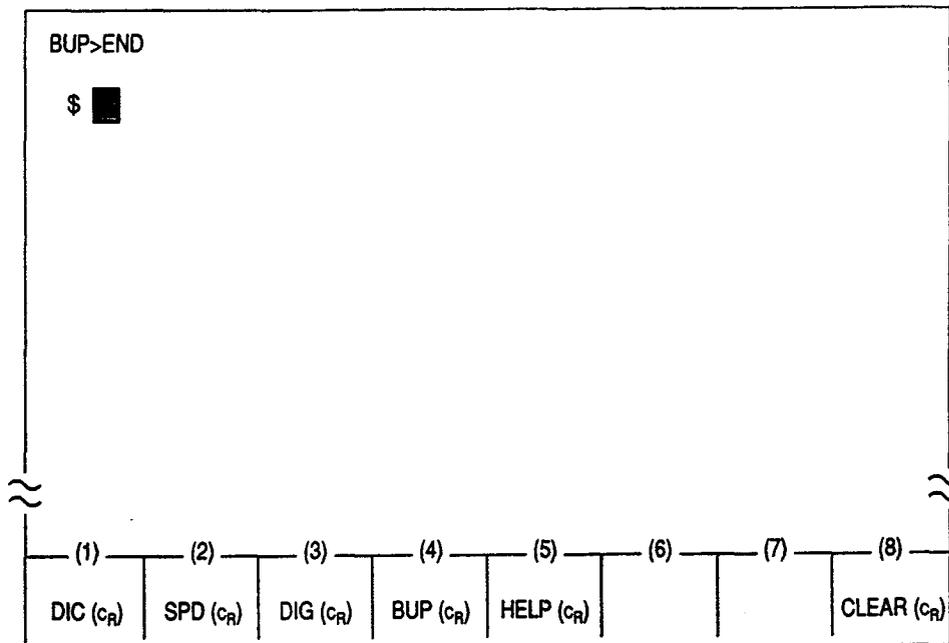
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SAVE (cR)	LOAD (cR)	HELP (cR)					END (cR)

5.00 END Command

Description Used to conclude the Backup mode.

Input Format BUP>END

Display Example



Conditions Entry of END command concludes Backup mode, and display the prompt "\$" which indicates that you can enter another command..

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

F. HELP Mode

Description Used to display brief instructions and a list of command related to the entry of various modes.

Input Format \$ HELP

Display Example

```

$ HELP

***** Help for entering each mode *****

    enter the EXT directory    =>  DIC
    enter the SPD dictionary   =>  SPD
    enter the diagnostic mode  =>  DIG
    enter the backup mode     =>  BUP
    help for using command     =>  HELP
    clear the ATT local data   =>  CLEAR

$ █

(1) (2) (3) (4) (5) (6) (7) (8)
DIC (cR) SPD (cR) DIG (cR) BUP (cR) HELP (cR) CLEAR (cR)
  
```

Conditions After displaying the HELP screen, prompt "\$" is displayed on the screen and you can enter the desired mode by entering the command associated with it.

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.

G. Clear Mode

Description Used to clear the entire database programmed in the attendant console local mode.

Input Format \$ CLEAR

Display Example

```

$ CLEAR

***** Data Clear OK ? (Y/N) => Y
***** Data Clear complete

$ █
    
```

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
DIC (cR)	SPD (cR)	DIG (cR)	BUPE (cR)	HELP (cR)			CLEAR (cR)

When "Data Clear OK ? (Y/N)" appears, press "Y" then the RETURN key to clear the data.
 If you do not clear, press "N" then the RETURN key.

After the above operation, prompt "\$" is displayed on the screen and you can enter the desired mode by entering the appropriate command.

Conditions The followings are cleared by executing this command:

- All entries in the Extension Directory (same as if DIC > DELETE */*/*)
- All entries in the Speed Dial Dictionary (same as if SPD > DELETE */*/*)
- All extension numbers in the BLF screen

Displayed Message

Displayed Message	Meaning
***** Error: Illegal main command	There is an error in the main command.
***** Error: Illegal sub command	There is an error in the sub command.
***** Data Clear OK ? (Y?N) =>	Confirmation message.
***** Data Clear complete	Clear is completed.
***** Data Clear abort	Data is not cleared.

Section 14

Maintenance

VT220 and Compatibles

Maintenance

VT220 and Compatibles

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A. Introduction

This section describes the information necessary for monitoring, testing, and maintaining the system using VT220 (VT100) or Compatibles in interactive format.

The modular self-testing capabilities of the system allow most maintenance to be reduced to simple procedures.

You can administer the system programming and maintenance of the system using a VT220 (VT100), Compatibles, Dumb terminals or an Attendant Console.

Only one terminal can be performing system administration at any one time.

Changing the System Administration Device is done by programming.

To execute the change, you must exit system administration mode and then reenter system administration mode.

B. System Administration

1.00 On-Site Administration

1.01 Logging in to the System

Description

You can administer the system programming and maintenance of the system using a VT220 (100), Compatibles. For details about communication parameters, refer to Section 9-D-7.00 "Communication Interface."

System Security

For security reasons, access to the administration capabilities of the system is controlled by a password. To prevent an unauthorized person from learning the password, the password characters are not displayed when they are entered.

Password

To gain access to the system administration feature, a valid password (four-digit, alphanumeric characters*) must be entered.

To be recognized by the system, the password must be entered exactly as stored in memory. You must assign eight passwords from the first to fourth levels for on-site operation and the first to fourth levels for operation from a remote location.

The followings are the functions available to each password level.

- The 1st Level : To access to all levels
- The 2nd Level : To set system level parameters.
- The 3rd Level : To set Port level parameters.
- The 4th Level : To read parameters only.

When you log in to the system using the first level password, you can execute all functions, but are increasingly restricted when entering levels 2, 3 and 4.

Those passwords are originally factory programmed, but may be changed when logging in to the system by entering the first level password.

(Refer to Section 7-E "Changing Password.")

* Alphanumeric characters

ASCII codes except special codes (DEL, ESC etc.). However, entering "/", "~" are not available, because these characters cannot be displayed on the display of PITS.

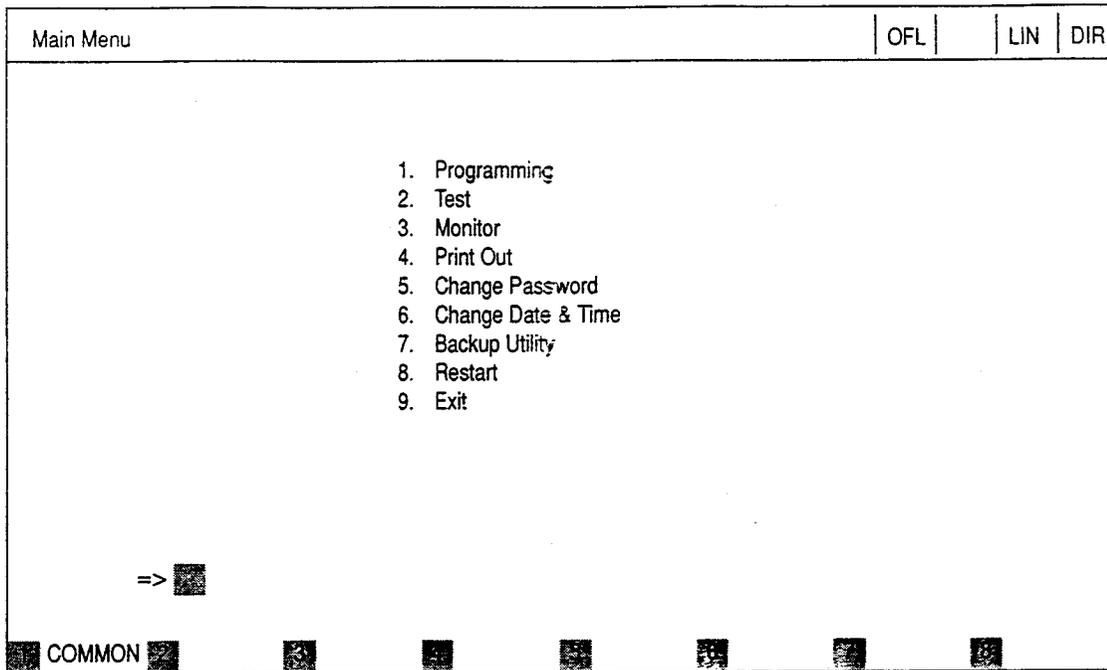
Both uppercase and lowercase characters can be recognized by the system.

Successful Login

When you enter the correct password, the terminal displays the Main Menu screen from which you can select administration functions. By selecting an item from the Main Menu, you enter a system programming area and can access specific system parameters and features.

1.02 Administration Main Menu screen

Main Menu Screen



Main Menu Items

The following list describes the features you can administer through each of the Main Menu Items: To select an item from the Main Menu, just type the number of the item you want followed by the return key.

- | | |
|--|--|
| 1. Programming
Allows you to administer system-wide programming parameters. | 6. Change Date & Time
Allows you to change the date and time. |
| 2. Test
Allows you to test the status of cards, ports, resources and so on. | 7. Backup Utility
Allows you to save and load the system programming data and the Attendant Console database. |
| 3. Monitor
Allows you to display the error log, card/port/resource status and traffic measurements. | 8. Restart
Allows you to reset the system. |
| 4. Print Out
Allows you to print out the system programming parameters and traffic information. | 9. Exit
Allows you to exit the administration mode. |
| 5. Change Password
Allows you to change the current password. | |

2.00 System Administration from a Remote Location

Description

From a remote location, you can execute system programming, diagnosis and traffic measurements using a VT220 (100), Compatibles or Dumb terminals.

Refer to Section 9-D-7.00 "Communication Interface."

Conditions

- RMT card (Modem) must be installed in the system and register the telephone number of modem in the System-Operation "Remote Directory Number" (FDN: 3-4 digits) for accessing the remote administration feature. For assignment of Remote Directory Number, refer to Section 9-D-1.02 "Operation (2/3)."
- For remote access, a data terminal and modem are required at a remote location.
- Factory programmed 4 types of password from 1st to 4th level for remote operation are provided. Passwords are originally factory programmed, but may be changed at any time. (Refer to Section 7-E "Changing Password.")
- You can execute remote system administration during on-line communication mode only. But when you load the system programming data from a remote location, the system shifts to off-line communication mode automatically. Refer to Section 17-B-2.02 "Loading Procedure" for details.
- Starting up system administration from a remote location can be done only in Dumb mode, so to enter VT mode, press **CTR** key + **V** key simultaneously at the dumb mode initial screen.

Operation

Starting up system administration from a remote location can be done in the following ways:

- Dial "Remote Directory Number" using Direct Inward System Access (DISA) feature. For further information about "Remote Directory Number," refer to Section 9-D-1.02 "Operation (2/3)." And for further information about DISA feature, refer to Section 3-D-2.02 "Direct Inward System Access (DISA)."
- Program DID feature so that the incoming telephone number is converted to the "Remote Directory Number." For further information about DID feature, refer to Section 3-D-2.03 "Direct Inward Dialing (DID)."
- Assign that a call from a remote-location can access the Remote Administration feature automatically using DIL (1:1) feature. For further information about DIL (1:1) feature, refer to Section 3-D-2.01 "Direct In Line (DIL)."
- Remote access with assistance of the operator. The call from a remote location can be made on any trunk into the system, and be answered by the operator. The call is then placed on hold and the Remote Directory Number of the system dialed is received. The operator transfers the call after receiving the modem answer tone. The caller at a remote location will then hear the modem answer tone and can proceed with sign-on. For further information, refer to Section 4-F-1.05 "Unscreened Call Transfer to Remote."

When the system administrator at a remote location accesses the system remote administration feature, the following message appears on the display of operator's telephone if display is provided.

1234:RMT Access

After you log in to the system from a remote location, you can operate the system in the same way as if you were on-site.

Only one system administration terminal can access the system at a time.

C. Device Status

1.00 Service Commands and Their Functions

COMMON

Displays the command function mode.

SHOW LV

Lets you display the current password level.

CHG LV

Lets you change the password level.

INS

Changes the status of the target shelf, card, or station to "In Service."

OUS

Changes the status of the target shelf, card, or station to "Out of Service."

REMOVE

Removes the programmed parameters of target device (when removing a device).

EXIT

Exits the general command mode and displays the current command function screen.

INDEX

Lets you enter a specific programming screen.

COPY

Lets you copy programming parameters.

READ

Lets you read parameters from any programming screen.

HRD CPY

Lets you print out the displayed programming parameters.

AUTOCNF

Lets you assign the telephone type to the system.

Refer to Section 7-J "Execution of Function Modes" for details about command functions.

1.01 INS (In Service) Command

Description

Changes the status of the target device (shelf, card, port, station etc.) to "In Service" in on-line communication mode.

Conditions

The status of the specified devices (shelf, card, port, station) should be "OUS" or "FAULT."

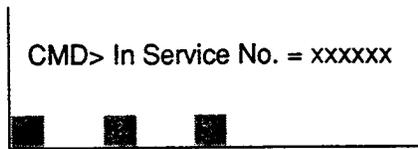
When you change the status of a lower device (port, station) to "INS," the upper device (shelf, card) should be changed to "INS" status beforehand.

If you try to change the lower device (port, station) status to "INS" while upper device (shelf, card) is in "OUS" status, the error message "Invalid Status" appears on the screen.

Operation

Press the function key INS.

```
CMD> In Service No. = xxxxxx
```



Enter the number of the desired device.
For input values, see below:

Device	Input Value
Shelf	1 to 3 (physical number)
Card	101 to 315 (physical number)
Port	1011 to 3158 (physical number)
Station	DNxxxx (xxxx: extension number; three or four digits) or Physical number: four digits
ATT	A1 or A2 or Physical number: four digits
DTMF	Rxxxy (xxx:Card number; y: 1 or 2)
CNF	CFBxx or CFOyy (xx: 01 to 08, yy: 01 to 64)

Refer to Section 14-F "Functional Test by Entering Commands" for details about test command.

When you change the status of an upper device, the status of lower devices changes as follows.

```
Upper device  OUS → INS
Lower device  OUS → INS
              Fault → Fault
```

```
Upper device  Fault → INS
Lower device  Fault → INS
              OUS  → OUS
```

Normal operation

The following message appears on the screen.

```
***** OK
```

Operation failed

An error message appears on the screen in the following cases.

- Parameter error
- Not installed
- Status error
- INS failure (Diagnostic error)

1.02 OUS (Out of Service) Command

Description

Changes the status of the target device (shelf, card, station etc.) to "Out of Service" in on-line communication mode.

Conditions

The status of target devices (shelf, card, port, station) should be "INS."

If the system administration terminal is an Attendant Console (ATT), do not change the status of the following devices from "INS" to "OUS."

- Shelf in which ATLC card is installed
- ATLC card
- Attendant console assigned as the System Administration Terminal

During a remote operation, do not change the status of the following devices from "INS" to "OUS."

- Shelf in which RMT card is installed
- RMT card (Modem)

Operation

Press the function key OUS.

```
CMD>Out of Service No. = xxxx
```



Enter the number of the desired device. Four input values, see below:

Device	Input Value
Shelf	1 to 3 (physical number)
Card	101 to 315 (physical number)
Port	1011 to 3158 (physical number)
Station	DNxxxx (xxxx: extension number; three or four digits) or Physical number: four digits
ATT	A1 or A2 or Physical number: four digits
DTMF	Rxxxy (xxx:Card number; y: 1 or 2)
CNF	CFBxx or CFOyy (xx: 01 to 08, yy: 01 to 64)

Refer to Section 14-F "Functional Test by Entering Commands" for details about the test command.

When you change the status of an upper device (shelf, card), the status of lower devices (port, station) changes as follows.

```
Upper device    INS  → OUS
Lower device    INS  → OUS
                Fault → Fault
```

Normal operation

The following message appears on the screen.

```
***** OK
```

Operation failed

An error message appears on the screen in the following cases.

- Parameter error
- Not installed
- Status error

2.00 Definition of Operating Status

2.01 Shelf, Slot, Resource

Not-Installed:

Programming data for the target device are not entered at all. In other words, even if the device is physically installed in the system, no programming has been performed.

Out of Service (OUS):

Programming data for the target device is entered, but the target device is not assigned to the system.

In Service (INS):

The target device is operating normally.

Fault (FLT):

The device is defective (hardware).
In this case the LED indicator on the card is lit.

2.02 Port

Not-Installed:

The slot (upper device of port) is not programmed even though the card may be physically installed.

Pre-Installed

Programming data for the slot (upper device of port) is entered, but programming data for the port is not entered.

Out of Service (OUS):

Programming data for the target device is entered, but the target device is not assigned to the system.

In Service (INS):

The target device is operating normally.

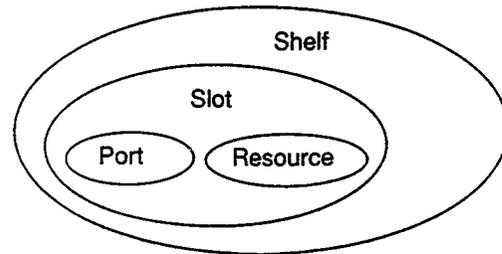
Fault (FLT):

Defective device (hardware).

2.03 Interactions among Devices

Interactions among Shelf, Slot, Port and Resource are as follows.

Shelf>Slot>Port, or Shelf>Slot>Resource
(See the illustration below)



* The resource is a lower device of a slot. There are no interactions between resources and ports.

(Example)

PB receiver on the SLC (Single Line Telephone Circuit) card.

2.04 Changes of the Shelf Status

Removing the Expansion Shelf

When attempting to remove the expansion shelf, the status of devices (slot, port, resource) in the target shelf should be changed to "Not-installed" beforehand.

When you change the status of target shelf, the status of devices in the shelf changes as follows.

1. INS → OUS

Expansion Shelf	INS → OUS
Slot	INS → OUS
Port	INS → OUS
Resource	INS → OUS

No changes in other status

2. OUS → INS

Expansion Shelf	OUS → INS
Slot	OUS → INS
	Fault (defective device)
Port	OUS → INS
	Fault (defective device)
Resource	OUS → INS
	Fault (defective device)

No changes in other status

3. INS → Fault

Expansion Shelf	INS → Fault
Slot	INS → Fault
Port	INS → Fault
Resource	INS → Fault

No changes in other status.

4. Automatic recovery (Fault → INS)

Device in "Fault" status becomes in good status without any special care.

Expansion Shelf	Fault → INS
Slot	Fault → INS
Port	Fault → INS
Resource	Fault → INS

No changes in other status.

In case of "2. OUS → INS" and "3. INS → Fault", don't care about "Fault" status of lower device.

(Note)

Up to two optional Expansion Selves (1 and 2) can be connected to the system for enlargement of system's ability.

2.05 Changes of the Slot Status

Canceling the Slot Assignment

Before canceling the slot assignment, the status of ports or resources assigned to the target slot should be changed to "Not-installed" or "Pre-installed" beforehand.

Slot Assignment

The status of ports and resources installed in the target slot.

HLC → Pre-installed
PLC → Pre-installed
SLC → Pre-installed
LCOT → Pre-installed
GCOT → Pre-installed
DID → Pre-installed
ATLC → Pre-installed
OPX → Pre-installed
DPH → Pre-installed
DISA → OUS
AGC → OUS
RMT → OUS
Resource (DTMF receiver) → OUS

When you change the status of target slot, the status of devices (port, resource) in the slot changes as follows.

1. INS → OUS

Slot INS → OUS
Port INS → OUS
Resource INS → OUS

No changes in other status.

FIFO communication is terminated.

2. OUS → INS

Slot OUS → INS
Port OUS → INS
 Fault (defective device)
Resource OUS → INS
 Fault (defective device)

No changes in other status.

3. INS → Fault

Slot INS → Fault
Port INS → Fault
Resource INS → Fault

No changes in other status.

FIFO communication is terminated.

4. Fault → INS

Slot Fault → INS
Port Fault → INS
Resource Fault → INS

No changes in other status.

FIFO communication begins.

In case of "3. INS → Fault," "4. Fault → INS" the "OUS" status of lower devices doesn't change.

D. Self-Test (System-Detected Troubles)

1.00 Error Record Display

1.01 Start Time of Self-Test

Built-in diagnostic self-test program monitors the troubles generated by hardware or software. To perform the self-test, assign the desired start time of self-test in "System-Operation" Start Time of Test.

Be careful not to access the system during this test.

Refer to Section 9-D-1.02 "Operation (2/3)" for programming.

1.02 Error Log

When a system maintenance object begins to fail periodic testing, the system automatically generates an error record. (Refer to Section 14-G-2.00 "Error Log screen.")

Depending on the severity, the record is stored in one of two tables in the Error Log.

The two tables are:

Error Log (1/2) (Major and Minor Alarm)

Up to 15 major or minor error records are stored in this error log. The error tables are organized by time of occurrence. The newest error record appears on the top of the screen.

If more than 15 errors have occurred in that time, error records already stored in the error log will be overwritten, starting with the first.

Error Log (2/2) (Light Alarm)

Up to 15 light error records can be stored in this error log.

Other conditions are the same as error log (1/2).

Each error log screen (1/2)(2/2) exists independently.

Deleting Error Log records (available only when logged in to the system by entering the 1st Level Password only)

When you exit the error log screen, the following message appears on the screen.

=> Error Log clear ? (Y/N)

Error log records can be deleted by entering "Y."

1.03 Printing Out the Automatic Failure Reporting

The error log records can be printed out. First connect the printer to the SIO #2 port on the basic shelf using RS-232C cable, then set "System-operation" SMDR-Error Log to "Yes" by the system programming. Refer to Section 9-D-1.02 "Operation (2/3)" for programming.

1.04 Local Alarm

Description

When the system detects a problem during on-line communication, an alarm message will be displayed on the screen of the Attendant Console or on the display of PITS (if provided) whose owner is assigned as operator 1 by pressing the ALARM key.

Programming

ALARM key (button) assignment

(Attendant Console)

ALARM key (Fixed feature key)

(PITS)

System Programming	Reference	
	VT	Dumb
"Extension-Station (2/3)," DN key Type	9-G-1.02	10-C-24.00
"Extension-Station (3/3)," DSS key Type	9-G-1.03	10-C-26.00

Condition

1. When the system has detected the error, the ALARM LED on the Attendant Console or PITS (Operator 1) automatically flashes in red (Major Alarm) or is lit steady in red (Minor Alarm).
2. Local alarm is not shown if the Operator 1 is an SLT user.
3. If the ALARM button is not assigned to a PITS, the local alarm doesn't show.
4. The local alarm occurs only with operator 1 of each tenant.
5. In case of a PITS without the display, the ALARM LED is lit when the system detects an error. To clear the error message press the ALARM button twice.
6. When multiple troubles occur at a time, only the most serious trouble appears on the screen of attendant console or display of PITS (if provided).

7. The alarm message on the display of PITS (if provided) disappears if making a call from that telephone; an incoming call arrives at that telephone; held call reminder occurs. The alarm message reappears on the display when the PITS goes to on-hook.

Operation

To display the alarm message, press the ALARM key (button) while ALARM LED is flashing or lit steady.

If local alarm occurred during a conversation, press the ALARM key (button) after replacing the handset then the alarm message will be displayed.

- An example of the alarm display

(Attendant Console)

JAN-25-91 6:31 AM MAJOR-ALARM #0410
Basic Shelf power down

(PITS)

ERR 0410 POW DWN

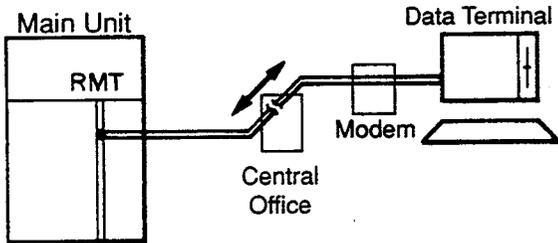
To clear the displayed alarm message, press the ALARM key (button) when the alarm message is displayed. The ALARM LED will be turned off and the alarm message on the display of PITS (if provided) or CRT screen of the Attendant Console disappears.

1.05 Remote Alarm

Description

When the system detects a problem during on-line communication, an error message appears on the screen of the remote maintenance device. For remote access, a data terminal and modem are required at a remote location.

Remote Configuration



Programming

To execute this feature, set "System-Operation," Remote Alarm to "Yes" and register the telephone (Modem) number of the remote administration device in "Destination Address." Installing the RMT card is required for this feature.

System Programming	Reference	
	VT	Dumb
"System-Operation (2/3)" Remote Alarm, Destination Address	9-D-1.02	10-C-4.00

Conditions

Setting "System-Operation (2/3)" Remote Alarm to "Yes" is not available if the RMT card is not installed.

All system-detected error messages are displayed in the error log, but concerning "Local Alarm," or "Remote Alarm", some error messages are displayed and some are not. Refer to Section 14-D-2.03 "Background Diagnostic Error List" for details.

2.00 Clearing System-Detected Troubles

2.01 Introduction

Most system-detected troubles are reported via the alarm LED (light-emitting diode) indicators located on the top shelf, each circuit card, Attendant Console and PITS. The following covers general trouble-clearing techniques and recommended procedures for identifying and clearing a variety of specific system troubles.

You can detect, report, and clear troubles in the following three ways.

- (1) Error Log
- (2) LED indicators on the Main Units
(ALARM LED on the Top shelf, LEDs on the cards)
- (3) User-Reported Error
(Including Automatic Failure Reporting, Local Alarm, Remote Alarm)

2.02 Consulting the Error Log

Consulting the error log should be the first step in diagnosing system-related troubles.

The error log is read by logging in to the system administration terminal, selecting the Main Menu item "3. Monitor," and then selecting "1. Error Log."

Refer to Section 14-G-2.00 "Error Log Screen."

The error log is comprised of the following two error tables.

Error Log (1/2) (Major and Minor Alarms)

Error Log (2/2) (Light Alarms)

Each error record is reported as one line on the screen.

Error Log (1/2) and Error Log (2/2) use the same format and exist independently.

These error records provide the location of the error, the date and time of the occurrence, and a description of the error.

A typical error record from the error log is as follows:

Error Log (1/2)

MAR-20-90 8:39 AM MAJOR ALARM #0400 Basic shelf power down

1

2

3

4

This record is interpreted as follows:

1. The year, month, date and time of the occurrence.
2. The severity of the error

MAJOR ALARM-Error Log (1/2)

MINOR ALARM-Error Log (1/2)

Blank-Light Error-Error Log (2/2)

3. Error Code

Each error record has a specific error code. You can clear the troubles via the troubleshooting guide corresponding to the error code.

(Refer to Section 14-E-3.00 "Troubleshooting via Error Log Records.")

4. Description

A description of the nature of the error.

2.03 Background Diagnostic Error List

ERRORS	ERROR LOG	AUTO REPORT	LOCAL ALARM	REMOTE ALARM	OTHERS
CPR RAM failure	X	X	X(MJ)	X	LED (ALARM)
CPR runaway (watchdog timer overflow)	X				
CPR runaway (software timer overflow)	X				
TSW clock down	X	X	X(MJ)		PFT, LED
Basic shelf DC power down	X				PFT
Basic shelf AC power down	X	X	X(MJ)	X	LED
Expansion shelf DC power down	X	X	X(MJ)	X	PFT, LED
Expansion shelf AC power down	X	X	X(MJ)	X	LED
Progress tone failure (CPU card)	X	X	X(MJ)	X	LED
Check date/time	X	X	X(MJ)	X	LED
Conference trunk failure (1 trunk)	X	X			
(all trunk)	X	X	X(MJ)	X	LED
CPU shared memory error	X	X	X(MJ)	X	LED
CPU RAM backup battery down	X	X	X(MJ)	X	LED
Device not connect for SMDR	X		X(MJ)	X	LED
Communication failure (LPR)	X	X	X(MJ)	X	LED
LPR ROM checksum error	X	X	X(MJ)	X	LED
LPR RAM failure	X	X	X(MJ)	X	LED
TSW disconnect	X	X	X(MJ)		LED
Card disconnect	X	X	X(MJ)	X	LED
Modem failure	X	X	X(MJ)		LED
LPR memory checksum error	X	X			
Card type error	X	X			
LPR runaway	X	X			
OGM CPU runaway	X	X			
OGM lost	X	X	X(MJ)		
OPX power down	X	X	X(MJ)	X	
OPX power down (bell)	X	X	X(MJ)	X	
DTMF generator failure	X	X	X(MJ)	X	
DTMF receiver failure	X	X	X(MJ)	X	
Tone detector failure	X	X	X(MJ)	X	
HDLC failure	X	X	X(MJ)	X	
Communication failure (ATT/PITS/DPH)	X	X			
OHCA SW failure	X	X	X(MJ)	X	LED
OHCA not installed	X	X			
TSW DTMF generator/receiver failure	X	X	X(MJ)	X	LED

Legend:

MJ-Major Alarm

MN-Minor Alarm

PFT-Power Failure Transfer

LED-Refer to Section 14-E-2.00 "Troubleshooting via the LED indicators."

X : applied

Blank : not applied

E. Troubleshooting Guide

1.00 Introduction

This subsection uses system troubleshooting flow charts to guide the service personnel in efficient and systematic testing and fault location.

The system troubleshooting flow charts provides service personnel with a step-by-step sequence to use for system evaluation. Isolated steps in a flow chart should never be used out of context, since any step assumes that proper results were obtained on all previous tests.

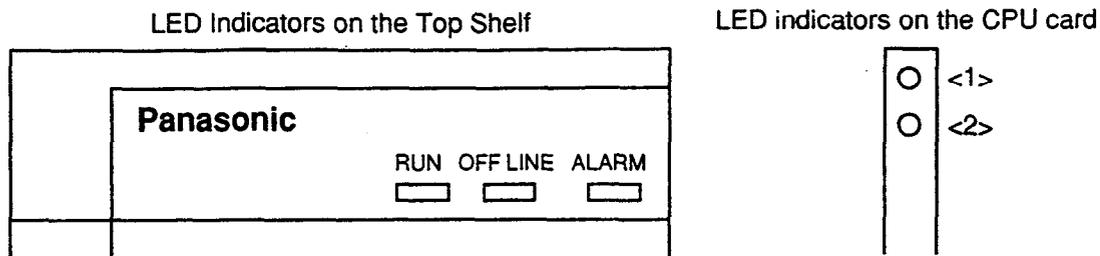
2.00 Troubleshooting via the LED Indicators

When the system detects a problem, the alarm LED indicator located on the top shelf will turn red.
(Refer to the figure below)

If the detected trouble is generated by a card, the alarm LED indicator on the card will light up simultaneously.

(Refer to the table below)

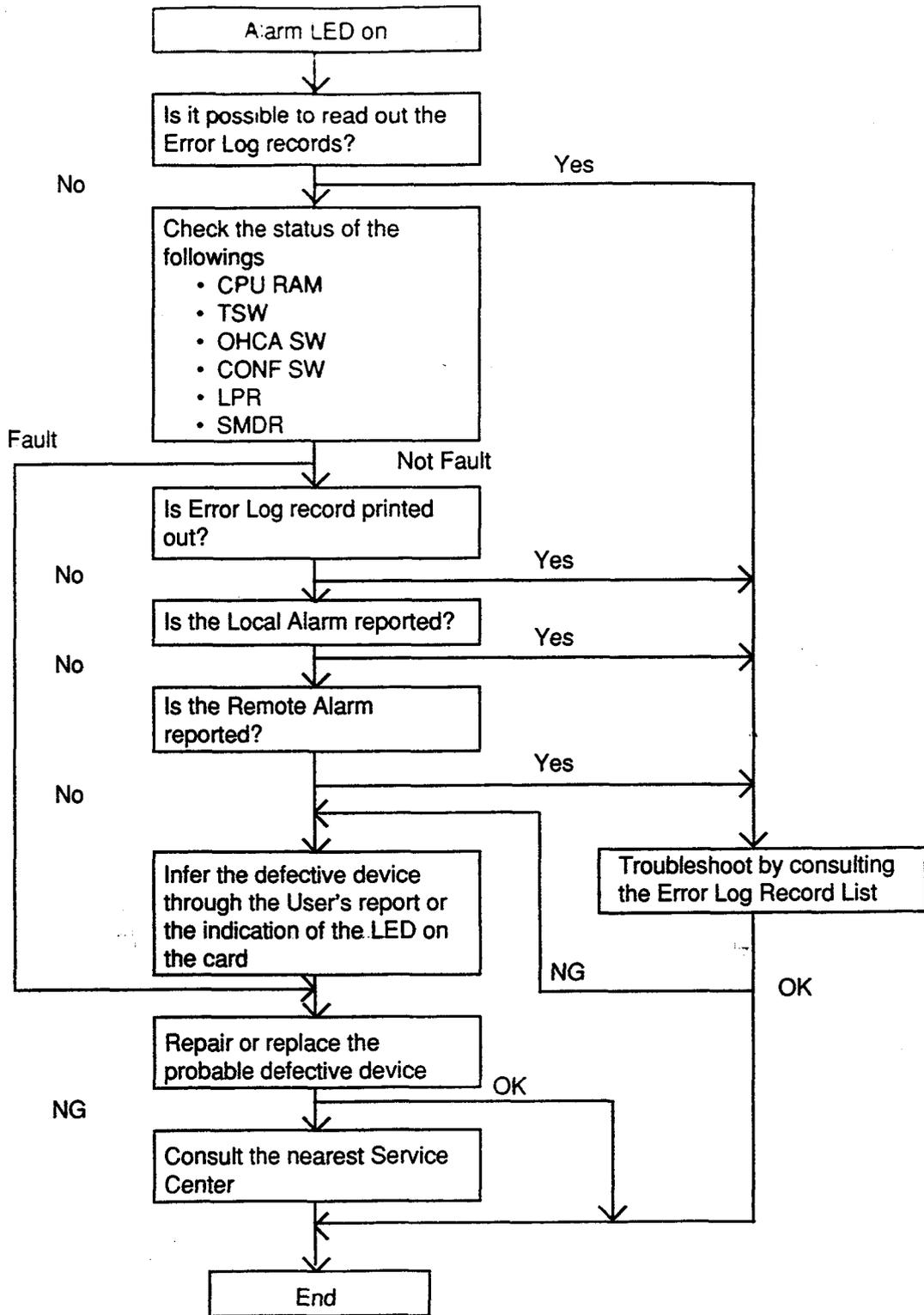
When the trouble is cleared, the alarm LED indicator located on the top shelf goes off automatically.



Location of LED Indicators

Alarm LED on the Top Shelf	LED on the Card	Possible contents	Error Code
ON	ON (CPU<1>)	System Down	None
	ON (CPU<2>)	RAM	0Axx
		Calendar	0700
		Backup Battery	0C00
	ON (TSW)	Clock	0300
		Progress Tone	0600
		Optional Conference TSW	0900
		OHCA TSW	D000
		DTMF G/R for test	FFFF
	ON (LPR)	Link	10xx
		Card Type Error	21xx
		ROM	11xx
		RAM	12xx
		MODEM	14xx
	None	Card is not installed	13xx
		AC/DC Power Supply	0410
0500			
SMDR Communication		0510	
		0B00	

Troubleshooting via the LED indicators



3.00 Troubleshooting via Error Log Records

3.01 Error Log Record List

Background Diagnostic Errors

ERR CODE	Severity	AUTOMATIC FAILURE REPORT (SMDR) MESSAGE	LOCAL ALARM MESSAGE		COMMENTS
			ATT	PITS	
0100	MJ				WDT overflow
0200	MJ				soft timer overflow
0300	MJ	TSW clock down	TSW Clock Down	TSW DWN	
0400	MJ	Basic shelf power down			DC power down
0410	MN	Basic shelf power down	B-Shelf POW Down	POW DWN	AC power down
050n	MJ	Expansion shelf n (1/2) power down	E-Shelf POW Down	POW DWN	DC power down
051n	MN	Expansion shelf n (1/2) power down	E-Shelf POW Down	POW DWN	AC power down
0600	MN	Progress tone failure	Tone Failure	DIAL TN	
0700	MN	Check date/time	Check Date/Time	CLCK IC	
0800	MN	Conference trunk failure	CONF TRK Failure	CONF TK	all basic trunk failure
08bb	--	Conference trunk failure			trunk failure
0900	MN	Conference trunk failure	CONF TRK Failure	CONF TK	all optional trunk failure
09tt	--	Conference trunk failure			trunk failure
0Azz	MN	System memory error	SYS Memory Error	SYS MEM	read error
	MJ	System memory error	SYS Memory Error	SYS MEM	write/read error
0B00	MN		SMDR Not Connect	SMDR	
0C00	MN	CPU RAM backup battery down	Battery Down	BATTERY	
10xx	MN	Card link failure	Card Link Failure	CRD LNK	
11xx	MN	LPR ROM checksum error	LPR ROM Failure	CRD ROM	
12xx	MN	LPR RAM failure	LPR RAM Failure	CRD RAM	
1300	MJ	Card disconnect	Card Disconnect	DISCNCT	TSW card
13xx	MN	Card disconnect	Card Disconnect	DISCNCT	
14xx	MN	Modem failure	MODEM Failure	MODEM	
20xx	--	LPR memory checksum error			loaded data failure
21xx	--	Card type error			card type error
22xx	--	LPR runaway			LPR runaway
50xx	--	OGM CPU runaway			OGM CPU runaway
51xx	MN	OGM lost	OGM Lost	OGM LOS	
60xx	MN	OPX power down	OPX Power Down	OPX POW	
61xx	MN	OPX power down (bell)	OPX Power Down	OPX POW	
80xx	MN	DTMF generator failure	DTMF G. Failure	DTMF G.	
9rxx	MN	DTMF receiver failure	DTMF R. Failure	DTMF R.	
Ayxx	MN	Tone detector failure	Tone Detector	TN-DTCT	
Byxx	MN	HDLC failure	HDLC Failure	HDLC	
Cyxx	--	Port link failure			
D000	MN	OHCA SW failure	OHCA sw Failure	OHCA SW	
Dyxx	--	OHCA not installed			
FFFF	MN	TSW DTMF G./R. failure	TSW Failure	TSW FLT	

Legend:

MJ-Major Alarm
 MN-Minor Alarm

3.02 System Reset caused by CPU Runaway (Restart Procedure)

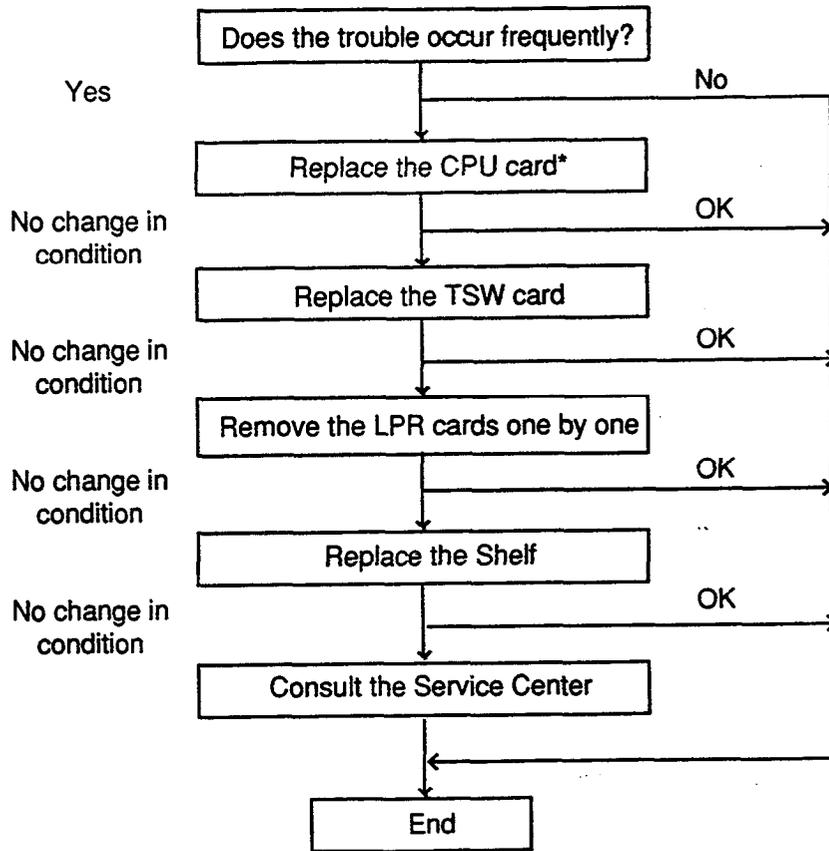
Error Code

0100 = Overflow of the watch dog timer.
 0200 = Software Infinite Loop

Possible cause of the malfunction

- 1) External circumstance, such as introduced noise
- 2) Hardware is defective

Countermeasures



Note

- 1) If a reset occurs 16 times/in one hour due to overflow of the watch dog timer, the restart procedure is not activated and the system will be shut down. Press the RESET button to restart the procedure.

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.03 TSW clock down

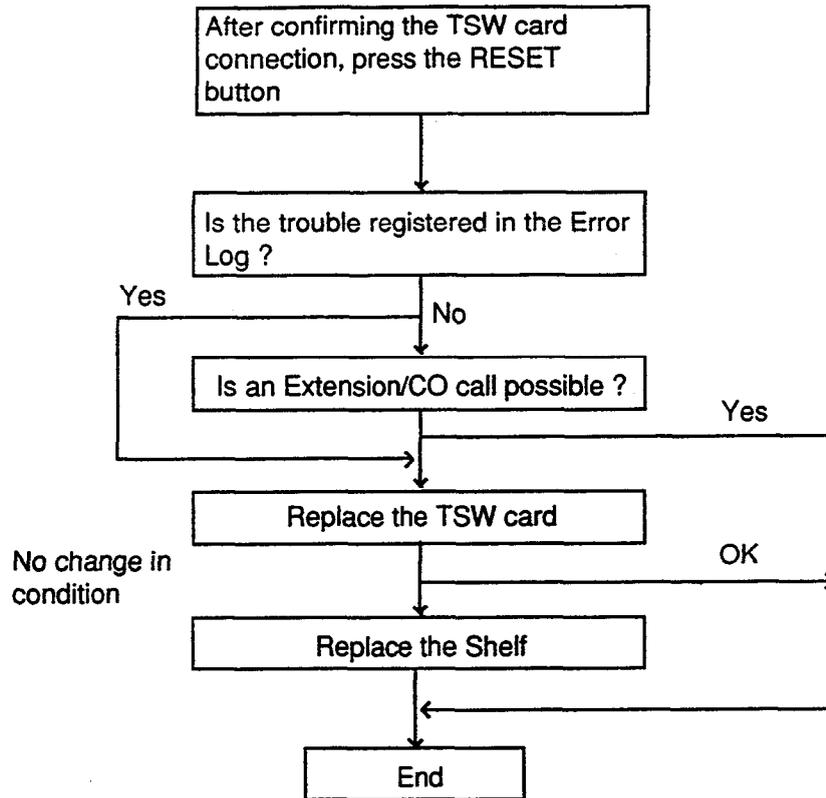
Error Code

0300

Possible cause of the malfunction

- 1) TSW card connection error
- 2) TSW card clock link failure

Countermeasures



Note

- If the TSW clock malfunction occurs:
- 1) The attendant console does not function.
(Communication to the LPR becomes impossible)
 - 2) Calling becomes impossible
 - 3) Power Failure Transfer will be activated

3.04 Basic shelf power down (DC)

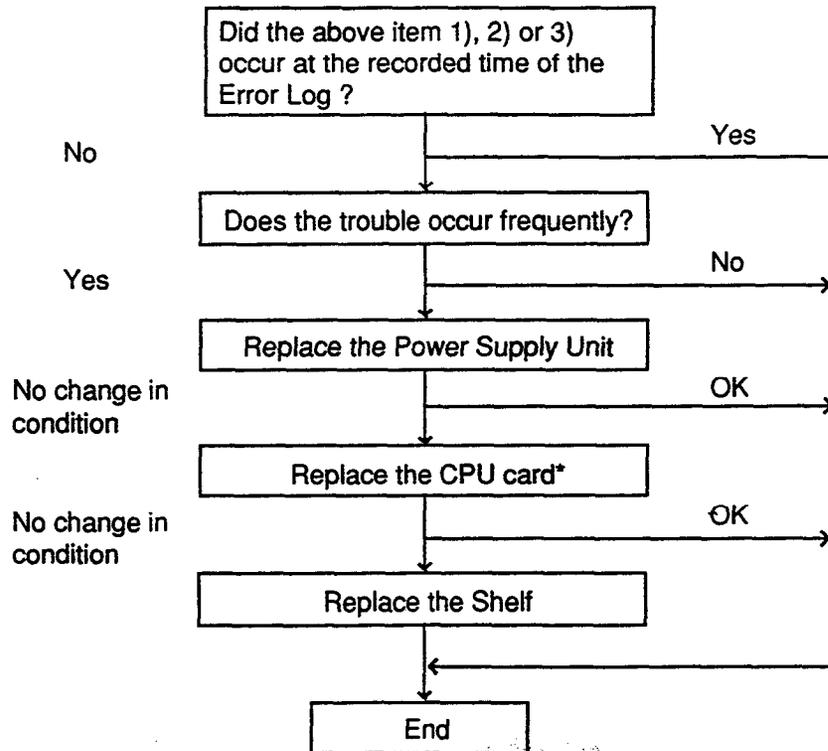
Error Code

0400

Possible cause of the malfunction

- 1) AC power cord is unplugged
- 2) Power Failure
- 3) Power Switch is turned off
- 4) Malfunction in the Power Supply Unit of the Basic Shelf, or the trouble with the Power Supply System (Backboard, CPU card) of the Shelf

Countermeasures



Note

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.05 Basic shelf power down (AC)

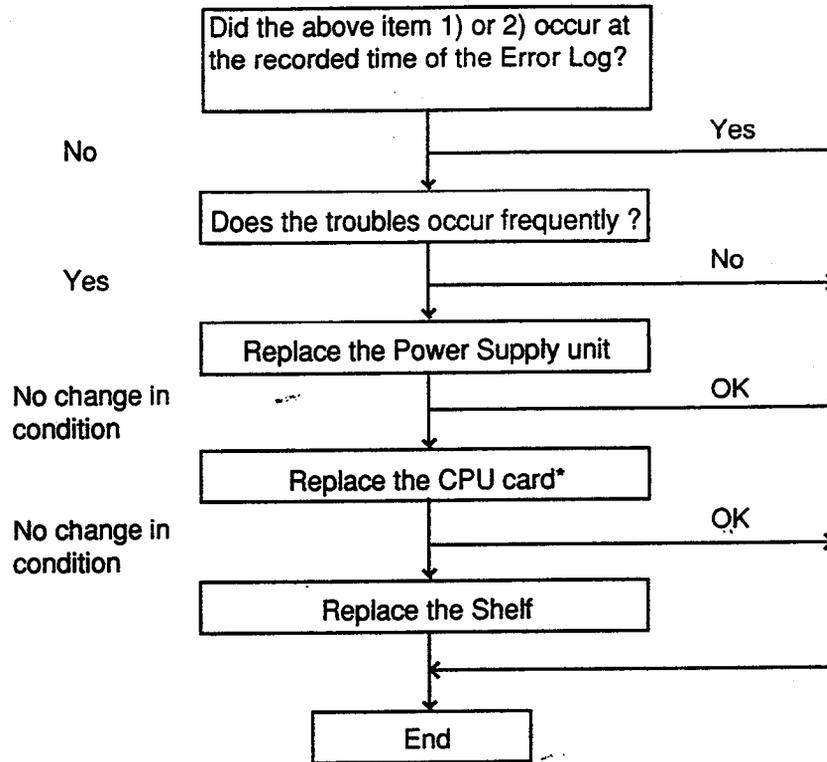
Error Code

0410

Possible cause of the malfunction

- 1) AC power cord is unplugged
- 2) Power Failure
- 3) Malfunction of Power Unit of the Basic Shelf or Power Supply System (Backboard, CPU card) failure of the Shelf.

Countermeasures



Note

- 1) It is desirable to store the system programming data on a floppy disc or tape to facilitate accurate and rapid recovery, considering the limited running time (about 3 years) of the backup battery in case the Power Failure continues for a long time.

3.06 Expansion shelf power down (DC)

Error Code

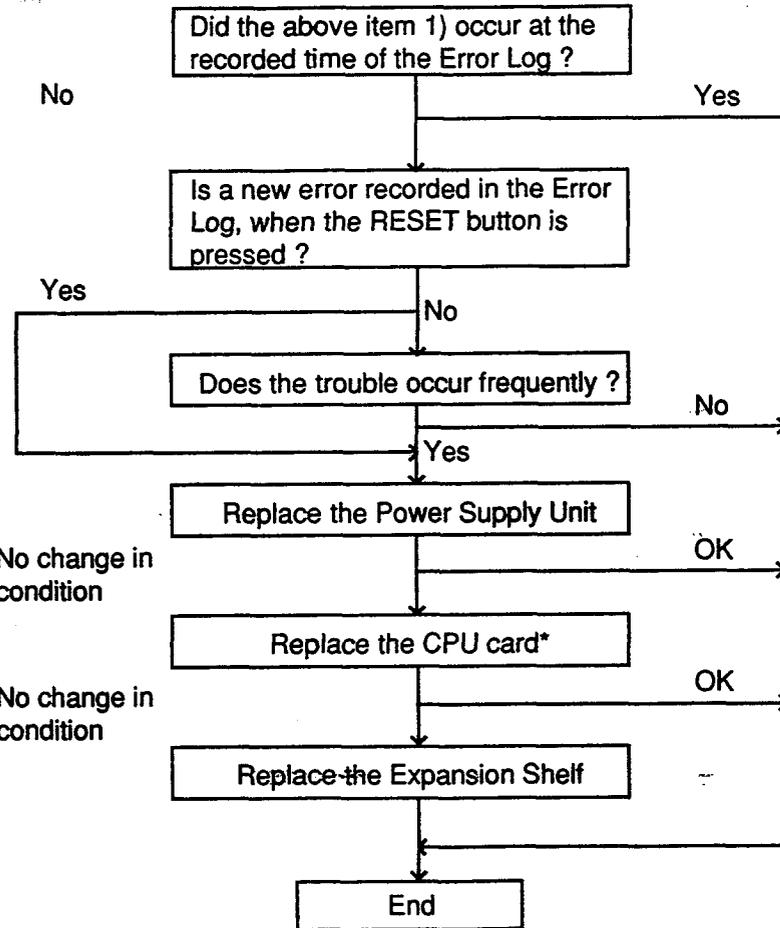
050n

- n = 1 : Expansion Shelf 1
- 2 : Expansion Shelf 2

Possible cause of the malfunction

- 1) Power switch of the Expansion Shelf n (n=1 or 2) is turned off.
- 2) Malfunction of Power Supply Unit of the Expansion Shelf, or trouble with the Power Supply System(Backboard, CPU card) of the shelf

Countermeasures



Note

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.07 Expansion shelf power down (AC)

Error Code

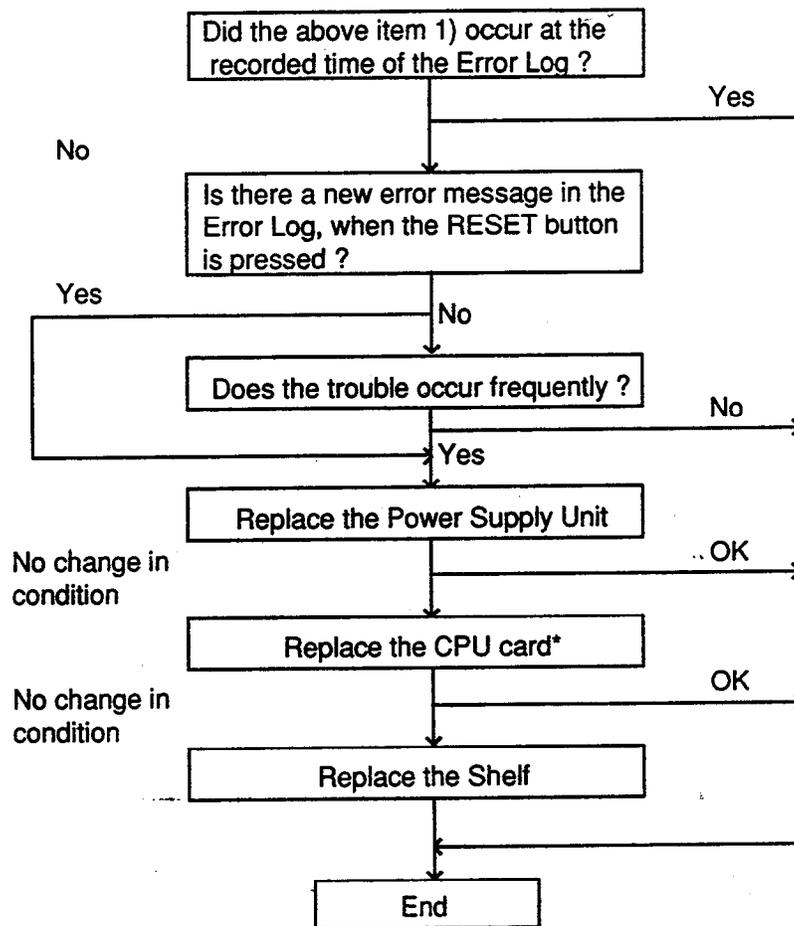
051n

n = 1 : Expansion Shelf 1
 2 : Expansion Shelf 2

Possible cause of the malfunction

- 1) Power failure
- 2) Power Supply Unit malfunction of the Expansion Shelf n (n=1 or 2), or trouble with the Power Supply System (Backboard, CPU card) of the Shelf

Countermeasures



Note

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.08 Progress tone failure (TSW card)

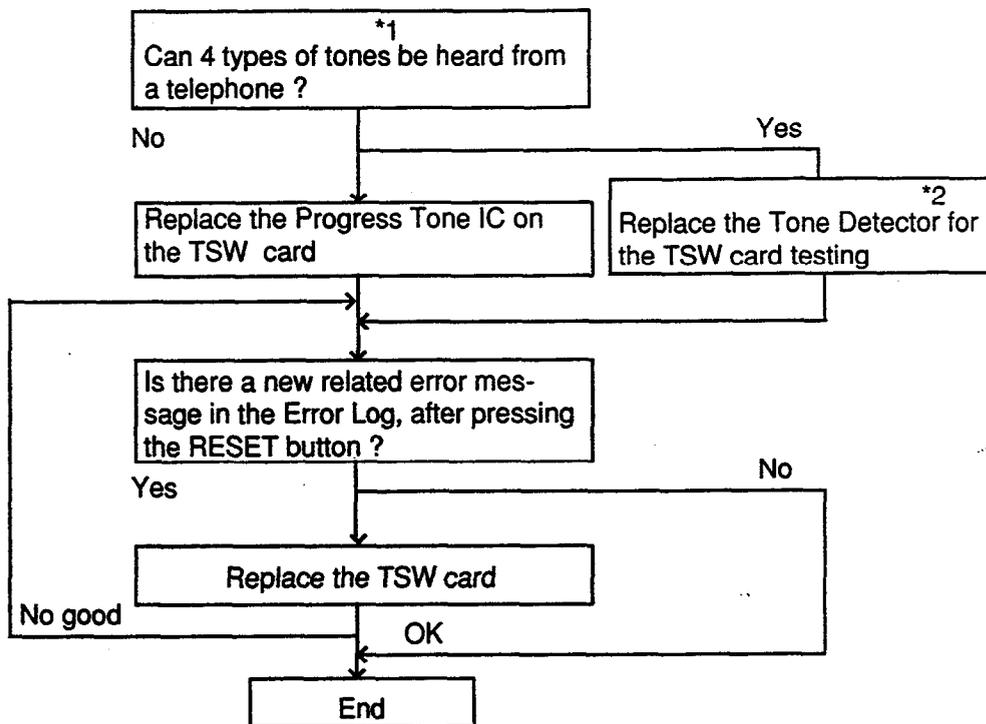
Error Code

0600

Possible cause of the malfunction

- 1) Defective progress tone IC on the TSW card
- 2) Defective Tone Detector on the TSW card

Countermeasures



Note

- 1) Unless the Call Progress Tone failure is cleared, the following item is not executed
 - Tone Detector for the DISA / AGC card

*1. Refer to Section 3-B "Basic Features" for details about the 4 types of tones

*2. Consult the nearest service center

3.09 Check date / time (Real Time Clock IC)

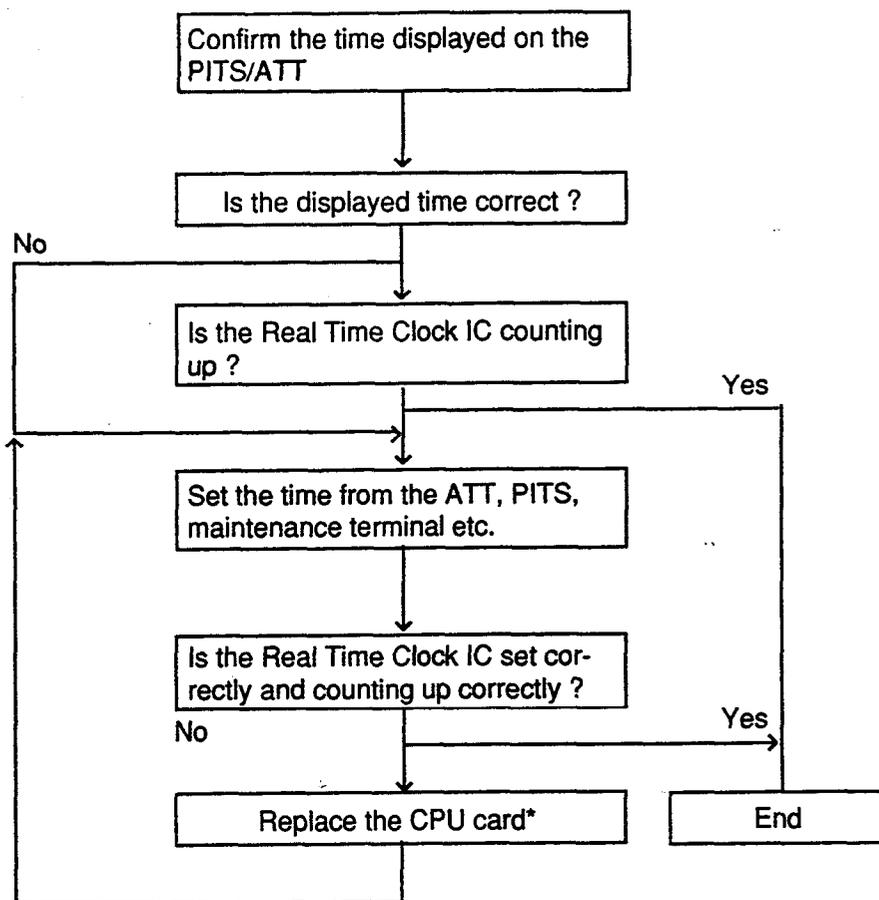
Error Code

0700

Possible cause of the malfunction

- 1) Count up of the Real Time Clock IC is stopped
- 2) Variances between the CPU clock and the calendar clock became greater than ± 30 minutes per 12 hours

Countermeasures



Note

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.10 Conference trunk failure (Basic)

Error Code

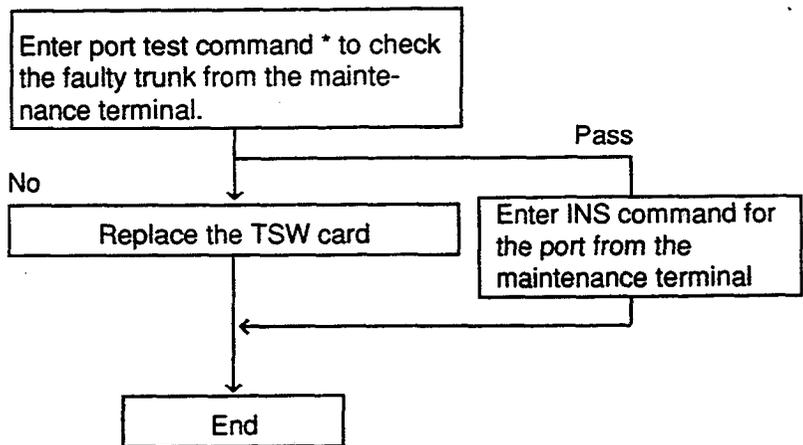
080x

x= 0 : for all basic conference trunks (1 to 8)
1 to 8 : for individual basic conference trunk 1 to 8

Possible cause of the malfunction

1) Basic conference trunk on TSW card failure.

Countermeasures



Note

* Refer to Section 14-F-4.03 "Port Test procedure."

3.11 Conference trunk failure (Option)

Error Code

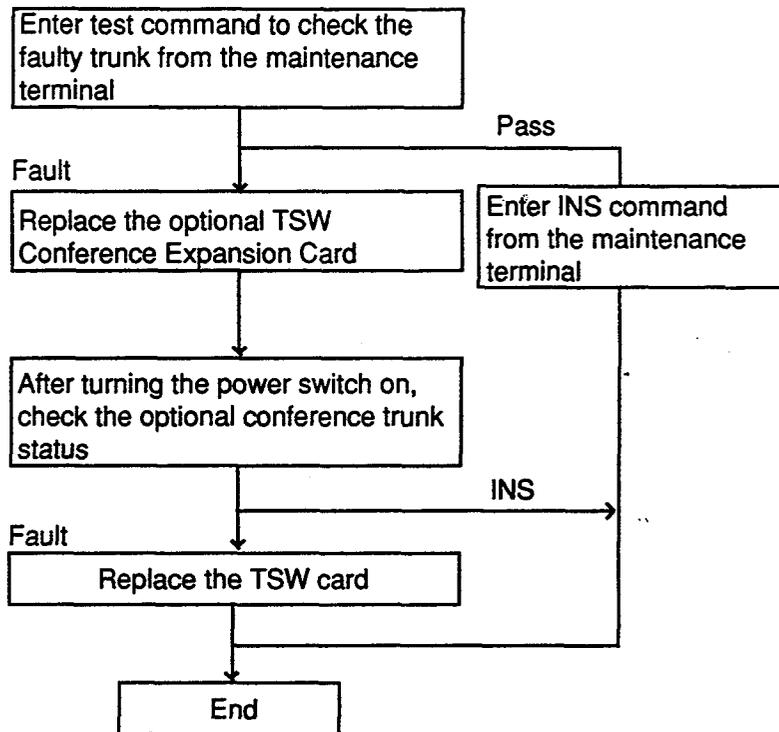
09 xx

xx= 00 : for all optional conference trunks (01 to 64).
01 to 64 : for individual optional conference trunk 01 to 64.

Possible cause of the malfunction

- 1) Optional TSW Conference Expansion card on the TSW card is defective.
- 2) Malfunction of the TSW card.

Countermeasures



Note

None

3.12 System memory error (Major)

Error Code

0Axx

xx= 01 : RAM IC 1

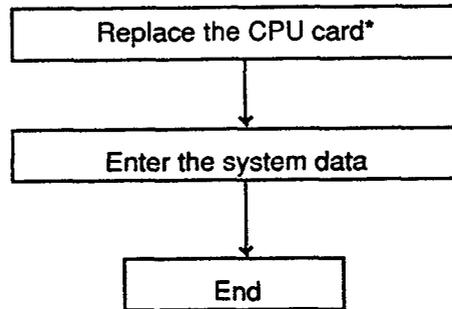
} }

08 : RAM IC 8

Possible cause of the malfunction

- 1) RAM IC of the CPU card failure.
(Including Input/Output bus)

Countermeasures



Note

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.13 System memory error (Minor)

Error Code

0Axx

xx= 01 : RAM IC 1

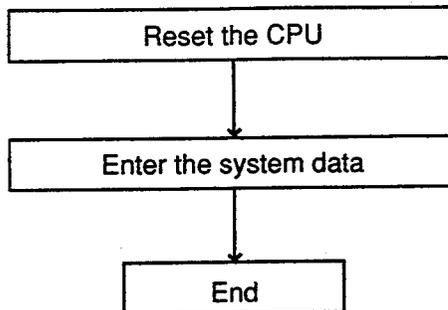
{ }

08 : RAM IC 8

Possible cause of the malfunction

- 1) Intermittent defect of RAM IC on the CPU card.
(Including Input/Output bus)
- 2) Introduced noise.

Countermeasures



Note

None

3.14 Device not connect for SMDR

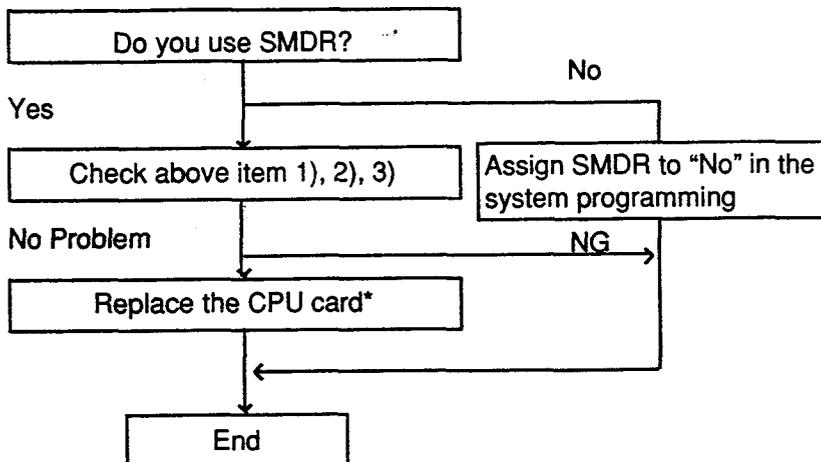
Error Code

0 B 0 0

Possible cause of the malfunction

- 1) RS-232C cable is not connected.
- 2) RS-232C cable is defective.
- 3) Printer is turned off. (including out of paper)

Countermeasures



Note

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.15 CPU RAM backup battery down

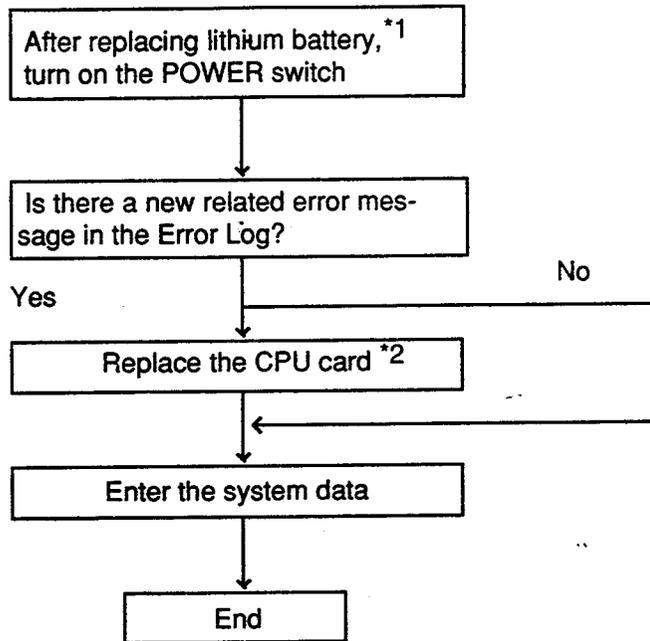
Error Code

0C00

Possible cause of the malfunction

- 1) Defective rechargeable lithium battery on the CPU card
- 2) Defective CPU card

Countermeasures



Note

*1. Consult the nearest service center

*2. It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.16 Card link failure (LPR)

Error Code

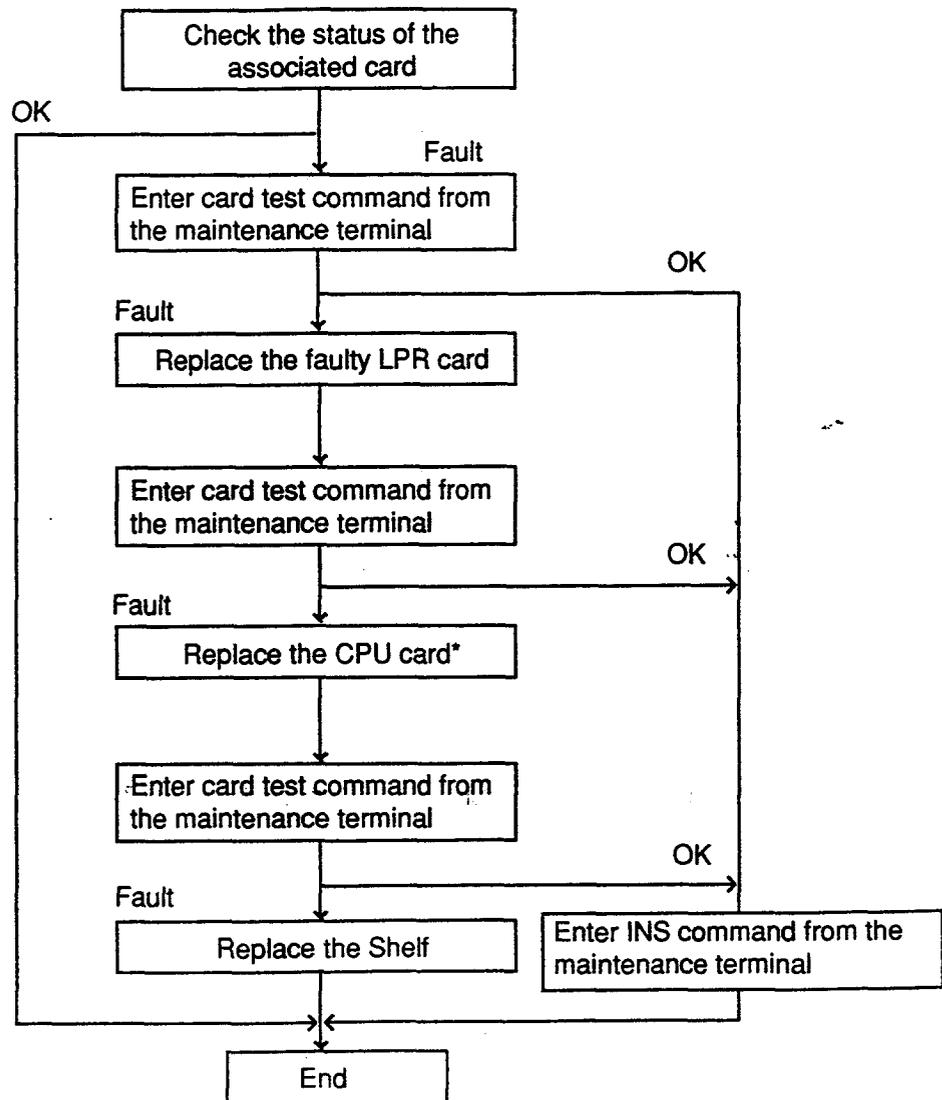
10xx
 xx= 01 to 42 : Slot number

01 to 12	Basic Shelf
13 to 27	Expansion Shelf 1
28 to 42	Expansion Shelf 2

Possible cause of the malfunction

- 1) Defective FIFO (First In First Out) trouble in LPR.
- 2) Input/Output trouble (CPU card, Shelf).

Countermeasures



Note

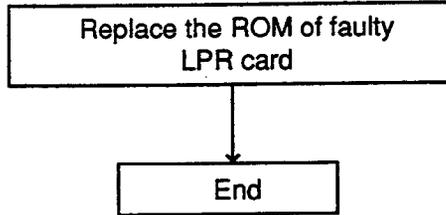
* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.17 LPR ROM checksum error

Error Code 11xx
xx= 01 to 42 : Slot number

Possible cause of the malfunction 1) LPR ROM checksum error

Countermeasures



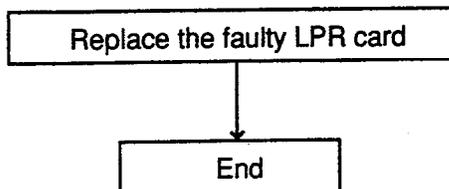
Note None

3.18 LPR RAM failure

Error Code 12xx
xx= 01 to 42 : Slot number

Possible cause of the malfunction 1) LPR RAM failure

Countermeasures



Note None

3.19 Card disconnect

Error Code

13xx

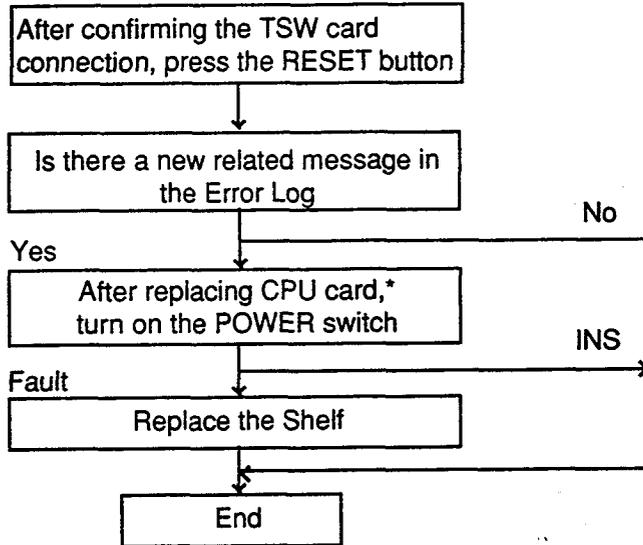
xx= 00 : TSW
01 to 42 : Slot number

Possible cause of the malfunction

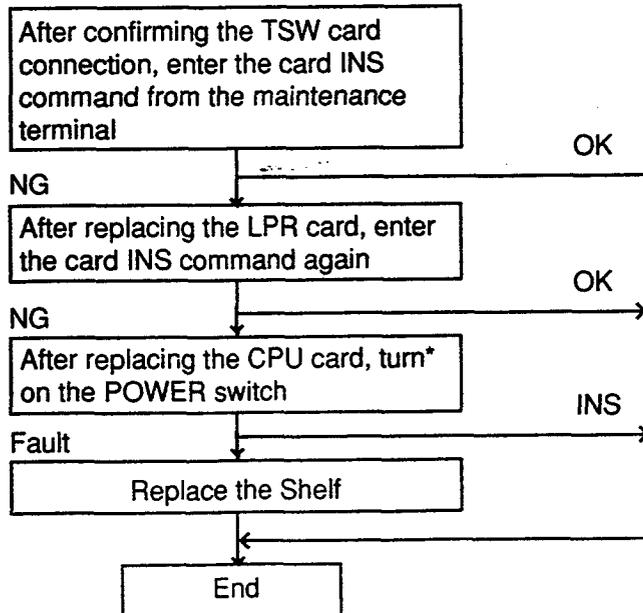
- 1) Card connection error
- 2) Defective CPU card

Countermeasures

TSW



LPR



Note

* It is recommended to have a current copy of the program on disk or tape to facilitate accurate and rapid recovery.

3.20 Modem failure (RMT card)

Error Code

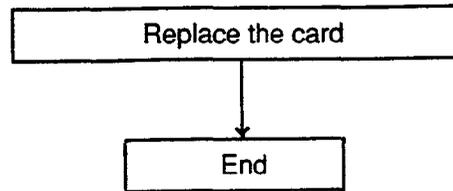
14xx

xx= 01 to 42 : Slot number

Possible cause of the malfunction

1) Modem failure

Countermeasures



Note

None

3.21 LPR memory checksum error

Error Code

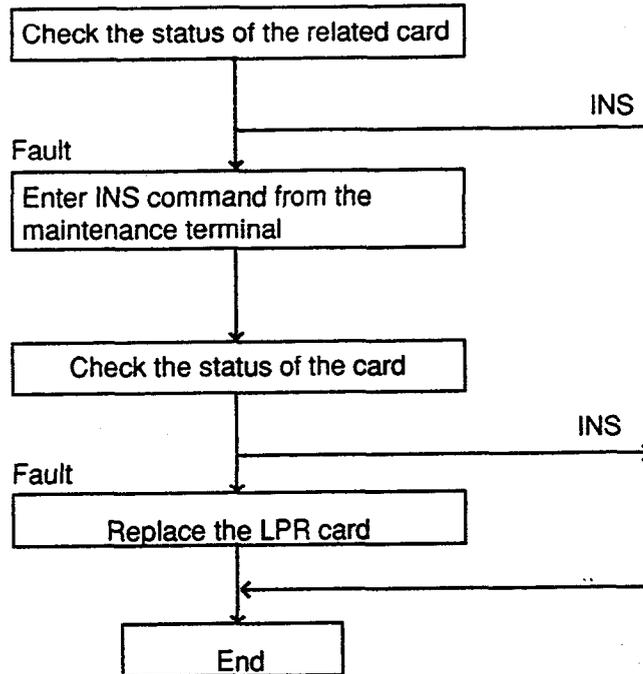
20xx.

xx= 01 to 42 : Slot number

Possible cause of the malfunction

1) Defective LPR RAM

Countermeasures



Note

None

3.22 Card type error (LPR)

Error Code

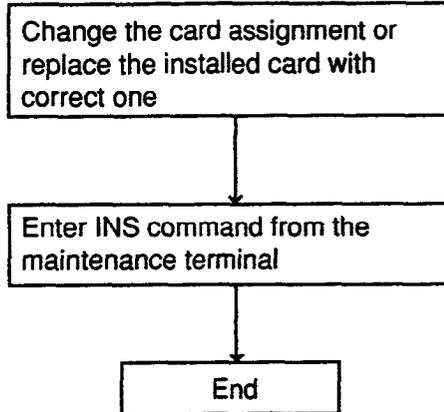
21xx.

xx= 01 to 42 : Slot number

Possible cause of the malfunction

1) Assigned card type doesn't correspond to the installed card type.

Countermeasures



Note

None

3.23 LPR runaway

Error Code

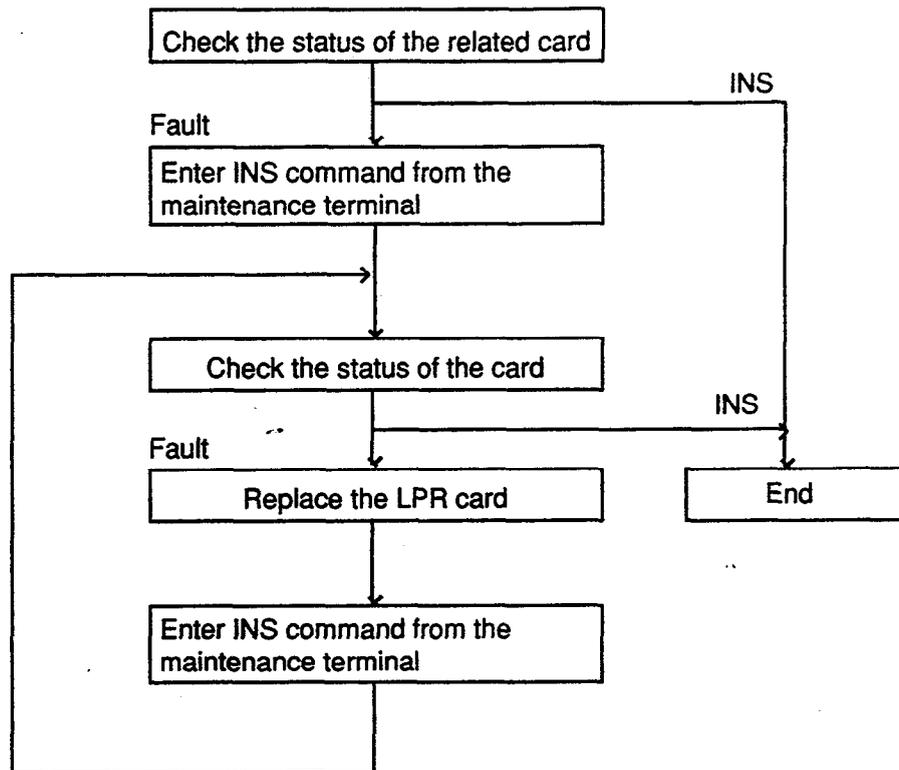
22xx

xx= 01 to 42 : Slot number

Possible cause of the malfunction

1) LPR is reset

Countermeasures



Note

None

3.24 OGM CPU runaway (DISA)

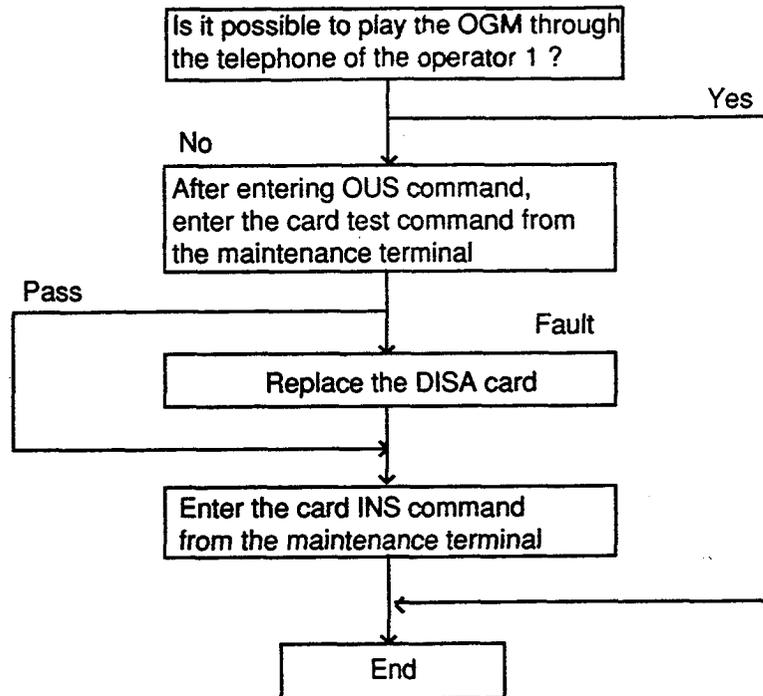
Error Code

50 xx
xx= 01 to 42 : Slot number

Possible cause of the malfunction

1) Runaway of the OGM (CPU) of the DISA card

Countermeasures



Note

None

3.25 OGM lost (DISA)

Error Code

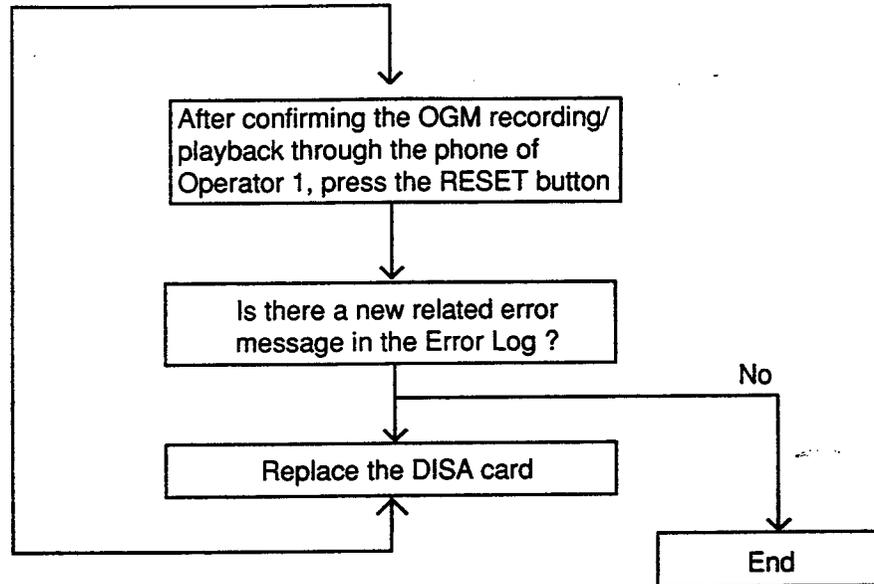
51xx

xx= 01 to 42 : Slot number

Possible cause of the malfunction

- 1) Power failure or power-off for long duration (6~7 days).
- 2) Defective backup battery for DISA card.
- 3) OGM was not recorded after the installation.

Countermeasures



Note

None

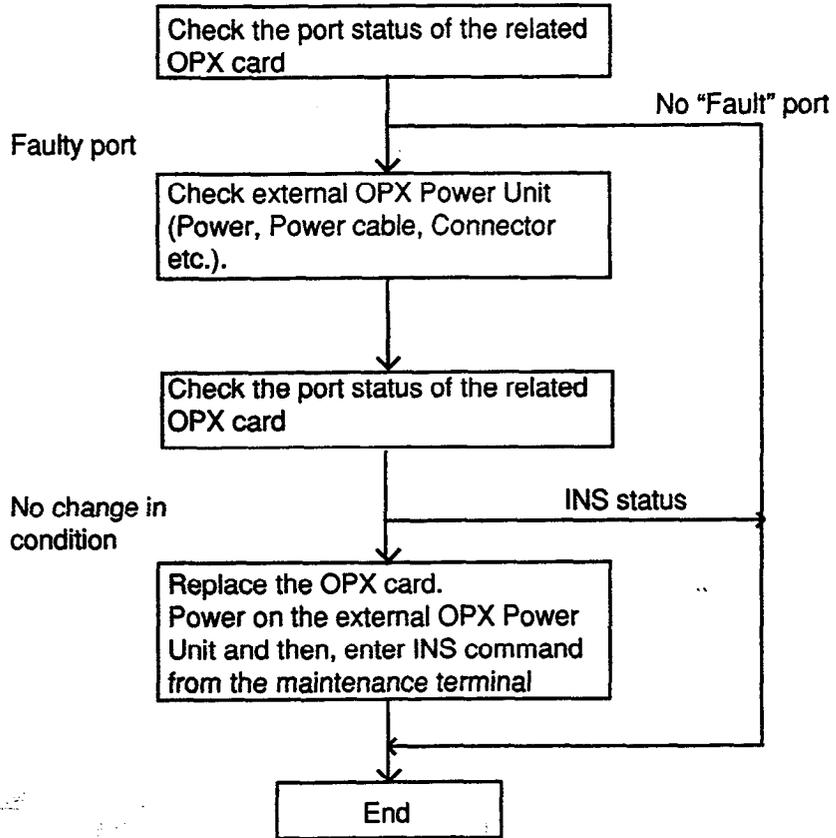
3.26 OPX power down

Error Code
Possible cause of the malfunction

60 xx
xx= 01 to 42 : Slot number

- 1) Power-off of external OPX Power Unit.
- 2) Defective OPX card.

Countermeasures



Note

None

3.27 DTMF generator failure (COT card)

Error Code

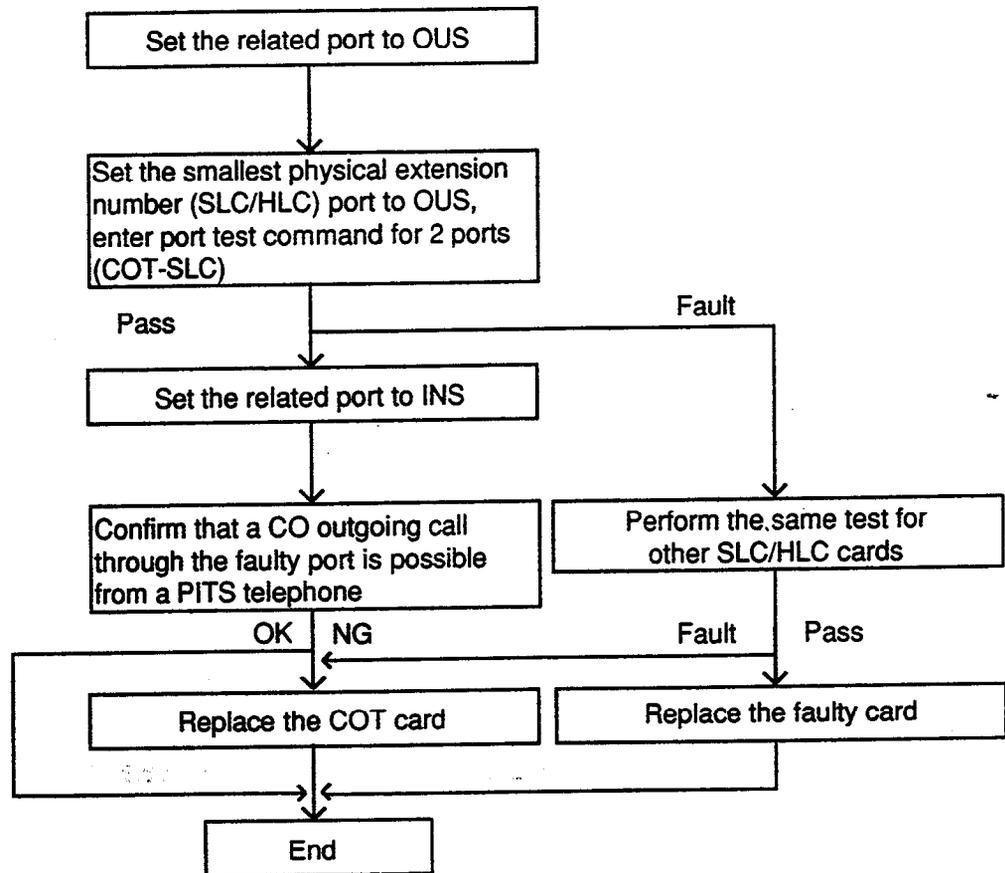
80 xx

xx= 01 to 42 : Slot number

Possible cause of the malfunction

- 1) DTMF generator on the LCOT/GCOT card is defective.
- 2) DTMF signal transmission path is defective.

Countermeasures



Note

None

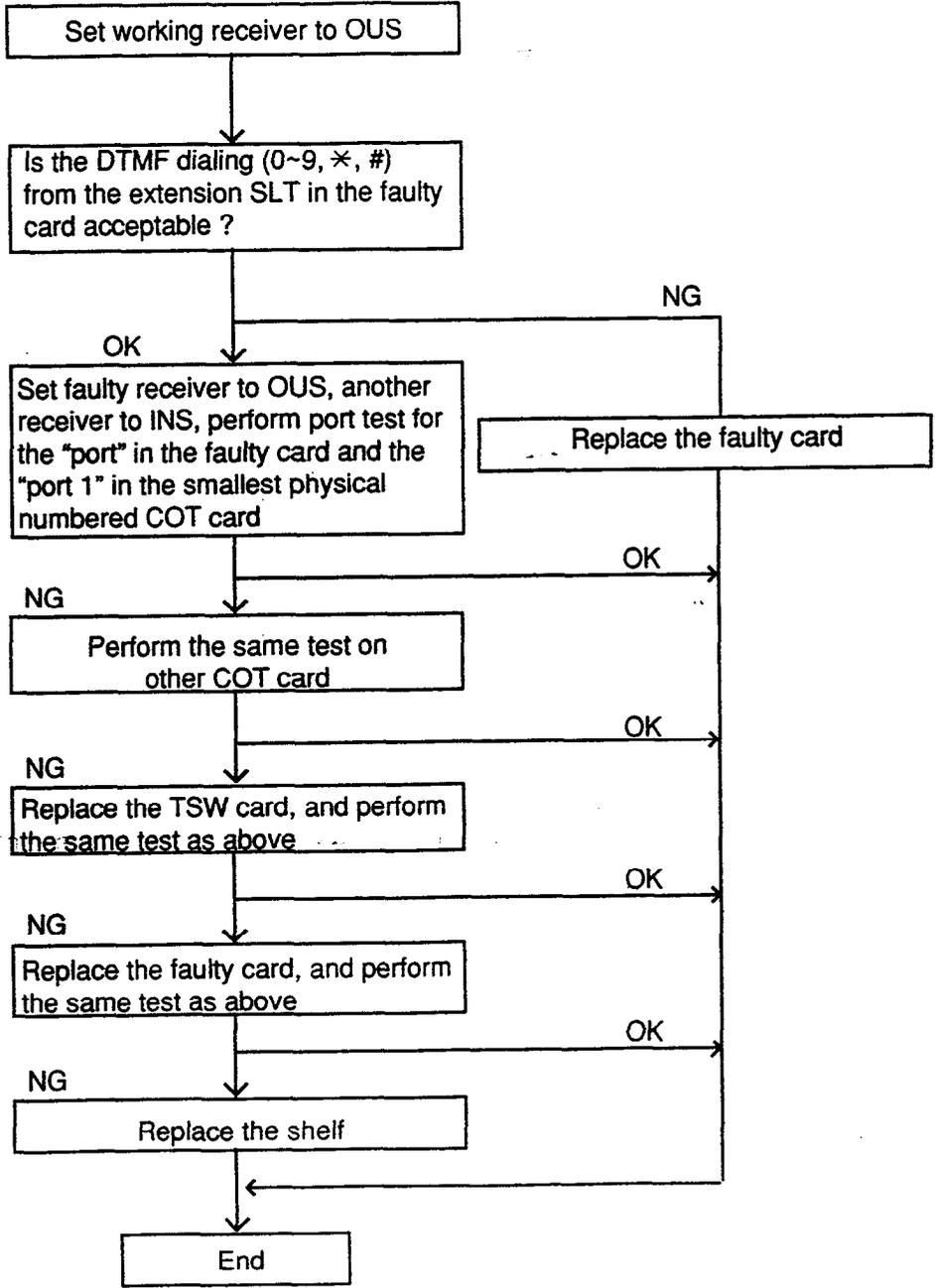
3.28 DTMF receiver failure (SLC/HLC/OPX card)

Error Code

Possible cause of the malfunction

Countermeasures

9 rxx
 xx= 01 to 42 : Slot number
 r= 1 to 2 : DTMF Receiver number
 1) Defective DTMF receiver.
 2) Defective path for the DTMF receiver from the faulty port.



Note None

3.29 Tone detector failure (DISA/AGC card)

Error Code

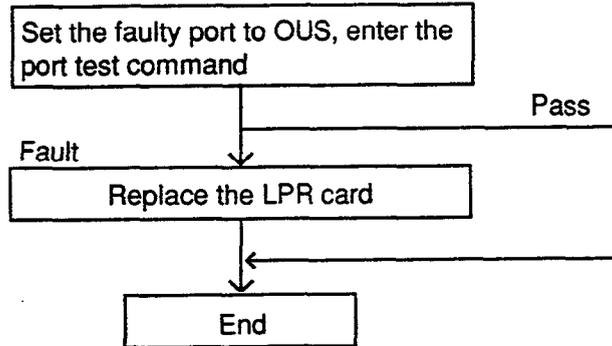
A yxx

xx= 01 to 42 : Slot number
y= 1 to 4 : Port number

Possible cause of the malfunction

- 1) Tone detector failure
- 2) Defective tone receiving path from the faulty port.

Countermeasures



Note

None

3.30 HDLC failure (ATLC card)

Error Code

B yxx

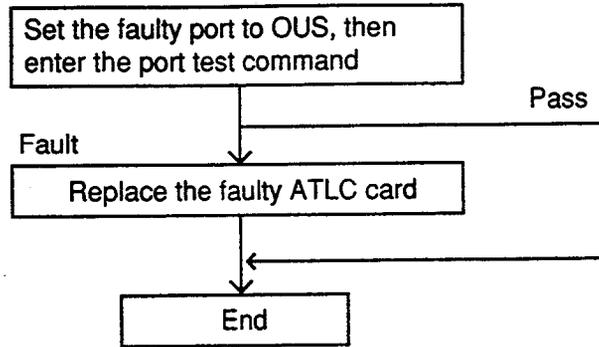
xx= 01 to 42 : Slot number

y= 1 to 2 : Port number

Possible cause of the malfunction

1) Defective HDLC IC

Countermeasures



Note

None

3.31 Port link failure (ATT/DPH)

Error Code

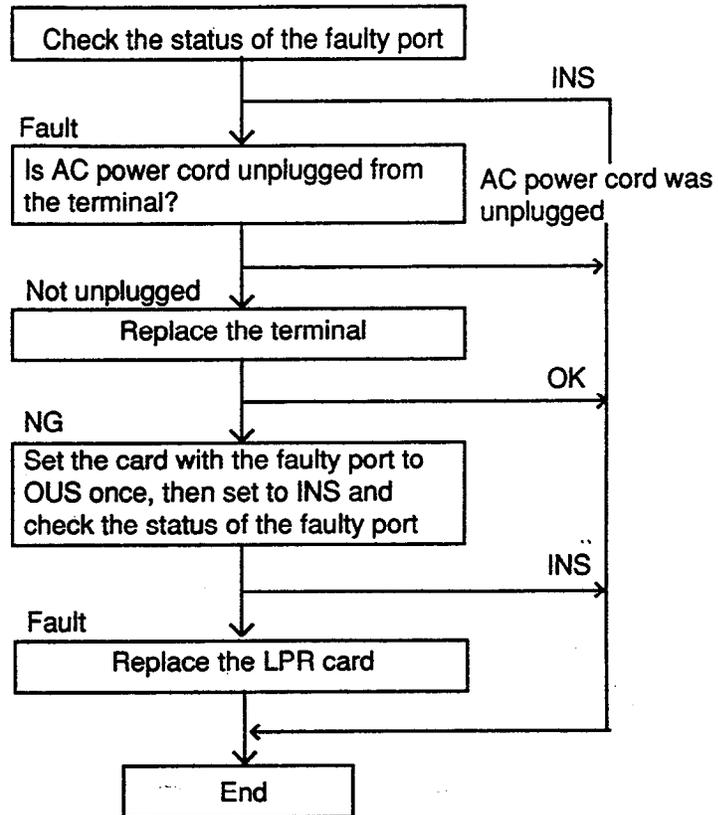
C yxx

xx= 01 to 42 : Slot number
y= 1 to 8 : Port number

Possible cause of the malfunction

1) Communication disconnection due to unplugged terminal etc.

Countermeasures



Note

None

3.32 OHCA SW failure (TSW card)

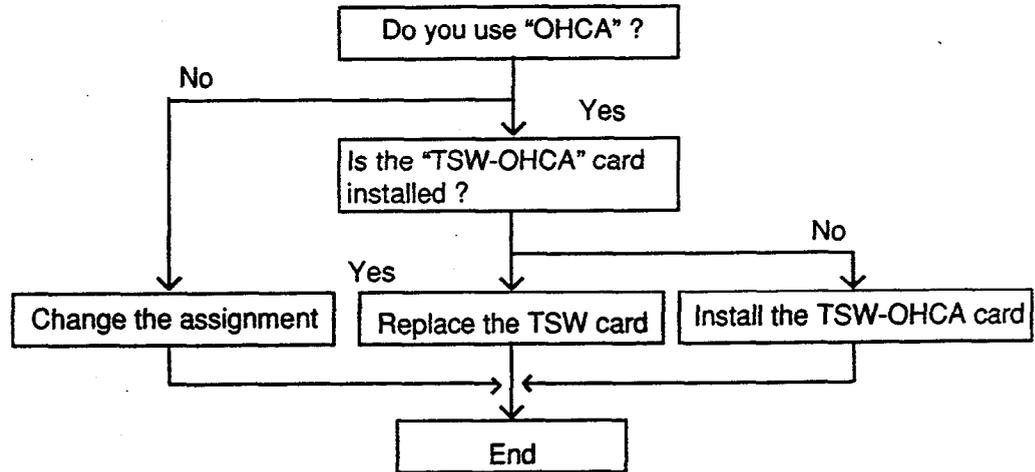
Error Code

D 000

Possible cause of the malfunction

1) "OHCA" is assigned to BS02 in the slot assignment, but TSW-OHCA card (KX-T336105) is not installed

Countermeasures



Note

None

3.33 OHCA not installed (PLC/HLC)

Error Code

D yxx

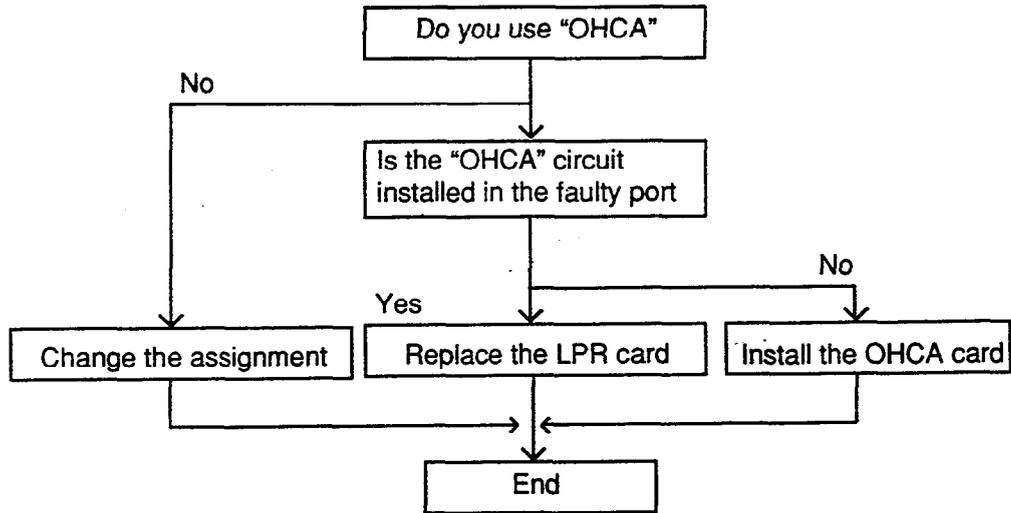
xx= 01 to 42 : Slot number

y= 1 to 8 : Port number

Possible cause of the malfunction

- 1) In spite of assigning "OHCA" to "Yes" in the station programming, OHCA circuit card (KX-T96136) is not installed.

Countermeasures



Note

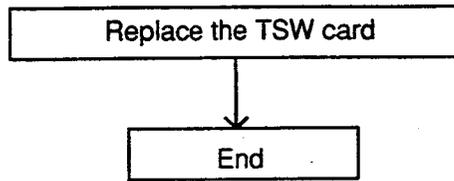
None

3.34 TSW DTMF G./R. failure

Error Code FFFF

Possible cause of the malfunction 1) DTMF Generator or Receiver for test is defective

Countermeasures

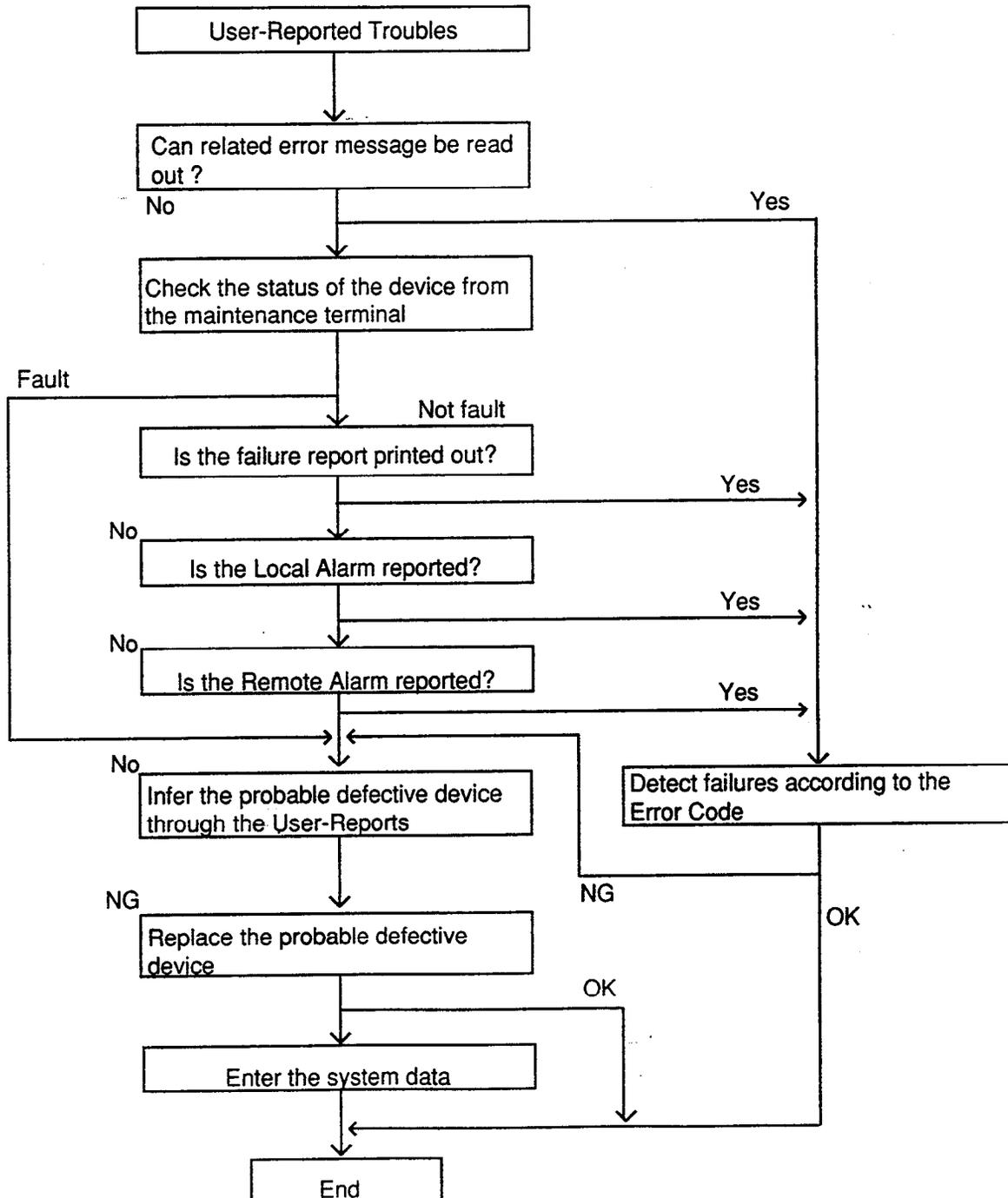


Note None

4.00 Troubleshooting via User-Reported Troubles

If a problem is not detected by the system, a report from the user is very useful to determine the trouble.

The basic procedure to determine the cause of the trouble according to a report from the user is shown in the following flow chart.



F. Functional Test by Entering Commands

1.00 Introduction

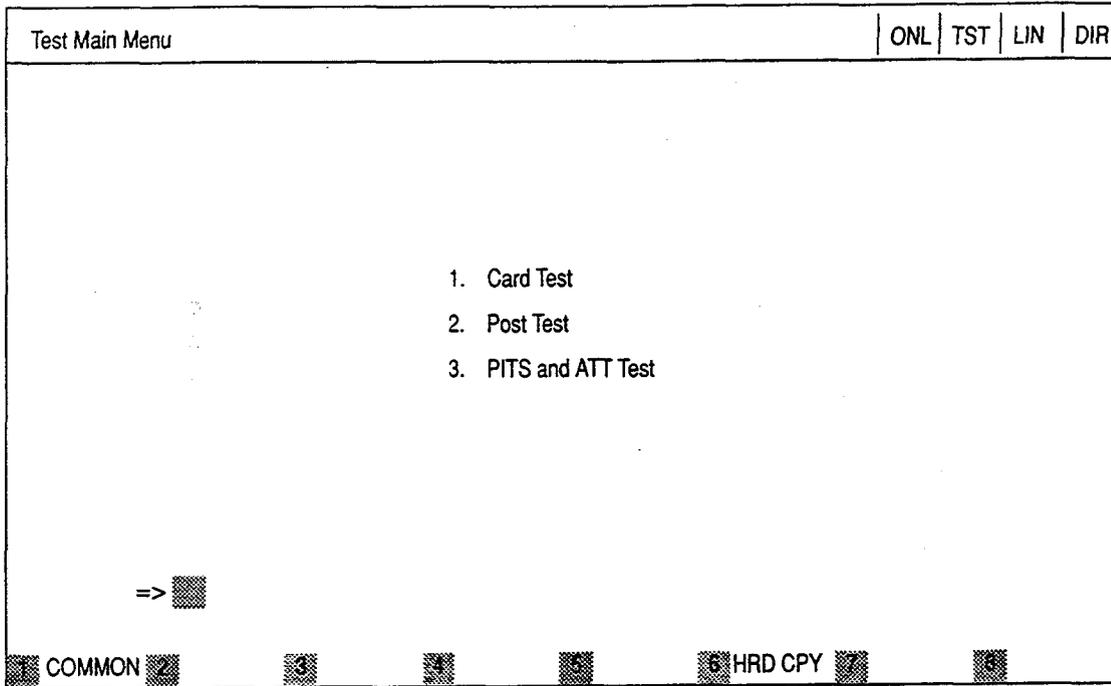
1. You can execute diagnostic testing during on-line communication by entering test commands at the maintenance terminal (VT220, VT100, Compatibles, Dumb terminal, Attendant Console).
2. Execute this functional test in the following cases.
 - When new devices are installed
 - When the device combination is changed
 - When system detects an alarm or an error message appears in the error log
 - When device status becomes "Fault"
 - When a number of telephone instruments don't function properly
3. There are three kinds of tests as follows.
 - (a) Card Test
If multiple numbers of extensions do not function well, you can detect whether troubles are caused by the card or the telephone instruments by this test.
 - (b) Port Test
 - (c) PITS and ATT (Attendant Console) Test

* Test (b), (c) are executed to detect troubles when telephone instruments don't function well while card status is good.
4. This functional test must be done during on-line communication mode both at on-site and from a remote location. For remote access, a data terminal and modem are required at a remote location, and you must install the RMT card in the system and assign Remote Directory Number to the system in system programming operation "Remote Directory Number."
Refer to Section 14-B-2.00 "System Administration from a Remote Location" for details.
5. Functional test can be done only when you log in to the system by entering the 1st level password.
6. When you perform a device (shelf, card, port, resource) test, the status of the device to be tested must be changed to "Out of service" by entering the OUS command in advance. If an attempt is made to test a device in "INS" status, the following message appears on the screen.

"Invalid Status"
7. You can test a device in "Fault" status.
8. If the device test results in failure, first change the status of the device to "Fault" and replace it with a normal one if necessary.
9. It is impossible to execute functional test during off-line communication mode.
10. The <CANCEL>, <NEXT> or <PREV> keys do not function during the test.

2.00 Test Main Menu

From the Main Menu screen, select "2. Test"; then the following "Test Main Menu" appears on the screen.



Description

1. Card Test -----Verifies the card status.
2. Port Test -----Verifies the port status.
3. PITS and ATT Test -----Verifies the PITS and ATT(Attendant Console) status.

3.00 Testing the Cards

3.01 Functions to be Verified

This test verifies the status of each card for the items listed below:

Card to be verified	Item	Remarks
SLC PLC HLC LCOT GCOT DID ATLC AGC	Link Card type ROM RAM	Card to be verified should be "OUS" or "FAULT."
OPX	Link Card type ROM RAM Power Supply	
DISA	Link Card type ROM RAM OGM Rec/Play	
RMT	Link Card type ROM RAM Modem	
DPH	Card Type	

3.02 Card Test Initial screen

From the test main menu screen, select "1. Card Test" then the following "Card Test" initial screen appears on the screen.

Card Test		ONL TST LIN DIR	
Tested at 12:05 AM 09/JUL/90			
Basic Shelf	01 PLC	Expansion Self 1	01 PLC
	02 PLC		02 PLC
	03 PLC		03 PLC
	04 PLC		04 PLC
	05 PLC		05 PLC
	06 PLC		06 PLC
	07 PLC		07 PLC
	08 PLC		08 PLC
	09 PLC		09 PLC
	10 PLC		10 PLC
	11 PLC		11 PLC
	12 PLC		12 LCOT
			13 LCOT
			14
			15
		Expansion Self 2	01 LCOT
			02 LCOT
			03 LCOT
			04 LCOT
			05 LCOT
			06 LCOT
			07 LCOT
			08 LCOT
			09 LCOT
			10 ATLC
			11 DPH
			12 RMT
			13
			14
			15
P: Pass, 1-F: Fault			
=> ■			
1 COMMON	2	3	4
5 HRD CPY	6	7	8

(Note) In the above screen, no indication means no card is installed.

3.03 Card Test procedure

Enter the test command according to the card test format below.

=> x y y
 | |
 |_| Card No. (01-15, or **)
 |_| Shelf No. (1: Basic 2: Expansion 1
 3: Expansion 2)

(Note) "*" can be used as a wild card character
 "*" or "***" means "All"
 1** means all cards in the basic shelf

(Example)

Executing card No. 208 test

```
2      => 208
3      ***** Executing
4  COMMON 2 3 4
```

(Note) When you test the DISA card, the following message appears on the screen

=> 105 <OGM Test ? Y/N/C>

When you select "Y", the previously recorded OGM message is erased.

When you finish the card test, go to the Test Main Menu by pressing the <END> key.

3.04 Card Test Results screen

Card Test			ONL TST			DIR		
Tested at 12:05 AM 09/JUL/90								
Basic Shelf	01 PLC	P	Expansion Self 1	01 PLC	P	Expansion Self 2	01 LCOT	P
	02 PLC	1		02 PLC	2		02 LCOT	P
	03 PLC	5		03 PLC	P		03 LCOT	P
	04 PLC			04 PLC			04 LCOT	
	05 PLC	5		05 PLC			05 LCOT	
	06 PLC	2		06 PLC			06 LCOT	
	07 PLC	3		07 PLC			07 LCOT	
	08 PLC			08 PLC			08 LCOT	
	09 PLC			09 PLC			09 LCOT	
	10 PLC			10 PLC			10 LCOT	
	11 PLC			11 PLC			11 LCOT	
	12 PLC			12 LCOT			12 LCOT	
				13 LCOT			13 ATLC	
				14 LCOT			14 DPH	
				15 LCOT			15 RMT	
P: Pass, 1-F: Fault => 107 ***** Failed								
COMMON						HRD CPY		

Description

Card Test Error Code List

Error Code	Description
1	A card is not installed in the specified slot.
2	Card link error
3	Assigned card type doesn't correspond to the installed card type
4	Card ROM error
5	Card RAM error
6	RMT card failure (Modem failure)
7	-----
8	-----
9	OPX power down
A	OPX power down (Bell)
B	OGM Recording/Playing back failure
C	-----
D	-----
E	-----
F	TSW card PB generator/PB receiver failure

4.00 Testing the Ports

4.01 Functions to be Verified

This test verifies the status of the ports for the functions listed below.

1. By entering the physical port number (Except pairs of extension and CO ports)

Card	Functions	Remarks
PLC HLC	OHCA Detect	Port to be tested should be "OUS" or "FAULT"
ATLC	HDLC	
DISA	Speech Path DTMF Receiver Tone Detector	
AGC	Speech Path Repeater Tone Detector	

2. By entering the physical port number of extension and CO ports in pairs.

Card	Functions	Remarks
LCOT	Speech Path Loop Current Bell Detect DTMF Dial (DTMF Generator) Pulse Dial	2 ports to be tested should be "OUS" or "FAULT." SLC, HLC, OPX and DTMF receiver to be tested should be "OUS" or "FAULT."
GCOT	Speech Path DTMF Dial (DTMF Generator) Pulse Dial	
SLC HLC OPX	Speech Path Bell DTMF Detector (DTMF Receiver) Pulse Detect	

4.02 Port Test Initial screen

Port Test		ONL TST DIR	
Tested at 12:05 AM 09/JUL/90			
Slot	Basic Shelf 000000000111 123456789012	Expansion Shelf 1 0000000001111111 123456789012345	Expansion Shelf 2 0000000001111111 123456789012345
1	- - - - -	- - - - -	- - - - -
2	- - - - -	- - - - -	- - - - -
P	- - - - -	- - - - -	- - - - -
o	- - - - -	- - - - -	- - - - -
r	- - - - -	- - - - -	- - - - -
t	- - - - -	- - - - -	- - - - -
6	- - - - -	- - - - -	- - - - -
7	- - - - -	- - - - -	- - - - -
8	- - - - -	- - - - -	- - - - -

P: Pass, 1-F: Fault

=>

1 COMMON 2 3 4 5 6 HRD CPY 7 8

(Note) "-" mark in the above screen indicates that the port is not assigned or the card type is not LCOT, GCOT, SLC, PLC, HLC, OPX, DISA, AGC, or ATLC.

4.04 Port Test Results screen

Port Test:		ONL TST		DIR	
Tested at 12:05 AM 09/JUL/90					
Slot	Basic Shelf	Expansion Shelf 1	Expansion Shelf 2		
	00000000111 123456789012	000000001111111 123456789012345	000000001111111 123456789012345		
1	--P-----	-----	-----	-----P	
2	--P-----	-----	-----	-----P	
P 3	--P-----	-----	-----	-----P	
o 4	--P-----	-----	-----	-----P	
r 5	--P-----	-----	-----	-----P	
t 6	--P-----	-----	-----	-----P	
7	--P-----	-----	-----	-----P	
8	--P-----	-----	-----	-----2	
P: Pass, 1-F: Fault					
=> 314 *					
***** Failed					
COMMON 2		3	4	5	6 HRD CPY 7

Port Test Error Code List

Code	Description	Port test	Pair test
1	Loop current failure	—	○
2	Bell detection failure	—	○
3	PB Generator failure	—	○
4	Dial pulse failure	—	○
5	PB Receiver 1 failure	○	○
6	PB Receiver 2 failure	—	○
7	Tone detection circuit 1 failure	○	—
8	Tone detection circuit 2 failure	○	—
9	HDLC failure	○	—
A	OHCA card is not installed	○	—
B	Pulse detection failure	—	○
C	Speech path failure	—	○
D	-----	—	—
E	-----	—	—
F	-----	—	—

When you have completed the port test, go to the test main menu by pressing <END> key.

(Note)

If you want to verify the status of the DTMF receiver (1 or 2), change it's status to "Out of Service" by entering OUS command and verify the status of a card which contains DTMF receivers.

SLC, HLC and OPX card contains two DTMF receivers respectively.

For further information about OUS command, refer to Section 14-C-1.02 "OUS command."

This port test is available only for ports on the following cards.

LCOT, GCOT, SLC, PLC, HLC, DISA, AGC, OPX, and ATLC card.

When you test the SLC, HLC, OPX, LCOT and GCOT cards, change the status of both extension port and CO port to "OUS."

If a trouble is caused by a card, an error message "Card Fault" appears on the screen.

Legend:

○ : applied
— : not applied

5.00 Testing PITS and ATT

5.01 Functions to be Verified

This test verifies the status of a PITS or an Attendant Console (ATT) for the functions listed below.

Card to be verified	Function	Remarks
PLC HLC	Link (All types of PITS) DTMF generator (KX-T123230D, KX-T123235 and KX-T7130)	Card to be tested should be "OUS" or "FAULT."
ATLC	Link DTMF generator ROM RAM	

5.02 PITS and ATT Test Initial screen

PITS and ATT Test		ONL TST		DIR
Tested at 12:05 AM 09/JUL/90				
Slot	Basic Shelf	Expansion Shelf 1	Expansion Shelf 2	
	000000000111 123456789012	0000000001111111 123456789012345	0000000001111111 123456789012345	
1	-----	-----	-----	
2	-----	-----	-----	
P	-----	-----	-----	
o	-----	-----	-----	
r	-----	-----	-----	
t	-----	-----	-----	
6	-----	-----	-----	
7	-----	-----	-----	
8	-----	-----	-----	
P: Pass, 1-F: Fault				
=>				
1	COMMON 2	3	4	5
6	HRD CPY	7	8	

(Note) "-" mark in above screen indicates that no ports are assigned to a PITS or an ATT (Attendant Console)

5.04 PITS and ATT Test Results screen

When the test is finished, test result is displayed on the screen automatically.

PITS and ATT Test		ONL TST DIR	
Tested at 12.05 AM 09JUL90			
Slot	Basic Shelf 000000000111 123456789012	Expansion Shelf 1 000000000111111 123456789012345	Expansion Shelf 2 000000000111111 123456789012345
1	-- P- -----	-----	----- P
2	-- P- -----	-----	----- P
P	-- P- -----	-----	----- P
o	-- P- -----	-----	----- P
r	-- P- -----	-----	----- P
t	-- P- -----	-----	----- P
7	-- P- -----	-----	----- P
8	-- P- -----	-----	----- 2

P: Pass, 1-F: Fault
=> 314 *
***** Failed

1 COMMON 2 3 4 5 6 HRD CPY 7 8

Description

PITS and ATT Test Error Code List

Code	Description
1	PITS Link failure, ATT Link failure
2	PITS PB Generator failure, ATT PB Generator failure
3	-----
9	-----
A	-----
B	-----
C	Speech Path failure
D	-----
E	-----
F	-----

* If a trouble results from a card, an error message "Card Fault" appears on the screen.

6.00 Return Messages

Display on message line when executing test

```

2      => DN4000
3      ***** Executing
4      1 COMMON  2      3      4      5      6 HRD CPY  7      8
      Message line
  
```

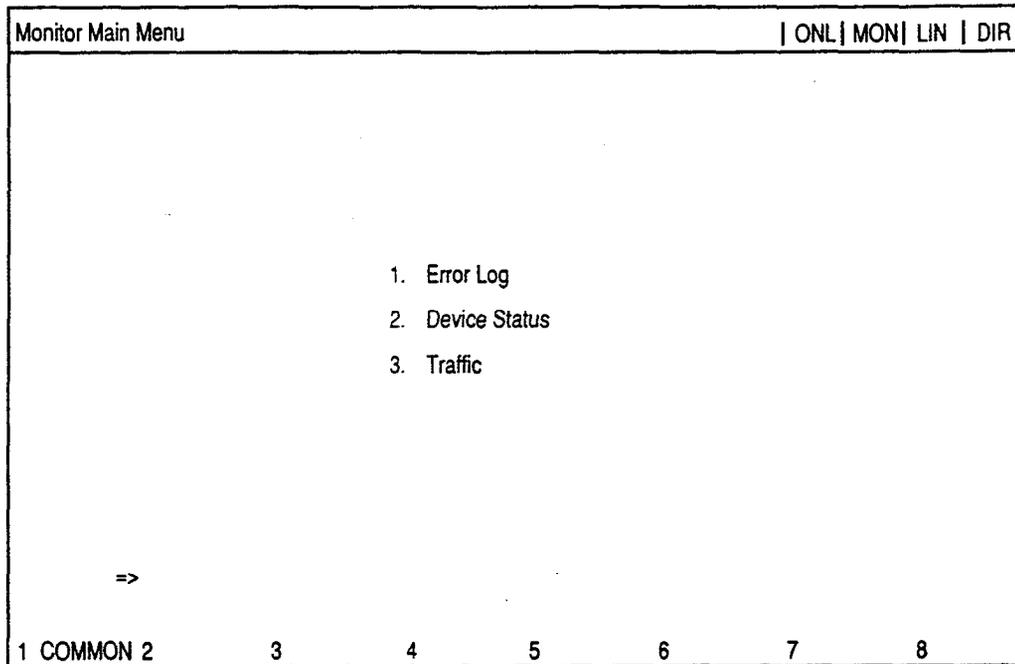
Message	Description
Executing	Executing device test
Illegal Parameter	Entered parameter is out of format or related device is not installed.
Invalid status	The status of the card or port being verified is not "OUS" or "Fault."
Pass	Device status is good.
Failed	Device status is bad.

G. Monitor

1.00 Monitor Main Menu screen

From the Main Menu screen, select "3. Monitor" then follow the Monitor Main Menu that appears on the screen.

By selecting an item from this screen, you can monitor the current operating information.



Description

- (1) Error Log
Displays error records.
- (2) Device status
Displays current device status.
- (3) Traffic
Displays traffic measurement for extensions, CO trunks, attendant consoles and resources.

2.00 Error Log screen

Error Log (1/2)				ONL MON
JAN-20-90	8 : 39 AM	MAJOR ALARM	#0100	CPR runaway
JAN-21-90	10 : 00 AM	MINOR ALARM	#0300	TSW clock down
JAN-21-90	11 : 12 PM	MAJOR ALARM	#0400	Basic shelf power down
JAN-25-90	6 : 32 AM	MINOR ALARM	#0600	Progress tone failure
JAN-29-90	1 : 57 PM	MINOR ALARM	#0700	Check date/time
JAN-30-90	9 : 01 AM	MINOR ALARM	#0800	Conference trunk failure
FEB-11-90	6 : 59 PM	MINOR ALARM	#0B00	Device not connect for SMDR
FEB-12-90	6 : 59 PM	MINOR ALARM	#1270	LPR RAM failure
FEB-13-90	5 : 45 PM	MINOR ALARM	#1300	Card disconnect

1 COMMON 2 3 4 5 6 HRD CPY 7 8

Fur further informations about Error Log, refer to Section 14-D-1.01 "Error Log."

3.00 Device Status screen

3.01 System Status Initial screen

Device Status (1/4)		ONL MON	
System Status			
ROM Version -----		V1.00	
Date -----		May.08 1991	
For Place -----		Area-2	
CPU RAM -----		INS	
Basic Shelf -----		INS	
Expansion Shelf 1 -----		INS	
Expansion Shelf 2 -----		—	
TSW			
Additional CONF -----		—	
SMDR -----		INS	
INS: In Service, OUS: Out of Service, FLT: Fault			
1 COMMON 2	3	4	5
		6 HRD CPY 7	8

Description

ROM version	-----	Software's version
Date	-----	The date software was originated
For Place	-----	Destination
CPU RAM	-----	Current status of RAM area
Basic Shelf	-----	Current status of Basic Shelf
Expansion Shelf 1	-----	Current status of Expansion Shelf 1
Expansion Shelf 2	-----	Current status of Expansion Shelf 2
TSW	-----	Current status of TSW card
Additional CONF	-----	Current status of optional Conference card
SMDR	-----	Current status of SMDR device

* In above screen, "—" indicates that the device is not installed.

3.02 Card Status screen

Device Status (2/4)			ONL MON								
Card Status											
Basic Shelf	01	PLC	I	Expansion Shelf 1	01	PLC	F	Expansion Shelf 2	01	LCOT	O
	02	PLC	I		02	PLC	F		02	LCOT	O
	03	PLC	I		03	PLC	F		03	LCOT	O
	04	PLC	I		04	PLC	F		04	LCOT	O
	05	PLC	I		05	PLC	F		05	LCOT	O
	06	PLC	I		06	PLC	F		06	LCOT	O
	07	PLC	I		07	PLC	F		07	LCOT	O
	08	PLC	I		08	PLC	F		08	LCOT	O
	09	PLC	I		09	PLC	F		09	LCOT	O
	10	PLC	I		10	PLC	F		10	LCOT	O
	11	PLC	I		11	PLC	F		11	LCOT	O
	12	PLC	I		12	LCOT	F		12	LCOT	O
B2	OHCA	F	13	LCOT	F	13	ATLC	O			
B3	TSW	I	14	LCOT	F	14	DPH	O			
			15	LCOT	F	15	RMT	O			

I: In Service, O: Out of Service, F: Fault

1 COMMON 2 3 4 5 6 HRD CPY 7 8

Description

In the above screen, a blank indicates that a card is not installed in the slot.

3.03 Port Status screen

Device Status (3/4)		ONL MON											
Port Status													
Slot	Basic Shelf			Expansion Shelf 1			Expansion Shelf 2						
	000000000111	123456789012		0000000001111111	123456789012345		0000000001111111	123456789012345					
P o r t	1	I	O	I									
	2	I	O	I									
	3	O	O	I									
	4	O		I									
	5	I		O	B								
	6	F		O	B								
	7	I		F									
	8	I		F									
DTMF Rec	1	I	O	F									
	2	F	O	I									

I: In Service, O: Out of Service, F: Fault, B: Busy Out

1 COMMON 2 3 4 5 6 HRD CPY 7 8

Description

DTMF Rec — Status of DTMF receivers
 Two DTMF receivers are provided on each SLC, HLC, OPX card respectively

The system administrator can change the status of a CO trunk port from "Busy Out" to "INS" by entering INS command.

In the above screen a blank indicates that a port is not assigned to the system.

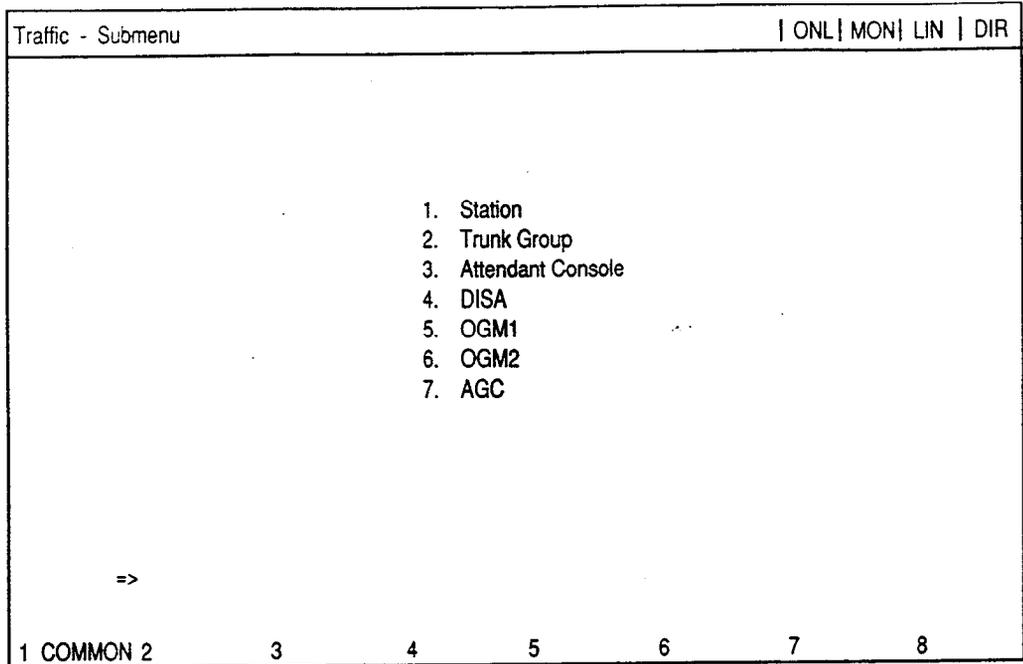
3.04 Conference Trunk Status screen

Device Status (4/4)		ONL MON					
Conference Trunk Status							
Basic	1 OUS	3	5	7			
	2 OUS	4	6	8			
Option	1 INS	13 INS	25	37	49	61	
	2 INS	14 INS	26	38	50	62	
	3 INS	15 INS	27	39	51	63	
	4 INS	16 INS	28	40	52	64	
	5 INS	17 INS	29	41	53		
	6 OUS	18 INS	30	42	54		
	7 FLT	19 INS	31	43	55		
	8 INS	20 INS	32	44	56		
	9 INS	21 INS	33	45	57		
	10 OUS	22 INS	34	46	58		
	11 INS	23 INS	35	47	59		
	12 INS	24 INS	36	48	60		
INS : In Service		OUS : Out of Service		FLT ; Fault			
1 COMMON	2	3	4	5	6 HRD CPY	7	8

Description

This screen shows the current operating status of both basic and optional conference trunks.

4.00 Traffic Submenu screen



Description

1. Station
Displays traffic measurements of all extensions.
2. Trunk Group
Displays traffic measurements of each trunk group.
3. Attendant Console
Displays traffic measurements of each attendant console.
4. DISA, OGM1, OGM2, AGC
Displays traffic measurements of each resource. If tenant service is employed, traffic measurements of each resource will be displayed by each tenant individually.

Programming

System Programming	Reference	
	VT	Dumb
"System-Operation (2/3)" Start Time of Traffic Measurement	9-D-1.02	10-C-4.00

4.01 Station Initial screen

Traffic Information - Station (1/2)							ONL MON
Feb. 22 1991							
Start Time	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00AM	2 :00AM	
Incoming Calls	498	637	590	120	803	760	
Answer Calls	360	503	476	88	711	662	
Outgoing Calls	405	602	555	103	763	731	
Completed Calls	241	430	411	48	509	500	
CCS	723	811	780	230	998	889	
Start Time	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Incoming Calls	632	721	611	598	420	311	
Answer Calls	531	603	482	449	289	192	
Outgoing Calls	600	654	600	531	301	191	
Completed Calls	442	488	503	461	188	119	
CCS	800	830	762	750	680	620	
1 COMMON 2	3	4	5	6 HRD CPY	7	8	

Description

- Start Time** — The system can be programmed to display traffic measurements of all extensions from up to 24 hours before the current time. In above screen, "9:00 AM" indicates the traffic measurement from 9:00 AM to 10:00 AM one day ago.
- Incoming Calls** — The number of incoming calls. (both extension and CO)
- Answer Calls** — The number of answered calls. (both extension and CO)
- Outgoing Calls** — The number of outgoing calls (both extension and CO) during the pre-set time period.
- Completed Calls** — The number of completed calls. (both extension and CO)
- CCS** — One hundred call seconds, or one hundred seconds of telephone conversation. One hour of telephone traffic is equal to 36 CCS.

4.02 Trunk Group Initial screen

Traffic Information - Trunk Group (1/2)							ONL MON
Feb 22 1991		Trunk Group No. = 01					
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00AM	2 :00AM	
Incoming Calls -----	406	511	430	110	763	653	
Answer Calls -----	232	362	291	65	580	572	
Outgoing Calls -----	362	419	381	98	601	599	
Completed Calls ---	241	311	263	60	449	472	
Busy Calls -----	109	120	95	39	195	201	
CCS -----	700	801	755	215	932	831	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Incoming Call -----	613	555	529	511	412	311	
Answer Calls -----	482	412	427	400	303	200	
Outgoing Calls -----	499	400	395	382	291	183	
Completed Calls ---	362	282	312	300	162	99	
Busy Calls -----	139	99	112	95	68	35	
CCS -----	777	703	683	663	582	411	
1 COMMON 2 INDEX	3	4	5	6 HRD CPY	7	8	

Description

Busy Calls ----- The number of outgoing calls encountering a busy.

For a description of other items, refer to Section 14-G-4.01 "Station Initial screen."

4.03 Attendant Console Initial screen

Traffic Information - Attendant Console (1/2)							ONL MON
Feb. 22 1991			Attendant No. = 01				
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00AM	2 :00AM	
Incoming Calls ----	511	632	590	140	809	751	
Answer Calls -----	412	488	476	99	680	612	
Outgoing Calls ----	403	471	555	121	762	592	
Completed Calls --	291	403	411	83	611	454	
Handle Calls -----	300	381	299	69	491	391	
CCS -----	712	853	768	240	998	900	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Incoming Calls ----	721	700	683	592	483	301	
Answer Calls -----	549	550	521	482	362	188	
Outgoing Calls ----	611	603	549	468	411	165	
Completed Calls --	455	423	401	352	348	100	
Handle Calls -----	311	301	281	311	298	83	
CCS -----	881	862	800	762	700	583	
1 COMMON 2	3	4	5	6 HRD CPY	7	8	

Description

Handled Calls ----- The number of calls transferred by the attendant console.

For a description of other items, refer to Section 14-G-4.01 "Station Initial screen."

4.04 DISA screen

Traffic Information - DISA		ONL MON					
Feb. 22 1991		Tenant = 1					
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM	
Busy Calls -----	5	18	12	2	20	8	
CCS -----	3	10	2	1	10	3	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Busy Calls -----	30	4	12	3	2	4	
CCS -----	20	2	8	1	1	2	
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM	
Busy Calls -----	6	20	12	4	2	4	
CCS -----	3	9	3	2	1	2	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Busy Calls -----	30	0	12	3	2	4	
CCS -----	10	0	6	1	1	2	
1 COMMON 2	3	4	5	6 HRD CPY 7	8		

Description

- Start Time ----- Refer to Section 14-G-4.01 "Station Initial screen."
- Busy Calls ----- The number of DISA calls which failed to access any DISA resources.
- CCS ----- One hundred call seconds, or one hundred seconds of telephone conversation.
One hour of telephone traffic is equal to 36 CCS.
- Tenant ----- If tenant service is employed, this screen can be displayed by each tenant individually.
By pressing the <PREV> or <NEXT> key, you can enter into the previous or next screen.

4.05 OGM1 screen

Traffic Information - OGM1							ONL MON	
Feb. 22 1991		Tenant = 1						
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM		
Busy Calls -----	5	20	12	3	2	4		
CCS -----		8	2	1	2	4		
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM		
Busy Calls -----	30	5	12	8	2	4		
CCS -----	20	1	8	3	1	2		
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM		
Busy Calls -----	5	18	12	3	2	4		
CCS -----	2	7	3	1	1	2		
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM		
Busy Calls -----	30	0	12	7	2	4		
CCS -----	10	0	6	3	1	2		
1 COMMON 2	3	4	5	6 HRD CPY 7	8			

Description

Start Time ----- Refer to Section 14-G-4.01 "Station Initial screen."

Busy Calls ----- The number of calls which failed to access any OGM1 resources.

CCS ----- One hundred call seconds, or one hundred seconds of telephone conversation.

One hour of telephone traffic is equal to 36 CCS.

Tenant ----- If tenant service is employed, this screen can be displayed for each tenant individually.

By pressing the <PREV> or <NEXT> key, you can enter into the previous or next screen.

4.06 OGM2 screen

Traffic Information - OGM2							ONL MON
Feb. 22 1991			Tenant = 1				
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM	
Busy Calls -----	3	20	12	3	2	4	
CCS -----	1	11	2	1	2	4	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Busy Calls -----	8	5	12	5	2	4	
CCS -----	2	2	8	2	1	2	
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM	
Busy Calls -----	7	13	12	4	2	4	
CCS -----	3	6	3	2	1	2	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Busy Calls -----	30	4	12	7	2	4	
CCS -----	10	1	6	4	1	2	
1 COMMON 2	3	4	5	6 HRD CPY 7	8		

Description

- Start Time ——— Refer to Section 14-G-4.01 "Station Initial screen."
- Busy Calls ——— The number of calls which failed to access any OGM2 resources.
- CCS ——— One hundred call seconds, or one hundred seconds of telephone conversation.
One hour of telephone traffic is equal to 36 CCS.
- Tenant ——— If tenant service is employed, this screen can be displayed for each tenant individually.
By pressing the <PREV> or <NEXT> key, you can enter into the previous or next screen.

4.07 AGC screen

Traffic Information - AGC							ONL MON
Feb. 22 1991:		Tenant = 1					
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM	
Busy Calls -----	3	10	12	3	2	4	
CCS -----	1	3	2	1	2	4	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Busy Calls -----	30	8	12	4	2	4	
CCS -----	20	2	8	2	1	2	
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM	
Busy Calls -----	30	9	12	3	2	4	
CCS -----	10	3	3	1	1	2	
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM	
Busy Calls -----	30	8	12	8	2	4	
CCS -----	10	3	6	3	1	2	
1 COMMON 2	3	4	5	6 HRD CPY	7	8	

Description

- Start Time** ----- Refer to Section 14-G-4.01 "Station Initial screen."
- Busy Calls** ----- The number of calls which failed to access any AGC resources.
- CCS** ----- One hundred call seconds, or one hundred seconds of telephone conversation.
One hour of telephone traffic is equal to 36 CCS.
- Tenant** ----- If tenant service is employed, this screen can be displayed for each tenant individually.
By pressing the <PREV> or <NEXT> key, you can enter into the previous or next screen.

H. Other Features

1.00 Power Failure Transfer Assignment

Description

Provides up to 144 extension/CO line pairs to maintain a conversation when power is restored or TSW recovery.

If this is not programmed then power restoration or TSW recovery drops any existing conversations.

From the main menu screen, first select "1. Programming." and select "10. Miscellaneous" then you can enter into the screen below by selecting "2. Power Failure Transfer."

To program this assignment, you must log in to the system by entering the 2nd level or higher password.

Miscellaneous - Power Failure Transfer Assignment										OFL	PRG	SCR	DIR
Power Failure Transfer Assignment													
No.	Trunk		Extension		No.	Trunk		Extension					
	Shelf	Slot	Shelf	Slot		Shelf	Slot	Shelf	Slot				
1	1	01	1	07	10	2	04	2	10				
2	1	02	1	08	11	2	05	2	11				
3	1	03	1	09	12	2	06	2	12				
4	1	04	1	10	13	3	01	3	07				
5	1	05	1	11	14	3	02	3	08				
6	1	06	1	12	15	3	03	3	09				
7	2	01	2	07	16	3	04	3	10				
8	2	02	2	08	17	3	05	3	11				
9	2	03	2	09	18	3	06	3	12				

COMMON HRD CPY

Programming

Item			Description	Assignable Parameters	Default	How to input
No. 1 -18	Trunk	Shelf	Assign LCOT or GCOT card No. to the system which are available for power failure transfer.	1,2,3 or blank	Blank	D
		Slot		01-15 or blank	Blank	D
	Extension	Shelf	Assign HLC or SLC card No. to the system which are available for power failure transfer.	1,2,3 or blank	Blank	D
		Slot		01-15 or blank	Blank	D

D: Enter appropriate parameters directly.

S: Select appropriate parameters from the factory-set options.

- Cursor is scrolled from left to right by pressing the return key.
- Assign extension card and trunk card for power failure transfer in pairs. To assign only a trunk or an extension is not possible.

Refer to Section 9-L-2.00 "Power Failure Transfer Assignment" for further information about programming.

Conditions

SLT telephones and some PITS telephones can be used during power failure if power failure transfer assignment had been done in advance.

The following PITS telephones can be used during power failure.

KX-T123230, KX-T123230D,
KX-T123235, KX-T61630, KX-T30830

When you are using above listed PITS telephones, set the POWER FAILURE switch to ON, when power failure occurs.

If dialing cannot be done, set the DIALING MODE selector to another position (PULSE or TONE).

When the power is restored, set the POWER FAILURE switch to OFF.

If the power is restored during a conversation, set the POWER FAILURE switch to OFF after conversation is completed.

Section 15

Maintenance

Dumb Type Terminal

Maintenance

Dumb Type Terminal

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A. Introduction

This section describes the information necessary for monitoring, testing, and maintaining the system using a Dumb terminal.

The modular self-testing capabilities of the system allow most maintenance to be reduced to simple procedures.

You can administer the system programming and perform maintenance using VT220(100), Compatibles, Dumb terminal and Attendant Console.

Only one terminal can be performing system administration at any one time.

Changing the System Administration Device is done in programming.

To execute the change, the user must exit system administration mode and then reenter system administration mode.

(Note)

The following subsections are defined in Section 14.

C. Device Status

2.00 Definition of Operating Status

2.01 Shelf, Slot, Resource

2.02 Port

2.03 Interactions among Devices

2.04 Changes of the Shelf Status

2.05 Changes of the Slot Status

D. Self-Test (System-Detected Troubles)

2.00 Clearing System-Detected Troubles

2.01 Consulting the Error Log

E. Troubleshooting Guide

C. Device Status

1.00 Service Commands and Their Functions

1.01 INS (In Service) command

Description

At the operation prompt (OPE>), enter INS command to change the status of the target device (shelf, card, station etc.) to "In Service" in on-line communication mode.

Command Format

OPE>INS + Item No. ↴

(Item)

Device	Input Value
Shelf	1 to 3 (physical number)
Card	101 to 315 (physical number)
Port	1011 to 3158 (physical number)
Station	DNxxxx (xxxx: extension number; three or four digits) or Physical number: four digits
ATT	A1 or A2 or Physical number: four digits
DTMF	Rxxxx (xxx:Card number; y: 1 or 2)
CNF	CFBxx or CFOyy (xx: 01 to 08, yy: 01 to 64)

Refer to Section 15-E-3.00 "TST Command (Test)" for details about test command.

Conditions

The status of specified devices (shelf, card, station) should be in "OUS" or "FAULT," and system must be in on-line mode.

When you change the status of a lower device (port, station) to "INS," the upper device (shelf, card) should be in "INS" status.

If you try to change the lower device status to "INS" while upper device is in "OUS" status, the error message "Invalid Status" appears on the screen.

When you change the status of an upper device (shelf, card), the status of lower devices (port, station) change as follows.

Upper device OUS → INS
Lower device OUS → INS
 Fault → Fault

Upper device Fault → INS
Lower device Fault → INS
 OUS → OUS

Normal operation

When this operation is executed without failure, initial "OPE>" prompt appears again on the screen.

Operation failed

The error message appears on the screen in the following cases.

- Parameter error
- Not installed
- Status error
- INS failure (Diagnosis error)

1.02 OUS (Out of Service) command

Description

At the operation prompt (OPE>), enter the OUS command to change the status of the target device (shelf, card, station etc.) to "Out of Service" in on-line mode.

Command Format

OPE> OUS + Item No. ↴

(Item)

Device	Input Value
Shelf	1 to 3 (physical number)
Card	101 to 315 (physical number)
Port	1011 to 3158 (physical number)
Station	DNxxxx (xxxx: extension number; three or four digits) or Physical number: four digits
ATT	A1 or A2 or Physical number: four digits
DTMF	Rxxyy (xxx:Card number; y: 1 or 2)
CNF	CFBxx or CFOyy (xx: 01 to 08, yy: 01 to 64)

Refer to Section 15-E-3.00 "TST command (Test)" for details about the test command.

Conditions

The status of target devices (shelf, card, station) should be "INS," and the system must be in on-line communication mode.

When you change the status of an upper device (shelf, card), the status of lower devices (port, station) change as follows.

Upper device	INS	→	OUS
Lower device	INS	→	OUS
	Fault	→	Fault

Normal operation

When this operation is executed without failure, "OPE>" initial prompt appears again on the screen.

Operation failed

An error message appears on the screen in the following cases.

- Parameter error
- Not installed
- Status error

If the system administration terminal is an Attendant Console (ATT), do not change the status of the following devices from "INS" to "OUS."

- Shelf in which ATLC card is installed
- ATLC card
- Attendant console assigned as the Maintenance Terminal

During remote operation, do not change the status of the following devices from "INS" to "OUS."

- Shelf in which RMT card is installed
- RMT card (Modem)

Administration

Administration

Access to the System

System programming and
parameters using a dumb

Communication parameters,
1) "Communication

Access to the
parameters of the system is
restricted.

Authorized person from learning
password characters are not
displayed when entered.

System administration
password (4-digit, Alphanumeric
characters) must be entered.
In the system, password must
be stored in memory.
Three passwords are provided
for on-site operation and
administration from a remote

Correct password, the
Dumb Initial Screen from
enters into programming mode or

Three functions available to each

Level 1: Access to all levels
Level 2: System level parameters
Level 3: User level parameters
Level 4: Parameters only.

Level 1: Access to the system using the 1st level
password. Execute all functions, but are
restricted when entering level 2, 3

Level 2: Initially factory programmed,
Level 3: When logging in to the
Level 4: the 1st level password.
Section 1.00 "Change Level (CHL)"
password level.

- Alphanumeric characters
ASCII codes except special codes (DEL, ESC
etc.)
But entering " / " ~ " are not available, because
these characters cannot be displayed on the
display of PITS.
Both uppercase and lowercase characters
can be recognized by the system.

1.02 Dumb Operation Mode

When you log in to the system administration
terminal, "Select the Mode" screen appears on
the display.

At initial prompt in this screen, you can enter into
programming mode by entering PRG, and
operation mode by entering OPE.

In programming mode, assigning and changing
the system programming parameters can be
done. In operation mode, monitoring, testing and
maintaining the system can be done.

Refer to Section 8 "Preparation for Programming
and Maintenance (Dumb Type Terminal)" for
further details about Dumb operation mode.

Entering the

in the Error Log

in the Error Log

in the Error Log

for log records

the following two

Minor Alarm)

1)

Error Log Screen."

Automatic

Printed out.

SIO #2 port on the
terminal, then set
Error Log to "Y."
Operation (OPR) for

7. The alarm message on the display of PITS (if provided) disappears when placing a call from that telephone; when an incoming call arrives at that telephone; or if a held call reminder occurs with it. And the alarm message appears again when PITS goes to idle.

Operation

To display an alarm message, press the ALARM key (button) while ALARM LED is flashing or lit steadily.

If local alarm occurred during a conversation, press the ALARM key (button) after replacing the handset then the alarm message will be displayed.

- An example of the alarm display

(Attendant Console)

JAN-25-91 6:31 AM MAJOR-ALARM #0410
Basic Shelf power down

(PITS)

ERR 0410 POW DWN

To clear the displayed alarm message, press the ALARM key (button) when the alarm message is displayed. ALARM LED will be turned off and the alarm display on the display of PITS (if provided) or CRT screen of the Attendant Console disappears.

tion

g up the system administration from a location can be done in the following ways.

"Remote Directory Number" using Direct Inward System Access (DISA) feature.

For further information about "Remote Directory Number," refer to Section 10-C-4.00 "Operation (1)."

For further information about DISA feature, refer to 3-D-2.02 "Direct Inward System Access (DISA)."

Remote DID feature so that the incoming telephone number is converted to the "Remote Directory Number."

For further information about DID feature, refer to Section 3-D-2.03 "Direct Inward Dialing (DID)."

Remember that a call from a remote location can be made directly using the Remote Administration feature automatically using DIL (1:1) feature.

For further information about DIL (1:1) feature, refer to Section 3-D-2.01 "Direct In Line (DIL)."

- Remote access with assistance of the operator: A call from a remote location can be made on a trunk into the system, and be answered by the operator.

The call is then placed on hold and the Remote Directory Number of the system dialed is displayed.

The operator transfers the call after receiving the remote answer tone.

The caller at a remote location will then hear the remote answer tone and can be proceeded with the call.

Refer to Section 4-F-1.05 "Unscreened Call Transfer to Remote" for further information.

When the system administrator at a remote location accesses the system remote administration feature, the following message appears on the display of operator's telephone if applicable as provided.

1234:RMT Access

The user logs in to the system from a remote location. You can operate the system in the same manner as if you were on-site.

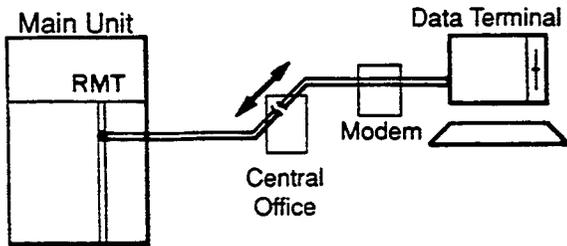
- Only one system administration terminal can access the system at a time.

1.05 Remote Alarm

Description

When the system detects a problem during on-line communication, an error message appears on the screen of the remote maintenance device. For remote access, RMT card must be installed in the system, and a data terminal and modem are required at a remote location.

Remote Configuration



Programming

To execute this feature, set "Remote Alarm" to "Y" and register the telephone (Modem) number of the remote administration device in "Destination Address."

System Programming	Reference	
	VT	Dumb
"System-Operation (2/3)," Remote Alarm, Destination Address	9-D-1.02	10-C-4.00

Conditions

Setting "Remote Alarm" to "Y" is not available if the RMT card is not installed. All system-detected error messages are displayed in the error log, but for "Local Alarm," and "Remote Alarm", some error messages are displayed and some are not. Refer to Section 14-D-2.03 "Background Diagnostic Error List."

Command Format

PRG>OPR AT2 ↵

E. Functional Test by Entering Commands

1.00 Introduction

1. You can execute diagnostic test during on-line communication mode by entering test commands at the maintenance terminal.
2. Execute this functional test in the following cases.
 - When new devices are installed
 - When the device combination is changed
 - When the system detects an alarm or an error message appears in the error log
 - When device status becomes "Fault"
 - When a number of telephone instruments don't function properly
3. There are following three types of Tests as follows.
 - (a) Card Test
If a number of telephone instruments do not function well, you can detect whether troubles are caused by the card or the telephone instruments by this test.
 - (b) Port Test
 - (c) PITS and ATT (Attendant Console) Test

* Test (b), (c) are executed to detect troubles when telephone instruments don't function well when card status is good.
4. This functional test must be done during on-line communication mode both at on-site and from a remote location. For remote access, a data terminal and modem are required at a remote location, and you must install RMT card in the system and assign Remote Directory Number to the system in system programming operation "Remote Directory Number."
Refer to Section 14-B-2.00 "System Administration from a Remote Location" for details.
5. Functional test can be done only when you log in to the system by entering the 1st level password.
6. When you perform a device (shelf card, port, resource) test, the status of the device to be tested must be changed to "Out of service" by entering the OUS command in advance. If an attempt is made to test a device in "INS" status, the following message appears on the screen. "Invalid Status"
7. You can test a device in "Fault" status.
8. If the device test results in failure, first change the status of the device to "Fault" and replace it with a normal one if necessary.
9. It is impossible to execute functional test during off-line communication mode.

2.00 Functions to be Verified

2.01 Card Test

This test verifies the status of each card for the items listed below.

Card to be tested	Item	Remarks
SLC PLC HLC LCOT GCOT DID ATLC AGC	Link Card type ROM RAM	Card to be tested should be "OUS" or "FAULT."
OPX	Link Card type ROM RAM Power Supply	
DISA	Link Card type ROM RAM OGM Rec/Play	
RMT	Link Card type ROM RAM Modem	
DPH	Card Type	

2.02 Port Test

This test verifies the status of the following functions for each port of the indicated cards.

1. By entering physical port number (Except paired extension port and CO port)

Card	Functions	Remarks
PLC HLC	OHCA Detect	Port to be tested should be "OUS" or "FAULT"
ATLC	HDLC	
DISA	Speech Path DTMF Receiver Tone Detector	
AGC	Speech Path Repeater Tone Detector	

2. By entering the physical port number of extension port and CO port in pairs.

LCOT	Speech Path Loop Current Bell Detect DTMF Dial (DTMF Generator) Pulse Dial	2 ports to be tested should be "OUS" or "FAULT." SLC, HLC, OPX and DTMF receiver to be tested should be "OUS" or "FAULT."
GCOT	Speech Path DTMF Dial (DTMF Generator) Pulse Dial	
SLC HLC OPX	Speech Path Bell DTMF Detector (DTMF Receiver) Pulse Detect	

(Note)

- If you want to verify the status of the DTMF receiver (1 or 2), change it's status to "Out of Service" by entering OUS command and verify the status of a card which contains DTMF receivers.
SLC, HLC and OPX card contains two DTMF receivers respectively.
For further information about OUS command, refer to Section 15-C-1.02 "OUS command."
- When you test the SLC, HLC, OPX, LCOT and GCOT cards, change the status of both extension port and CO trunk port to OUS.
- If trouble results from the card (not port), the following message appears on the screen.
"Card Fault"
- This port test is available only for ports on the following cards.
LCOT, GCOT, SLC, PLC, HLC, DISA, AGC, OPX and ATLC cards.

2.03 PITS and ATT Test

To verify the status of PITS or ATT the following functions are tested.

Card to be tested	Function	Remarks
PLC HLC	Link (All types of PITS) DTMF generator (KX-T123230D, KX-T123235 and KX-T7130)	Card to be tested should be "OUS" or "Fault."
ATLC	Link DTMF generator ROM RAM	

3.00 TST command (Test)

Before executing the device test, change the status of the target device to "Out of Service" by entering OUS command.

(Refer to Section 15-C-1.00 "Service Commands and Their Functions." for details about OUS and INS commands)

Command Format

OPE>TST + Index + Item1 + (& Item 2) ↵

Test		Index	Item 1	Item 2
Card Test		1	Physical No. (xyy)	
P O R T T E S T	PITS	2	Physical No. (xyyz) or DN (DN dddd)	
	ATT		Physical No. (xyyz) or ATT No. (Aa)	
	Extension & CO line SLC, HLC, OPX, LCOT, GCOT		(Extension) Physical No. (xyyz) or DN (DN dddd)	(CO line) Physical No. (xyyz)
			(CO line) Physical No. (xyyz)	(Extension) Physical No. (xyyz) or DN (DN dddd)
	Basic Conference Trunk		CFB tt (01 ~ 08)	
	Optional Conference Trunk		CFO tt (01 ~ 64)	
	DISA/AGC		Physical No. (xyyz)	
P I T S & A T T	PITS	3	Physical No. (xyyz) or DN (DN dddd)	
	ATT		Physical No. (xyyz) or ATT No. (Ax)	

Description

x : Shelf No. (1: Basic 2: Expansion 1
3: Expansion 2)
yy : Slot No. (01~15, or **)
zz : Port No. (1~8, or *)
a : Attendant console No. (1~2, or *)
dddd : Directory No. (3~4 digits)
tt : Basic Conference Trunk No. (01~08)
tt : Optional Conference Trunk No. (01~64)

** can be used as a wild card character and substitutes any number from 0 to 9.

(Example)

1** ----- All cards installed in the Basic shelf
105* ----- All ports assigned to the card No.5 in the Basic shelf
2*** ---- All ports in the Expansion shelf 1

5.00 Port Test Results Display

```

:OPE>TST 2 1011<CR>
: 1011 ***** PASS
:OPE>TST 2 2013<CR>
: 2013 ***** NO CARD
:OPE>TST 2 1011&1021<CR>
: 1011 ***** PASS
: 1021 ***** FAULT05
:OPE>
:

```

Port Test Error Code List

Code	Description	Port test	Pair test
FAULT01	Loop current failure	—	○
FAULT02	Bell detection failure	—	○
FAULT03	PB Generator failure	—	○
FAULT04	Dial pulse failure	—	○
FAULT05	PB Receiver 1 failure	○	○
FAULT06	PB Receiver 2 failure	—	○
FAULT07	Tone detection circuit 1 failure	○	—
FAULT08	Tone detection circuit 2 failure	○	—
FAULT09	HDLC failure	○	—
FAULT0A	OHCA card is not installed	○	—
FAULT0B	Pulse detection failure	—	○
FAULT0C	Speech path failure	—	○
FAULT0D	— — — — —	—	—
FAULT0E	— — — — —	—	—
FAULT0F	— — — — —	—	—

Legend:
○ applied
— not applied

6.00 PITS and ATT Test Results Display

```

;OPE>TST 3 A1<CR>
; A1 ***** FAULT02
;OPE>TST 3 DN1012<CR>
; DN1012***** PASS
;OPE>TST 3 2121<CR>
; 2121 ***** FAULT01
;OPE>TST 2 1011&1021<CR>
; 1011 ***** PASS
; 1021 ***** FAULT01
;OPE>
;

```

PITS and ATT Test Error Code List

Code	Description
FAULT01	PITS Link failure, ATT Link failure
FAULT02	PITS PB Generator failure, ATT PB Generator failure
FAULT03	-----
}	
FAULT09	
FAULT0A	-----
FAULT0B	-----
FAULT0C	Speech Path failure
FAULT0D	-----
FAULT0E	-----
FAULT0F	-----

* If trouble results from card, an error message "Card Fault" appears on the screen.

F. Monitor

1.00 SYM command (System Maintenance Monitor)

Current operating status of the following items can be displayed on the screen by entering SYM command.

Command Format

OPE>SYM + Index ↵

(Index)

- 1 : System Status
- 2 : Card Status
- 3 : Port Status
- 4 : Conference Trunk Status

1.01 System Status screen

Command Format

OPE>SYM 1-- ↵

Device Status (1/4)		ONL MON
System Status		
ROM Version -----		V1.00
Date -----		May.08 1991
For Place -----		Area-2
CPU RAM -----		INS
Basic Shelf -----		INS
Expansion Shelf 1 -----		INS
Expansion Shelf 2 -----		—
TSW		
Additional CONF -----		—
SMDR -----		INS

INS: In Service, OUS: Out of Service, FLT: Fault

Description

ROM version	-----	Software's version
Date	-----	The date software was originated
For Place	-----	Destination
CPU RAM	-----	Status of RAM area
Basic Shelf	-----	Status of Basic Shelf
Expansion Shelf 1	-----	Status of Expansion Shelf 1
Expansion Shelf 2	-----	Status of Expansion Shelf 2
TSW	-----	Status of TSW card
Additional CONF	-----	Status of optional conference card
SMDR	-----	Status of SMDR device

* In above screen, "—" indicates that the device is not installed.

1.02 Card Status screen

Command Format

OPE>SYM 2 ↵

Device Status (2/4)						ONL	MON				
Card Status											
Basic Shelf	01	PLC	I	Expansion Shelf 1	01	PLC	F	Expansion Shelf 2	01	LCOT	O
	02	PLC	I		02	PLC	F		02	LCOT	O
	03	PLC	I		03	PLC	F		03	LCOT	O
	04	PLC	I		04	PLC	F		04	LCOT	O
	05	PLC	I		05	PLC	F		05	LCOT	O
	06	PLC	I		06	PLC	F		06	LCOT	O
	07	PLC	I		07	PLC	F		07	LCOT	O
	08	PLC	I		08	PLC	F		08	LCOT	O
	09	PLC	I		09	PLC	F		09	LCOT	O
	10	PLC	I		10	PLC	F		10	LCOT	O
	11	PLC	I		11	PLC	F		11	LCOT	O
	12	PLC	I		12	LCOT	F		12	LCOT	O
B2	OHCA	F	13	LCOT	F	13	ATLC	O			
B3	TSW	I	14	LCOT	F	14	DPH	O			
			15	LCOT	F	15	RMT	O			

I: In Service, O: Out of Service, F: Fault

Description

In the above screen, a blank indicates that a card is not installed in the slot.

1.03 Port Status screen

Command Format

OPE>SYM 3- ↵

Device Status (3/4)		ONL MON											
Port Status													
Slot	Basic Shelf			Expansion Shelf 1					Expansion Shelf 2				
	000000000111			0000000001111111					0000000001111111				
	123456789012			123456789012345					123456789012345				
1		O											
2		O											
P o r t	3	O	O										
	4	O											
	5			O	B								
	6	F		O	B								
	7			F									
	8			F									
DTMF	1		O	F									
Rec	2	F	O										

I: In Service, O: Out of Service, F: Fault, B: Busy Out

Description

DTMF Rec — Status of DTMF receiver
 Two DTMF receivers are provided on the SLC, HLC and OPX cards.

The system administrator can change the status of a CO port from "Busy Out" to "INS" by entering INS command.

In the above screen a blank indicates that a port is not assigned to the system.

1.04 Conference Trunk Status screen

Command Format

OPE>SYM 4 ↵

Device Status (1/4)						
Conference Trunk Status						
Basic	1	OUS	3	5	7	
	2	OUS	4	6	8	
Option	1	INS	13	25	37	49
	2	INS	14	26	38	50
	3	INS	15	27	39	51
	4	INS	16	28	40	52
	5	INS	17	29	41	53
	6	OUS	18	30	42	54
	7	FLT	19	31	43	55
	8	INS	20	32	44	56
	9	INS	21	33	45	57
	10	OUS	22	34	46	58
	11	INS	23	35	47	59
	12	INS	24	36	48	60

INS ; In Service OUS ; Out of Service FLT ; Fault

Description

This screen shows the current operating status of both basic and optional conference trunks.

2.00 TFD command (Traffic Display)

Displays traffic measurement for extensions, trunk groups, attendant consoles and resources.

Command Format

OPE>TFD + Index + Item1 + (item2) ↵

	Index	Item1	Item 2
Station	1	The first half = 1 The second half = 2	
Trunk Group	2	Trunk Group No. (01~16)	The first half = 1 The second half = 2
ATT	3	ATT No. (1 or 2)	The first half = 1 The second half = 2
DISA	4		
OGM1	5	The first half = 1 (Tenant 1)	
OGM2	6	The second half = 2 (Tenant 2)	
AGC	7		

Description

1. Station
Displays traffic measurements of all extensions.
2. Trunk Group
Displays traffic measurements of each trunk group.
3. Attendant Console
Displays traffic measurements of each attendant console.
4. DISA, OGM1, OGM2, AGC
Displays traffic measurements of each resource.
If tenant service is assigned to the system, traffic measurements of each resource will be displayed by each tenant individually.

Programming

Set desired start time in "System-Operation" Start Time of Traffic Measurement.
Refer to Section 10-C-4.00 "Operation (OPR)" for programming.

2.01 Station screen

Command Format

OPE>TFD-1 (1 ~ 2) ↵

Traffic Information - Station (1/2)						
Feb. 22 1990						
Start Time	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00AM	2 :00AM
Incoming Calls	498	637	590	120	803	760
Answer Calls	360	503	476	88	711	662
Outgoing Calls	405	602	555	103	763	731
Completed Calls	241	430	411	48	509	500
CCS	723	811	780	230	998	889
Start Time	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Incoming Calls	632	721	611	598	420	311
Answer Calls	531	603	482	449	289	192
Outgoing Calls	600	654	600	531	301	191
Completed Calls	442	488	503	461	188	119
CCS	800	830	762	750	680	620

Description

- Start Time** — The system can be programmed to display traffic measurements of the extensions from up to 24 hours before the current time. In above example, "9:00 AM" indicates the traffic measurement from 9:00 AM to 10:00 AM one day ago.
- Incoming Calls** — The number of incoming calls (both extension and CO).
- Answer Calls** — The number of answered calls (both extension and CO).
- Outgoing Calls** — The number of outgoing calls (both extension and CO).
- Completed Calls** — The number of completed calls (both extension and CO).
- CCS** — One hundred call seconds, or one hundred seconds of telephone conversation. One hour of telephone traffic is equal to 36 CCS.

2.02 Trunk Group screen

Command Format

OPE>TFD 2 (01 ~ 16) (1 ~ 2) ↵

Traffic Information - Trunk Group (1/2)						
Feb. 22 1990		Trunk Group No. = 01				
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00AM	2 :00AM
Incoming Calls ----	406	511	430	110	763	653
Answer Calls -----	232	362	291	65	580	572
Outgoing Calls ----	362	419	381	98	601	599
Completed Calls --	241	311	263	60	449	472
Busy Calls -----	109	120	95	39	195	201
CCS -----	700	801	755	215	932	831
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Incoming Call ----	613	555	529	511	412	311
Answer Calls -----	482	412	427	400	303	200
Outgoing Calls ----	499	400	395	382	291	183
Completed Calls --	362	282	312	300	162	99
Busy Calls -----	139	99	112	95	68	35
CCS -----	777	703	683	663	582	411

Description

Busy Calls — The number of outgoing calls which encountered a busy line.

For a description of other items, refer to Section 15-F-2.01 "Station screen."

2.03 Attendant Console screen

Command Format

OPE>TFD 3 (1 ~ 2) (1 ~ 2) ↵

Traffic Information - Attendant Console (1/2)						
Feb. 22 1990		Attendant No. = 01				
Start Time	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00AM	2 :00AM
Incoming Calls	511	632	590	140	809	751
Answer Calls	412	488	476	99	680	612
Outgoing Calls	403	471	555	121	762	592
Completed Calls	291	403	411	83	611	464
Handle Calls	300	381	299	69	491	391
CCS	712	853	768	240	998	900
Start Time	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Incoming Calls	721	700	683	592	483	301
Answer Calls	549	550	521	482	362	188
Outgoing Calls	611	603	549	468	411	165
Completed Calls	455	423	401	352	348	100
Handle Calls	311	301	281	311	298	83
CCS	881	862	800	762	700	583

Description

Handled Call — The number of calls transferred by the attendant console.

For a description of other items, refer to Section 15-F-2.01 "Station screen."

2.04 DISA screen

Command Format

OPE>TFD 4 (1~2) ↓

Traffic Information - DISA						
Feb. 22 1990			Tenant = 1			
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM
Busy Calls -----	5	18	12	2	20	8
CCS -----	3	10	2	1	10	3
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Busy Calls -----	30	4	12	3	2	4
CCS -----	20	2	8	1	1	2
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM
Busy Calls -----	6	20	12	4	2	4
CCS -----	3	9	3	2	1	2
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Busy Calls -----	30	0	12	3	2	4
CCS -----	10	0	6	1	1	2

Description

- Start Time ----- Refer to Section 15-F-2.01 "Station screen."
- Busy Calls ----- The number of DISA calls which failed to access any DISA resources.
- CCS ----- One hundred call seconds, or one hundred seconds of telephone conversation.
One hour of telephone traffic is equal to 36 CCS.
- Tenant ----- If tenant service is employed, DISA screen for each tenant is displayed individually.

2.05 OGM1 screen

Command Format

OPE>TFD 5 . - 2) ↵

Traffic Information - OGM1						
Feb. 22 1990		Tenant = 1				
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM
Busy Calls -----	5	20	12	3	2	4
CCS -----	1	8	2	1	2	4
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Busy Calls -----	30	5	12	8	2	4
CCS -----	20	1	8	3	1	2
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM
Busy Calls -----	6	18	12	3	2	4
CCS -----	2	7	3	1	1	2
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Busy Calls -----	30	0	12	7	2	4
CCS -----	10	0	6	3	1	2

Description

- Start Time ----- Refer to Section 15-F-2.01 "Station screen."
- Busy Calls ----- The number of calls which failed to access any OGM1 resources.
- CCS ----- One hundred call seconds, or one hundred seconds of telephone conversation.
One hour of telephone traffic is equal to 36 CCS.
- Tenant ----- If tenant service is employed, OGM 1 screen for each tenant is displayed individually.

2.06 OGM2 screen

Command Format

OPE>TFD 6-(1 ~ 2) ↓

Traffic Information - OGM2						
Feb. 22 1990		Tenant = 1				
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM
Busy Calls -----	3	20	12	3	2	4
CCS -----	1	11	2	1	2	4
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Busy Calls -----	8	5	12	5	2	4
CCS -----	2	2	8	2	1	2
Start Time -----	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM
Busy Calls -----	7	13	12	4	2	4
CCS -----	3	6	3	2	1	2
Start Time -----	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM
Busy Calls -----	30	4	12	7	2	4
CCS -----	10	1	6	4	1	2

Description

- Start Time ----- Refer to Section 15-F-2.01 "Station screen."
- Busy Calls ----- The number of calls which failed to access any OGM2 resources.
- CCS ----- One hundred call seconds, or one hundred seconds of telephone conversation.
One hour of telephone traffic is equal to 36 CCS.
- Tenant ----- If tenant service is employed, OGM 2 screen for each tenant is displayed individually.

2.07 AGC screen

Command Format

OPE>TFD 7 (1 ~ 2) ↓

Traffic Information - AGC											
Feb. 22 1990		Tenant = 1									
Start Time	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM					
Busy Calls	3	10	12	3	2	4					
CCS	1	3	2	1	2	4					
Start Time	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM					
Busy Calls	30	8	12	4	2	4					
CCS	20	2	8	2	1	2					
Start Time	9 :00AM	10 :00AM	11 :00AM	12 :00AM	1 :00PM	2 :00PM					
Busy Calls	30	9	12	3	2	4					
CCS	10	3	3	1	1	2					
Start Time	3 :00PM	4 :00PM	5 :00PM	6 :00PM	7 :00PM	8 :00PM					
Busy Calls	30	8	12	8	2	4					
CCS	10	3	6	3	1	2					

Description

- Start Time ——— Refer to Section 15-F-2.01 "Station screen."
- Busy Calls ——— The number of calls which failed to access any AGC resources.
- CCS ——— One hundred call seconds, or one hundred seconds of telephone conversation.
One hour of telephone traffic is equal to 36 CCS.
- Tenant ——— If tenant service is employed, AGC screen for each tenant is displayed individually.

G. Other Features

1.00 PFT command (Power Failure Transfer)

Description

Provides up to 144 extension/CO line pairs to maintain a conversation when power is restored or TSW recovery.

If this is not programmed then power restoration or TSW recovery drops any existing conversations.

Command Format

PRG > PFT + AT+ (Index)

Index = PFT No. (01 ~ 18)

Screen display

```
; PRG > PFT SH01 <CR>
; PFT No. 01
;   1 : Trunk Slot No. -----101
;   2 : Extension Slot No.-----107
; PFT No. 02
;   1 : Trunk Slot No. -----102
;   2 : Extension Slot No.-----108
;
;
;
;
; PFT No. 18
;   1 : Trunk Slot No. -----206
;   2 : Extension Slot No.-----212
; PRG >
```

Item	Data	Explanation
1	101~315	Assign LCOT or GCOT card No. which are available for power failure transfer
2	101~315	Assign HLC or SLC card No. which are available for power failure transfer

Refer to Section 10-C-47.00 "Power Failure Transfer (PFT)," for further information about programming.

Conditions

SLT telephones and some PITS telephones* can be used during power failure if power failure transfer assignment had been done in advance.

*Following PITS telephones can be used during power failure.

PITS-KX-T123230, KX-T123230D,
KX-T123235, KX-T61630, KX-T30830

When you are using the PITS telephones available with power failure transfer, set the POWER FAILURE switch to ON, when power failure occurs.

If dialing cannot be done, set the DIALING MODE selector to another position (PULSE or TONE).

When the power is restored, set the POWER FAILURE switch to OFF.

If the power is restored during a conversation, set the POWER FAILURE switch to OFF after conversation is completed.

Section 16

Backup Utility-On-Site

(Section 16)

Backup Utility-On-Site

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A. Introduction

Introduction

Backup is a procedure where a copy of the system programming data and attendant console database is stored on an external storage medium, such as a floppy disk or magnetic tape. If it becomes necessary to re-initialize the system programming data and attendant console database, it will be faster to reload from tape or disk than by manual re-input. This section describes a backup procedure of system programming data and attendant console database at on-site.

Backup Types

There are following two backup types.

1. Save (Main Unit → Backup Device)

- Saving system programming data and attendant console database from the system to the backup device at on-site can be done during on-line mode as well as off-line mode.
- When an attendant console is used as the system administration device, saving the system programming data and attendant console database can be done using a personal computer with external storage medium.

2. Load (Backup Device → Main Unit)

- Loading system programming data and attendant console database from the backup device to the system can be done during off-line mode only.
- When an attendant console is used as the system administration device, loading the system programming data and attendant console database can be done using a personal computer with external storage medium.

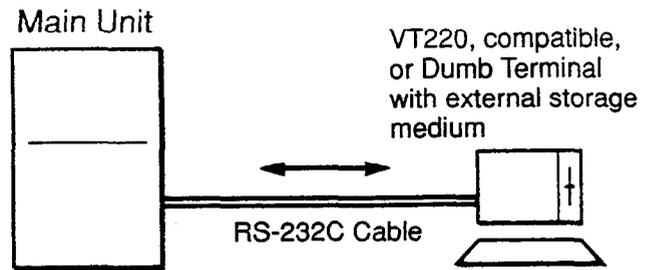
(Note)

To save/load the attendant console database, first save/load the data to the Main Unit and then save/load the attendant console database to the backup device.

Refer to Section 13-E "Backup Mode" for further information.

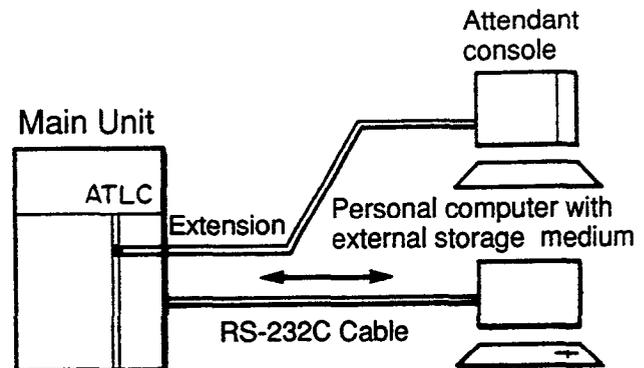
Backup Configuration

1. Maintenance Device = Operation device



The backup device is the same as the maintenance device.

2. Maintenance device = Attendant console



The backup device is a personal computer with external storage medium

B. Backup Utility Types

1.00 VT220, Compatibles, or Dumb Terminals

On-site backup is possible with the following terminals which have functions for saving system programming data and attendant console database sent via RS-232C cable to an external storage medium and loading the saved system programming data and attendant console database to the Main Unit.

- VT220, (VT100) terminal
- VT220 (VT100) compatible terminal
- Dumb terminal

Operating Mode Switching (VT220 → Dumb)

There are two methods for switching the mode from VT220 to Dumb.

1. First set "System-Operation (2/3)" System Administration Device to "Dumb" and save the change to memory.
Change to Dumb mode is made when "9. Exit" is selected in the Main Menu and reenter the system administration mode, or when the communication is interrupted and reconnection is made to the system.

(Note)

When a Dumb mode is entered using the above procedure, return to VT mode is not possible even when **CTRL** key + **V** key are pressed simultaneously.
Return to VT mode is made by changing the System Administration Device name by operation in Dumb mode from Dumb to VT220 and using the exit command at the initial prompt ">" or interrupting the communication between the system and maintenance device once and then restarting communication.

2. When **CTRL** key + **V** key are pressed simultaneously while the Main Menu is being displayed in VT mode, the mode will be switched from VT220 to Dumb.
When **CTRL** key + **V** key are pressed simultaneously while the initial prompt ">" is displayed in Dumb mode, the mode will be switched from Dumb to VT220.

(Note)

Even when System Administration Device name is changed to Dumb in VT mode, switching from VT220 to Dumb and from Dumb to VT220 by simultaneously pressing **CTRL** key + **V** key is possible until exit has been executed once or until the communication has been interrupted.

Operating Mode Switching (Dumb → VT220)

1. When the System Administration Device name is changed from Dumb to VT220 by operation in Dumb mode, VT mode will be obtained when the communication between the system and maintenance device is interrupted once and then started again.

(Note)

In the above case, return to VT mode will not be executed by simultaneously pressing **CTRL** key + **V** key in Dumb mode.

2.00 Before Beginning Backup

It will not be possible to save or load the system programming data and attendant console database correctly if the backup device's communications settings are not correct.

1. Are the baud rate, number of data bits, stop bit and parity settings correct? They must all be the same as the settings on the system side. (Is there a communications format setting? This must be set to full duplex.)
2. Is the backup device set up to send X-on/X-off codes to control the flow of the data from the system? (X-on/X-off send)
Also, is it set up to receive X-on/X-off codes sent from the system to control the flow of the data sent to the system? (X-on/X-off receive)
Both are essential.
3. Is the backup device set so that all control codes corresponding to ASCII 00h-1Fh are transmitted and written to the storage device?
Also, is the backup device set so that these stored control codes can be sent without limitation to the system?
The above settings are necessary to ensure that the SOH, STX, EOT, ETX codes, etc. specified in the transmission format correspond to the control codes.
In addition, in order to perform a backup with a protocol, the backup device must be set up so that all codes from 00h-FFh are received, stored and transmitted.
4. Does the setup specify automatic linefeeds (the linefeed code is automatically added to the data each time the data displayed reaches the 80th column at the far right of the screen)? If this function is enabled, the large number of extra codes added to the data will produce an "Illegal code detect" error whenever data is loaded. The automatic linefeed function must therefore be turned off.

3.00 Using VT220, Compatibles

3.01 Backup Main Menu

From the Main Menu Screen, Select "7. Backup Utility" then the following "Backup Utility Main Menu" appears on the screen.

Backup Utility Main Menu		ONL	BCK	LIN	DIR
1. Load (SIO 1 -> PBX)					
2. Save (PBX -> SIO 1)					
=>	█				
COMMON	█	█	█	█	█

Description

1. Load...Loading the saved data (system programming data and attendant console database) from backup device to the Main Unit.
2. Save...Saving the system programming data and attendant console database from the Main Unit to backup device.

3.02 Saving Procedure

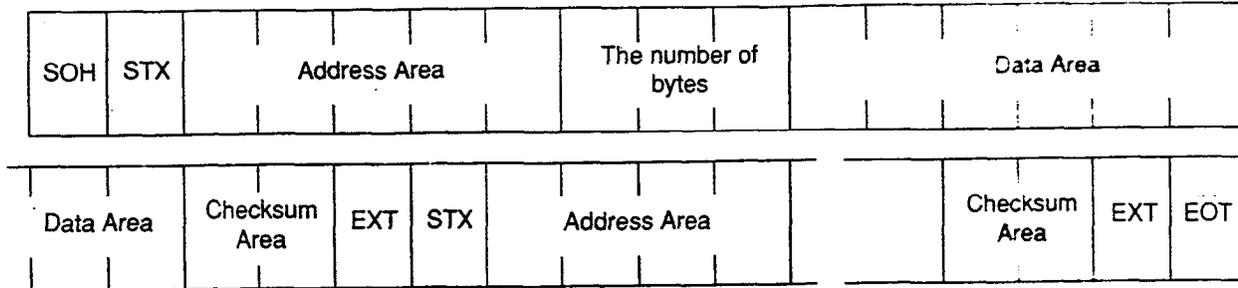
Save - Submenu	OFL	BCK	LIN	DIR			
-----+-----+-----+-----							
1. ALL Data							
2. PBX Data							
3. ATT1 Local Data							
4. ATT2 Local Data							
=> █							
COMMON	2	3	4	5	6	7	8

1. First, confirm that the preparations for start of communication between sender and receiver have been made, like uniform communication parameters for sender and receiver etc.
2. Select "2. Save" from the Backup Utility Main Menu, then Save-Submenu screen appears on the screen. (See above)
3. Before selecting an area, prepare the terminal to receive data.
4. Select the area (1 to 4) with the submenu. (Refer to [Submenu Description].)
5. The saving start message "Transfer start" appears on the screen. Then the selected data is transferred as ASCII codes from the Main Unit to the backup device.
6. When saving is finished, the following message appears on the screen.
"Transfer end"
7. Release the Data Receive mode of the backup device.

[Submenu Description]

1. All Data ...Saves all data, system programming data and attendant console database (ATT1 and/or ATT2), from the Main Unit to backup device.
2. PBX Data ...Saves PBX data (system programming data) from the Main Unit to backup device.
3. ATT1 Local Data ...Saves the database of attendant console assigned as ATT1 from the Main Unit to backup device.
4. ATT2 Local Data ...Saves the database of attendant console assigned as ATT2 from the Main Unit to backup device.

Transmission Format



SOH = Start of header

STX = Start of text

Address = System data address

(If system address is "FFFFF h", it would be software version) (ASCII code)

The number of byte = 1 to 256 (ASCII code)

Data area = System data (ASCII code)

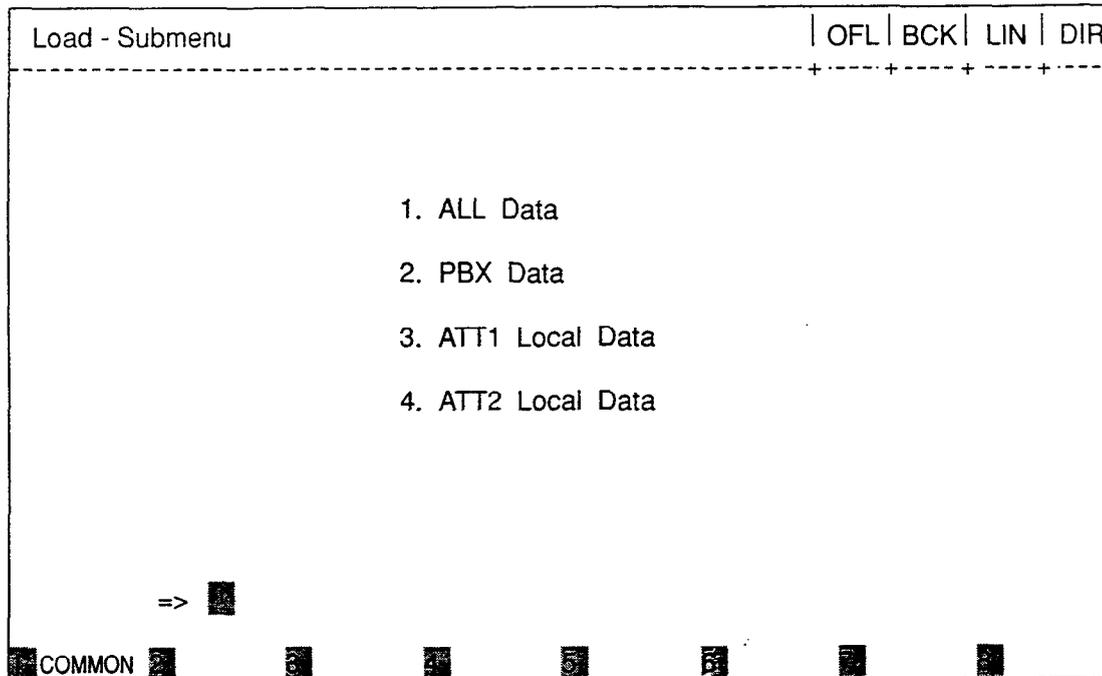
Checksum = Address + The number of bytes + data

* The complement of the sum of all bytes (ASCII code)

ETX = End of text

EOT = End of data transfer

3.03 Loading Procedure



1. First, confirm that the preparations for start of communication between sender and receiver have been made, like uniform communication parameters for sender and receiver etc.
2. Select "1. Load" from the Backup Utility Main Menu, then Load-Submenu Screen appears on the screen. (See above)
3. Select the area (1 to 4) with the submenu. (Refer to [Submenu Description].)
4. The loading start message "Transfer start" appears on the screen, and the system waits for the data from the backup device.
5. Change the backup device to Data Send mode. Saved data is transmitted as ASCII codes from the backup device to the system.
6. When loading of the saved data is finished, the following message appears on the screen. "Transfer end"
7. Release the Data Send mode of the backup device.
8. You can edit the just loaded data in off-line mode.
And if you want to restart the system (enters to on-line mode), set the Operation Switch (MODE) to on-line mode, and press the RESET button.

For further information about Operation Switch, refer to Section 2-F-2.00 "CPU Rotary-Switch Features."

[Submenu Description]

1. All Data Loads all data, system programming data and attendant console database (ATT1 and/or ATT2), from backup device to Main Unit.
2. PBX Data ...Loads PBX data (system programming data) from backup device to Main Unit.
3. ATT1 Local Data ...Loads the database of attendant console assigned as ATT1 from backup device to Main Unit.
4. ATT2 Local Data ...Loads the database of attendant console assigned as ATT2 from backup device to Main Unit.

(Note)

Loading the saved data is possible during off-line mode only. If you select "1. Load" in on-line mode, an error message appears on the screen and your selection becomes invalid. No other troubles occur.

4.00 Using Dumb Terminal

4.01 Saving Procedure

1. First, confirm that the preparations for start of communication between sender and receiver have been made, like uniform communication parameters for sender and receiver etc.

2. Change the system mode to Data Receive.

3. Select the area and enter the saving command.

- (a) Command format

OPE>SAV + Item 1 + Item 2

- (b) Item explanation

Item 1 : 1 to 4

1. All Data
2. PBX Data
3. ATT1 Local Data
4. ATT2 Local Data

Item 2 : 1 to 3

1. No procedure (Hex)
2. CRC-16 (binary code decimal) available only in remote operation
3. CRC-CCITT (binary code decimal) available only in remote operation

(Note)

- Refer to Section 16-B-3.02 "Saving Procedure" about description of Item 1.
- To select the option 2, or 3 of Item 2 is available only when you are saving the system programming data and attendant console database from a remote location.

4. The saving start message "Transfer start" appears on the screen. Then the selected data is transferred as ASCII codes from the system to the backup device.
5. When saving is finished, the following message appears on the screen.
"Transfer end"
6. Release the Data Receive mode of the backup device.

4.02 Loading Procedure

1. First, confirm that the preparations for start of communication between sender and receiver have been made, like uniform communication parameters for sender and receiver etc.

2. Enter the loading command.

- (a) Command format

OPE>LOD + Item 1 + Item 2

- (b) Item explanation

Item 1 : 1 to 4

1. All Data
2. PBX Data
3. ATT1 Local Data
4. ATT2 Local Data

Item 2 : 1 to 3

1. No procedure (Hex)
2. CRC-16 (binary code decimal) available only in remote operation
3. CRC-CCITT (binary code decimal) available only in remote operation

(Note)

- Refer to Section 16-B-3.03 "Loading Procedure" about description of Item 1.
- To select the option 2, or 3 of Item 2 is available only when you are loading the saved data from a remote location.

3. The loading start message "Transfer start" appears on the screen, and the system waits for the data from the backup device.
4. Change the terminal to data send mode. Selected data is transferred as ASCII codes from the backup device to the system.
5. When loading is finished, the following message appears on the screen.
"Transfer end"
6. Release the Data Send mode of the backup device.
7. When loading the selected data is finished, you can edit the loaded data in off-line communication mode.
And if you want to restart the system (move to on-line mode), set the Operation Switch (MODE) to on-line mode, and press the RESET button.

(Note)

Loading the selected data is possible only in off-line mode. If you select "1. Load" in on-line mode, an error message appears on the screen and your selection becomes invalid. No other troubles occur.

C. Troubleshooting

1. If the following troubles should occur during backup operation, stop the operation and return to the initial screen.

- When the communication cable connection has disconnected.
- When the backup device has lost power.

In above case stop the loading and boot the system with default values compulsorily.

2. Checksum error detection

If checksum error is detected during loading the system programming data, an error message appears on the screen and loading is terminated.

Then the system is reset and started with default values automatically.

Error Message List

Error Message	Contents	Countermeasures
Device error (VT220) DATA ERROR 027(Dumb)	Backup device is not connected (only when maintenance device is attendant console)	Connect the backup device to SIO # 1 Port.
Version* error (VT220) DATA ERROR 029(Dumb)	Different version* at the time of backup	Match the backup version.
Checksum error (VT220) DATA ERROR 030(Dumb)	A checksum error has been detected.	Communication line is defective or backup data is destroyed.
Illegal code detected (VT220) DATA ERROR 031(Dumb)	Incorrect data has been received.	Communication line is defective or backup data is destroyed.

* Version=System Data Version

The system firmware (ROM) needs to be changed only in case of a software update involving an alteration in the data format of the system area. The backup function does not allow compatibility between different system data versions. Data saved using the old version of the firmware can be used as is even if the firmware is updated, as long as the system programming data (RAM) is not changed.

Section 17

Backup Utility-Remote Location

(Section 17)

Backup Utility-Remote Location

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A. Introduction

Introduction

This section describes a backup procedure of system programming data and attendant console database from a remote location.

To execute system programming, diagnosis, data backup, and traffic measurement in an interactive format via CO line from a remote location, RMT card (Modem) must be installed to the system. Backup (Save and Load) from a remote location is possible only in Dumb mode.

For further information about switching of the operating modes, please refer to Section 16-B "Backup Utility Types."

The following conditions are required for remote operation.

- To have successful data communications with protocol, the communication parameters of both the system and remote maintenance terminal must be preset to the following fixed values.

data = 8 bit
parity = none
stop = 1 bit

* These fixed communication parameters do not apply to the data communication without protocol.

- For remote access, a data terminal and modem are required at a remote location. For further information about communication parameters, refer to Section 9-D-7.00 "Communication Interface."
- RMT card (Modem) must be installed to the system.
- To administer the system from a remote location, assign "System-Operation" "Remote Directory Number" in system programming.
- Backup (Save and Load) from a remote location is possible only in Dumb mode. (When system administration from a remote location is started, the system defaults to Dumb operation mode.)

For further information about remote operation, refer to Section 14-B-2.00 "System Administration from a Remote Location."

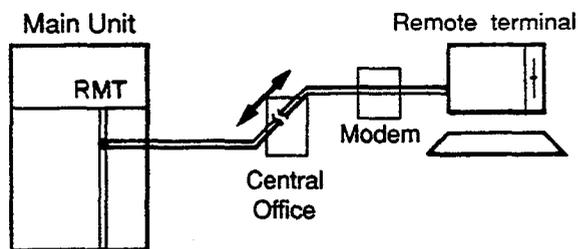
Backup Types

There are following two backup types.

1. Save (Main Unit → Remote terminal)
 - Saving the system programming data and attendant console database from the system to remote terminal is possible during on-line communication mode only.
2. Load (Remote terminal → Main Unit)
 - When loading the system programming data and attendant console database from a remote terminal begins, the system automatically shifts to off-line mode while holding the speech path.

Backup Configuration

1. Maintenance device = RMT (remote) terminal



The backup device is the same as the maintenance device

B. Backup Utility Types

1.00 Before Beginning Backup

It will not be possible to save or load the system programming data and attendant console database correctly if the backup device's communications settings are not correct.

1. Are the baud rate, number of data bits, stop bit and parity settings correct? They must all be the same as the settings on the system side. (Is there a communications format setting? This must be set to full duplex.)
2. Is the backup device set up to send X-on/X-off codes to control the flow of the data from the system? (X-on/X-off send) Also, is it set up to receive X-on/X-off codes sent from the system to control the flow of the data sent to the system?
Both are essential.
3. Is the backup device set so that all control codes corresponding to ASCII 00h-1Fh are transmitted and written to the storage device? Also, is the backup device set so that these stored control codes can be sent without limitation to the system?
The above settings are necessary to ensure that the SOH, STX, EOT, ETX codes, etc. specified in the transmission format correspond to the control codes.
In addition, in order to perform a backup with a protocol, the backup device must be set up so that all codes from 00h-FFh are received, stored and transmitted.
4. Does the setup specify automatic linefeeds (the linefeed code is automatically added to the data each time the data displayed reaches the 80th column at the far right of the screen)? If this function is enabled, the large number of extra codes added to the data will produce an "illegal code detect" error whenever data is loaded. The automatic linefeed function must therefore be turned off.

2.00 Using Dumb Terminal

2.01 Saving Procedure

First, confirm that the preparations for the start of communication have been made.

- The communication parameters must be the same for sender and receiver.
- The system will do an "auto baud" to adjust its baud rate to remote terminal (300 or 1200 baud).

Without the protocol

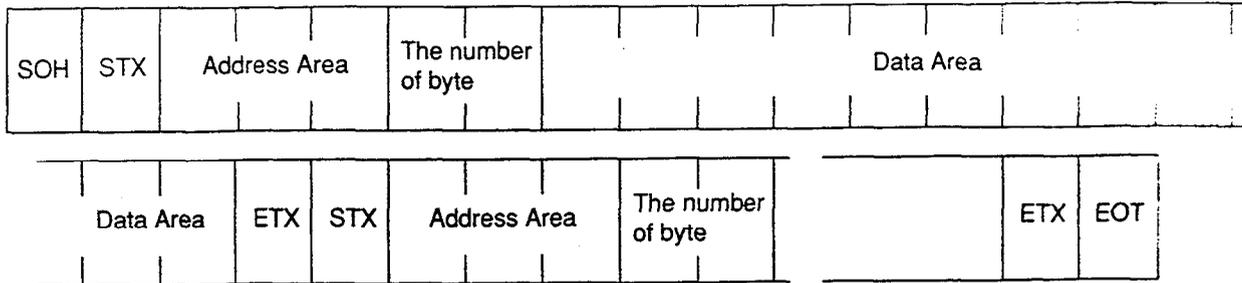
1. Change the terminal to data receive mode.
2. Select the area and enter the saving command.
 - (a) Command format
OPE>SAV + Item 1 + Item 2
 - (b) Item explanation
Item 1 : 1 to 4
 1. All Data
 2. PBX Data
 3. ATT1 Local Data
 4. ATT2 Local Data

Refer to Section 16-B-3.02 "Saving Procedure" about description of Item 1.

Item 2 : 1 to 3
 1. No procedure (Hex)
 2. CRC-16 (binary code decimal) only available in remote operation
 3. CRC-CCITT (binary code decimal) only available in remote operation
3. The saving start message
"Transfer start" appears on the screen.
Then the selected data is transferred as ASCII codes from the system to the remote terminal.
4. When the saving is finished, the following message appears on the screen.
"Transfer end"
5. Release the Data Receive mode of the backup device.

Using the protocol CRC-16/CRC-CCITT

1. Select the area and enter the saving command.
A message "Transfer start" appears on the screen, and the system will wait for protocol linking.
Refer to the explanations for without the protocol on this page in regard to (a) Command format and (b) Item explanation.
2. Switch the terminal to protocol data receive mode.
When the protocol link has been established, the selected data is transferred in binary format from the system to a remote terminal.
3. When saving is finished, the protocol link is disconnected automatically, and the mode changes to non-protocol communication mode, and the following message appears on the screen.
"Transfer end"
4. Release Protocol Data Receive mode of the backup device.



Transmission Format

SOH = Start of header

STX = Start of text

Address = System data address

(Is system address is "FFFFF h", it would be software version)

(Binary data)

The number of byte = 1 to 256 (Binary data)

Data area = System data (Binary data)

Checksum = Address + The number of bytes + data

ETX = End of text

EOT = End of data transfer

2.02 Loading Procedure

First, confirm that the preparations for the start of communication have been made.

- The communication parameters must be the same for sender and receiver.
- The system will do an "auto baud" to adjust its baud rate to the remote terminal (300 or 1200 baud).

Without the protocol

1. Enter the loading command.
 - (a) Command format
OPE>LOD + Item 1 + Item 2
 - (b) Item explanation
Item 1 : 1 to 4
 1. ALL Data
 2. PBX Data
 3. ATT1 Local Data
 4. ATT2 Local Data

Refer to Section 16-B-3.03 "Loading Procedure" about description of Item 1.

Item 2 : 1 to 3
 1. No procedure (Hex)
 2. CRC-16 (binary code decimal) available only in remote operation
 3. CRC-CCITT (binary code decimal) available only in remote operation
2. The loading start message "Transfer start" appears on the screen, and the system waits for the data from the remote terminal.
3. Change the terminal to data send mode. Selected data is transferred as ASCII codes from the remote terminal to the system.
4. When loading the selected data from a remote terminal begins, the system automatically shifts to off-line mode while holding the speech path.
5. When loading the selected data is finished, the following message appears on the screen. "Transfer end"

6. Release the Data Send mode of the backup device.
7. When the remote operation is terminated, the system is reset automatically.

Using the protocol CRC-16/CRT-CCITT

1. Enter the loading command.
Refer to the explanations for without protocol in regard to (a) Command format and (b) Item explanation.
2. The loading start message "Transfer start" appears on the screen, and the system waits for Protocol Linking.
3. Change the remote terminal to protocol data send mode.
When the protocol link has been established, the selected data is transferred in binary format from the remote terminal to the system.
4. During the loading, the system automatically shifts to off-line mode while holding the speech path.
5. When loading the selected data is finished, the protocol link is disconnected automatically, and the protocol data send mode changes to non-protocol communication mode and the following message appears on the screen. "Transfer end"
6. Remove the terminal from protocol data send mode.
7. You can edit the loaded data from a remote location. And if you want to reset the system (enters to on-line mode), replace the handset and stop the data communication. After loading the selected data, if the system detects "no carrier," the system is reset automatically.

C. Troubleshooting

1. If the following troubles should occur during backup operation, stop the operation and return to the initial screen.

- When the communication cable has been disconnected.
- When the remote terminal has lost power.

In above case stop the loading and boot the system with default values compulsorily.

2. Checksum error detection

If checksum error occurs during loading the saved data, an error message appears on the screen and loading is terminated. Then the system is reset and started with default values automatically.

Error Message List

Error Message	Contents	Countermeasures
Data error 027	Backup device is not connected. (only when maintenance device is attendant console)	Connect the backup device to SIO #1 Port.
Data error 029	Different version* at the time of backup.	Match the backup version.
Data error 030	A checksum error has been detected.	Communication line is defective or backup data is destroyed.
Data error 031	Incorrect data has been received.	Communication line is defective or backup data is destroyed.

* Version=System Data Version

The system firmware (ROM) needs to be changed only in case of a software update involving an alteration in the data format of the system area. The backup function does not allow compatibility between different system data versions. Data saved using the old version of the firmware can be used as is even if the firmware is updated, as long as the system programming data (RAM) is not changed.

Section 18

Abbreviations

Abbreviations

A

AGC Automatic Gain Control
 ARS Automatic Route Selection
 ATT Attendant Console
 ATLC Attendant Console Line Circuit

B

BGM Background Music
 BLF Busy Lamp Field
 BSS Busy Station Signaling

C

CHG. Change
 CO Central Office
 COL Central Office Line
 CONF Conference
 COS Class of Service
 COT Central Office Trunk
 CPC Calling Party Control
 CPU Central Processing Unit

D

DES Destination
 DID Direct Inward Dialing
 DIL Direct In Lines
 DISA Direct Inward System Access
 DN Directory Number
 DND Do Not Disturb
 DP Dial Pulse
 DPH Doorphone Circuit
 DSS Direct Station Selection
 DTMF Dual-Tone Multifrequency

E

EFA External Feature Access
 EXT Extension

F

FDN Floating Directory Number
 FWD Call Forwarding

G

GCO Group CO
 GCOT Ground Start Central Office Trunk

H

HLC Hybrid Line Circuit

I

ICM Intercom
 INS In Service
 IRNA Intercept Routing-No Answer

L

LCD Liquid Crystal Display
 LCOT Loop Start Central Office Trunk
 LED Light Emitting Diode
 LNR Last Number Redial

M

MOD Modification
 MODEM Modulator and Demodulator Unit
 MSG Message
 MW Message Waiting

O

OCC Other Common Carrier
 OFDN Overflow Directory Number
 OGM Outgoing Message
 OHCA Off-Hook Call Announcement
 OPX Off Premise Extension
 OUS Out of Service

P

PB Push Button
 PBX Private Branch Exchange
 PCO Private CO
 PDN Primary Directory Number
 PF Programmable Feature
 PITS Proprietary Integrated Telephone System
 PLC Proprietary Integrated Telephone System Line Circuit

R

RMT Remote Circuit
 RST Restart

S

SCO Single CO
SDN Secondary Directory Number
SLC Single Line Telephone Circuit
SLT Single Line Telephone
SMDR Station Message Detail Recording
SNR Saved Number Redial
SRC Source

T

TAFAS Trunk Answer From Any Station
TG Trunk Group
TSW Time Sharing Switch

U

UCD Uniform Call Distribution
UNA Universal Night Answer

W

WT Warning Tone

Section 19

I n d e x

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A

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