

# Panasonic®

## PT Programming Manual

### Hybrid IP-PBX



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Model No. **KX-NS700**

Thank you for purchasing this Panasonic product.

Please read this manual carefully before using this product and save this manual for future use.

**KX-NS700: PFMPR Software File Version 004.30000 or later**

Manuals and supporting information are provided on the Panasonic Web site at:  
<https://panasonic.net/cns/pcc/support/pbx/>

# Introduction

## About this Programming Manual

The PT Programming Manual is designed to serve as a reference to programming the Panasonic IP-PBX using a Panasonic proprietary telephone (PT) with display.

The PT Programming Manual is divided into the following sections:

### **Section 1, Overview**

Provides an overview of programming the PBX.

### **Section 2, PT Programming**

Serves as reference operating instructions when using a display PT to programme the PBX.

### **Feature Programming References**

Provides a list of all related PT programming items for each feature.

## References Found in the PT Programming Manual

### **PT Programming Manual References**

Related sections of the PT Programming Manual are listed for your reference.

### **Feature Manual References**

The Feature Manual explains what the PBX can do, as well as how to obtain the most of its many features and facilities. Sections from the Feature Manual are listed throughout the PT Programming Manual for your reference.

## Links to Other Pages and Manuals

If you are viewing this manual with a PC, certain items are linked to different sections of the PT Programming Manual and other IP-PBX manuals. Click on a link to jump to that section.

Linked items include:

- [PT Programming Manual References](#)
- [Feature Manual References](#)

## Safety Notices

Please observe the safety notices in this manual in order to avoid danger to users or other people, and prevent damage to property.

The notices are classified as follows, according to the severity of injury or damage:



This notice means that misuse could result in death or serious injury.



This notice means that misuse could result in injury or damage to property.

### **WARNING**

**Unplug the PBX from the AC outlet if it emits smoke, an abnormal smell or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised Panasonic Factory Service Centre.**

## NOTES

- The contents of this manual apply to PBXs with a certain software version, as indicated on the cover of this manual. To confirm the software version of your PBX, see **[190] Main Processing (MPR) Software Version Reference**.
- Some optional hardware, software, and features are not available in some countries/areas, or for some PBX models. Please consult your certified Panasonic dealer for more information.
- Product specifications are subject to change without notice.
- Throughout this manual, PT displays and other displays are shown in English. Other languages may be available, depending on the country or area.
- In this manual, the suffix of each model number (e.g., KX-NS700**NE**) is omitted unless necessary.

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# **Section 1**

## **Overview**

*This section provides an overview of programming the PBX.*

# 1.1 Introduction

## 1.1.1 Introduction

These programming instructions are designed to serve as an overall system programming reference for the Panasonic IP-PBX. Each feature in the PBX has default settings that can be changed to customise the PBX to your requirements. These settings control the functions of the PBX, and changing them is referred to as "system programming".

Only one person can perform system programming at a time. Any other users trying to enter system programming mode will be denied access.

## Ways to Programme

There are two programming methods:

- **PC (Personal Computer) Programming**  
All features and settings of the PBX can be programmed through PC programming with Maintenance Console. Installing and starting Maintenance Console are explained in the Installation Manual.
- **PT (Proprietary Telephone) Programming**  
A subset of the features and settings of the PBX can be programmed using a PT. PT programming is described in Section 2.1 PT Programming. An extension user can perform system programming by entering three-digit programming numbers with a PT.

## 1.1.2 Password Security

To maintain system security, system passwords are required to access certain programming functions of the PBX. By giving different users access to different passwords, it is possible to control the amount of programming that each user is able to perform.

The following types of system passwords are available:

Password	Description	Format
System Password (PT) for User	Used to access user-level PT programming. The specific PT programming items that may be programmed at user level can be selected through system programming.	4–10 digits
System Password (PT) for Administrator	Used to access administrator-level PT programming. All PT programming settings are available.	

### **CAUTION**

#### ***To the Administrator or Installer regarding the system password***

1. Please provide all system passwords to the customer.
2. To avoid unauthorised access and possible abuse of the PBX, keep the passwords secret, and inform the customer of the importance of the passwords, and the possible dangers if they become known to others.
3. The PBX has default passwords preset. For security, change these passwords the first time that you programme the PBX.
4. Change the passwords periodically.
5. It is strongly recommended that passwords of 10 numbers or characters be used for maximum protection against unauthorised access. For a list of numbers and characters that can be used in system passwords, refer to Section 1.1.3 Entering Characters.

## 1.1.3 Entering Characters

The following characters can be used when storing a name, message, or other text entry data using a PT. The tables below show you the characters available by pushing each button a specific number of times.

**Note**

For NE models, the tables for Option mode differ depending on the Area Code selected in Easy Setup.

**Table 1 (Standard mode)**

Times Buttons	1	2	3	4	5	6	7	8	9
1	!	?	"	1					
2	A	B	C	a	b	c	2		
3	D	E	F	d	e	f	3		
4	G	H	I	g	h	i	4		
5	J	K	L	j	k	l	5		
6	M	N	O	m	n	o	6		
7	P	Q	R	S	p	q	r	s	7
8	T	U	V	t	u	v	8		
9	W	X	Y	Z	w	x	y	z	9
0	(space)	.	,	'	:	;	0		
*	/	+	-	=	<	>	*		
#	\$	%	&	@	(	)	€	£	#

Table 2 (Option mode)

Times Buttons \	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	!	?	"	ä	ö	ü	1								
2	A	B	C	a	b	c	À	Á	Â	Ã	Ä	Å	Æ	Ç	2
3	D	E	F	d	e	f	Ð	È	É	Ê	Ë	3			
4	G	H	I	g	h	i	Ì	Í	Î	Ï	4				
5	J	K	L	j	k	l	5								
6	M	N	O	m	n	o	Ñ	Ò	Ó	Ô	Õ	Ö	Ø	Œ	6
7	P	Q	R	S	p	q	r	s	Š	ß	7				
8	T	U	V	t	u	v	Û	Ú	Û	Ü	8				
9	W	X	Y	Z	w	x	y	z	Ý	Ž	9				
0	(space)	.	,	'	:	;	0								
*	/	+	-	=	<	>	*								
#	\$	%	&	@	(	)	€	£	#						

Table 2 (Option mode for NE model)

Times Buttons \	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	!	?	"	ä	ö	ü	1								
2	A	B	C	a	b	c	Á	Â	Ã	Ä	Å	Ć	Ç	Č	2
3	D	E	F	d	e	f	Ď	Ð	É	Ě	Ë	ě	3		
4	G	H	I	g	h	i	Í	Î	4						
5	J	K	L	j	k	l	Ĺ	5							
6	M	N	O	m	n	o	Ň	Ń	Ó	Ô	Õ	Ö	6		
7	P	Q	R	S	p	q	r	s	Ř	Ř	Š	Ś	Ş	ß	7
8	T	U	V	t	u	v	Ť	Ŧ	ů	Ú	Ů	Ü	8		
9	W	X	Y	Z	w	x	y	z	Ž	Ž	Ž	Ý	9		
0	(space)	.	,	'	:	;	0								
*	/	+	-	=	<	>	*								
#	\$	%	&	@	(	)	€	£	#						

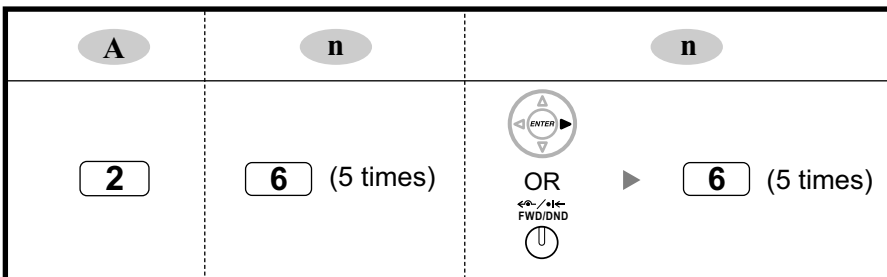
### 1.1.3 Entering Characters

**Table 2 (Option mode for Greece)**

Times Buttons	1	2	3	4	5	6	7	8	9
1	!	?	"	1					
2	A	B	Γ	2					
3	Δ	E	Z	3					
4	H	Θ	I	4					
5	K	Λ	M	5					
6	N	Ξ	O	6					
7	Π	P	Σ	7					
8	T	Υ	Φ	8					
9	X	Ψ	Ω	9					
0	(space)	.	,	'	:	;	0		
*	/	+	-	=	<	>	*		
#	\$	%	&	@	(	)	€	£	#

**[Example of Entering Characters]**

To enter "Ann":



**Note**

- To erase the character on the cursor, press CLEAR.
- To move the cursor to the left, press ←.
- To move the cursor to the right, press →. When entering two or more characters that use the same button consecutively (e.g., "G" and "I"), you must press this button or the FWD/DND button after entering the first character.
- If SELECT is pressed, the characters for each button will be displayed in reverse order.
- To toggle between Table 1 and Table 2 when using the KX-DT300/KX-DT500/KX-NT300/KX-NT500/KX-T7600 series, press the leftmost soft button.

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## **Section 2**

# ***PT Programming***

*This section serves as reference operating instructions when using a display PT to programme the PBX.*























## 2.1 PT Programming

### 2.1.1 Programming Instructions







#### Required Telephone/Extension

PBX settings can be customised through system programming by using a multi-line display Digital Proprietary Telephone (DPT) or IP Proprietary Telephone (IP-PT), such as the KX-NT343, KX-NT346 or KX-NT500 series. Multi-line display Analogue Proprietary Telephones (APTs) are not supported. To access system programming, the Class of Service (COS) assigned to the PT's extension must be programmed to allow system programming, or the PT must be connected to the lowest-numbered port on the card installed in the lowest-numbered slot. Only one system programming session can be performed at a time. This means that only one user can access system programming at a time, whether through a PT or PC. For a list of characters that can be entered during system programming, see Section 1.1.3 Entering Characters.

#### Buttons and Functions

Fixed Buttons		Function
KX-DT300/KX-DT500 KX-NT300/KX-NT500	KX-T7600	
		PREVIOUS
		NEXT
		 (Page up)
		 (Page down)
		ENTER
		Back to Previous Menu (CANCEL)
		SHIFT
		PROGRAM
		END
		SELECT



Fixed Buttons		Function
KX-DT300/KX-DT500 KX-NT300/KX-NT500	KX-T7600	
		FLASH
		CLEAR
		SECRET

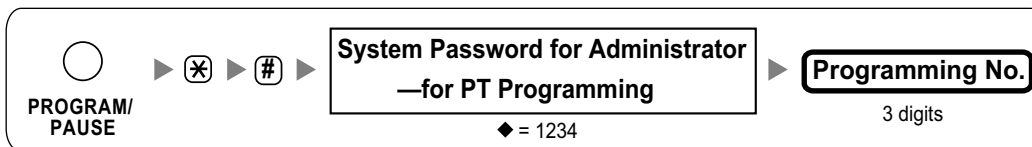
## Entering System Programming Mode

Using a PT to perform system programming allows an authorised extension user to set a wide range of PBX features and parameters.

There are two levels of system programming that can be performed with a PT: administrator-level programming and user-level programming.

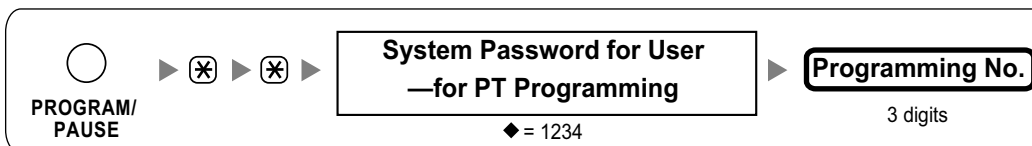
### Administrator Level:

Allows the programming of all settings accessible through PT programming.



### User Level:

Allows the programming of limited settings as permitted through PC programming.



### Note

◆ means default value throughout this manual.

## Programming Structure

Programming Number	Programming Group Title	Description
[0XX]	Basic Programming	Frequently used programming steps
[1XX]	System Management Programming	Global system parameters
[2XX]	Timer Programming	System timers

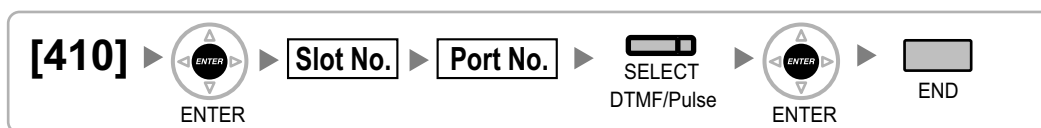
## 2.1.1 Programming Instructions

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<b>Programming Number</b>	<b>Programming Group Title</b>	<b>Description</b>
[3XX]	TRS/Barring/ARS Programming	TRS/Barring and Automatic Route Selection (ARS) programming
[4XX]	Trunk Programming	Trunk, trunk group, and BRI line settings
[5XX]	COS Programming	Class of Service parameters
[6XX]	Extension Programming	Extension feature settings
[7XX]	Resource/Interface Programming	PBX interface and external device settings
[8XX]	SMDR & Maintenance Programming	Station Message Detail Recording (SMDR) and maintenance feature settings
[9XX]	Card Programming	Used to display the cards currently installed in the PBX, or to delete a card from system programming before physically removing it.

## 2.1.2 Slot Number and Port Number

Some programming items require a slot number and port number to be entered, as in the examples below.



Slot numbers are entered as three-digit numbers of the form "XYY":

- X: Shelf number (1–4) (1: Main Unit, 2–4: Expansion Unit)
- YY: Slot number (01–06)  
(e.g. "102" for Main unit slot 2)

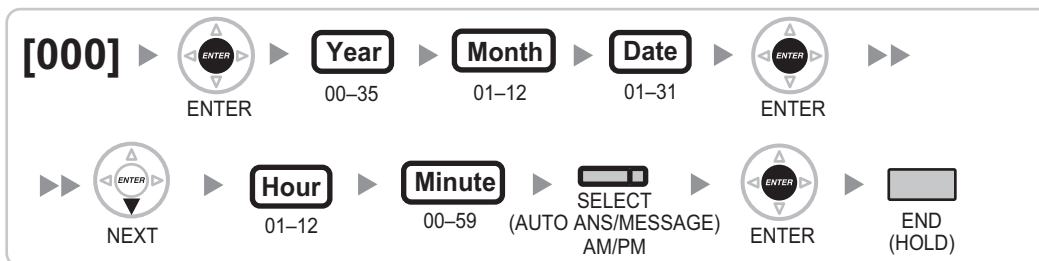
Port numbers are entered as two-digit numbers (e.g., "04" for port 4).

PBX Model	Free Slot Number
KX-NS700	101–106
	201–204
	301–304
	401–404

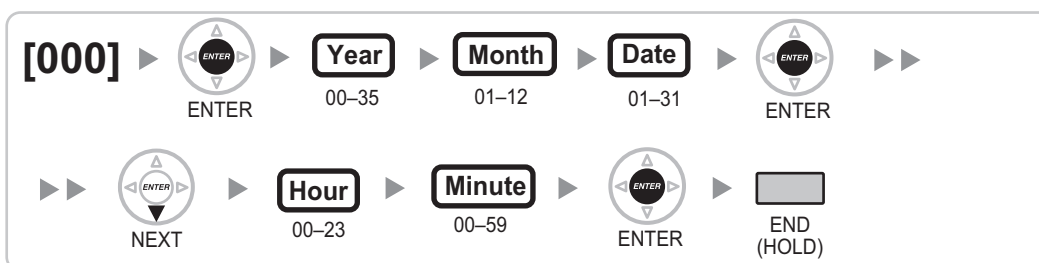
## 2.1.3 Basic Programming

### [000] Date & Time

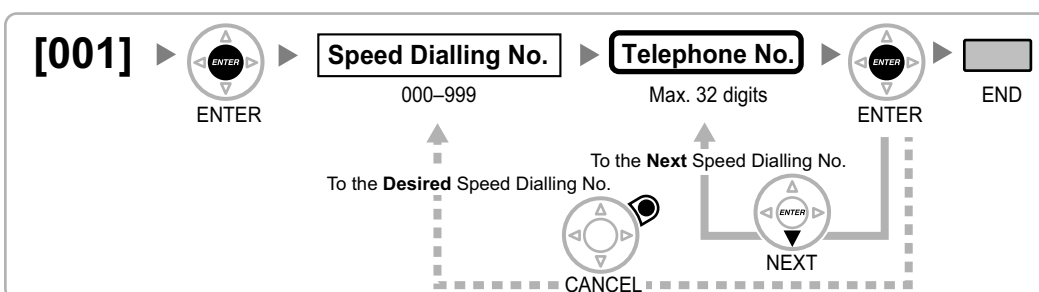
[In 12-hour Format]



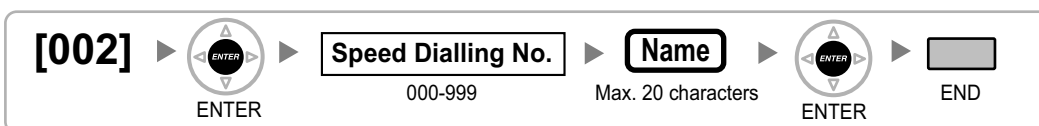
[In 24-hour Format]



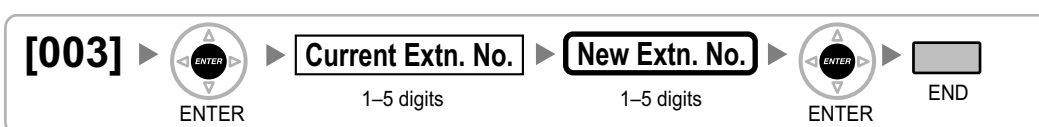
### [001] System Speed Dialling Number



### [002] System Speed Dialling Name

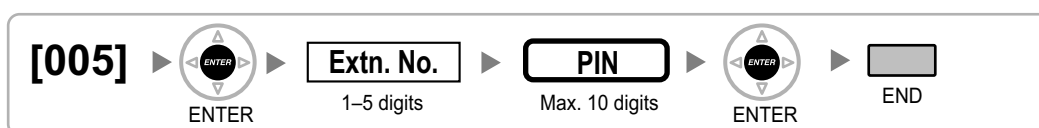


### [003] Extension Number



**Note**

If PC Phone, PC Console, or a CTI application is running on a PC connected to an extension whose extension number is to be programmed/modified, quit the application first.

**[004] Extension Name****[005] Extension Personal Identification Number (PIN)****CAUTION**

There is a risk that fraudulent telephone calls will be made if a third party discovers a personal identification number (PIN) (verification code PIN or extension PIN) of the PBX.

The cost of such calls will be billed to the owner/renter of the PBX.

To protect the PBX from this kind of fraudulent use, we strongly recommend:

- Keeping PINs secret.
- Selecting complex, random PINs that cannot be easily guessed.
- Changing PINs frequently.

**[006] Operator Assignment****[007] DSS Console Paired Telephone****Note**

- This programme is only available after the port connected to the DSS Console is assigned as "DSS Console" in [601] Terminal Device Assignment.
- Note that if one or more SDN buttons have been set at the DSS Console, they must be deleted before this setting can be changed.

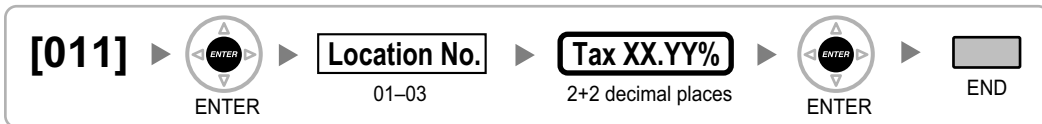
### [008] Absent Message



### [010] Charge Margin



### [011] Charge Tax

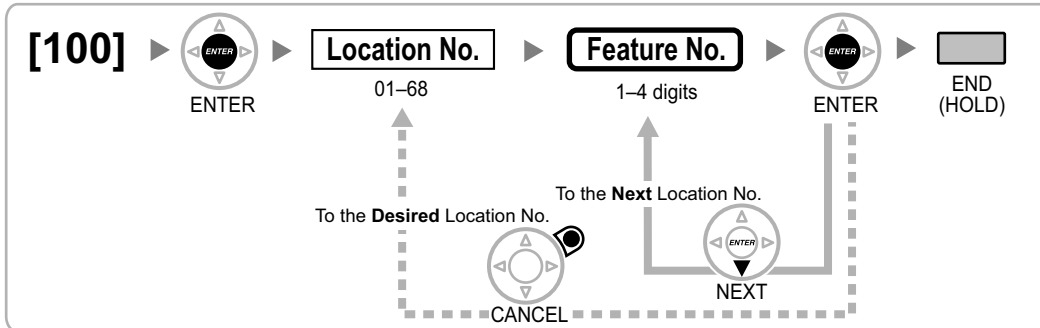


### [012] Charge Rate per Unit

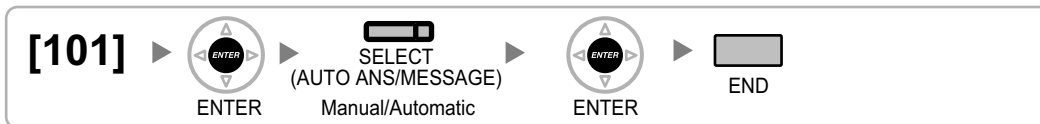


## 2.1.4 System Management Programming

### [100] Flexible Numbering

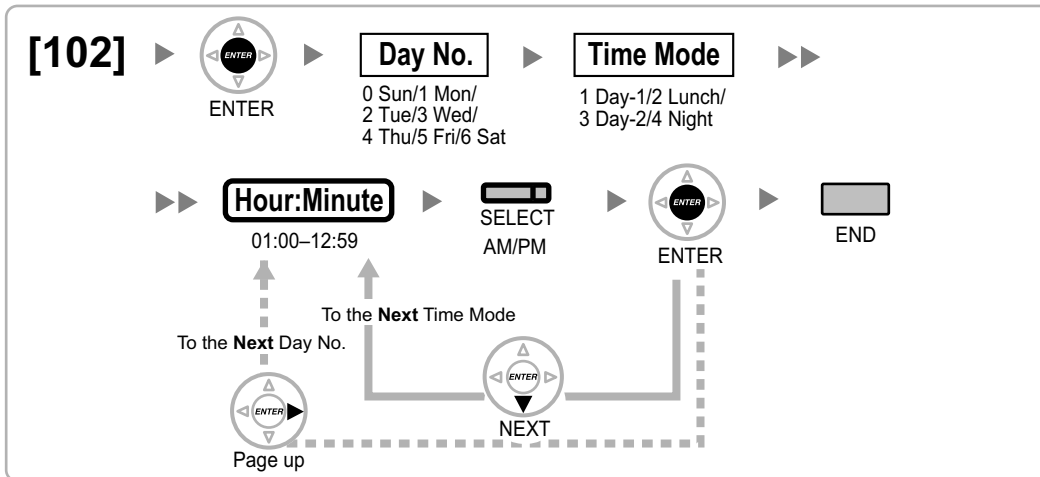


### [101] Time Service Switching Mode

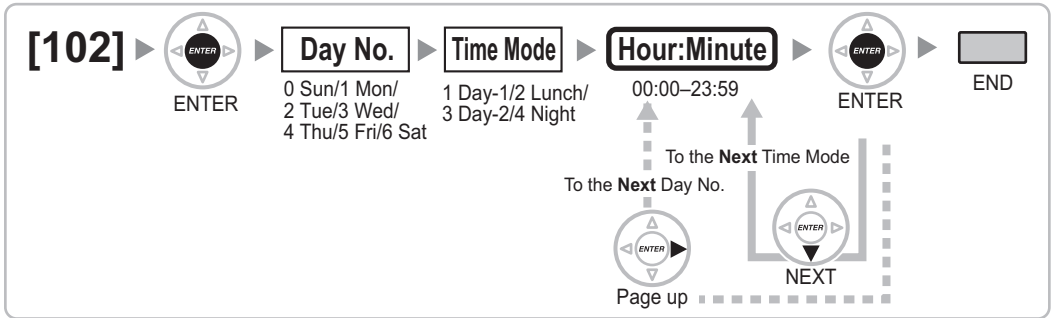


### [102] Time Service Starting Time

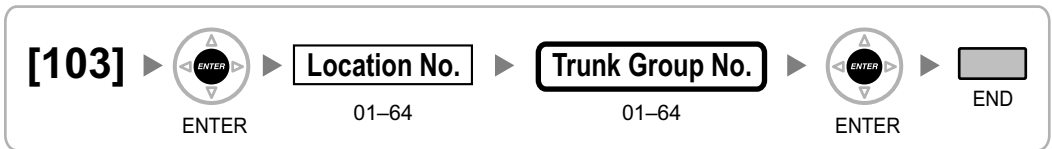
[In 12-hour Format]



**[In 24-hour Format]**



**[103] Idle Line Access (Local Access)**



**[110] System Password for Administrator—for PT Programming**



**[111] System Password for User—for PT Programming**



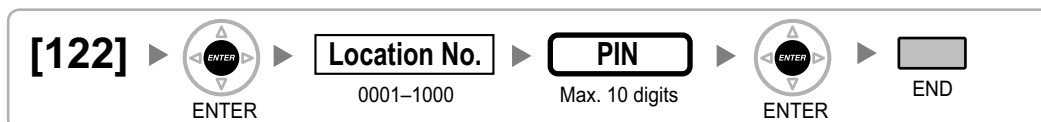
**[112] Manager Password**



**[120] Verification Code**





**[121] Verification Code Name****[122] Verification Code Personal Identification Number (PIN)****CAUTION**

There is a risk that fraudulent telephone calls will be made if a third party discovers a personal identification number (PIN) (verification code PIN or extension PIN) of the PBX.

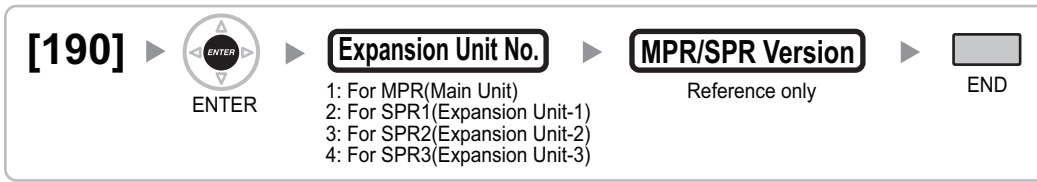
The cost of such calls will be billed to the owner/renter of the PBX.

To protect the PBX from this kind of fraudulent use, we strongly recommend:

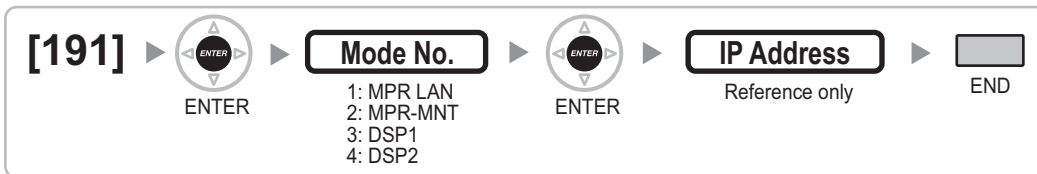
- Keeping PINs secret.
- Selecting complex, random PINs that cannot be easily guessed.
- Changing PINs frequently.

**[123] Verification Code COS Number****[130] Decimal Point Position for Currency****[131] Currency**

## [190] Main Processing (MPR) Software Version Reference



## [191] IP Address Reference



## [194] UM Auto Configuration



### Note

Automatically starts creating mailboxes when executed.

- Note that it may take some time (e.g., about 30 seconds for 10 mailboxes, and about 300 seconds for 100 mailboxes) for completing mailbox creation. The confirmation tone will be heard and "Complete" will be displayed on the LCD when the process finished.
- In case that some mailboxes are in use or UM System Maintenance is active, the creating mailboxes are terminated. The error tone will be heard and "Rejected" will be displayed on the LCD. Try to execute the process again after a while.

## 2.1.5 Timer Programming

### [200] Hold Recall Time



### [201] Transfer Recall Time



### [203] Intercept Time



### [204] Hot Line Waiting Time



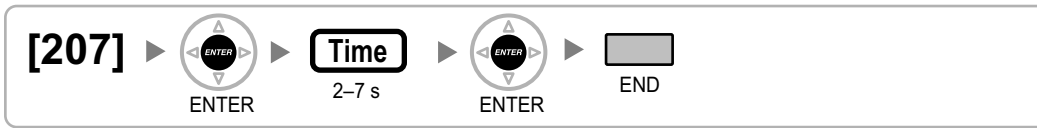
### [205] Automatic Redial Repeat Times



### [206] Automatic Redial Interval



### [207] Door Unlock Time



### [208] Call Duration Count Starting Time for LCOT



### [209] DISA Delayed Answer Time



### [210] DISA Trunk-to-Trunk Call Prolong Time

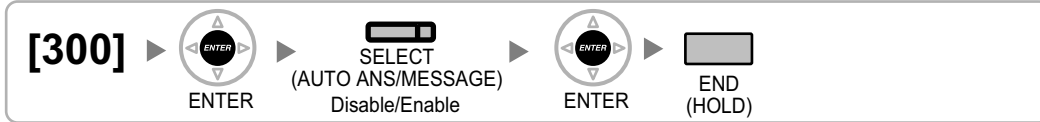


### [211] DISA Intercept Time

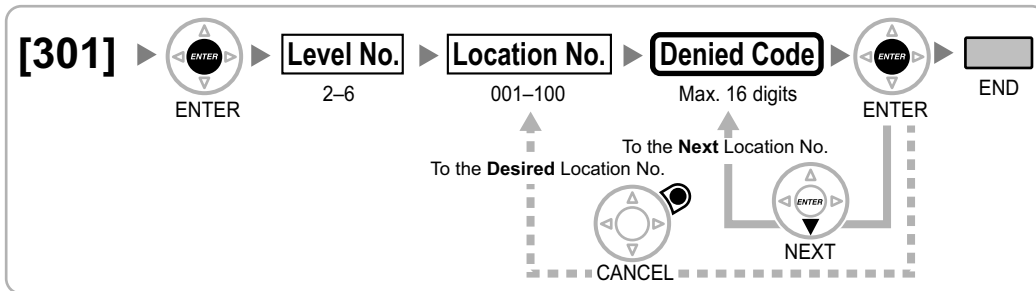


## 2.1.6 TRS/Barring/ARS Programming

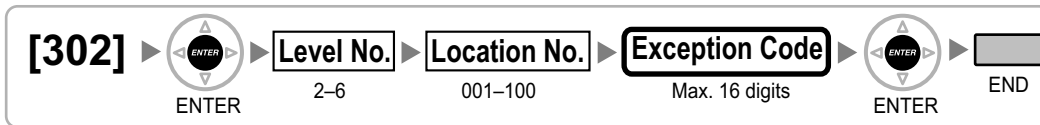
### [300] TRS/Barring Override by System Speed Dialling



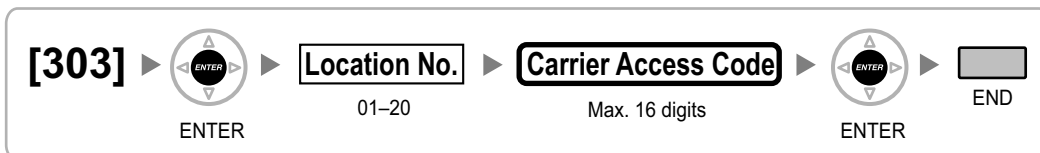
### [301] TRS/Barring Denied Code



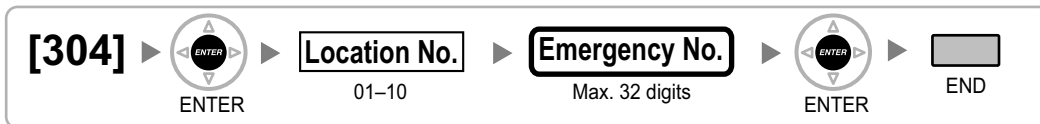
### [302] TRS/Barring Exception Code



### [303] Special Carrier Access Code



### [304] Emergency Number



### [320] ARS Mode



### [321] ARS Leading Number



### [322] ARS Routing Plan Table Number

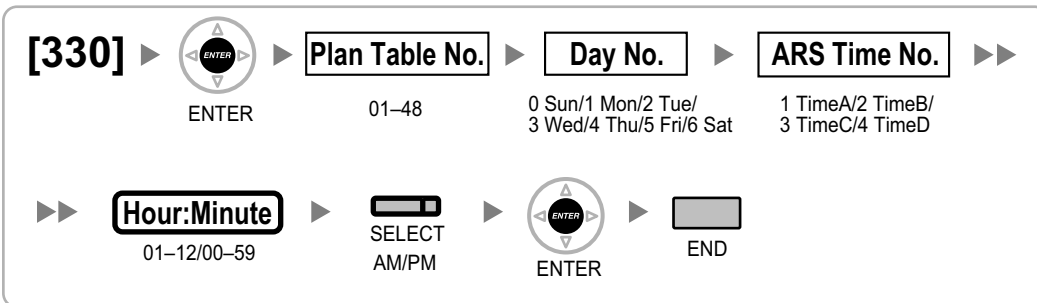


### [325] ARS Exception Number

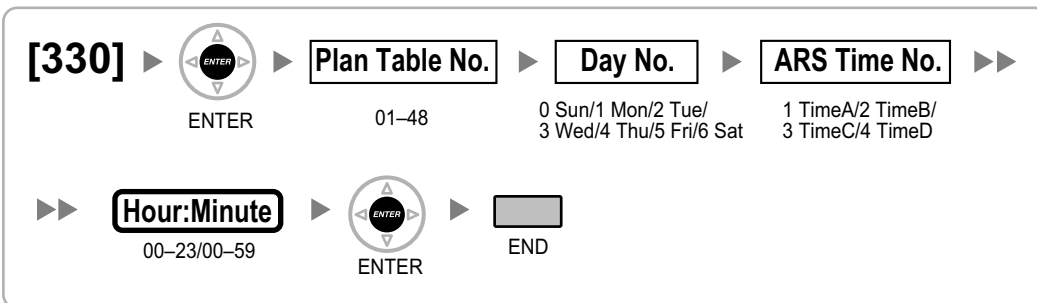


### [330] ARS Routing Plan Time Table

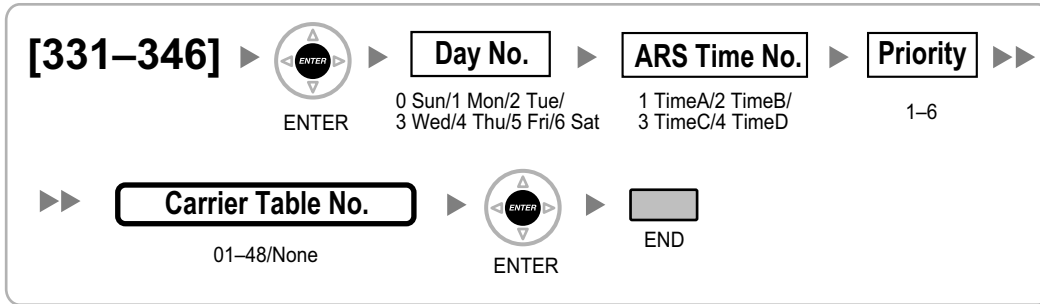
[In 12-hour Format]



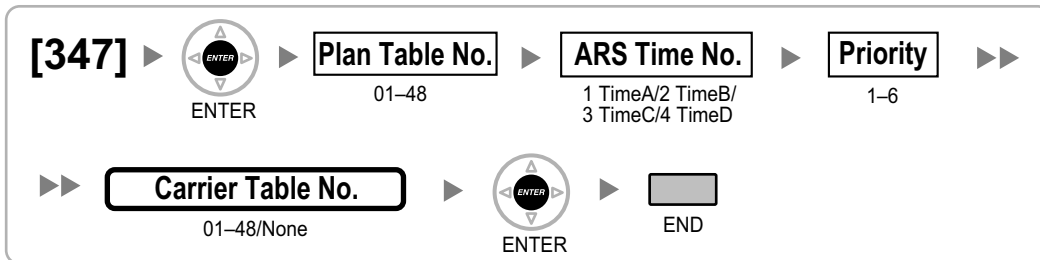
[In 24-hour Format]



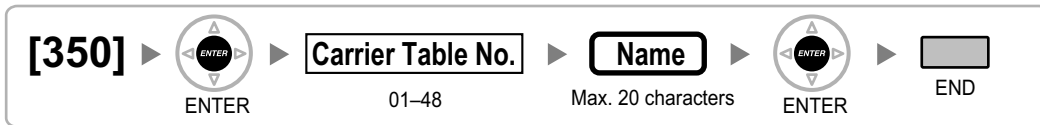
**[331–346] ARS Routing Plan Table (1–16)**



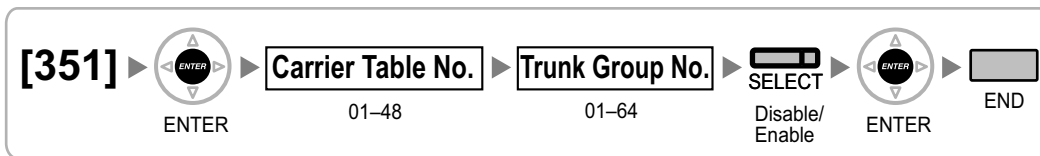
**[347] ARS Routing Plan Table (1–48)**



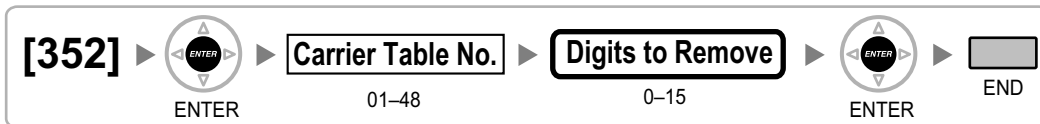
**[350] ARS Carrier Name**



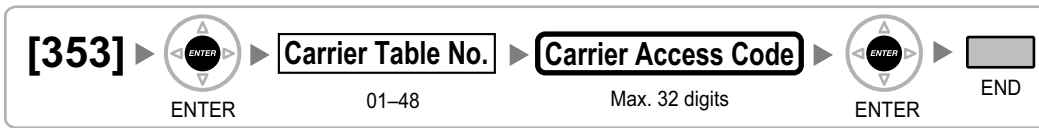
**[351] ARS Trunk Group for Carrier Access**



**[352] ARS Removed Number of Digits for Carrier Access**



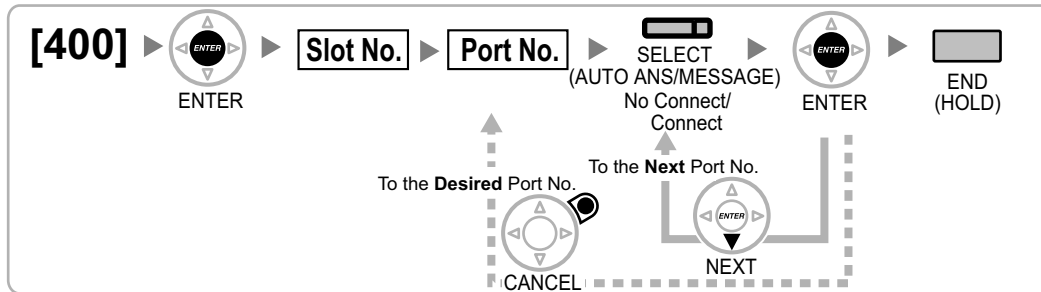
## [353] ARS Carrier Access Code





## 2.1.7 Trunk Programming

### [400] LCOT/BRI Trunk Connection



### [401] LCOT/BRI Trunk Name



### [402] LCOT/BRI Trunk Group Number



### [409] LCOT/BRI Trunk Number Reference



### [410] LCOT Dialling Mode



### [411] LCOT Pulse Rate



**[412] LCOT DTMF Minimum Duration**



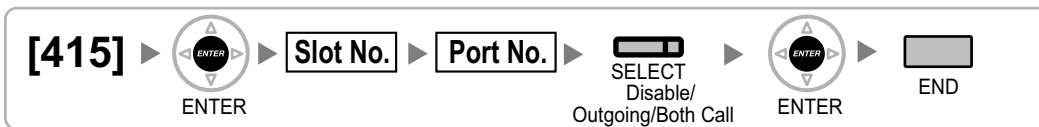
**[413] LCOT CPC Signal Detection Time—Outgoing**



**[414] LCOT CPC Signal Detection Time—Incoming**



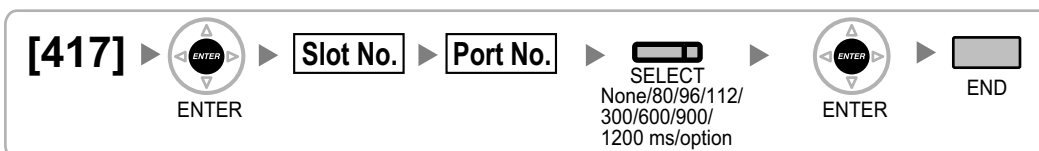
**[415] LCOT Reverse Circuit**



**[416] LCOT Pause Time**



**[417] LCOT Flash/Recall Time**



**[418] LCOT Disconnect Time****[420] BRI Network Type****[421] BRI DIL/DDI/MSN Selection****[422] BRI Subscriber Number****[424] BRI Layer 1 Active Mode****Note**

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

**[425] BRI Layer 2 Active Mode****Note**

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

### [426] BRI Configuration



**Note**

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

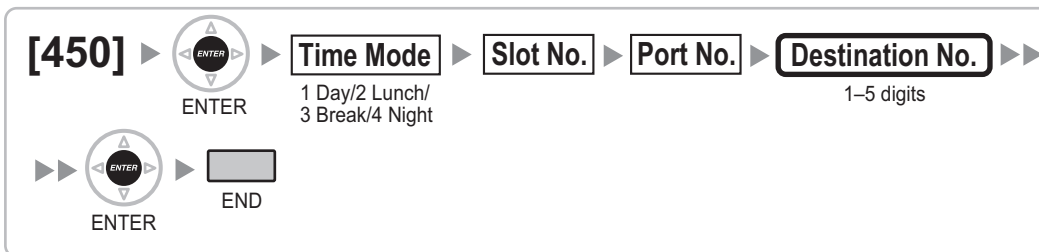
### [427] BRI TEI Mode



**Note**

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

### [450] DIL 1:1 Destination

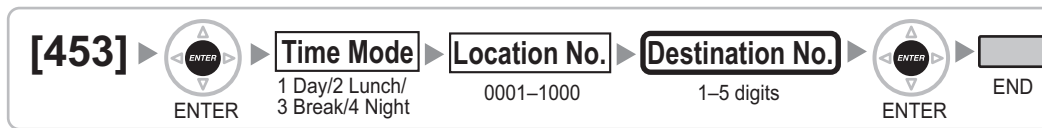
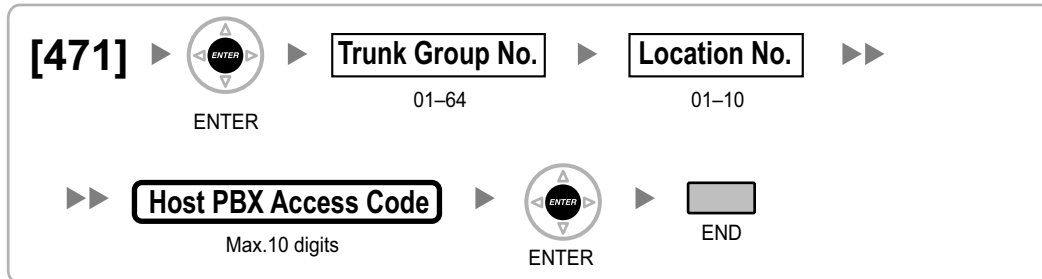
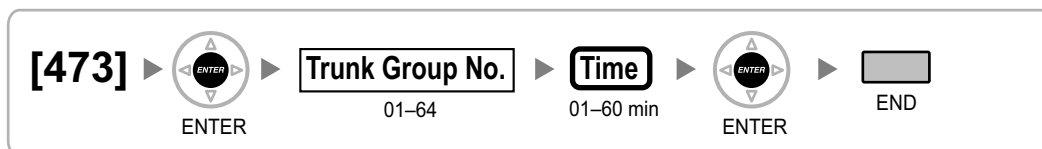


### [451] DID Number

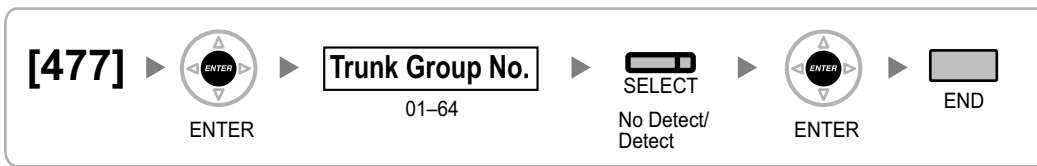


### [452] DID Name



**[453] DID Destination****[471] Host PBX Access Code****[472] Extension-to-Trunk Call Duration****[473] Trunk-to-Trunk Call Duration****[475] DISA Silence Detection****[476] DISA Continuous Signal Detection**

### [477] DISA Cyclic Signal Detection

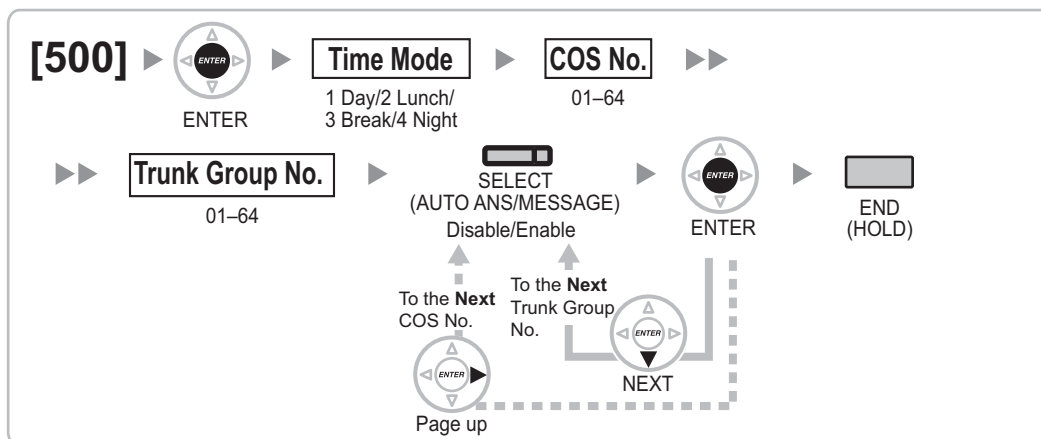


### [490] Caller ID Signal Type



## 2.1.8 COS Programming

### [500] Trunk Group Number



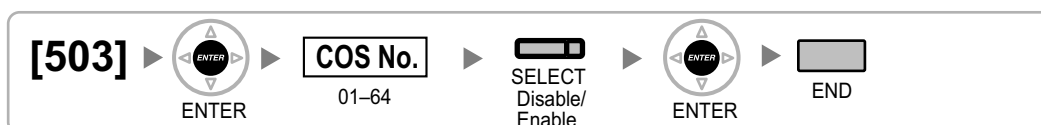
### [501] TRS/Barring Level



### [502] Trunk Call Duration Limitation



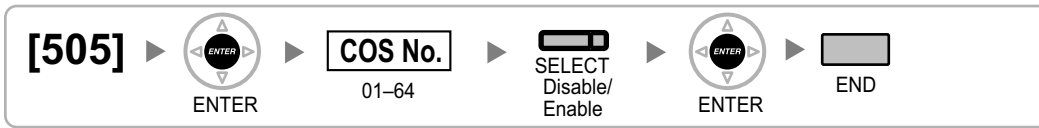
### [503] Call Transfer to Trunk



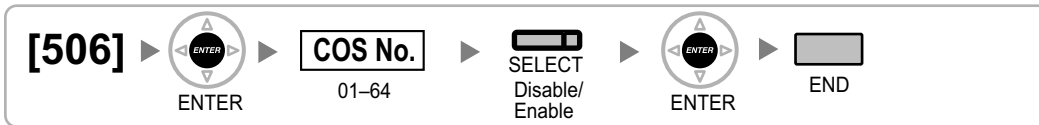
### [504] Call Forwarding to Trunk



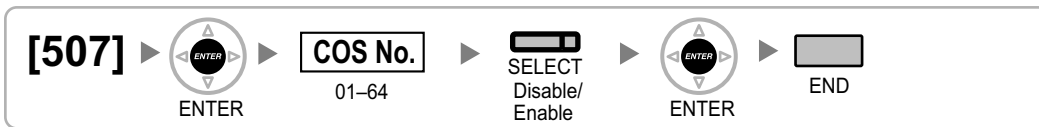
### [505] Executive Busy Override



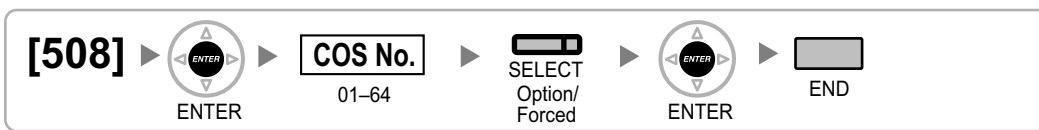
### [506] Executive Busy Override Deny



### [507] DND Override



### [508] Account Code Mode



### [509] TRS/Barring Level for System Speed Dialling



### [510] TRS/Barring Level for Extension Dial Lock

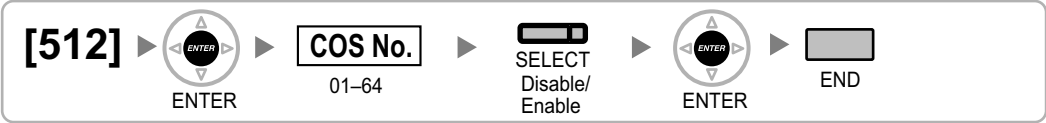


### [511] Manager Assignment

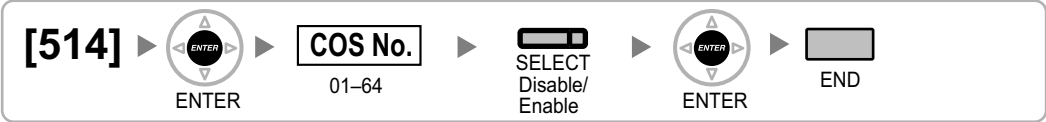




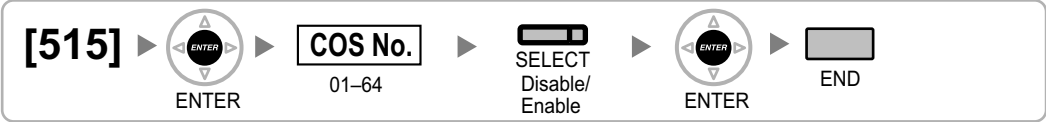
**[512] Permission for Door Open Access**



**[514] Time Service Manual Switching**



**[515] Wireless XDP Parallel Mode for Paired Telephone**

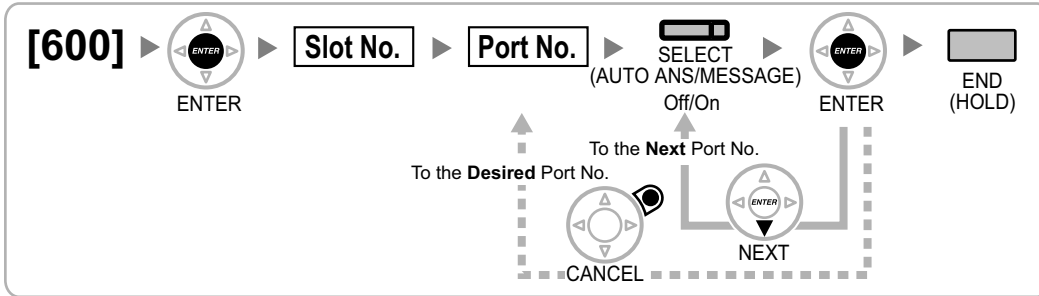


**[516] Programming Mode Limitation**

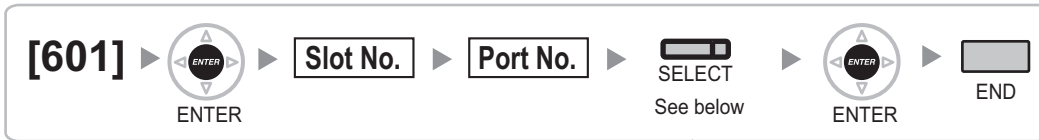


## 2.1.9 Extension Programming

### [600] EXtra Device Port (XDP) Mode



### [601] Terminal Device Assignment



Telephone/  
DSS Console 01-08/  
Voice Mail 1-(01-12)/  
Voice Mail 2-(01-12)

**Note**

When changing the type of a port for which one or more SDN buttons are set (except when changing between PC Console and Telephone), all SDN buttons customised for that device will be deleted.

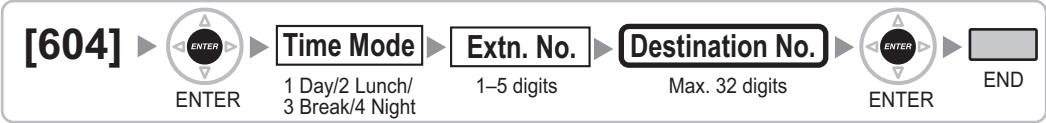
### [602] Class of Service



### [603] Extension User Group



[604] Extension Intercept Destination



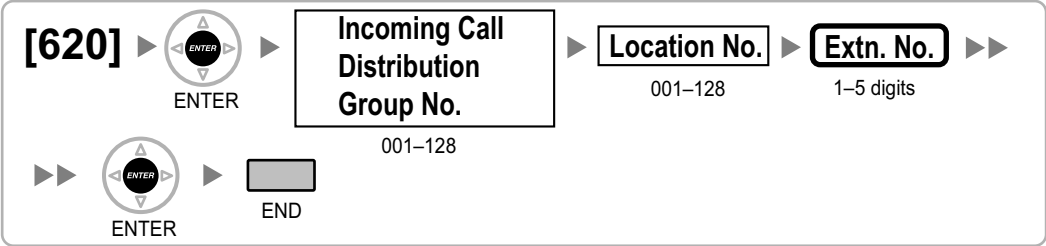
[605] Call Forwarding—No Answer Time



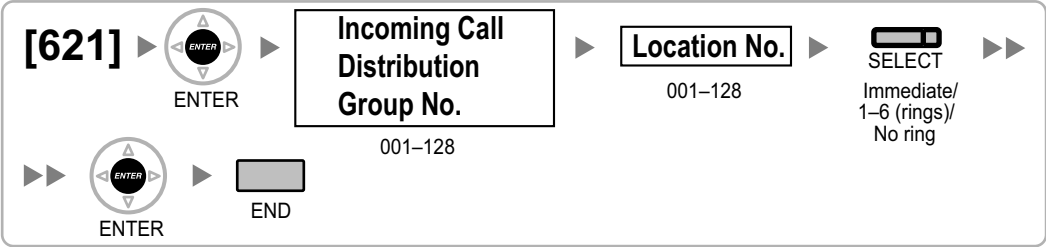
[606] CLIP/COLP Number



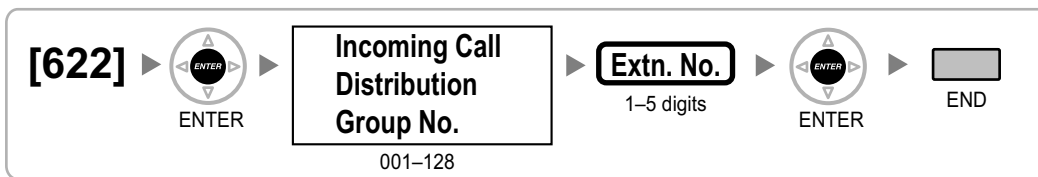
[620] Incoming Call Distribution Group Member



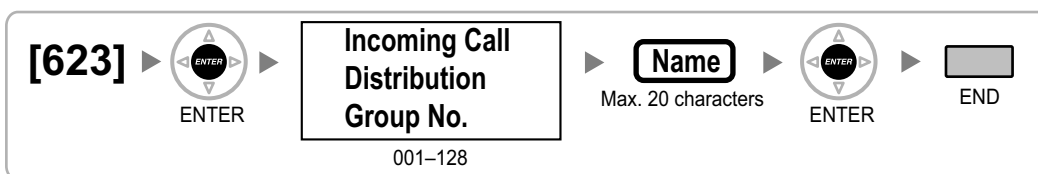
[621] Incoming Call Distribution Group Delayed Ringing



### [622] Incoming Call Distribution Group Floating Extension Number



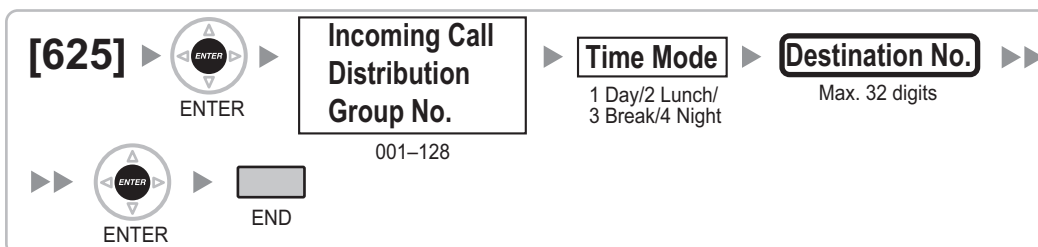
### [623] Incoming Call Distribution Group Name



### [624] Incoming Call Distribution Group Distribution Method



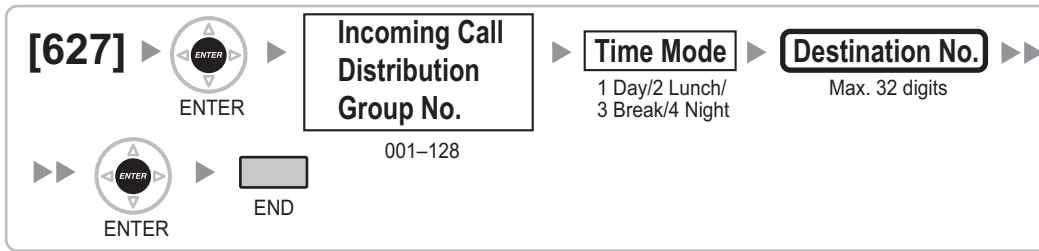
### [625] Destination for Overflow Time Expiration



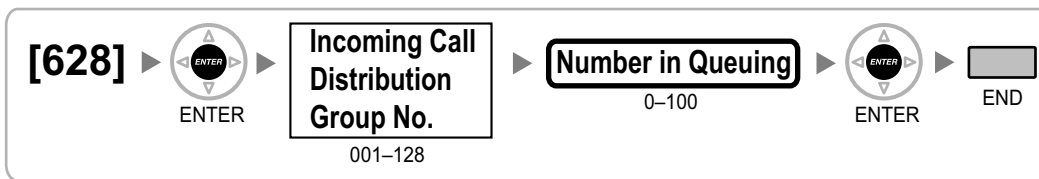
### [626] Overflow Time



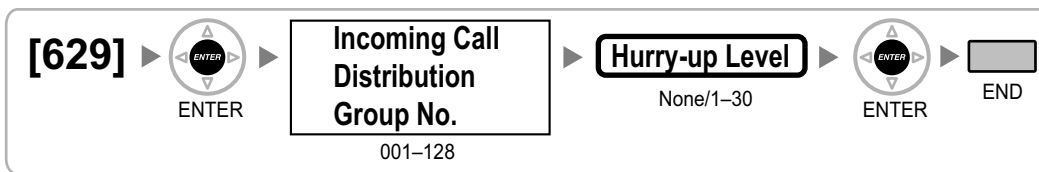
### [627] Destination When All Busy



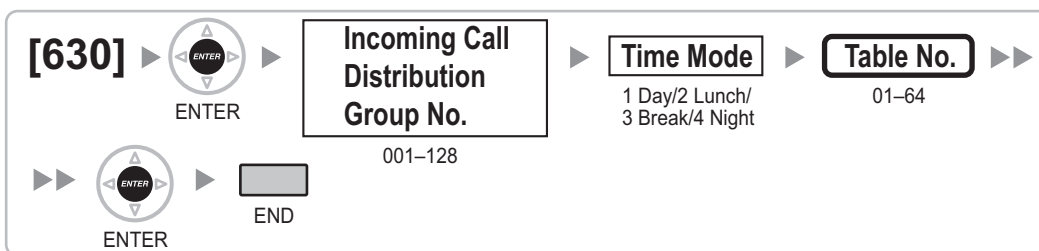
### [628] Queuing Call Capacity



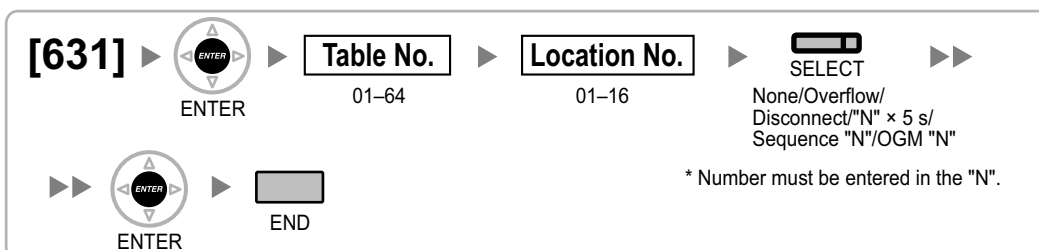
### [629] Queuing Hurry-up Level



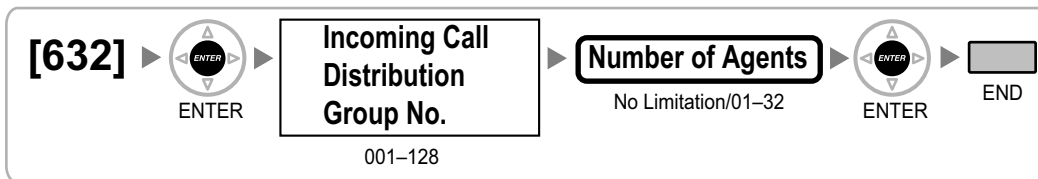
### [630] Queuing Time Table



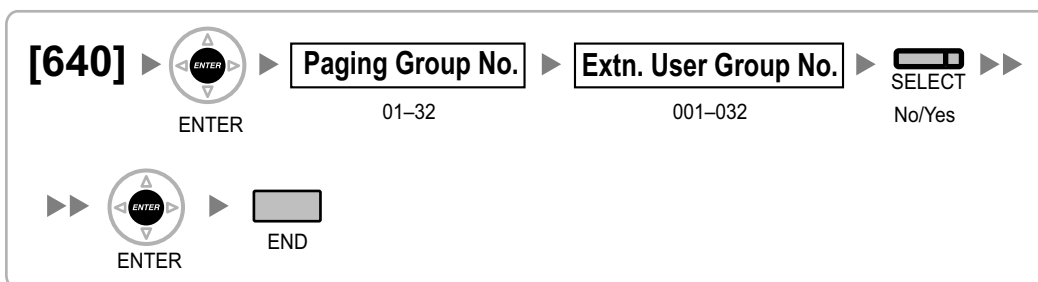
### [631] Sequences in Queuing Time Table



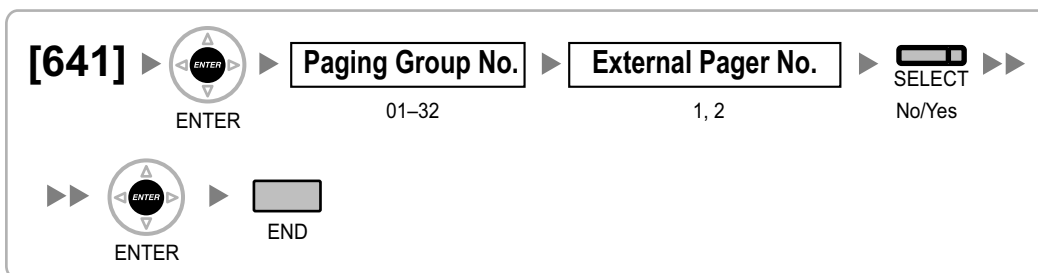
### [632] Maximum Number of Agents



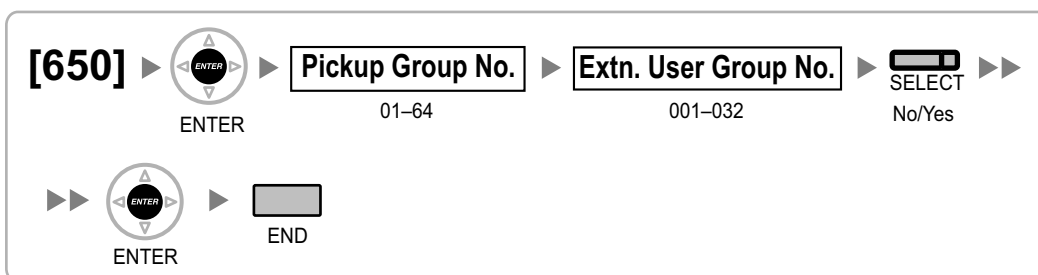
### [640] Extension User Groups of a Paging Group



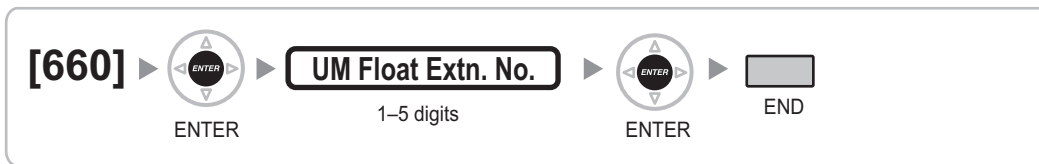
### [641] External Pagers of a Paging Group



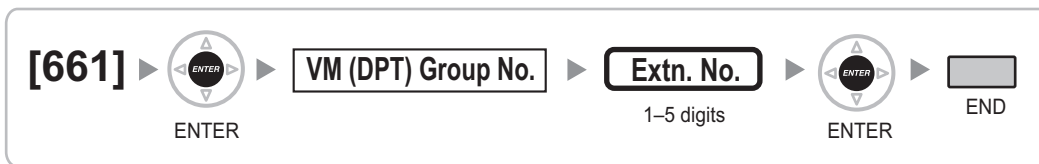
### [650] Extension User Groups of a Pickup Group



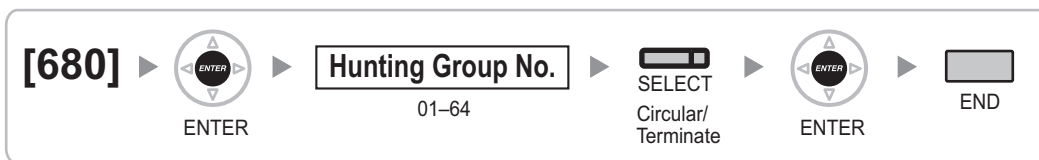
### [660] UM Group Floating Extension Number



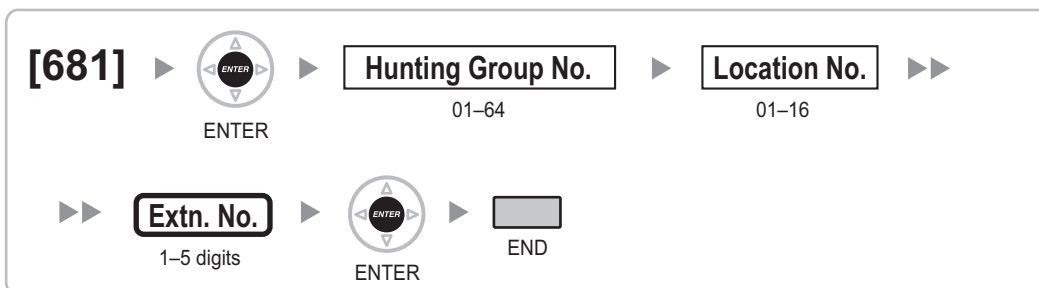
### [661] VM Group Floating Extension Number



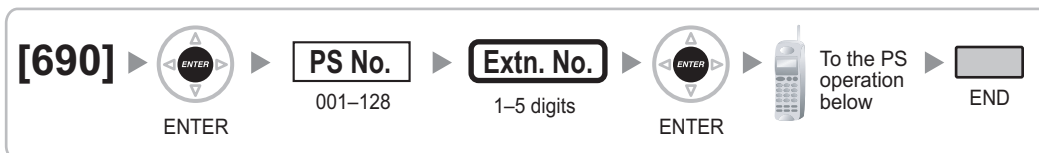
### [680] Idle Extension Hunting Type



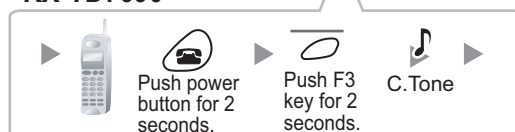
### [681] Idle Extension Hunting Group Member



### [690] PS Registration



#### KX-TD7690



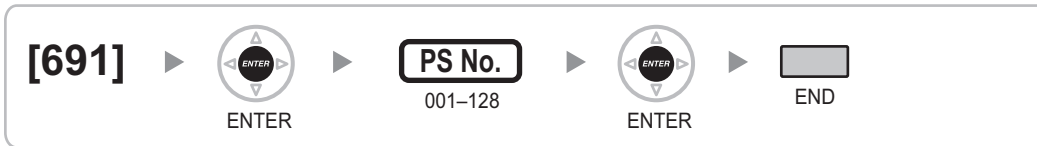
## 2.1.9 Extension Programming

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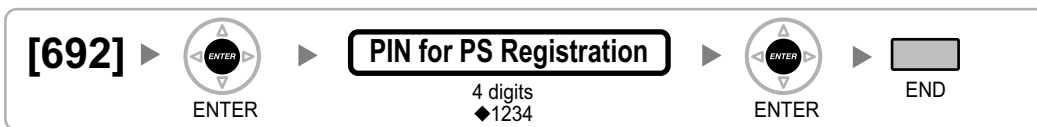
### Note

For details about PS registration, refer to the Quick Installation Guide for the relevant Cell Station (CS).

### [691] PS Termination



### [692] Personal Identification Number (PIN) for PS Registration



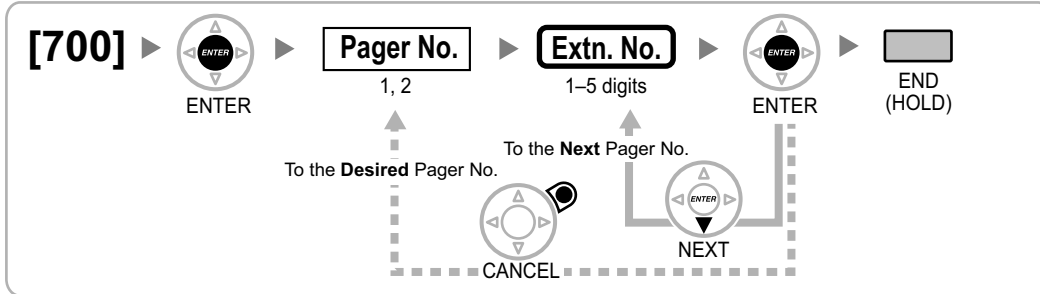
### [699] CS Status Reference





## 2.1.10 Resource/Interface Programming

### [700] External Pager Floating Extension Number



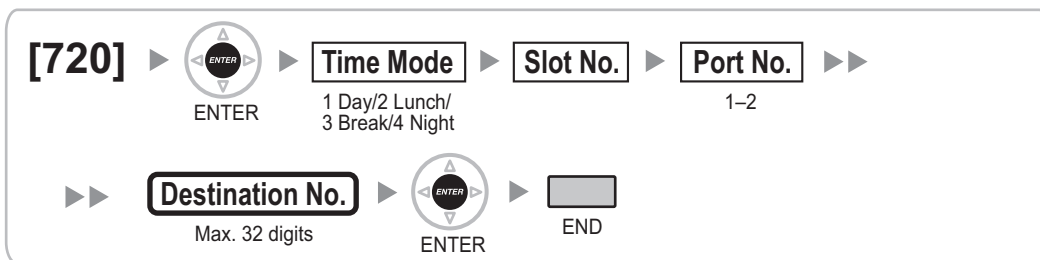
### [711] Music on Hold



### [712] Music for Transfer



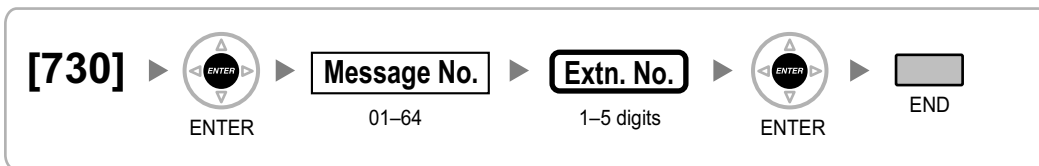
### [720] Doorphone Call Destination



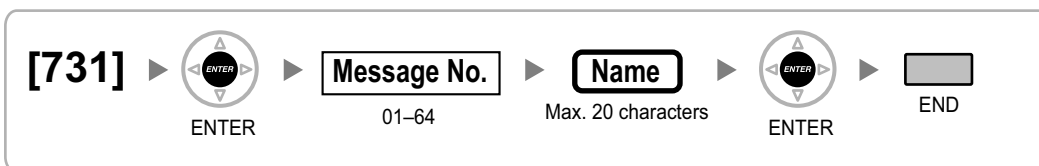
### [729] Doorphone Number Reference



### [730] Outgoing Message (OGM) Floating Extension Number



### [731] Outgoing Message (OGM) Name



### [732] DISA Security Mode



## 2.1.11 SMDR & Maintenance Programming

### [801] External Modem Control



### [802] SMDR Page Length



### [803] SMDR Skip Perforation



### [804] SMDR Outgoing Call Printing



### [805] SMDR Incoming Call Printing



### [810] Remote Programming



### [811] Modem Floating Extension Number



### [812] ISDN Remote Floating Extension Number

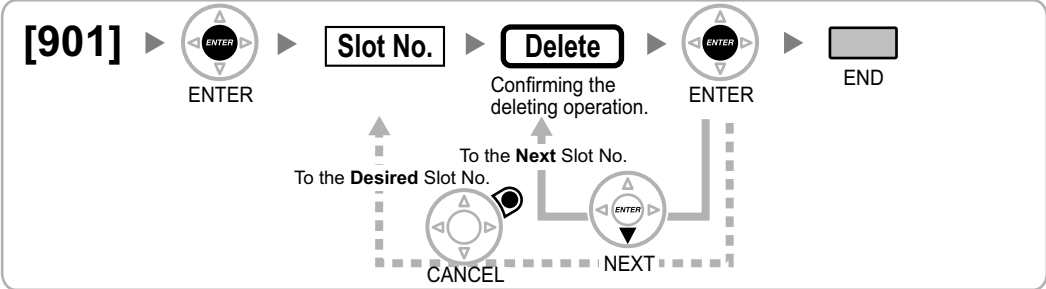


## 2.1.12 Card Programming

### [900] Slot Card Type Reference



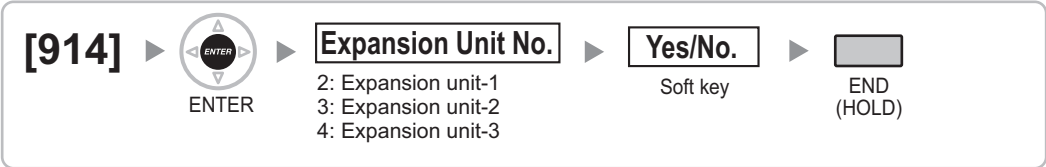
### [901] Slot Card Deletion



### [902] Slot Card Reset



### [914] Expansion Unit Deletion



## 2.1.12 Card Programming

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# ***Feature Programming References***

### Absent Message

- [008] Absent Message

#### Feature Manual References

2.20.2 Absent Message

### Account Code Entry

- [508] Account Code Mode

#### Feature Manual References

2.5.4.3 Account Code Entry

### Automatic Route Selection (ARS)

- [320] ARS Mode
- [321] ARS Leading Number
- [322] ARS Routing Plan Table Number
- [325] ARS Exception Number
- [330] ARS Routing Plan Time Table
- [331–346] ARS Routing Plan Table (1–16)
- [347] ARS Routing Plan Table (1–48)
- [350] ARS Carrier Name
- [351] ARS Trunk Group for Carrier Access
- [352] ARS Removed Number of Digits for Carrier Access
- [353] ARS Carrier Access Code

#### Feature Manual References

2.8.1 Automatic Route Selection (ARS)

### Call Charge Services

- [010] Charge Margin
- [011] Charge Tax
- [012] Charge Rate per Unit
- [130] Decimal Point Position for Currency
- [131] Currency

#### Feature Manual References

2.22.3 Call Charge Services

### Call Forwarding (FWD)

- [472] Extension-to-Trunk Call Duration
- [473] Trunk-to-Trunk Call Duration
- [504] Call Forwarding to Trunk
- [605] Call Forwarding—No Answer Time

#### Feature Manual References

2.3.2 Call Forwarding (FWD)

### Call Hold

- [200] Hold Recall Time



**Feature Manual References**

2.13.1 Call Hold

**Call Pickup**

- [650] Extension User Groups of a Pickup Group

**Feature Manual References**

2.4.3 Call Pickup

**Call Transfer**

- [201] Transfer Recall Time
- [503] Call Transfer to Trunk
- [712] Music for Transfer

**Feature Manual References**

2.12.1 Call Transfer

**Caller ID**

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name
- [490] Caller ID Signal Type

**Feature Manual References**

2.19.1 Caller ID

**Calling Line Identification (CLI) Distribution**

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name

**Feature Manual References**

2.1.1.5 Calling Line Identification (CLI) Distribution

**Calling Party Control (CPC) Signal Detection**

- [413] LCOT CPC Signal Detection Time—Outgoing
- [414] LCOT CPC Signal Detection Time—Incoming

**Feature Manual References**

2.11.9 Calling Party Control (CPC) Signal Detection

**Calling/Connected Line Identification Presentation (CLIP/COLP)**

- [003] Extension Number
- [422] BRI Subscriber Number
- [606] CLIP/COLP Number

**Feature Manual References**

4.1.2.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

**Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG**

- [003] Extension Number

- [004] Extension Name

### Feature Manual References

4.3.4.2 Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG

## Class of Service (COS)

- 2.1.8 COS Programming
- [602] Class of Service

### Feature Manual References

3.2.1.11 Class of Service (COS)

## Dial Type Selection

- [410] LCOT Dialling Mode
- [411] LCOT Pulse Rate
- [412] LCOT DTMF Minimum Duration

### Feature Manual References

2.5.4.4 Dial Type Selection

## Direct In Line (DIL)

- [421] BRI DIL/DDI/MSN Selection
- [450] DIL 1:1 Destination

### Feature Manual References

2.1.1.2 Direct In Line (DIL)

## Direct Inward Dialling (DID)/Direct Dialling In (DDI)

- [421] BRI DIL/DDI/MSN Selection
- [451] DID Number
- [452] DID Name
- [453] DID Destination

### Feature Manual References

2.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

## Direct Inward System Access (DISA)

- [209] DISA Delayed Answer Time
- [210] DISA Trunk-to-Trunk Call Prolong Time
- [211] DISA Intercept Time
- [475] DISA Silence Detection
- [476] DISA Continuous Signal Detection
- [477] DISA Cyclic Signal Detection
- [604] Extension Intercept Destination
- [730] Outgoing Message (OGM) Floating Extension Number
- [731] Outgoing Message (OGM) Name
- [732] DISA Security Mode

### Feature Manual References

### 2.16.1 Direct Inward System Access (DISA)

#### Display Information

- [130] Decimal Point Position for Currency
- [131] Currency

#### Feature Manual References

2.21.4 Display Information

#### Do Not Disturb (DND)

- [507] DND Override

#### Feature Manual References

2.3.3 Do Not Disturb (DND)

#### Door Open

- [207] Door Unlock Time
- [512] Permission for Door Open Access

#### Feature Manual References

2.18.2 Door Open

#### Doorphone Call

- [720] Doorphone Call Destination
- [729] Doorphone Number Reference

#### Feature Manual References

2.18.1 Doorphone Call

#### Emergency Call

- [304] Emergency Number

#### Feature Manual References

2.5.4.2 Emergency Call

#### Executive Busy Override

- [505] Executive Busy Override
- [506] Executive Busy Override Deny

#### Feature Manual References

2.10.2 Executive Busy Override

#### Extension Dial Lock

- [510] TRS/Barring Level for Extension Dial Lock

#### Feature Manual References

2.7.3 Extension Dial Lock

#### Extension Personal Identification Number (PIN)

- [005] Extension Personal Identification Number (PIN)

### Feature Manual References

2.24.1 Extension Personal Identification Number (PIN)

### Extension Port Configuration

- [007] DSS Console Paired Telephone
- [600] EXtra Device Port (XDP) Mode

### Feature Manual References

5.2.6 Extension Port Configuration

### External Feature Access (EFA)

- [417] LCOT Flash/Recall Time

### Feature Manual References

2.11.7 External Feature Access (EFA)

### Flash/Recall/Terminate

- [418] LCOT Disconnect Time

### Feature Manual References

2.11.6 Flash/Recall/Terminate

### Flexible Numbering/Fixed Numbering

- [100] Flexible Numbering

### Feature Manual References

5.4.7 Flexible Numbering/Fixed Numbering

### Floating Extension

- [623] Incoming Call Distribution Group Name
- [660] UM Group Floating Extension Number
- [661] VM Group Floating Extension Number
- [700] External Pager Floating Extension Number
- [730] Outgoing Message (OGM) Floating Extension Number
- [731] Outgoing Message (OGM) Name
- [811] Modem Floating Extension Number
- [812] ISDN Remote Floating Extension Number

### Feature Manual References

5.4.8 Floating Extension

### Group Call Distribution

- [621] Incoming Call Distribution Group Delayed Ringing
- [624] Incoming Call Distribution Group Distribution Method
- [632] Maximum Number of Agents

### Feature Manual References

2.2.2.2 Group Call Distribution

## Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

- [471] Host PBX Access Code

### Feature Manual References

2.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

## Hot Line

- [204] Hot Line Waiting Time

### Feature Manual References

2.6.6 Hot Line

## Idle Extension Hunting

- [680] Idle Extension Hunting Type
- [681] Idle Extension Hunting Group Member

### Feature Manual References

2.2.1 Idle Extension Hunting

## Incoming Call Distribution Group Features

- [620] Incoming Call Distribution Group Member
- [621] Incoming Call Distribution Group Delayed Ringing
- [622] Incoming Call Distribution Group Floating Extension Number
- [623] Incoming Call Distribution Group Name
- [624] Incoming Call Distribution Group Distribution Method
- [625] Destination for Overflow Time Expiration
- [626] Overflow Time
- [627] Destination When All Busy
- [628] Queuing Call Capacity
- [629] Queuing Hurry-up Level
- [630] Queuing Time Table
- [631] Sequences in Queuing Time Table
- [632] Maximum Number of Agents

### Feature Manual References

2.2.2 Incoming Call Distribution Group Features

## Integrated Services Digital Network (ISDN)

- [420] BRI Network Type
- [424] BRI Layer 1 Active Mode
- [425] BRI Layer 2 Active Mode
- [426] BRI Configuration
- [427] BRI TEI Mode

### Feature Manual References

4.1.2 Integrated Services Digital Network (ISDN) Service Features

## Intercept Routing

- [203] Intercept Time
- [604] Extension Intercept Destination

## Feature Programming References

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- [625] Destination for Overflow Time Expiration

### Feature Manual References

2.1.1.6 Intercept Routing

## Intercept Routing—No Destination

- [006] Operator Assignment

### Feature Manual References

2.1.1.7 Intercept Routing—No Destination

## Intercom Call

- [003] Extension Number
- [004] Extension Name

### Feature Manual References

2.5.3 Intercom Call

## Internal Call Features

- [720] Doorphone Call Destination

### Feature Manual References

2.1.2 Internal Call Features

## Last Number Redial

- [205] Automatic Redial Repeat Times
- [206] Automatic Redial Interval

### Feature Manual References

2.6.3 Last Number Redial

## Line Preference—Outgoing

- [103] Idle Line Access (Local Access)
- [500] Trunk Group Number

### Feature Manual References

2.5.5.2 Line Preference—Outgoing

## Manager Features

- [112] Manager Password
- [511] Manager Assignment

### Feature Manual References

5.1.6 Manager Features

## Multiple Subscriber Number (MSN) Ringing Service

- [421] BRI DIL/DDI/MSN Selection
- [426] BRI Configuration

### Feature Manual References

#### 2.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

### Music on Hold

- [711] Music on Hold

#### Feature Manual References

2.13.4 Music on Hold

### Network Direct Station Selection (NDSS)

- [511] Manager Assignment

#### Feature Manual References

4.3.5.1 Network Direct Station Selection (NDSS)

### Operator Features

- [006] Operator Assignment

#### Feature Manual References

5.1.5 Operator Features

### Outgoing Message (OGM)

- [631] Sequences in Queuing Time Table
- [730] Outgoing Message (OGM) Floating Extension Number

#### Feature Manual References

2.30.2 Outgoing Message (OGM)

### Outside Destinations in Incoming Call Distribution Group

- [620] Incoming Call Distribution Group Member
- [621] Incoming Call Distribution Group Delayed Ringing
- [622] Incoming Call Distribution Group Floating Extension Number
- [624] Incoming Call Distribution Group Distribution Method
- [629] Queuing Hurry-up Level

#### Feature Manual References

2.2.2.3 Outside Destinations in Incoming Call Distribution Group

### Overflow Feature

- [625] Destination for Overflow Time Expiration
- [626] Overflow Time
- [627] Destination When All Busy
- [628] Queuing Call Capacity
- [632] Maximum Number of Agents

#### Feature Manual References

2.2.2.7 Overflow Feature

### Paging

- [640] Extension User Groups of a Paging Group
- [641] External Pagers of a Paging Group

### Feature Manual References

2.17.1 Paging

### Paralleled Telephone

- [600] EXtra Device Port (XDP) Mode

### Feature Manual References

2.11.10 Paralleled Telephone

### Pause Insertion

- [416] LCOT Pause Time

### Feature Manual References

2.5.4.7 Pause Insertion

### Portable Station (PS) Connection

- [690] PS Registration
- [691] PS Termination
- [692] Personal Identification Number (PIN) for PS Registration

### Feature Manual References

5.2.4.1 Portable Station (PS) Connection

### PS Directory

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name
- [004] Extension Name

### Feature Manual References

5.2.4.3 PS Directory

### PS Ring Group

- [620] Incoming Call Distribution Group Member

### Feature Manual References

5.2.4.2 PS Ring Group

### PS Roaming by Network ICD Group

- [620] Incoming Call Distribution Group Member
- [622] Incoming Call Distribution Group Floating Extension Number
- [624] Incoming Call Distribution Group Distribution Method

### Feature Manual References

4.3.6.1 PS Roaming by Network ICD Group

### PT Programming

- 2.1 PT Programming
- [516] Programming Mode Limitation



**Feature Manual References**

## 5.4.3 PT Programming

**Queuing Feature**

- [628] Queuing Call Capacity
- [629] Queuing Hurry-up Level
- [630] Queuing Time Table
- [631] Sequences in Queuing Time Table
- [632] Maximum Number of Agents

**Feature Manual References**

## 2.2.2.4 Queuing Feature

**Reverse Circuit**

- [415] LCOT Reverse Circuit

**Feature Manual References**

## 2.5.4.5 Reverse Circuit

**Software Upgrading**

- [190] Main Processing (MPR) Software Version Reference

**Feature Manual References**

## 5.4.9 Software Upgrading

**Special Carrier Access Code**

- [303] Special Carrier Access Code

**Feature Manual References**

## 2.5.4.9 Special Carrier Access Code

**Speed Dialling—Personal/System**

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name
- [509] TRS/Barring Level for System Speed Dialling

**Feature Manual References**

## 2.6.4 Speed Dialling—Personal/System

**Station Message Detail Recording (SMDR)**

- [802] SMDR Page Length
- [803] SMDR Skip Perforation
- [804] SMDR Outgoing Call Printing
- [805] SMDR Incoming Call Printing

**Feature Manual References**

## 2.2.2.1.1 Station Message Detail Recording (SMDR)

**Tenant Service**

- [001] System Speed Dialling Number

## Feature Programming References

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- [006] Operator Assignment
- [320] ARS Mode
- [711] Music on Hold

### Feature Manual References

5.1.3 Tenant Service

## TIE Line Service

- [500] Trunk Group Number

### Feature Manual References

4.3.1 TIE Line Service

## Time Service

- [101] Time Service Switching Mode
- [102] Time Service Starting Time
- [514] Time Service Manual Switching

### Feature Manual References

5.1.4 Time Service

## Toll Restriction (TRS)/Call Barring (Barring)

- [300] TRS/Barring Override by System Speed Dialling
- [301] TRS/Barring Denied Code
- [302] TRS/Barring Exception Code
- [501] TRS/Barring Level
- [509] TRS/Barring Level for System Speed Dialling
- [602] Class of Service

### Feature Manual References

2.7.1 Toll Restriction (TRS)/Call Barring (Barring)

## Trunk Access

- [400] LCOT/BRI Trunk Connection
- [401] LCOT/BRI Trunk Name
- [409] LCOT/BRI Trunk Number Reference
- [500] Trunk Group Number

### Feature Manual References

2.5.5.3 Trunk Access

## Trunk Answer From Any Station (TAFAS)

- [700] External Pager Floating Extension Number

### Feature Manual References

2.17.2 Trunk Answer From Any Station (TAFAS)

## Trunk Busy Out

- [511] Manager Assignment

**Feature Manual References**

2.5.4.6 Trunk Busy Out

**Trunk Call Limitation**

- [472] Extension-to-Trunk Call Duration
- [473] Trunk-to-Trunk Call Duration
- [502] Trunk Call Duration Limitation

**Feature Manual References**

2.11.8 Trunk Call Limitation

**Verification Code Entry**

- [120] Verification Code
- [121] Verification Code Name
- [122] Verification Code Personal Identification Number (PIN)
- [123] Verification Code COS Number

**Feature Manual References**

2.7.6 Verification Code Entry

**Virtual PS**

- [690] PS Registration

**Feature Manual References**

5.2.4.6 Virtual PS

**Voice Mail (VM) Group**

- [601] Terminal Device Assignment
- [660] UM Group Floating Extension Number
- [661] VM Group Floating Extension Number

**Feature Manual References**

2.28.1 Voice Mail (VM) Group

**Voice Mail DPT (Digital) Integration**

- [201] Transfer Recall Time

**Feature Manual References**

2.28.3 Voice Mail DPT (Digital) Integration

**Walking COS**

- [005] Extension Personal Identification Number (PIN)

**Feature Manual References**

2.7.5 Walking COS

**Walking Extension**

- [007] DSS Console Paired Telephone

**Feature Manual References**

## Feature Programming References

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2.24.3 Walking Extension Features

### Wireless XDP Parallel Mode

- [515] Wireless XDP Parallel Mode for Paired Telephone

### Feature Manual References

5.2.4.5 Wireless XDP Parallel Mode



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