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3.3   PT Programming

3.3.1   Programming Instructions

Required Telephone

PBX settings can be customised through system programming by using a proprietary telephone (PT) with a display, such as the KX-T7730. An authorised administrator or the manager extension connected to the extension jack 01 can access system programming.

Only one system programming session can be performed at a time; that is, only one user can access system programming at a time. This includes PC programming.

Buttons and Functions

Fixed Button (KX-T7730/KX-T7735)	Function
REDIAL	PREV (PREVIOUS)
SP-PHONE	NEXT
FWD/DND	➡
CONF	⬅ , −
MESSAGE	− , ➡
INTERCOM	SECRET
AUTO DIAL STORE	STORE
PAUSE	PAUSE
PROGRAM	PROGRAM
HOLD	END
AUTO ANS MUTE	SELECT

Fixed Button (KX-T7730/KX-T7735)	Function
FLASH/RECALL ◯	**FLASH**
TRANSFER ◯	**CLEAR**

Entering System Programming Mode

Using a PT to perform system programming allows an authorised administrator to set a wide range of PBX features and parameters. To enter system programming mode, the system password is required. With the system password, all system programming is accessible.

PROGRAM
◯ ▶ ✳ ▶ #️⃣ ▶ | **System Password for Administrator—for PT Programming** ◆1234 | ▶ | **Programming No.** 3 digits |
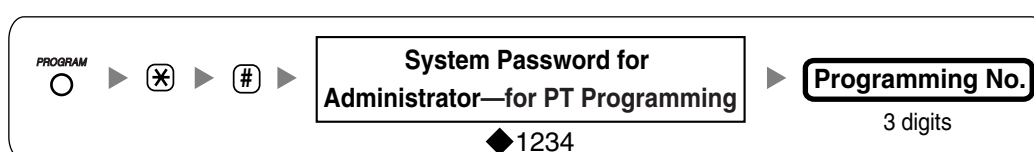
Note

◆ means default value throughout these programming instructions.

Entering Manager Programming Mode

Using a PT to perform manager programming allows the manager extension (extension jack 01) to set certain PBX features and parameters. To enter manager programming mode, the extension password for the manager (manager password) is required.

With the manager password, the following 4 system programming settings are accessible:

- System Speed Dialling Number [001]
- System Speed Dialling Name [011]
- DISA Security Code [512]
- DISA Security Code Digits [530]

PROGRAM
◯ ▶ ✳ ▶ #️⃣ ▶ | **Extension Password for Manager —for PT Programming** | ▶ | **Programming No.** 3 digits |
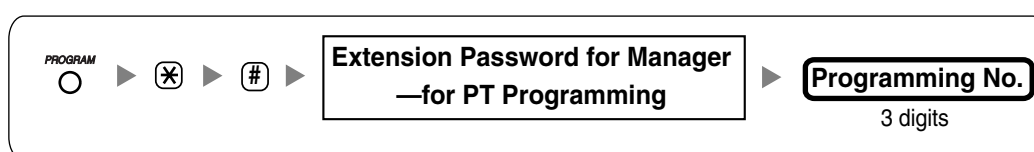
Notes

- The system password may be entered instead of the manager password.
- With the manager password, the manager can also set a password to each extension, and print out call log information for each extension. For more information on how to assign a password to each extension including the manager password and to print out call log information for each extension, refer to the User Manual (→ 2.1.7 Changing System Settings Using Programming Mode, 3.2.2 Printing and Clearing Call Logs).

Entering Characters

The PT's dialling buttons can be used to enter characters when storing a name or message. The following tables depict the available characters:

Table 1 (Alphabet mode)/Table 2 (Numeral mode)

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

Buttons \ Times	1
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
✱	✱
⊞	⊞

Table 3 (Cyrillic alphabet mode for RU [Russia]/UA [Ukraine] model)

Buttons \ Times	1	2	3	4	5	6	7	8	9	10
1	А	Б	В	!	?	''				
2	Г	Д	Е	Ё						
3	Ж	З	И	Й						
4	К	Л	М							
5	Н	О	П							
6	Р	С	Т							
7	У	Ф	Х							
8	Ц	Ч	Ш							
9	Щ	Ъ	Ы	Ь						
0	Э	Ю	Я	(Space)	.	,	'	:	;	
✳	∕	+	–	=	<	>	Ґ'*	Є*	І*	Ï*
⊞	$	%	&	@	(	)	€*	І*	ӱ*	

* This character is only available for the KX-T7735RU.

[Example of Entering Characters]
To enter "Ann":

A	n	n
2	6 (5 times) ▶ OR FWD/DND	6 (5 times)

<u>Notes</u>
- To toggle between "Alphabet mode" and "Numeral mode" or between "Alphabet mode", "Cyrillic alphabet mode (assignable only in Extension Name in Cyrillic [616])", and "Numeral mode", press SELECT.
- To move the cursor right, press ➡ .
- To delete all characters, press CLEAR. To delete a character, press ⬅ .

List of Abbreviations

A	AA	→	Automated Attendant
	APT	→	Analogue Proprietary Telephone
	ARS	→	Automatic Route Selection
B	BGM	→	Background Music
	BV	→	Built-in Voice Message
C	CO	→	Outside (CO) Line
	COS	→	Class of Service
	CPC	→	Calling Party Control
D	DIL	→	Direct In Line
	DISA	→	Direct Inward System Access
	DND	→	Do Not Disturb
	DRD	→	Distinctive Ring Detection
	DSS	→	Direct Station Selection
	DTMF	→	Dual Tone Multi-Frequency
E	EFA	→	External Feature Access
G	GRP	→	Group
I	IRNA	→	Intercept Routing—No Answer
L	LCS	→	Live Call Screening
O	OGM	→	Outgoing Message
P	PT	→	Proprietary Telephone
S	SLT	→	Single Line Telephone
	SMDR	→	Station Message Detail Recording
	SMS	→	Short Message Service
T	TRS	→	Toll Restriction
	TAM	→	Telephone Answering Machine
U	UCD	→	Uniform Call Distribution
V	VM	→	Voice Mail

3.3.2   Programming Procedures

Notes

- ◆ means default value throughout these programming instructions.

- ✳ means to select "All" throughout these programming instructions.

- The following are displayed when you store a number, such as a telephone number, or feature number:
  P: PAUSE; -: CONF; F: FLASH/RECALL; [ ]: INTERCOM
  x: PAUSE (substitutes for any number [i.e., wild card])

- To return to the previous programming item, press ◀.

- To correct a wrong entry, press CLEAR and then enter the new input.

- To delete a stored parameter, press CLEAR, enter the new input, and then press STORE.

- Press ◀ or ▶ to scroll the display.

- Some programmes cannot have a value left empty.

Date & Time [000]

0	0	0	NEXT	year → SELECT → day → →
				(00···99) (Jan.···Dec.) (1···31)

SELECT → hour → minute → SELECT	STORE	END
(Sun···Sat) (1···12) (00···59) (AM/PM)		
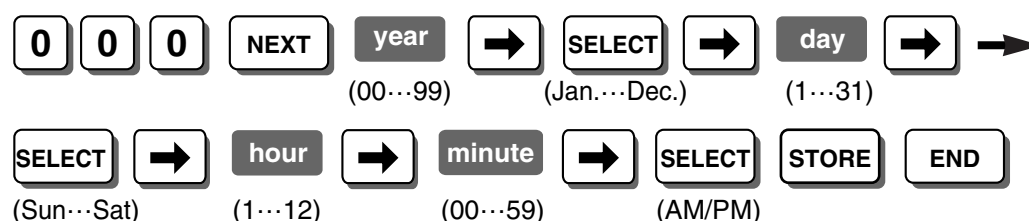
Notes

- The clock starts immediately after the STORE button is pressed.

- The PBX supports years from 2004 to 2099.

Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

System Speed Dialling Number [001]

NEXT or PREV
To continue

0	0	1	NEXT	speed dialling no.	phone no.	STORE	END
				(00···99)	Max. 32 digits (0···9, ✳, #, P, −, F, [ ])		

To continue

SELECT
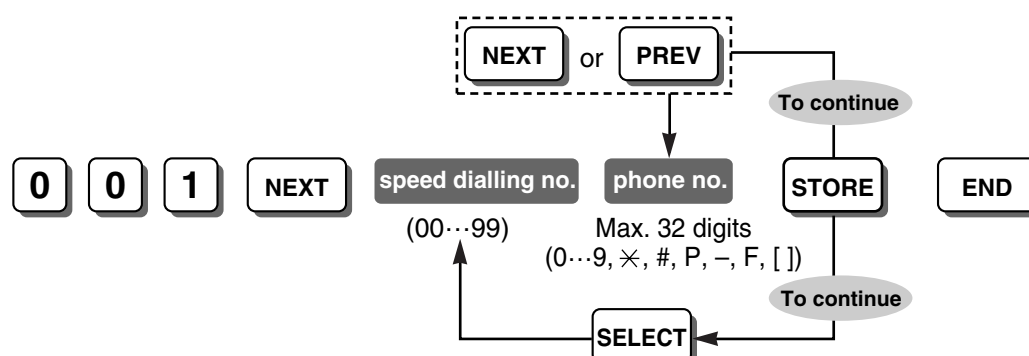
Notes

- An Outside (CO) Line Access number (9/0 [for New Zealand: 1 or 9], 81 through 88) should be included before the phone number.

- When storing an account code assigned in Account Code [310], enter ✳✳ and the account code after an Outside (CO) Line Access number.

Feature & Programming References

1.6.1 Memory Dialling Features

System Password [002]

$$\boxed{0}\ \boxed{0}\ \boxed{2}\ \boxed{\text{NEXT}}\ \boxed{\textbf{password}}\ \boxed{\text{STORE}}\ \boxed{\text{END}}$$

4-7 digits
(0000···9999999)
◆1234

WARNING

To maintain system security, a password is required to perform system programming. To avoid unauthorised access and possible fraudulent dialling, do not disclose the password.

Warning to the Administrator regarding the system password

1. Please inform the customer of the importance of the password and the possible dangers if it becomes known to others.

2. To avoid unauthorised access and possible fraudulent dialling, maintain the secrecy of the password.

3. We strongly recommend that you change the default password value to something else for reasons of system security. It is best to use a password of 7 digits.

4. Please change the password periodically.

5. If a system password is forgotten, it can be found by loading a backup of the system data into a PC, and checking the password using the KX-TE Maintenance Console software. If you do not have a backup of the system data, you must reset the PBX to its factory defaults and reprogramme it. Therefore, we strongly recommend maintaining a backup of the system data. For more information on how to back up the system data, refer to the on-line help that appears by selecting the Help menu during PC programming. However, as system passwords can be extracted from backup copies of the system data file, do not allow unauthorised access to these files.

Note

This PBX has only one system password. It can be changed by either PT programming or PC programming. For this reason, the password can consist of numerals only.

Feature & Programming References

2.3.1 PC Programming
2.3.2 PT Programming

DSS Console Jack Assignment [003]
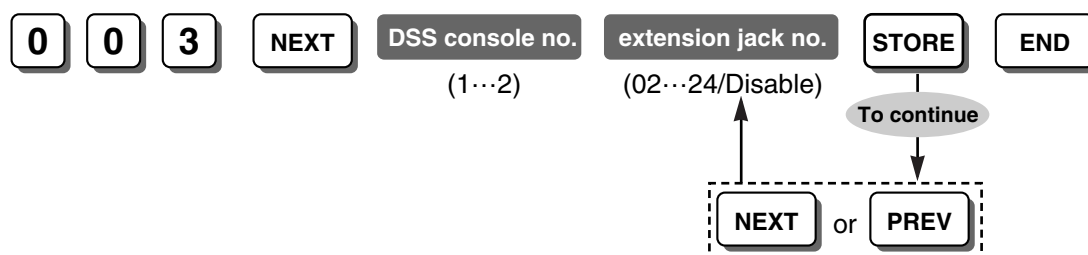
0 0 3 NEXT | DSS console no. | extension jack no. | STORE | END

(1···2)   (02···24/Disable)

To continue

NEXT or PREV

Notes

- To delete (disable) an extension jack number, press CLEAR in the extension jack number step.
- The same jack number cannot be assigned to 2 DSS Consoles.
- Do not assign extension jack 01 (manager extension) as the DSS Console jack.
- The extension jack number preassigned as a paired telephone in Console Paired Telephone [004] should not be assigned in this programme.

Feature & Programming References

1.18.1 Fixed Buttons

2.1.1 Extension Jack Configuration

Console Paired Telephone [004]
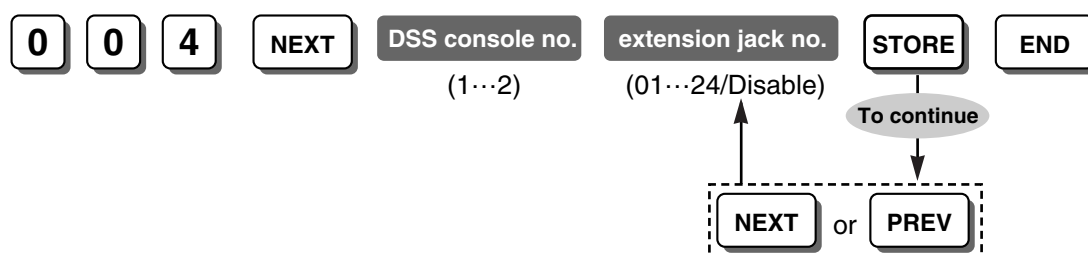
0 0 4 NEXT | DSS console no. | extension jack no. | STORE | END

(1···2)   (01···24/Disable)

To continue

NEXT or PREV

Notes

- To delete (disable) an extension jack number, press CLEAR in the extension jack number step.
- The extension jack number preassigned as a DSS Console in DSS Console Jack Assignment [003] should not be assigned in this programme.
- An SLT cannot be paired with the DSS Console.

Feature & Programming References

1.18.1 Fixed Buttons

2.1.1 Extension Jack Configuration

One-touch Transfer Using a DSS Button [005]

0 0 5 NEXT | SELECT | STORE | END

(With Transfer/
Without Transfer)
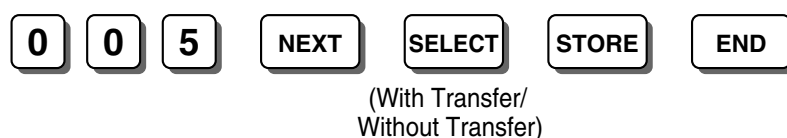
Note

With Transfer: Press the DSS button to transfer an outside (CO) line call.
Without Transfer: Press the TRANSFER button, then the DSS button to transfer an outside (CO) line call.

Feature & Programming References

1.11.1 Call Transfer

1.18.1 Fixed Buttons

Time Service Switching Mode [006]

0 **0** **6** **NEXT** **SELECT** **STORE** **END**

(Manual/Automatic)

Feature & Programming References

2.2.3 Time Service

Time Service Start Time [007]

Time Service Start Time [007]

0 **0** **7** **NEXT** **NEXT** or **PREV** or **✱** **SELECT** ➡ ➡

(Sun···Sat) (Every day) (Day/Night/
Lunch-start/
Lunch-end)

To go to another day of the week

To go to another mode

hour or **SELECT*** ➡ **minute** ➡ **SELECT** **STORE** **END**

(1···12) (00···59) (AM/PM)

**To remain the settings unchanged,
keep pressing SELECT until "None" is displayed**
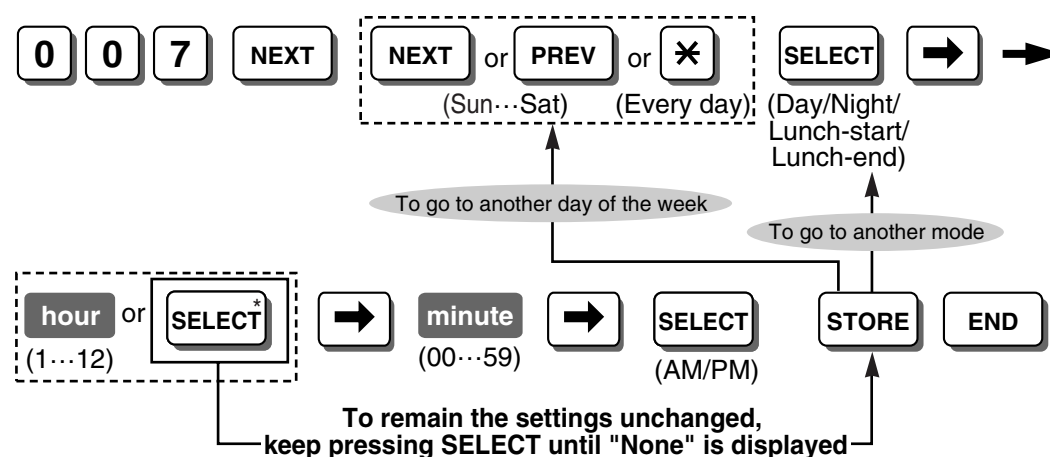
Notes

- This programme is available when switching mode is enabled in automatic mode in Time Service Switching Mode [006].
- * Pressing SELECT shows the previous entry. When the display shows "None", press SELECT to set the start time.

Feature & Programming References

2.2.3 Time Service

Operator Assignment [008]

0 **0** **8** **NEXT** **extension jack no.** **STORE** **END**

(01···24/Disable)
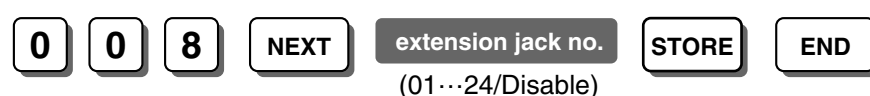
Note

To delete (disable) an extension jack number, press CLEAR in the extension jack number step.

Feature & Programming References

2.2.4 Operator/Manager Features

Extension Number [009]

0 **0** **9** **NEXT** **SELECT** **STORE** ➡

(Plan 1/2/3)

NEXT or **PREV** ⬅

To continue

extension jack no.   extension no.   **STORE**   **END**

(01⋯24)

To continue

SELECT ⬅
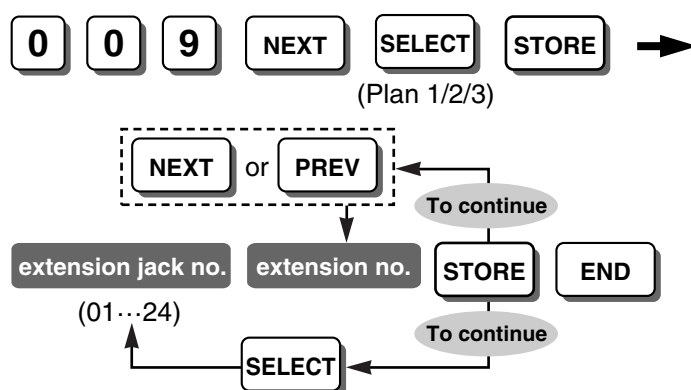
Notes

- Programmable extension numbers are as follows:
  Plan 1: 100–199; Plan 2: 100–499; Plan 3: 10–49
  (for United Kingdom/New Zealand: Plan 1: 200–299; for New Zealand: Plan 2: 200–499, Plan 3: 20–49)
- The same extension jack number cannot be entered 2 times.

Feature & Programming References

1.5.1.1 Intercom Call

1.6.1.6 Quick Dialling

1.19.2 Voice Mail Inband (DTMF) Integration

2.3.4 Feature Numbering

LCD Time Display [010]

0 **1** **0** **NEXT** **SELECT** **STORE** **END**

(12/24 h)

Note

The following settings and features use 12-hour format even if 24-hour format is assigned in this programme:

Date & Time [000]

Time Service Start Time [007]

1.20.1 Station Message Detail Recording (SMDR)

1.21.2 Timed Reminder

System Speed Dialling Name [011]

NEXT or PREV
To continue

0 1 1 NEXT | speed dialling no. (00…99) | name* Max. 16 characters | STORE | END

To continue
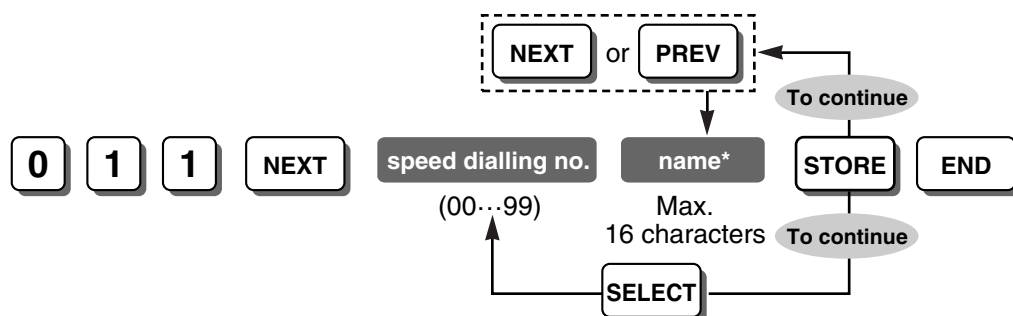
SELECT

Note

> * A name can be stored using a PT's dialling buttons. The displayed character varies depending on the number of times that the dialling button is pressed. It is possible to toggle between "Alphabet mode" and "Numeral mode" by pressing SELECT.

Feature & Programming References

1.6.1.5 Speed Dialling—Personal/System

3.3.1 Programming Instructions—Entering Characters

Second Feature Numbering Plan [012]

NEXT or PREV
To continue

0 1 2 NEXT | code no. (50…59) | feature no. Max. 10 digits (0…9, ✲, #, P, –, F, [ ]) | STORE | END

To continue
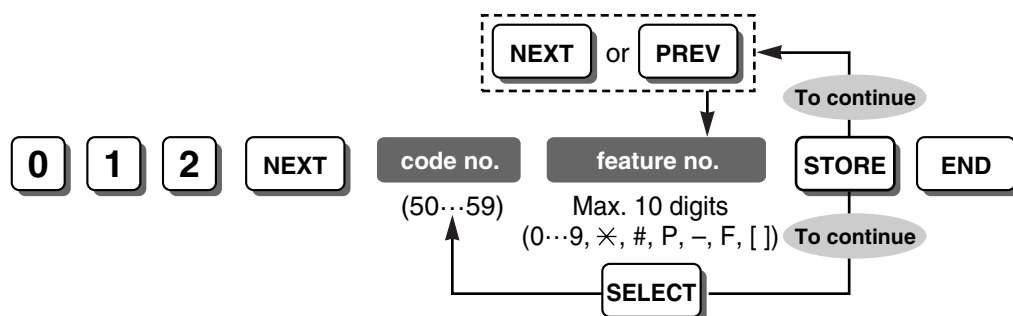
SELECT

Note

> This programme is available only when "Plan 2" or "Plan 3" is selected in Extension Number [009].

Feature & Programming References

1.6.1.6 Quick Dialling

2.3.4 Feature Numbering

KX-T7710 One-touch Dialling [013]

0 **1** **3** **NEXT** → location no. (1…9) → feature no. Max. 24 digits (0…9, ✳, #, P, –, F, [ ]) → **STORE** → **END**

NEXT or PREV

SELECT

To continue
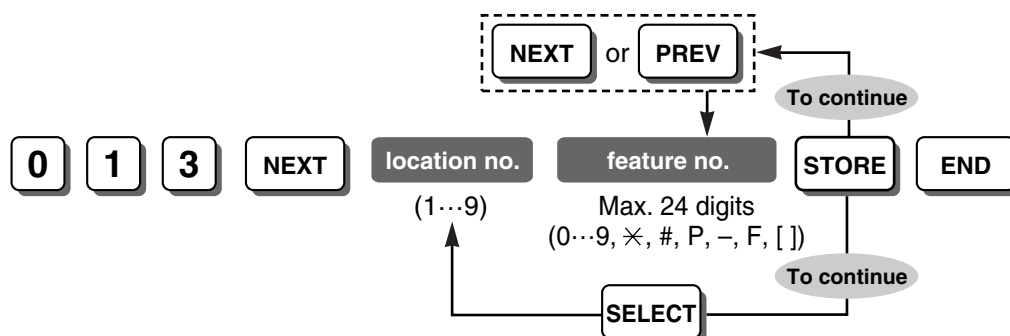
Notes

- Any feature number can be stored in a One-touch button. However, the feature numbers for Personal Speed Dialling, System Speed Dialling, and Quick Dialling do not function.
- This feature is not available when the KX-T7710 is connected in parallel with a PT.

Feature & Programming References

1.6.1.3 KX-T7710 One-touch Dialling

Hunting Group Set [100]

1 **0** **0** **NEXT** → extension group no. (1…8/✳) → **SELECT** (Enable/Disable) → **STORE** → **END**

NEXT or PREV

SELECT

To continue
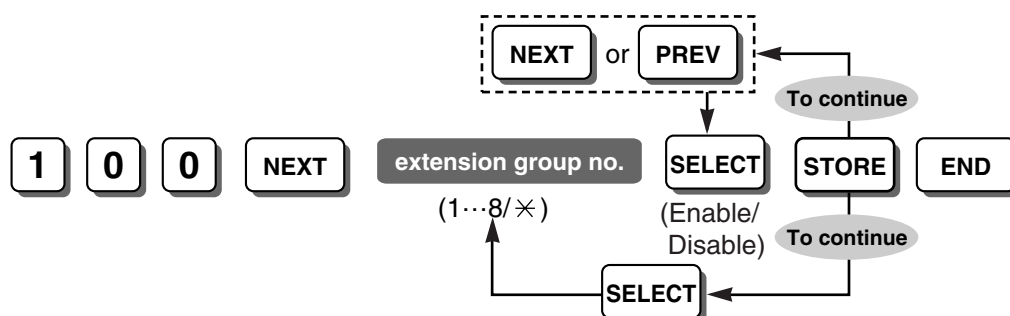
Feature & Programming References

1.2.1 Idle Extension Hunting
Extension Group [600]

Hunting Type [101]

1 **0** **1** **NEXT** → extension group no. (1…8/✳) → **SELECT** (Terminate/Circular) → **STORE** → **END**

NEXT or PREV

SELECT

To continue
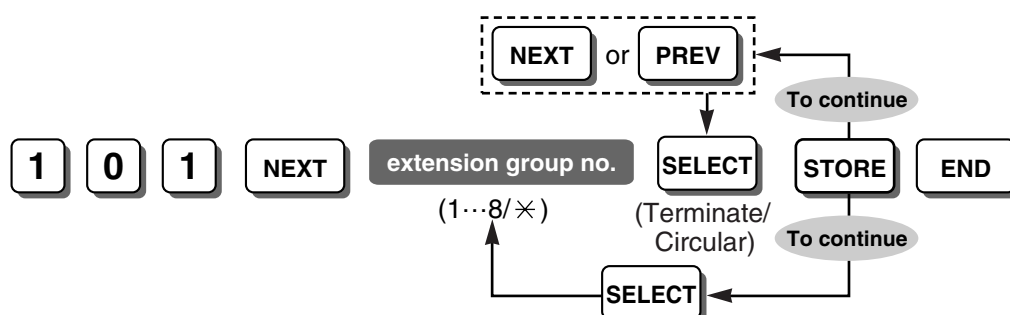
Note

This programme is available when the extension group is enabled in Hunting Group Set [100].

Feature & Programming References

1.2.1 Idle Extension Hunting

DTMF Integration Port [102]
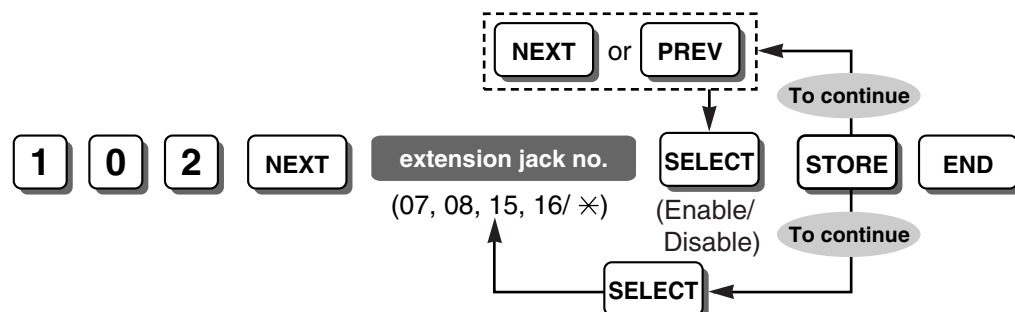
```
1   0   2   NEXT     extension jack no.    SELECT    STORE    END
                     (07, 08, 15, 16/ ✻)  (Enable/
                                           Disable)
```

NEXT or PREV — To continue — SELECT — To continue — SELECT

Feature & Programming References

1.19.2 Voice Mail Inband (DTMF) Integration

DTMF Integration [103]

```
1   0   3   NEXT   SELECT   STORE   END
                   (Enable/Disable)
```
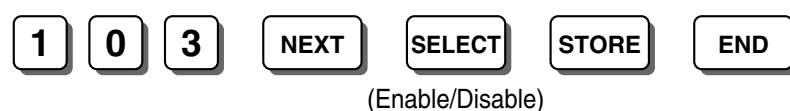
Note

When a KX-TVP series VPS is connected to the PBX, to enable Inband (DTMF) Integration between the VPS and the PBX, select "Plan 1" or "Plan 2" in Extension Number [009] and "Enable" in this programme.

Feature & Programming References

1.19.2 Voice Mail Inband (DTMF) Integration

DTMF Integration Port [102]

SLT Hold Mode [104]

```
1   0   4   NEXT   SELECT   STORE   END
                   (Hold-1/Hold-2/
                    Hold-3)
```
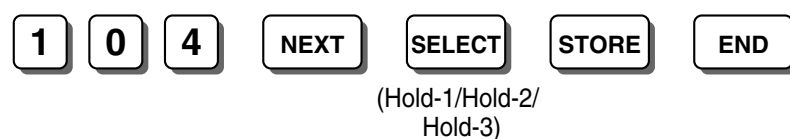
Feature & Programming References

1.12.1 Call Hold

Conference Tone [105]

```
1   0   5   NEXT   SELECT   STORE   END
                   (Enable/Disable)
```
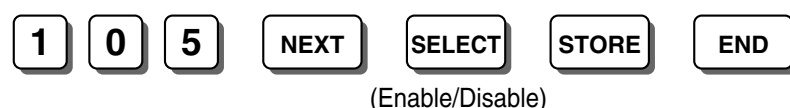
Feature & Programming References

1.7.2 Executive Busy Override

1.13.1.2 Conference

External Pager Access Tone [106]

| 1 | 0 | 6 | NEXT | SELECT | STORE | END |

(Enable/Disable)
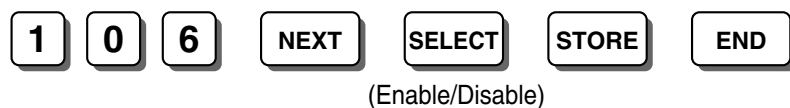
Feature & Programming References

1.14.1 Paging

DTMF Receiver Check [107]

NEXT or PREV ← To continue

| 1 | 0 | 7 | NEXT | DTMF receiver no. | SELECT | STORE | END |

(1…6/✶)   (Enable/Disable)
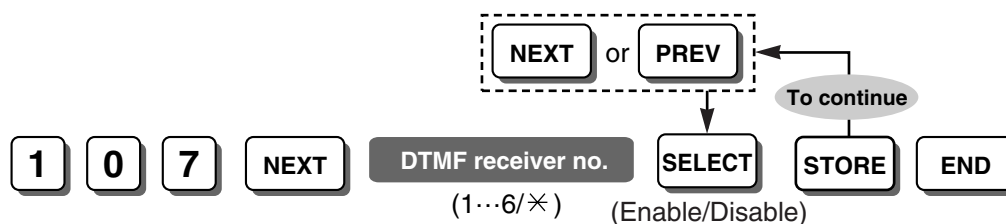
Note

This programme enables each DTMF receiver to check whether it is operating normally or not.
DTMF receiver number:

1–2: checking extension jacks 01–08

3–4: checking extension jacks 09–16

5–6: checking extension jacks 17–24

Connection References

4.1.3 Operation

Flash/Recall Mode for a Locked Extension [108]

| 1 | 0 | 8 | NEXT | SELECT | STORE | END |

(Enable/Disable)
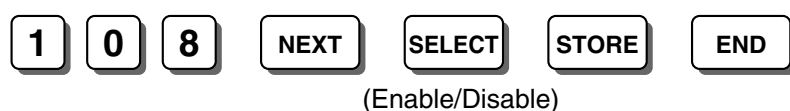
Note

This programme enables a locked extension to send a flash/recall signal during a conversation with an outside party.

CO Indicator [109]

| 1 | 0 | 9 | NEXT | SELECT | STORE | END |

(Enable/Disable)
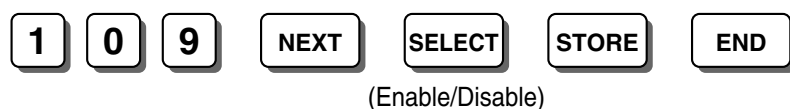
Note

This programme is available for the extension(s) assigned not to ring in Flexible Ringing—Day/Night/Lunch [408-410], to answer incoming outside (CO) line calls.

Flash/Recall Key Mode [110]

1 **1** **0** **NEXT** **SELECT** **STORE** **END**

(MODE1: EFA mode/
MODE2: Flash/Recall mode)

Feature & Programming References

1.10.6 Flash/Recall

1.10.7 External Feature Access (EFA)

Music on Hold [111]

1 **1** **1** **NEXT** **SELECT** **STORE** **END**

(Internal/
External/Tone)

Note

Selections vary depending on your country/area.

Feature & Programming References

1.12.4 Music on Hold

1.15.4 Background Music (BGM)

DSS Lamp Mode [112]

1 **1** **2** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Note

Enable: FWD—Flashing slowly, DND—Flashing at moderate speed
Disable: FWD—Off, DND—Off

Feature & Programming References

1.18.3 LED Indication

Automatic Redial Repeat Count [113]

1 **1** **3** **NEXT** **SELECT** **STORE** **END**

(0/3/10/
15 times)

Feature & Programming References

1.6.1.4 Redial

Automatic Redial Interval [114]

| 1 | 1 | 4 | NEXT | SELECT | STORE | END |

(40/60 s)

Feature & Programming References

1.6.1.4 Redial

Extension Ring Tone Pattern [115]

| 1 | 1 | 5 | NEXT | SELECT | STORE | END |

(Single/Double/
Triple)

Feature & Programming References

1.1.3.3 Ring Tone Pattern Selection

1.5.1.1 Intercom Call

4.2.1 Tones/Ring Tones

Conference Pattern [116]

| 1 | 1 | 6 | NEXT | SELECT | STORE | END |

(3-party C-0 E-3/
3-party C-1 E-3/
3-party C-2 E-3/
5-party C-2 E-5)

Note

3-party C-0 E-3: No outside parties can attend a 3-party conference call.

3-party C-1 E-3: One outside party can attend a 3-party conference call.

3-party C-2 E-3: A maximum of 2 outside parties can attend a 3-party conference call.

5-party C-2 E-5: A maximum of 2 outside parties can attend a 3-party to 5-party conference call.

The PBX allows up to 2 outside parties to participate in a conference call. [C: CO, E: Extension]

Feature & Programming References

1.13.1.2 Conference

Call Pickup Tone [117]

| 1 | 1 | 7 | NEXT | SELECT | STORE | END |

(Enable/Disable)

Feature & Programming References

1.4.1.3 Call Pickup

Pulse Restriction [118]

1 **1** **8** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Note

It is programmable whether pulse dialling is sent or not to the telephone company during a conversation with an outside party when "Pulse" or "Call Block" mode is enabled in Dial Mode [401].

Redialling after Pulse to Tone Conversion [119]

1 **1** **9** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Feature & Programming References

1.5.2.4 Dial Type Selection

Bell Frequency [120]

1 **2** **0** **NEXT** **SELECT** **STORE** **END**

(20/25 Hz)

Note

This programme selects the bell frequency sent to an SLT.

Automatic Line Access [121]

1 **2** **1** **NEXT** **SELECT** **STORE** **END**

(Dial 0/9)*

Note

* For New Zealand: 1 or 9

Feature & Programming References

1.5.3.3 Outside (CO) Line Access

2.2.4 Operator/Manager Features

Automatic Rotation for CO Line Access [122]

1 **2** **2** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Feature & Programming References

1.5.3.3 Outside (CO) Line Access

Break Ratio [123]

1 **2** **3** **NEXT** **SELECT** **STORE** **END**

(MODE1: 66 %/
MODE2: 60 %)

Note

This programme selects the pulse break ratio (the ratio between the length of the pulse and the length of the pause) when a pulse is sent to the telephone company while dialling a telephone number.

TRS Check for * and # [125]

1 **2** **5** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Feature & Programming References

1.8.1 Toll Restriction (TRS)

DSS Off-hook Mode [126]

1 **2** **6** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Feature & Programming References

1.5.1.1 Intercom Call

Pickup Group [127]

NEXT or **PREV**

To continue

1 **2** **7** **NEXT** **extension group no.** **SELECT** **STORE** **END**

(1…8/✱)

(Enable/
Disable) To continue
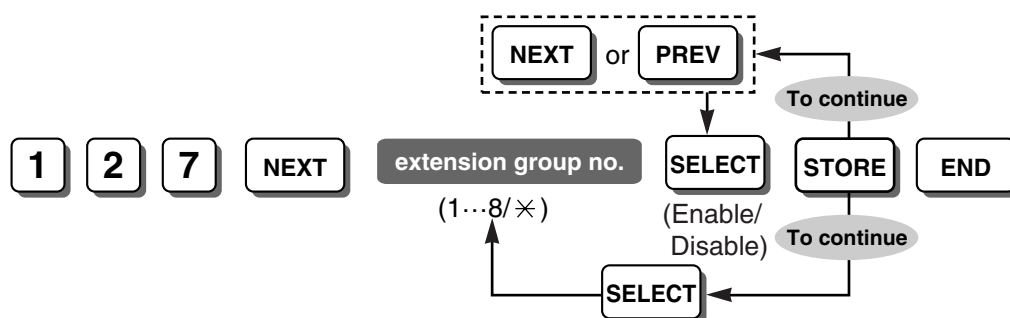
SELECT

Feature & Programming References

1.4.1.3 Call Pickup
CO Indicator [109]

Ringback Tone Pattern [128]

1 **2** **8** **NEXT** **SELECT** **STORE** **END**

(Single 3 s/Single 5 s/
Double 3 s/Double 5 s)

Note

This programme selects the ringback tone pattern for outgoing intercom calls and for incoming outside (CO) line calls (including a DISA call).

Feature & Programming References

1.5.1.1 Intercom Call

1.15.6 Direct Inward System Access (DISA)

4.2.1 Tones/Ring Tones

VM 1 APT Port [130]
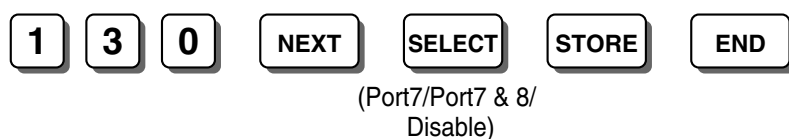
1 **3** **0** **NEXT** **SELECT** **STORE** **END**

(Port7/Port7 & 8/
Disable)

Notes

• To change the current setting (other than "Disable"), select "Disable", then select the desired setting.

• This programme is not available when "Enable" is selected in DTMF Integration [103].

Feature & Programming References

1.19.1 Voice Mail APT Integration

VM 2 APT Port [131]
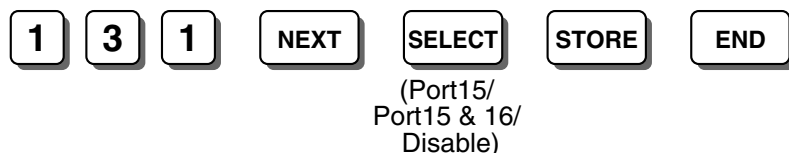
1 **3** **1** **NEXT** **SELECT** **STORE** **END**

(Port15/
Port15 & 16/
Disable)

Notes

• To change the current setting (other than "Disable"), select "Disable", then select the desired setting.

• This programme is not available when "Enable" is selected in DTMF Integration [103].

Feature & Programming References

1.19.1 Voice Mail APT Integration

SLT Ring/Silence Ratio [142]

1 **4** **2** **NEXT** **SELECT** **STORE** **END**

(1:2/1:3/1:4)
[On:Off]

Note

This programme selects the ratio between the bell signals of an SLT (a set of bell-on and bell-off).

Feature & Programming References

1.1.3.3 Ring Tone Pattern Selection

SLT Ring Bell-on Time [143]

SLT Ring Bell-on Time [143]

[1] [4] [3] [NEXT] [SELECT] [STORE] [END]

(1000···2000 ms)
[100 ms increments]
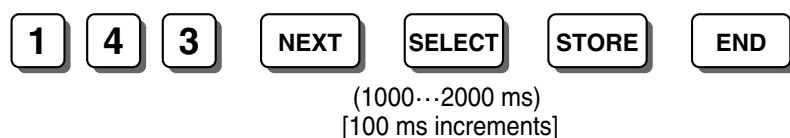
Notes

- This programme selects the length of the bell-on signal of an SLT. This determines the ring tone pattern for incoming calls to SLTs, combined with the setting in SLT Ring/Silence Ratio [142].
- This programme also determines the maximum number of digits of an SLT Caller ID number, when "DTMF1" or "DTMF2" is selected in SLT Caller ID Signalling Type [150].

Feature & Programming References

1.1.3.3 Ring Tone Pattern Selection

1.16.1 Caller ID

SMS Centre Number for Receiving [145]

[1] [4] [5] [NEXT] [SMS centre no.] [STORE] [END]

Max. 16 digits
(0···9, ✳, #)

Feature & Programming References

1.17.3 Fixed Line SMS Terminal Support

SMS Routing Table—CO [146]

[NEXT] or [PREV]
To continue

[1] [4] [6] [NEXT] [CO line no.] [SELECT] [STORE] [END]

(1···8) (Disable/1···8)
To continue

[SELECT]
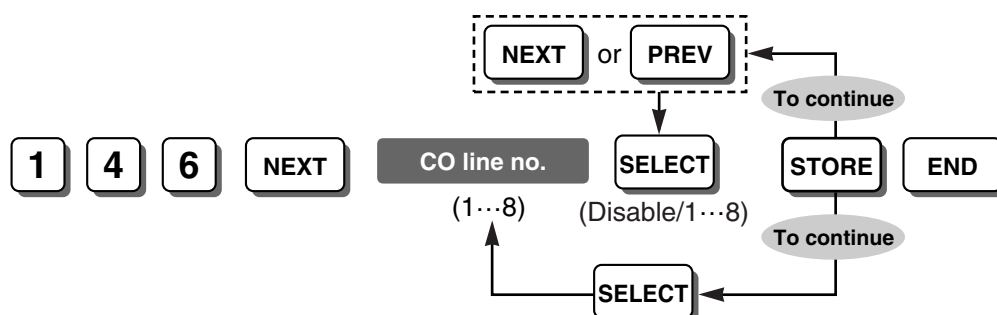
Feature & Programming References

1.17.3 Fixed Line SMS Terminal Support

SMS Routing Table—Extension [147]

```
       ┌─────────────────────┐
       │  NEXT  or  PREV   │◄──────────┐
       └─────────────────────┘           │
                    │              To continue
                    ▼                    │
 1  4  7  NEXT  extension jack no.  SELECT    STORE    END
                (01···24)   (Disable/1···8)
                    ▲              To continue
                    │                    │
                 SELECT ◄────────────────┘
```
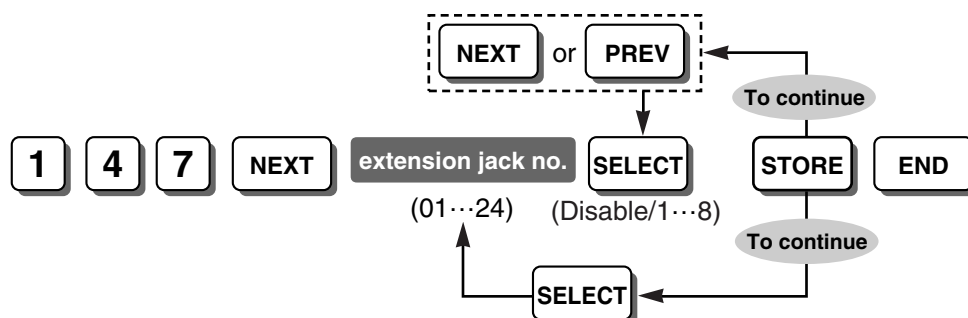
Note

Each location 1–8 has a maximum of 8 extensions.

Feature & Programming References

1.17.3 Fixed Line SMS Terminal Support

SLT Caller ID Signalling Type [150]

```
 1  5  0  NEXT  SELECT  STORE  END
             (FSK1 [During ring]/
              FSK2 [RP-AS]/
              DTMF1 [Immediately]/
              DTMF2 [During ring])
```
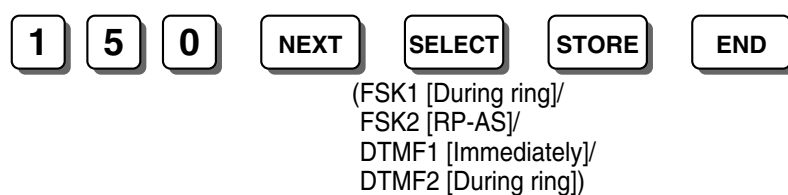
Feature & Programming References

1.16.1 Caller ID

SLT Caller ID Line Access Number [151]

```
 1  5  1  NEXT  SELECT  STORE  END
             (Enable/Disable)
```
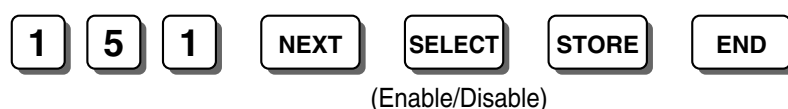
Feature & Programming References

1.16.1 Caller ID

Automatic Time Adjustment [152]

```
 1  5  2  NEXT  SELECT  STORE  END
             (Enable/Disable)
```
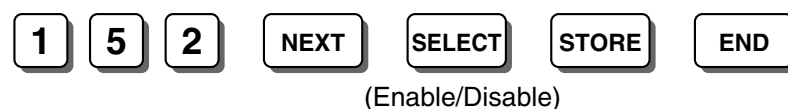
Feature & Programming References

2.3.3 Automatic Time Adjustment

Incoming Reverse [153]

```
 1  5  3  NEXT  SELECT  STORE  END
             (Enable/Disable)
```
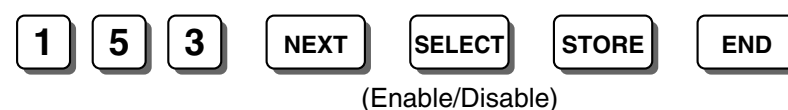
Feature & Programming References

1.10.10 Calling Party Control (CPC) Signal Detection

Hold Recall Time [200]

| **2** | **0** | **0** | NEXT | SELECT | STORE | END |

(30 s/
1/1.5/2/3/4/5/6 min/
Disable)

Feature & Programming References

1.12.1 Call Hold

1.12.2 Call Park

Transfer Recall Time [201]

| **2** | **0** | **1** | NEXT | SELECT | STORE | END |

(15/30 s/
1/2 min)

Feature & Programming References

1.11.1 Call Transfer

Call Forwarding Start Time [202]

| **2** | **0** | **2** | NEXT | SELECT | STORE | END |

(5/10/15/
20 s delay)

Feature & Programming References

1.3.1.2 Call Forwarding (FWD)

Hot Line Waiting Time [203]

| **2** | **0** | **3** | NEXT | SELECT | STORE | END |

(0···4 s)

Feature & Programming References

1.6.1.7 Hot Line

Call Duration Counter Start [204]

| **2** | **0** | **4** | NEXT | SELECT | STORE | END |

(5/10/15/20/25/30/35/
40/45/50 s after dialling/
Instantly)

Feature & Programming References

1.5.2.5 Reverse Circuit

1.20.1 Station Message Detail Recording (SMDR)

Polarity Reverse Detection [424]

CO-to-CO Line Call Duration [205]

| 2 | 0 | 5 | NEXT | time | STORE | END |

(1⋯32 min)

Feature & Programming References

1.10.8 Outside (CO) Line Call Limitation

Dialling Start Time [206]

| 2 | 0 | 6 | NEXT | SELECT | STORE | END |

Refer to the note.*

Note

      * The minimum length of time that the PBX waits after seizing an outside (CO) line before dialling that can be selected depends on your country/area as follows:
For Czech Republic: 0 ms, 250 ms, 500 ms, 750 ms, 1000 ms, 1250 ms, 3500 ms
For Others: 0 ms, 250 ms, 500 ms, 750 ms, 1000 ms, 1250 ms, 1500 ms

Feature & Programming References

1.5.3.3 Outside (CO) Line Access

Hookswitch Flash Timing Range [207]

| 2 | 0 | 7 | NEXT | SELECT | STORE | END |

(MODE1: 50-180 ms/
MODE2: 80-180 ms/
MODE3: 80-650 ms/
MODE4: 80-1000 ms/
MODE5: 200-1000 ms)

Feature & Programming References

1.12.1 Call Hold

Inter-digit Time [208]

| 2 | 0 | 8 | NEXT | SELECT | STORE | END |

(5/10/15/20 s)

Feature & Programming References

1.8.1 Toll Restriction (TRS)

No Dial Disconnection [211]

DTMF Time [210]

2 **1** **0** **NEXT** **SELECT** **STORE** **END**

(MODE1: 80 ms/
MODE2: 160 ms)

Note

This programme selects the minimum duration of the DTMF signal sent to outside (CO) lines that have been set to "DTMF" in Dial Mode [401].

Feature & Programming References

1.5.2.4 Dial Type Selection

No Dial Disconnection [211]

2 **1** **1** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Feature & Programming References

1.8.1 Toll Restriction (TRS)
Inter-digit Time [208]

Extension-to-CO Line Call Duration [212]

2 **1** **2** **NEXT** **time** **STORE** **END**

(1···32 min)

Note

This programme is available for the extension(s) enabled in CO Line Call Duration Limitation [613].

Feature & Programming References

1.10.8 Outside (CO) Line Call Limitation

Bell-off Detection [213]

2 **1** **3** **NEXT** **SELECT** **STORE** **END**

(3/6/12 s)

Note

This programme selects the minimum time required by the PBX to confirm that the bell signal is no longer being sent from the telephone company, before the PBX acknowledges that the call is lost.

BV Recording Time [214]

2 **1** **4** **NEXT** **time** **STORE** **END**

(1···20 min)

Feature & Programming References

1.15.7 Built-in Voice Message (BV)

Common/Personal BV OGM Recording Time [215]

2 **1** **5** **NEXT** **time** **STORE** **END**

(1···15 min)

Note

This programme selects the maximum recording time for each personal/common BV OGM.

Feature & Programming References

1.15.7 Built-in Voice Message (BV)

Carrier Exception Code [300]

NEXT or **PREV**

To continue

3 **0** **0** **NEXT** **code no.** **carrier code** **STORE** **END**

(01···20)   Max. 10 digits   To continue
(0···9, ✳, #, x)
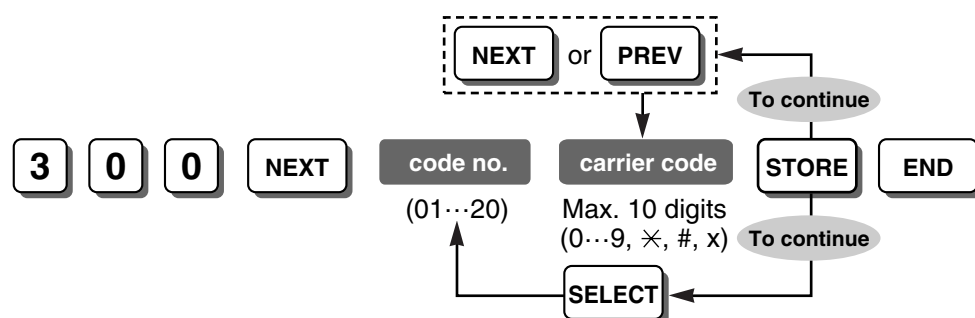
SELECT

Feature & Programming References

1.8.1 Toll Restriction (TRS)

1.9.1 Automatic Route Selection (ARS)

TRS—System Speed Dialling Class [301]

3 **0** **1** **NEXT** **SELECT** **STORE** **END**

(Class-1···5)
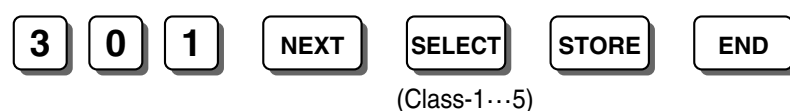
Feature & Programming References

1.6.1.5 Speed Dialling—Personal/System

1.8.1 Toll Restriction (TRS)

TRS—COS 2-5 Denied Code [302-305]

NEXT or **PREV**

To continue

3 **X** **NEXT** **code no.** **phone no.** **STORE** **END**

(02···05)   (01···20)   Max. 11 digits   To continue
02: for Class 2   (0···9, ✳, #, x)
03: for Class 3
04: for Class 4
05: for Class 5

SELECT
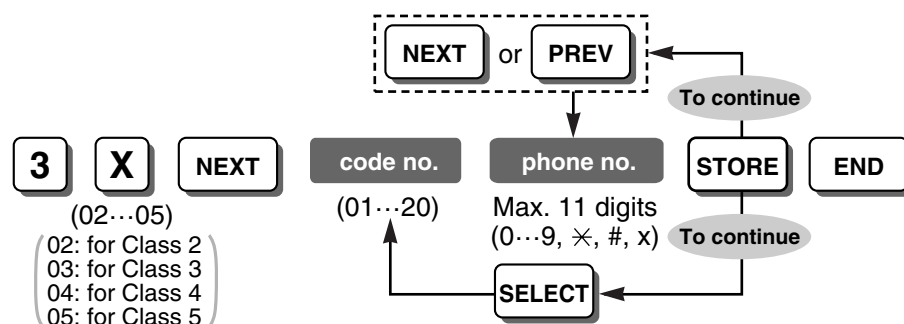
Feature & Programming References

1.8.1 Toll Restriction (TRS)

TRS—Exception Code [306]

[3] [0] [6] [NEXT] → code no. (01···80) → phone no. Max. 11 digits (0···9, ✳, #, x) → [STORE] [END]

[NEXT] or [PREV]

To continue

To continue

[SELECT]
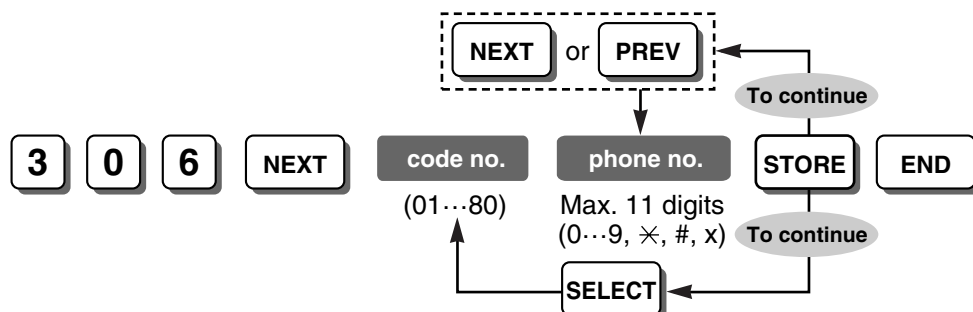
Feature & Programming References

1.8.1 Toll Restriction (TRS)

TRS—COS 2-5 Denied Code [302-305]

Emergency Number [309]

[3] [0] [9] [NEXT] → code no. (1···5) → emergency no. Max. 24 digits (0···9) → [STORE] [END]

[NEXT] or [PREV]

To continue

To continue

[SELECT]
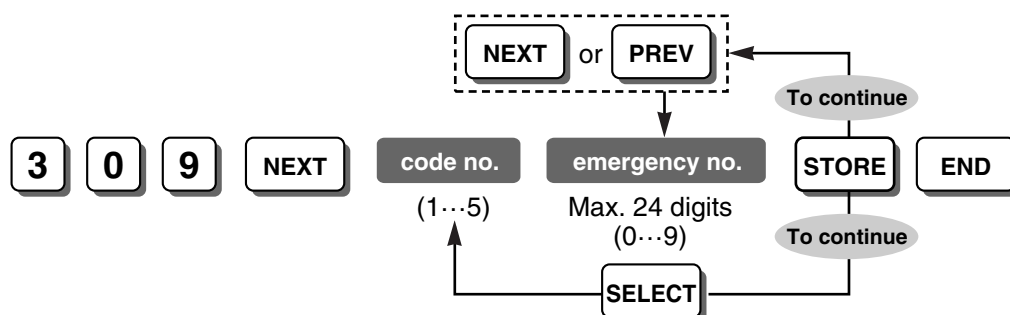
Feature & Programming References

1.5.2.2 Emergency Call

1.8.1 Toll Restriction (TRS)

Account Code [310]
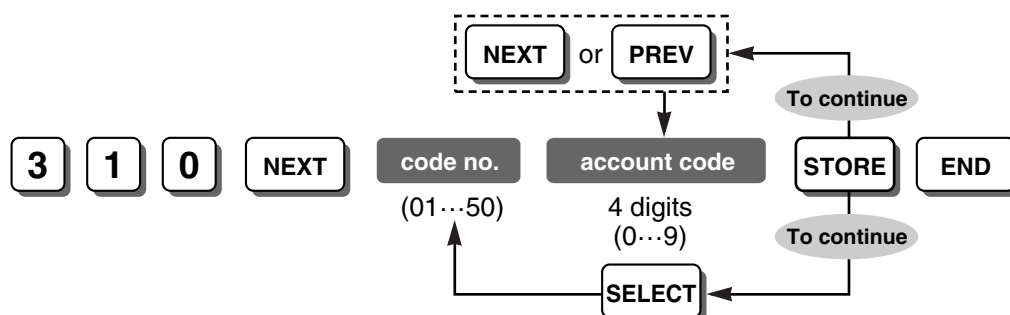
[3] [1] [0] [NEXT] → code no. (01···50) → account code 4 digits (0···9) → [STORE] [END]

[NEXT] or [PREV]

To continue

To continue

[SELECT]

Feature & Programming References

1.5.2.3 Account Code Entry

1.8.2 Toll Restriction (TRS) Override by Account Code

Account Code Mode [605]

Automatic Pause Insertion Code [311]
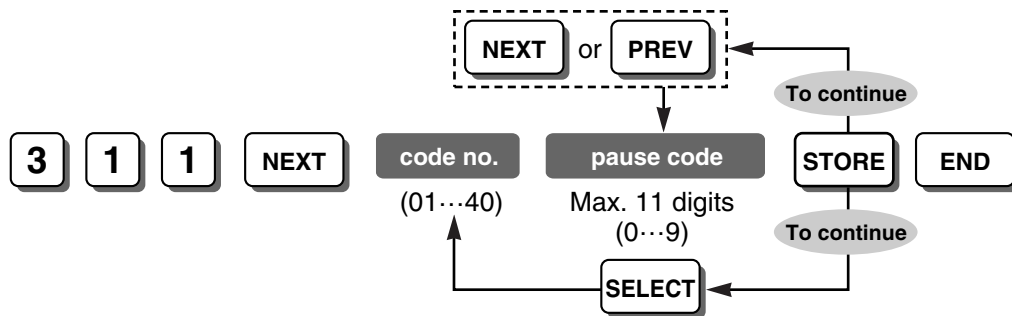
Feature & Programming References

1.5.2.6 Pause Insertion

Pause Time [417]

TRS—Extension Lock Class [312]
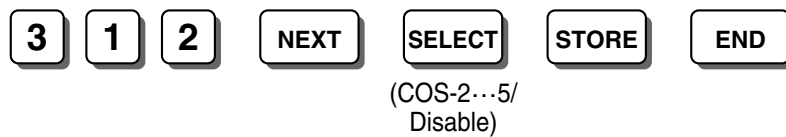
Feature & Programming References

1.8.1 Toll Restriction (TRS)

1.8.3 Extension Lock

ARS Selection [350]
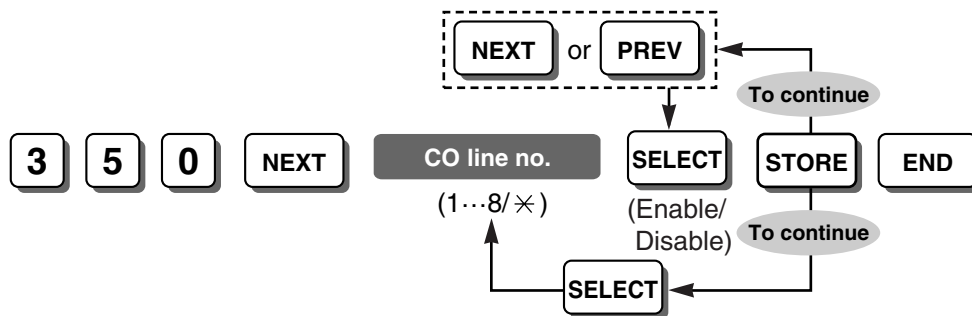
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

Route 1-4 Selection Code [351-354]
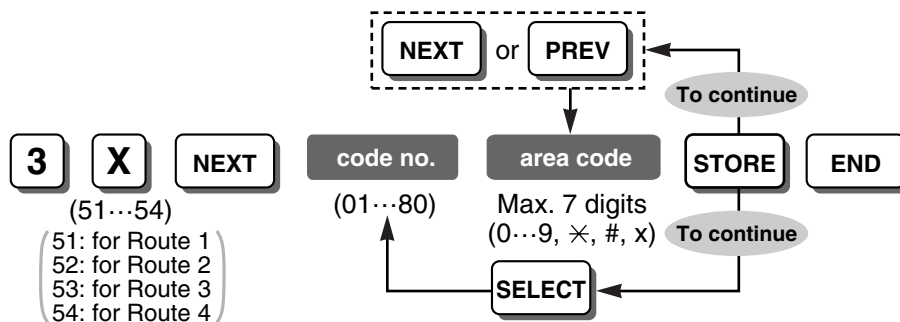
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

Route 1-4 Exception Code [355-358]
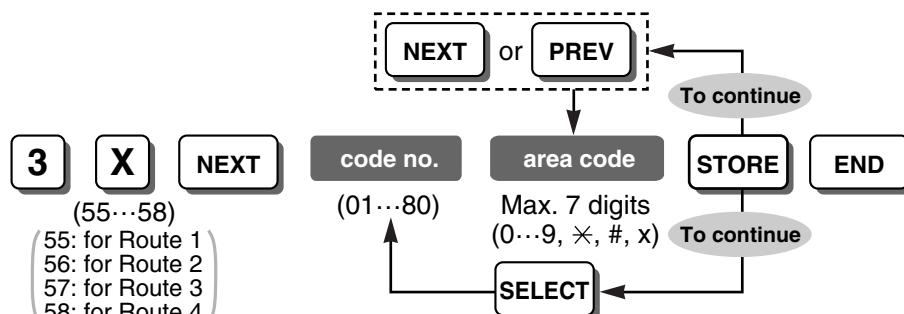
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

1st Carrier Selection Code [359]
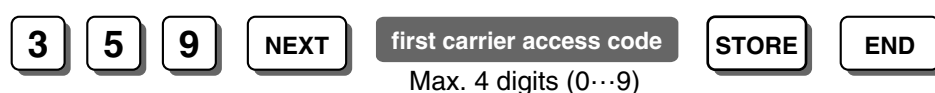
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

ARS Modification—Removed Digits [360]
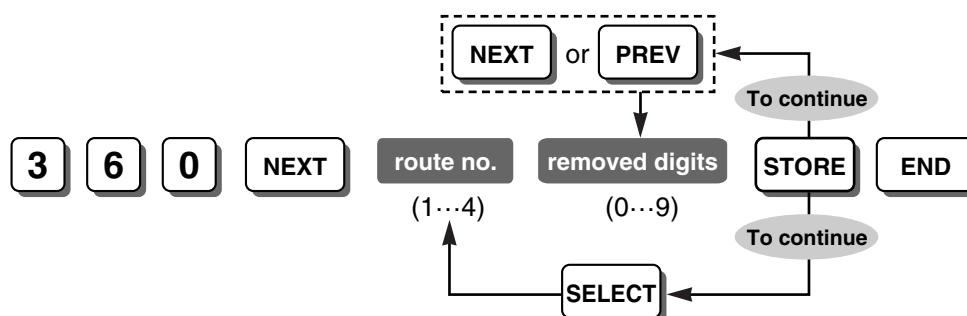
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

ARS Modification—Added Number [361]

```
                              ┌─────────────────────┐
                              │  NEXT   or   PREV  │◄─┐
                              └─────────────────────┘  │
                                         │          ┌────────────┐
                                         ▼          │ To continue │
  ┌───┐ ┌───┐ ┌───┐ ┌──────┐  ┌──────────┐ ┌──────────────┐ ┌───────┐ ┌──────┐
  │ 3 │ │ 6 │ │ 1 │ │ NEXT │  │ route no.│ │ added number │ │ STORE │ │ END  │
  └───┘ └───┘ └───┘ └──────┘  └──────────┘ └──────────────┘ └───────┘ └──────┘
                               (1···4)      Max. 20 digits   ┌────────────┐
                                  ▲         (0···9, ✳, #, P)  │ To continue │
                                  │              ┌────────┐   └────────────┘
                                  └──────────────│ SELECT │◄──────┘
                                                 └────────┘
```
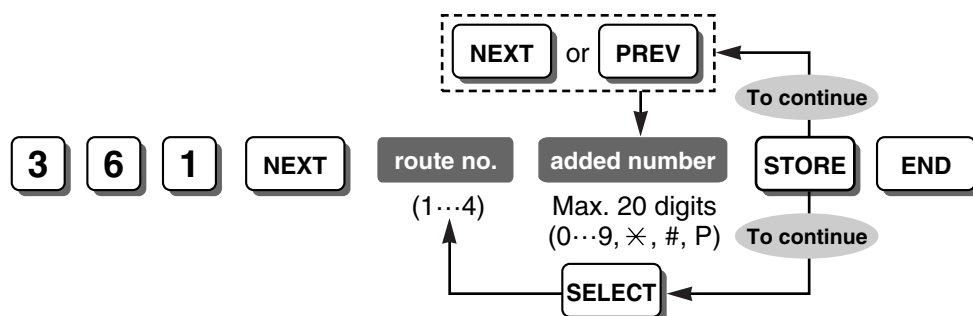
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

ARS Dial Tone [362]

```
  ┌───┐ ┌───┐ ┌───┐ ┌──────┐ ┌────────┐ ┌───────┐ ┌──────┐
  │ 3 │ │ 6 │ │ 2 │ │ NEXT │ │ SELECT │ │ STORE │ │ END  │
  └───┘ └───┘ └───┘ └──────┘ └────────┘ └───────┘ └──────┘
                             (Tone1/Tone2/
                             Tone3/Disable)
```

Feature & Programming References

1.22.1 Dial Tone

ARS Inter-digit Time [363]

```
  ┌───┐ ┌───┐ ┌───┐ ┌──────┐ ┌────────┐ ┌───────┐ ┌──────┐
  │ 3 │ │ 6 │ │ 3 │ │ NEXT │ │  time  │ │ STORE │ │ END  │
  └───┘ └───┘ └───┘ └──────┘ └────────┘ └───────┘ └──────┘
                             (1···20 s)
```

Note

This assignment should be the same as the inter-digit timer assigned in Inter-digit Time [208].

Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

ARS CO Line Group [364]

```
                              ┌─────────────────────┐
                              │  NEXT   or   PREV  │◄─┐
                              └─────────────────────┘  │
                                         │          ┌────────────┐
                                         ▼          │ To continue │
  ┌───┐ ┌───┐ ┌───┐ ┌──────┐  ┌──────────┐ ┌──────────────────┐ ┌───────┐ ┌──────┐
  │ 3 │ │ 6 │ │ 4 │ │ NEXT │  │ route no.│ │ CO line group no.│ │ STORE │ │ END  │
  └───┘ └───┘ └───┘ └──────┘  └──────────┘ └──────────────────┘ └───────┘ └──────┘
                               (1···4)       (1···8/✳)          ┌────────────┐
                                  ▲                             │ To continue │
                                  │              ┌────────┐     └────────────┘
                                  └──────────────│ SELECT │◄──────┘
                                                 └────────┘
```
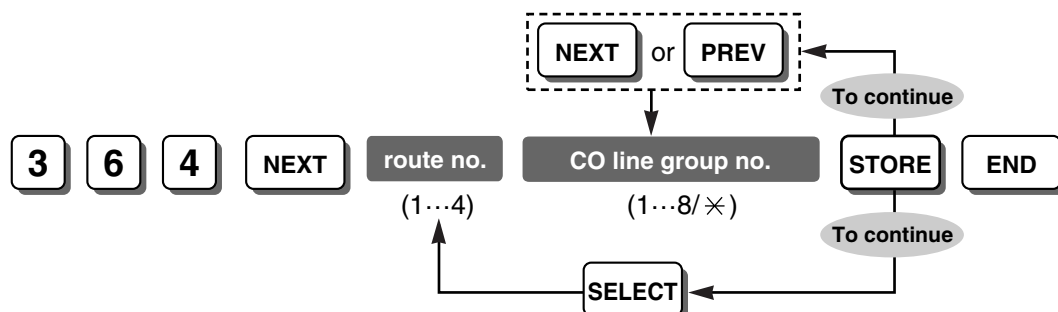
Note

The assignments in Route 1-4 Selection Code [351-354] are effective for this programme.

Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

Route 1-4 Authorisation Code [381-384]

| 3 | X | NEXT | CO line no. | authorisation code | STORE | END |

(81···84)
81: for Route 1
82: for Route 2
83: for Route 3
84: for Route 4

CO line no. (1···8/ ✕)

authorisation code Max. 19 digits (0···9, ✕, #, P)

NEXT or PREV — To continue

SELECT — To continue
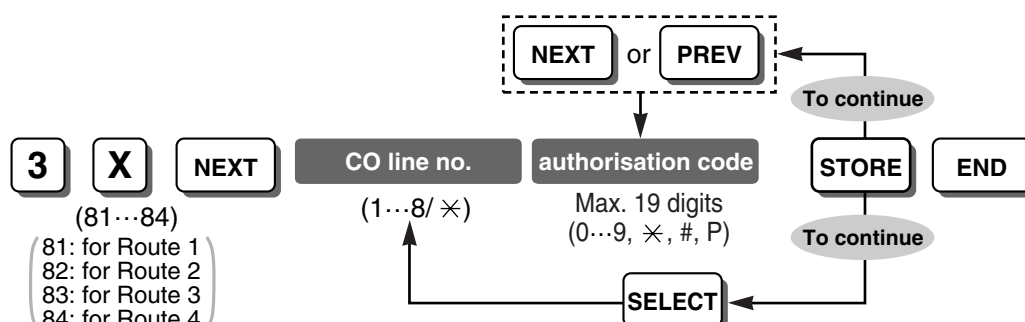
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

Route 1-4 Itemised Billing [385-388]

| 3 | X | NEXT | CO line no. | SELECT | STORE | END |

(85···88)
85: for Route 1
86: for Route 2
87: for Route 3
88: for Route 4

CO line no. (1···8/ ✕)

SELECT (Enable/Disable)

NEXT or PREV — To continue

SELECT — To continue
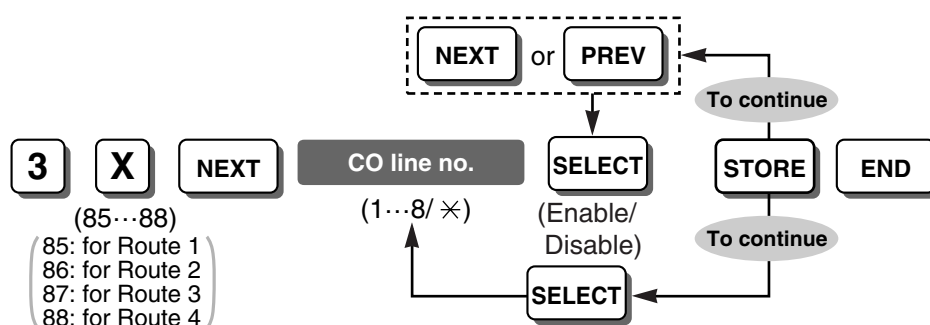
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

Itemised Billing Code [389]

| 3 | 8 | 9 | NEXT | extension jack no. | itemised billing code | STORE | END |

extension jack no. (01···24/ ✕)

itemised billing code Max. 3 digits (0···9, ✕, #, P)

NEXT or PREV — To continue

SELECT — To continue
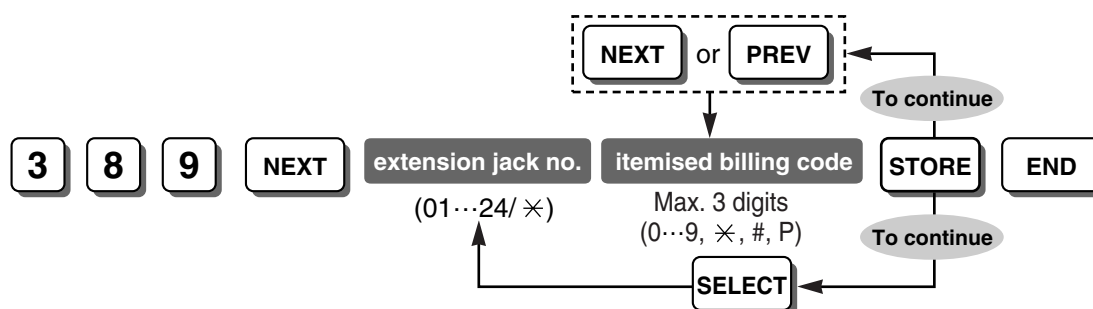
Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

Authorisation and Itemised Billing Code Order [390]
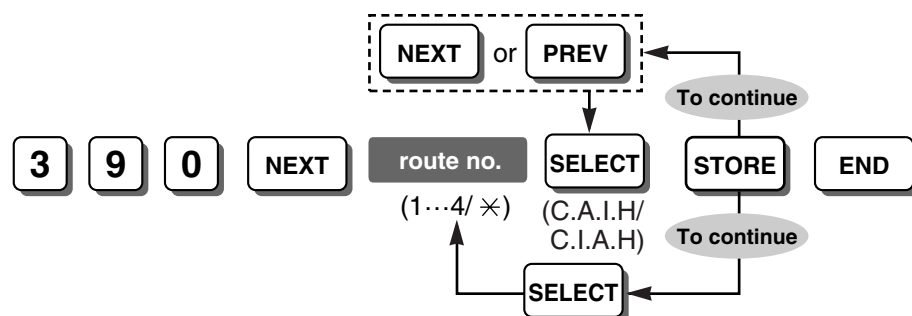
Note

    C: Carrier Access Code; A: Authorisation Code; I: Itemised Billing Code; H: Telephone Number

Feature & Programming References

1.9.1 Automatic Route Selection (ARS)

CO Line Connection [400]
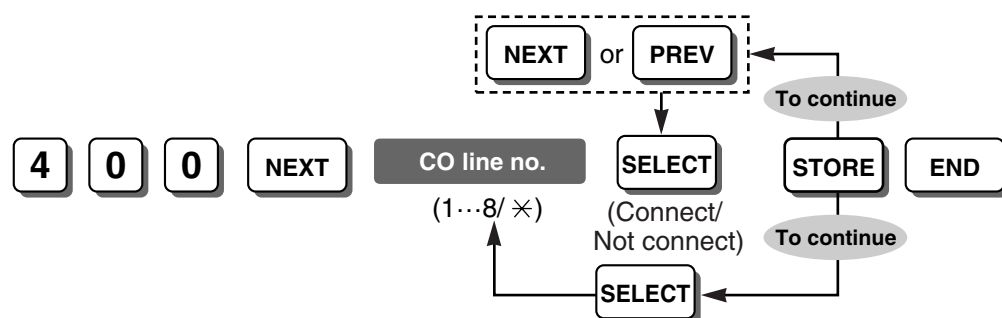
Feature & Programming References

1.5.3.2 Line Preference—Outgoing

1.5.3.3 Outside (CO) Line Access

Dial Mode [401]
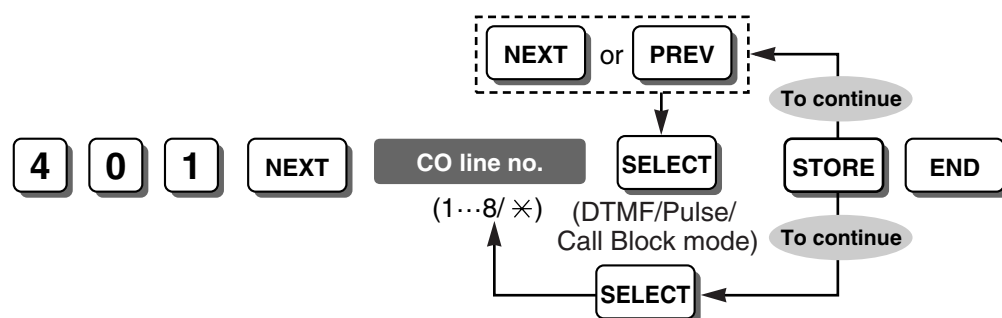
Feature & Programming References

1.5.2.4 Dial Type Selection

Pulse Speed [402]
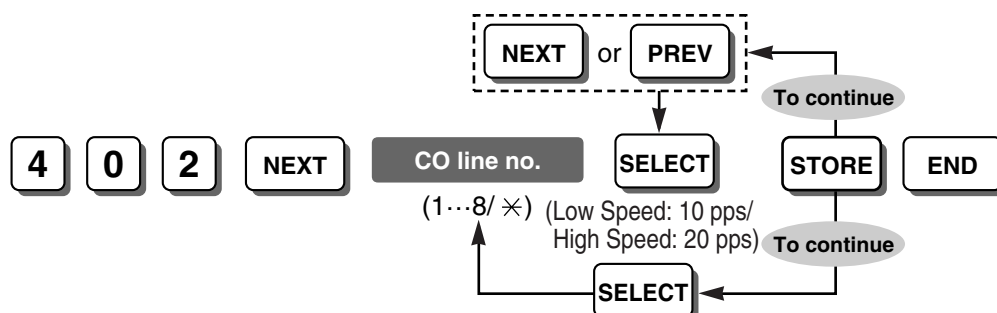
Feature & Programming References

1.5.2.4 Dial Type Selection
Dial Mode [401]

Host PBX Access Code [403]
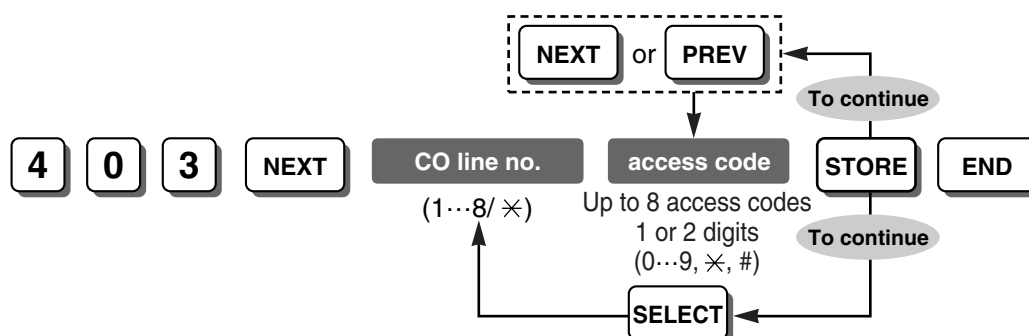
Note

Insert "," (CONF/MESSAGE button) between each access code using the comma button on the overlay.
For example, to store access codes 81 and 82 on outside (CO) line 1, programme as follows:
403 NEXT 1 81,82 STORE END

Feature & Programming References

1.5.2.7 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
Pause Time [417]

CO Line Group Number [404]
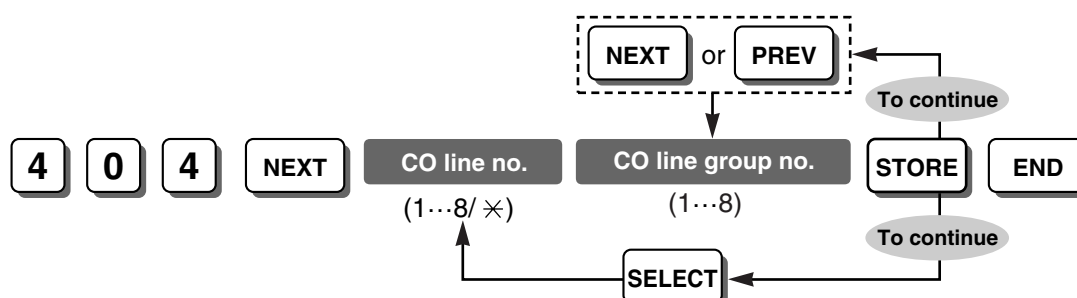
Feature & Programming References

1.5.3.3 Outside (CO) Line Access

2.2.2 Group

Flexible Outward Dialling—Day/Night/Lunch [405-407]
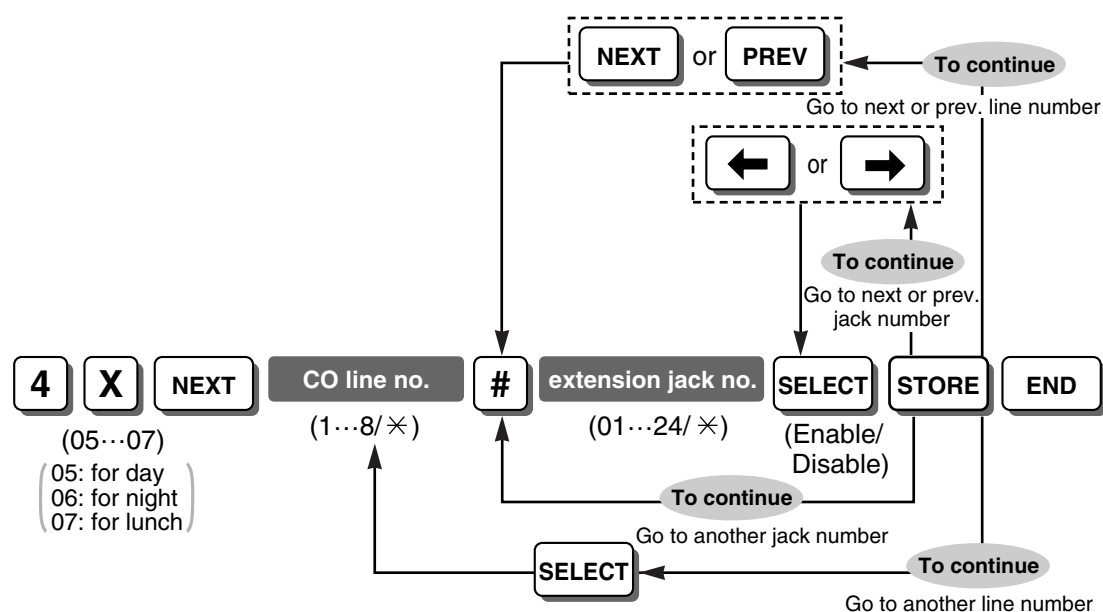
Note

It is impossible to disable all extensions for all outside (CO) lines in each time service mode (day/night/ lunch). In each mode, at least one extension must be allowed to make an outside (CO) line call.

Feature & Programming References

1.5.3.2 Line Preference—Outgoing

1.5.3.3 Outside (CO) Line Access

Flexible Ringing—Day/Night/Lunch [408-410]
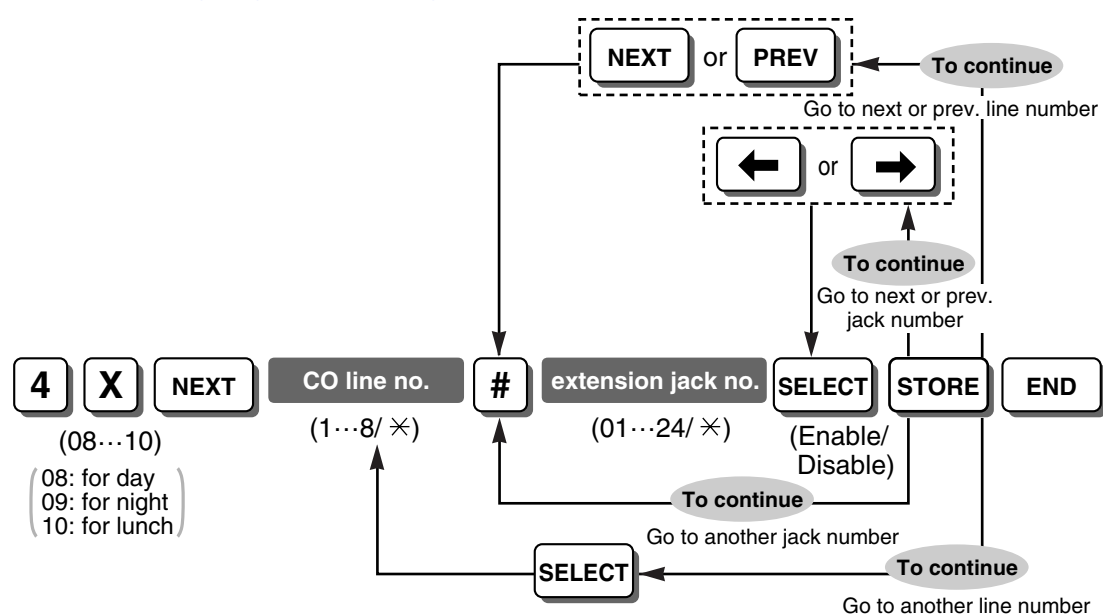
Feature & Programming References

1.1.3.2 Outside (CO) Line Ringing Selection

1.4.1.2 Line Preference—Incoming

Delayed Ringing—Day/Night/Lunch [411-413]
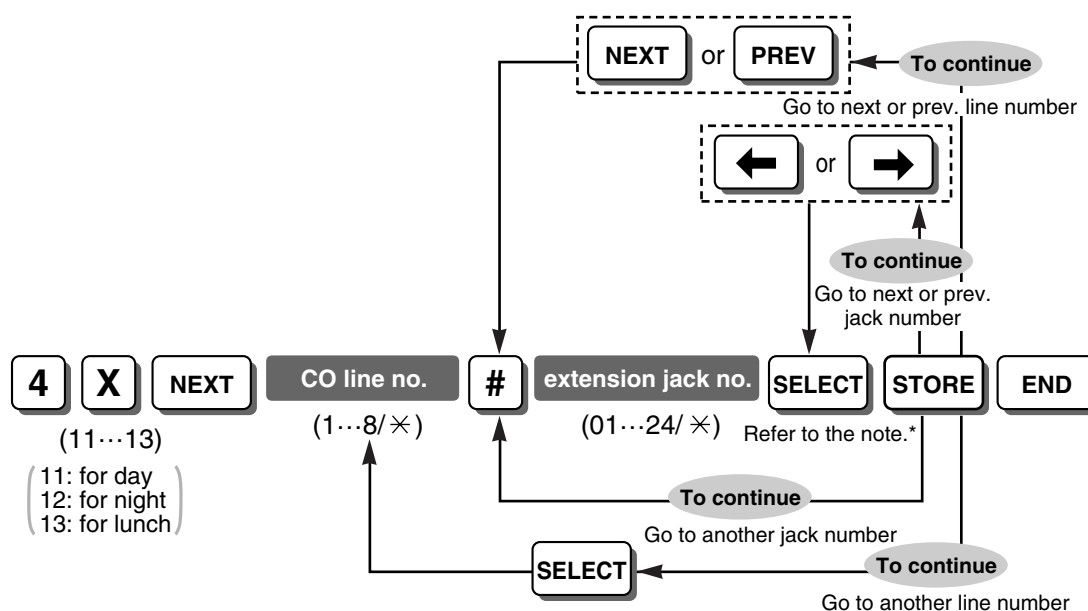
Note

> * The ringing start time that can be selected for extension(s) selected in Flexible Ringing—Day/Night/Lunch [408-410] depends on your country/area as follows:
> For United Kingdom: Immediately, 10 s, 20 s, 30 s
> For Others: Immediately, 5 s, 10 s, 15 s

Feature & Programming References

1.2.3 Direct Inward System Access (DISA) Ring

1.4.1.2 Line Preference—Incoming

CO Line Mode—Day/Night/Lunch [414-416]

⟨**To select Normal, UCD, and/or MODEM**⟩

⟨**To select BV**⟩

```
          ┌─────────────────────────┐
          │  NEXT   or   PREV  │◄─────┐
          └─────────────┬───────────┘      │
                        │             To continue
                        ▼                   │
┌───┐┌───┐┌──────┐┌──────────┐┌──────┐┌──────────────────┐┌───────┐┌─────┐
│ 4 ││ X ││ NEXT ││ CO line no.││SELECT││ common BV OGM no.││ STORE ││ END │
└───┘└───┘└──────┘└──────────┘└──────┘└──────────────────┘└───────┘└─────┘
(14…16)      (1…8/✶)   (BV)      (01…24)
14: for day                                         To continue
15: for night
16: for lunch           ┌──────┐
              ◄─────────│SELECT│◄────────
                        └──────┘
```

⟨**To select DISA**⟩

```
          ┌─────────────────────────┐
          │  NEXT   or   PREV  │◄─────┐
          └─────────────┬───────────┘      │
                        │             To continue
                        ▼                   │
┌───┐┌───┐┌──────┐┌──────────┐┌──────┐┌──────────────┐┌───────┐┌─────┐
│ 4 ││ X ││ NEXT ││ CO line no.││SELECT││ DISA OGM no. ││ STORE ││ END │
└───┘└───┘└──────┘└──────────┘└──────┘└──────────────┘└───────┘└─────┘
(14…16)      (1…8/✶)  (DISA)      (1…8)
14: for day                                         To continue
15: for night
16: for lunch           ┌──────┐
              ◄─────────│SELECT│◄────────
                        └──────┘
```

⟨**To select DIL**⟩

```
          ┌─────────────────────────┐
          │  NEXT   or   PREV  │◄─────┐
          └─────────────┬───────────┘      │
                        │             To continue
                        ▼                   │
┌───┐┌───┐┌──────┐┌──────────┐┌──────┐┌────────────────┐┌───────┐┌─────┐
│ 4 ││ X ││ NEXT ││ CO line no.││SELECT││ extension jack no.││ STORE ││ END │
└───┘└───┘└──────┘└──────────┘└──────┘└────────────────┘└───────┘└─────┘
(14…16)      (1…8/✶)   (DIL)      (01…24)
14: for day                                         To continue
15: for night
16: for lunch           ┌──────┐
              ◄─────────│SELECT│◄────────
                        └──────┘
```

Notes
- When you select "UCD", it is necessary to assign an extension group as the UCD group in UCD Group [520].
- After you select "BV", do not change Operator Assignment [008].

Feature & Programming References

1.1.1.1 Direct In Line (DIL)

1.2.2 Uniform Call Distribution (UCD)

1.15.6 Direct Inward System Access (DISA)

1.15.7 Built-in Voice Message (BV)

2.3.1 PC Programming

Flexible Ringing—Day/Night/Lunch [408-410]

Pause Time [417]

[4] [1] [7] [NEXT] → CO line no. (1···8/✳) → [NEXT or PREV] → [SELECT] (1.5/2.5/3.5/4.5 s) → *To continue* → [STORE] → [END]

To continue → [SELECT]
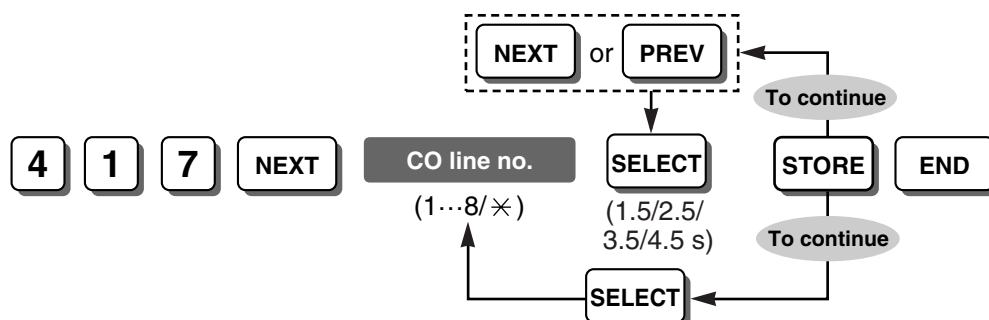
Feature & Programming References

1.5.2.6 Pause Insertion

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

Automatic Pause Insertion Code [311]

Host PBX Access Code [403]

Flash/Recall Time [418]

[4] [1] [8] [NEXT] → CO line no. (1···8/✳) → [NEXT or PREV] → [SELECT] (80/100/160/300/600/900/1200 ms) → *To continue* → [STORE] → [END]

To continue → [SELECT]
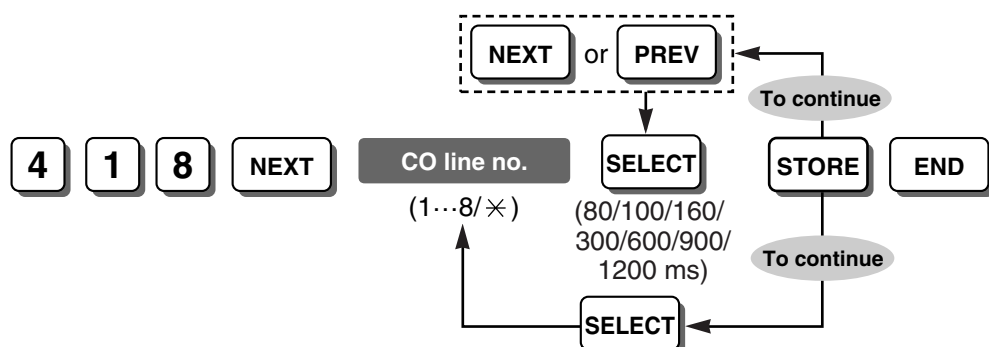
Feature & Programming References

1.10.6 Flash/Recall

1.10.7 External Feature Access (EFA)

Automatic Designated Line Access [419]
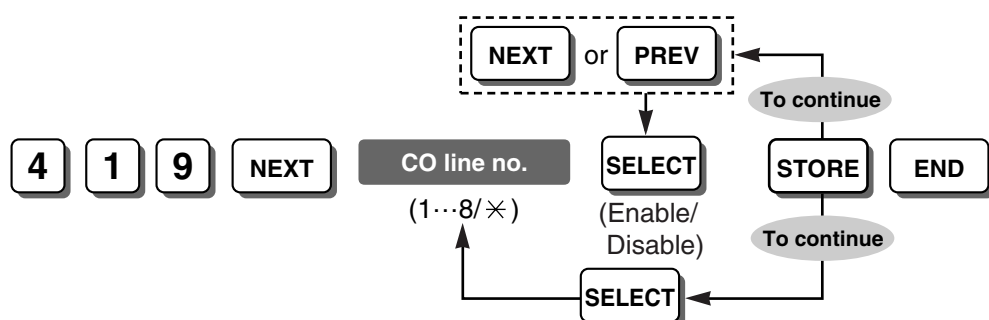
[4] [1] [9] [NEXT] → CO line no. (1···8/✳) → [NEXT or PREV] → [SELECT] (Enable/Disable) → *To continue* → [STORE] → [END]

To continue → [SELECT]

Feature & Programming References

1.5.3.2 Line Preference—Outgoing

1.5.3.3 Outside (CO) Line Access

Automatic Line Access [121]

CPC Signal Detection—Incoming [420]

```
                                    ┌── NEXT  or  PREV ──┐◄──────┐
                                    └────────────────────┘       │
                                                          To continue
  ┌─┐ ┌─┐ ┌─┐ ┌──────┐  ┌──────────┐ ┌─┐ ┌───────┐ ┌──────┐
  │4│ │2│ │0│ │ NEXT │  │CO line no.│ │X│ │ STORE │ │ END  │
  └─┘ └─┘ └─┘ └──────┘  └──────────┘ └─┘ └───────┘ └──────┘
                         (1···8/✱)   (00···75)  To continue
                              ▲          │             │
                              │      ┌────────┐         │
                              └──────│ SELECT │◄────────┘
                                     └────────┘
```
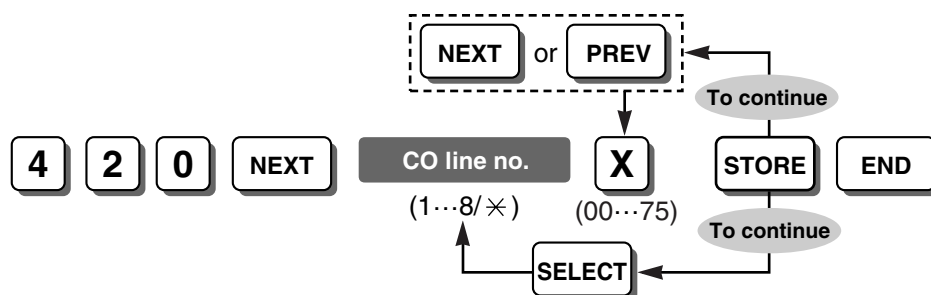
Note

CPC signal detect time selection number:

00: Disable; 01–75: 22–614 ms (detect time: 8 ms increments)

Feature & Programming References

1.10.10 Calling Party Control (CPC) Signal Detection

CPC Signal Detection—Outgoing [421]

```
                                    ┌── NEXT  or  PREV ──┐◄──────┐
                                    └────────────────────┘       │
                                                          To continue
  ┌─┐ ┌─┐ ┌─┐ ┌──────┐  ┌──────────┐ ┌────────┐ ┌───────┐ ┌──────┐
  │4│ │2│ │1│ │ NEXT │  │CO line no.│ │ SELECT │ │ STORE │ │ END  │
  └─┘ └─┘ └─┘ └──────┘  └──────────┘ └────────┘ └───────┘ └──────┘
                         (1···8/✱)    (Enable/
                              ▲        Disable)  To continue
                              │      ┌────────┐         │
                              └──────│ SELECT │◄────────┘
                                     └────────┘
```
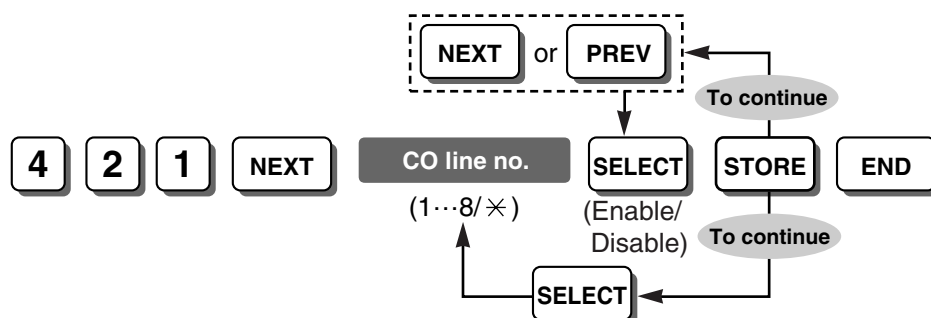
Note

When this programme is disabled, CPC Signal Detection is only activated during an incoming outside (CO) line call.

Feature & Programming References

1.10.10 Calling Party Control (CPC) Signal Detection

Disconnect Time [422]

```
                                    ┌── NEXT  or  PREV ──┐◄──────┐
                                    └────────────────────┘       │
                                                          To continue
  ┌─┐ ┌─┐ ┌─┐ ┌──────┐  ┌──────────┐ ┌────────┐ ┌───────┐ ┌──────┐
  │4│ │2│ │2│ │ NEXT │  │CO line no.│ │ SELECT │ │ STORE │ │ END  │
  └─┘ └─┘ └─┘ └──────┘  └──────────┘ └────────┘ └───────┘ └──────┘
                         (1···8/✱)   Refer to the note.*
                              ▲                   To continue
                              │      ┌────────┐         │
                              └──────│ SELECT │◄────────┘
                                     └────────┘
```
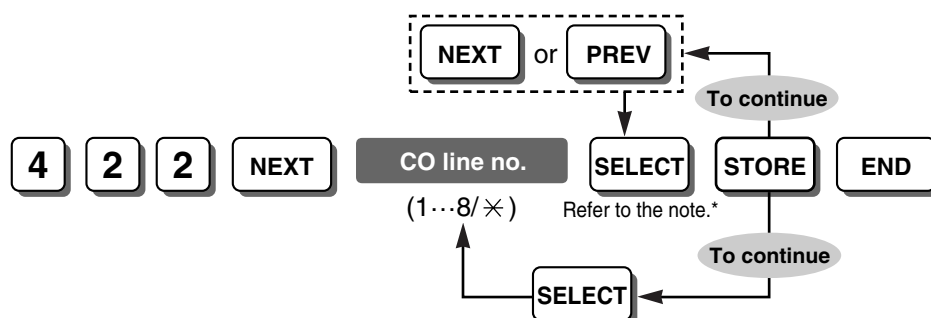
Notes

- * The disconnect signal lengths that can be selected depend on your country/area as follows:
  For United Kingdom: 0.5 s, 2.0 s, 4.0 s
  For South Africa: 0.8 s, 1.5 s, 4.0 s
  For Others: 0.5 s, 1.5 s, 4.0 s
- The time you select must be longer than the requirements of your telephone company or host PBX.

Feature & Programming References

1.10.6 Flash/Recall

CO Line Ring Tone Pattern [423]
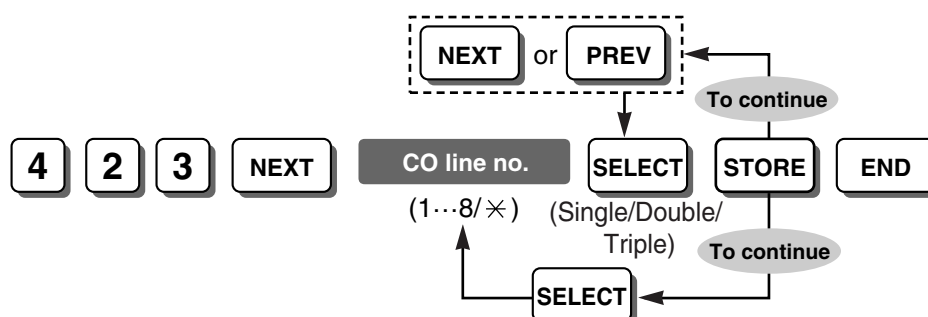
Note

It is recommended that you set a different ring tone pattern from the ring tone patterns specified in Extension Ring Tone Pattern [115] and Doorphone Ring Tone Pattern [706].

Feature & Programming References

1.1.3.3 Ring Tone Pattern Selection

Polarity Reverse Detection [424]
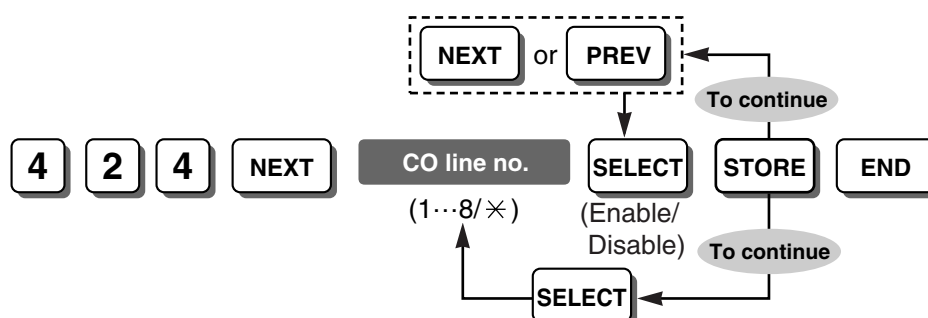
Feature & Programming References

1.5.2.5 Reverse Circuit

Collect Call Block [425] (Brazil only)

```
                           ┌─ NEXT  or  PREV ◄───┐
                           │                     │
                           ▼              To continue
 ┌4┐ ┌2┐ ┌5┐ ┌NEXT┐   CO line no.   SELECT   STORE   END
                      (1···8/✕)    (Enable/
                          ▲         Disable)  To continue
                          │
                        SELECT ◄─────────────┘
```
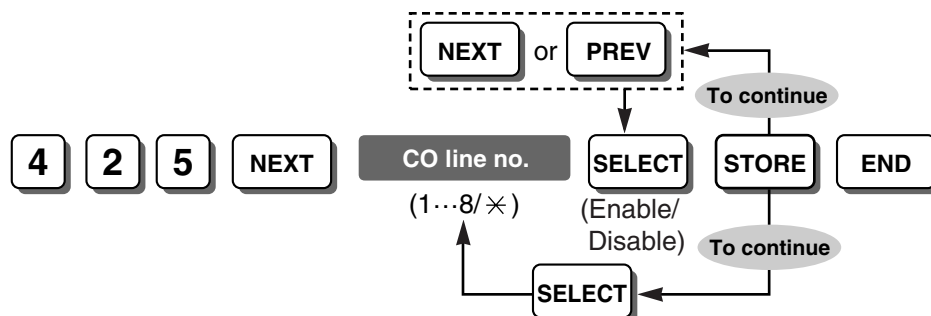
Note

This programme enables the PBX to automatically reject collect calls from the telephone company.

Distinctive Ring Detection (DRD) [426] (New Zealand only)
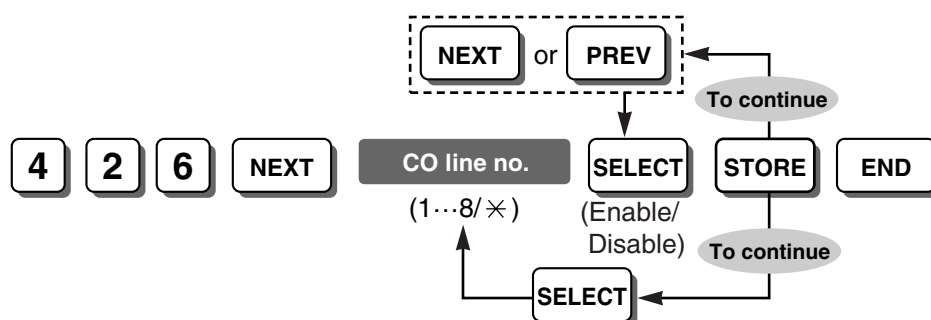
```
                           ┌─ NEXT  or  PREV ◄───┐
                           │                     │
                           ▼              To continue
 ┌4┐ ┌2┐ ┌6┐ ┌NEXT┐   CO line no.   SELECT   STORE   END
                      (1···8/✕)    (Enable/
                          ▲         Disable)  To continue
                          │
                        SELECT ◄─────────────┘
```

Feature & Programming References

1.1.3.4 Distinctive Ring Detection (DRD) for New Zealand

DRD Ring Pattern 2 Extension Assignment—Day/Night/Lunch [427-429] (New Zealand only)

DRD Ring Pattern 3 Extension Assignment—Day/Night/Lunch [430-432] (New Zealand only)

DRD Ring Pattern 2 Extension Assignment—Day/Night/Lunch [427-429] (New Zealand only)

```
                                           ┌─ NEXT  or  PREV ─┐ ◄──── To continue
                                                                     Go to next or prev. line number

                                              ┌─ ←  or  → ─┐
                                                                 To continue
                                                                 Go to next or prev.
                                                                 jack number

[4][X][NEXT]  [CO line no.][#][extension jack no.][SELECT][STORE][END]
   (27…29)    (1…8/✶)        (01…24/✶)   (Enable/
   27: for day                            Disable)
   28: for night                  To continue
   29: for lunch            Go to another jack number
                                                              To continue
                          [SELECT] ◄──────────────────       Go to another line number
```

Note

> This is effective only when the DRD feature is enabled in Distinctive Ring Detection (DRD) [426] (New Zealand only).

Feature & Programming References

1.1.3.4 Distinctive Ring Detection (DRD) for New Zealand

DRD Ring Pattern 3 Extension Assignment—Day/Night/Lunch [430-432] (New Zealand only)

```
                                           ┌─ NEXT  or  PREV ─┐ ◄──── To continue
                                                                     Go to next or prev. line number

                                              ┌─ ←  or  → ─┐
                                                                 To continue
                                                                 Go to next or prev.
                                                                 jack number

[4][X][NEXT]  [CO line no.][#][extension jack no.][SELECT][STORE][END]
   (30…32)    (1…8/✶)        (01…24/✶)   (Enable/
   30: for day                            Disable)
   31: for night                  To continue
   32: for lunch            Go to another jack number
                                                              To continue
                          [SELECT] ◄──────────────────       Go to another line number
```
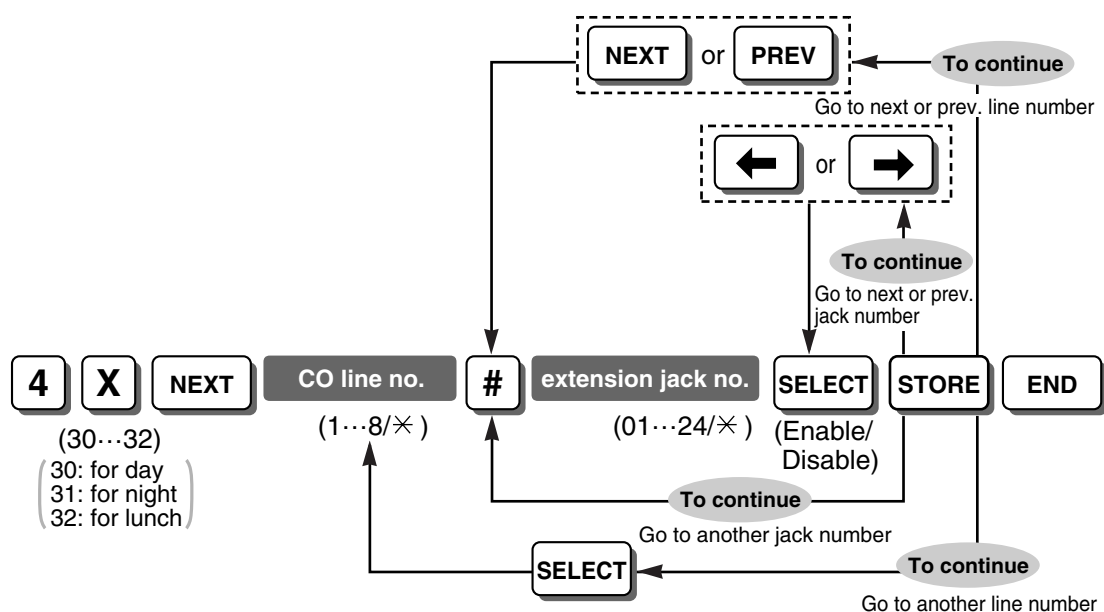
Note

This is effective only when the DRD feature is enabled in Distinctive Ring Detection (DRD) [426] (New Zealand only).

Feature & Programming References

1.1.3.4 Distinctive Ring Detection (DRD) for New Zealand

DRD Pattern 2 and 3 Ring Tone [433-434] (New Zealand only)

```
          ┌ NEXT  or  PREV ┐◄───────┐
          └────────┬───────┘        │
                   │            To continue
 ┌─┐ ┌─┐ ┌────┐ ┌────────────┐ ┌──────┐ ┌─────┐ ┌────┐
 │4│ │X│ │NEXT│ │ CO line no.│ │SELECT│ │STORE│ │END │
 └─┘ └─┘ └────┘ └────────────┘ └──────┘ └─────┘ └────┘
(33…34)         (1…8/✱)   (Single/Double/    │
33: for Pattern 2            Triple)    To continue
34: for Pattern 3                      ┌──────┐
                              ┌────────┤SELECT│◄──
                              └────────┘
```
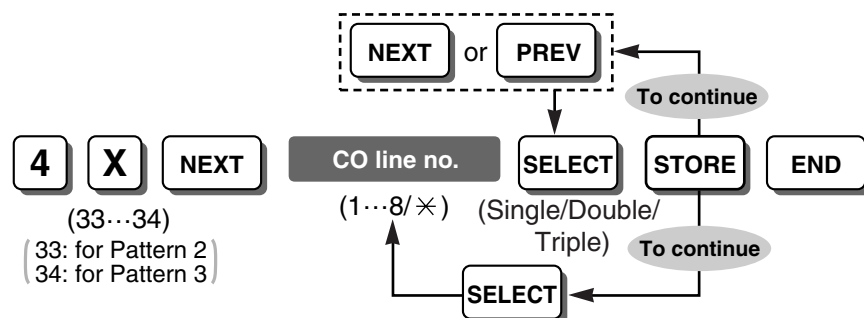
Feature & Programming References

1.1.3.4 Distinctive Ring Detection (DRD) for New Zealand

DISA IRNA to BV—Day/Night/Lunch [438-440]

```
                  ┌ NEXT  or  PREV ┐◄───────┐
                  └────────┬───────┘        │
                           │           To continue
 ┌─┐ ┌─┐ ┌────┐ ┌───────────┐ ┌──────────────────┐ ┌─────┐ ┌────┐
 │4│ │X│ │NEXT│ │ CO line no.│ │common BV OGM no. │ │STORE│ │END │
 └─┘ └─┘ └────┘ └───────────┘ └──────────────────┘ └─────┘ └────┘
(38…40)         (1…8/✱)        (BV01…24/           │
38: for day                    Not Stored)    To continue
39: for night            ┌──────┐
40: for lunch            │SELECT│◄──
                         └──────┘
```
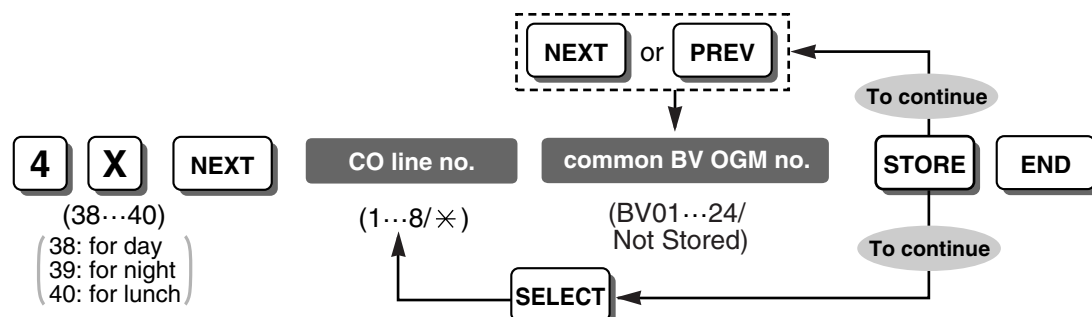
Feature & Programming References

1.15.7 Built-in Voice Message (BV)

DISA Incoming Call Dial Mode [500]

```
 ┌─┐ ┌─┐ ┌─┐ ┌────┐ ┌──────┐ ┌─────┐ ┌────┐
 │5│ │0│ │0│ │NEXT│ │SELECT│ │STORE│ │END │
 └─┘ └─┘ └─┘ └────┘ └──────┘ └─────┘ └────┘
                    (Without AA/
                      With AA)
```

Note

Without AA: Available destinations are extension numbers assigned in Extension Number [009], Outside (CO) Line Access numbers (9/0 [for New Zealand: 1 or 9], 81 through 88), and the Operator Call number (0 or 9)

With AA: Available destinations are numbers available in "Without AA" mode and numbers (0 through 9) assigned in DISA Built-in AA [501]

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Built-in AA [501]

```
                              ┌─────────────────┐
                              │ NEXT │ or │ PREV │ ◄──────────┐
                              └───┬─────────────┘      ┌───────────┐
                                  │                    │To continue│
                                  ▼            ┌─────────────┐
┌───┐┌───┐┌───┐ ┌──────┐ ┌──────┐ ┌──────┐  │ extension   │ ┌───────┐ ┌─────┐
│ 5 ││ 0 ││ 1 │ │ NEXT │ │AA no.│ │SELECT│  │ jack no.    │ │ STORE │ │ END │
└───┘└───┘└───┘ └──────┘ └──────┘ └──────┘  │ (01···24)   │ └───────┘ └─────┘
                         (0···9)  (Jack/GRP/ │    or       │
                                  3-level AA/ │ extension   │
                                  Not Stored) │ group no.   │
                                              │  (1···8)    │
                                              └─────────────┘
```
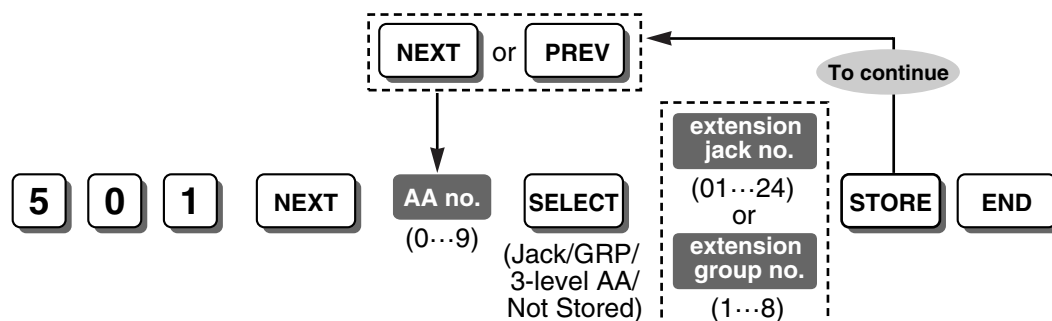
Note

If you would like to use the Automatic Line Access number (9/0 [for New Zealand: 1 or 9]) and/or Operator Call number in AA mode, do not assign AA number(s) that correspond to Automatic Line Access or Operator Call numbers (9 and/or 0).

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

FAX Connection [503]

```
┌───┐┌───┐┌───┐ ┌──────┐ ┌──────────────────┐ ┌───────┐ ┌─────┐
│ 5 ││ 0 ││ 3 │ │ NEXT │ │extension jack no. │ │ STORE │ │ END │
└───┘└───┘└───┘ └──────┘ │  (01···24/Disable)│ └───────┘ └─────┘
                         └──────────────────┘
```
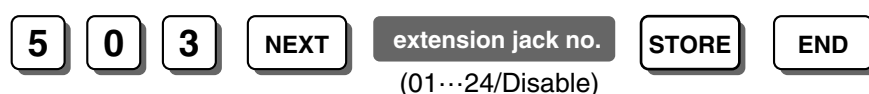
Notes

- To delete (disable) an extension jack number, press CLEAR in the extension jack number step.
- The assigned extension will automatically have the Data Line Security feature set.

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Delayed Answer Time [504]

```
┌───┐┌───┐┌───┐ ┌──────┐ ┌──────┐ ┌───────┐ ┌─────┐
│ 5 ││ 0 ││ 4 │ │ NEXT │ │SELECT│ │ STORE │ │ END │
└───┘└───┘└───┘ └──────┘ └──────┘ └───────┘ └─────┘
                         (0/3/6/12 s)
```

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Wait Time after OGM [505]

```
┌───┐┌───┐┌───┐ ┌──────┐ ┌──────┐ ┌───────┐ ┌─────┐
│ 5 ││ 0 ││ 5 │ │ NEXT │ │SELECT│ │ STORE │ │ END │
└───┘└───┘└───┘ └──────┘ └──────┘ └───────┘ └─────┘
                         (0/5/10/15 s)
```

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Busy Mode [506]

⟨**To select Disconnect or Call Waiting**⟩

| **5** | **0** | **6** | **NEXT** | **SELECT** | **STORE** | **END** |

(Disconnect/
Call Waiting)

⟨**To select DISA**⟩

| **5** | **0** | **6** | **NEXT** | **SELECT** | **DISA OGM no.** | **STORE** | **END** |

(DISA) (1⋯8)

Feature & Programming References

1.15.5 Outgoing Message (OGM) for DISA/UCD

1.15.6 Direct Inward System Access (DISA)

DISA Intercept Mode [507]

| **5** | **0** | **7** | **NEXT** | **SELECT** | **STORE** | **END** |

(Intercept/
Disconnect)

Feature & Programming References

1.1.1.2 Intercept Routing

1.15.6 Direct Inward System Access (DISA)

1.19 Voice Mail Features

DISA Ring Time before Intercept [508]
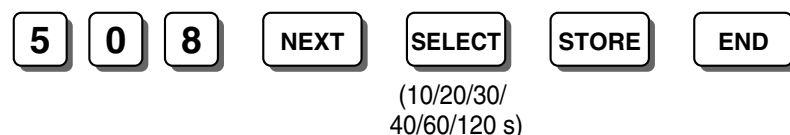
| **5** | **0** | **8** | **NEXT** | **SELECT** | **STORE** | **END** |

(10/20/30/
40/60/120 s)

Feature & Programming References

1.1.1.2 Intercept Routing

1.15.6 Direct Inward System Access (DISA)

DISA Intercept Mode [507]

DISA Ring Time after Intercept [509]
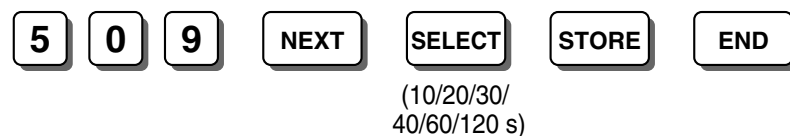
| **5** | **0** | **9** | **NEXT** | **SELECT** | **STORE** | **END** |

(10/20/30/
40/60/120 s)

Feature & Programming References

1.1.1.2 Intercept Routing

1.15.6 Direct Inward System Access (DISA)

DISA Intercept Mode [507]

DISA Ring Time before Intercept [508]

DISA No Dial Mode [510]
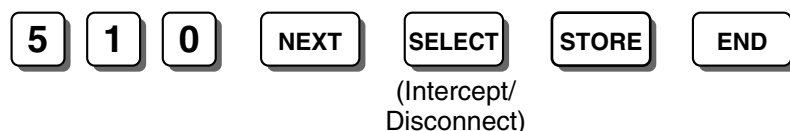
| 5 | 1 | 0 | NEXT | SELECT | STORE | END |

(Intercept/
Disconnect)

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Security Mode [511]

| 5 | 1 | 1 | NEXT | SELECT | STORE | END |

(Trunk/All/
None Security)
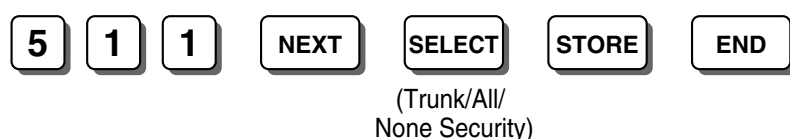
Note

Trunk Security: Requires the caller to enter a DISA security code assigned in DISA Security Code [512] before making an outside (CO) line call.

All Security: Requires the caller to enter a DISA security code before making either an outside (CO) line or intercom call.

No Security: Allows the caller to make either an outside (CO) line or intercom call without entering a DISA security code.

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Security Code [512]

| NEXT | or | PREV |

| 5 | 1 | 2 | NEXT | code no. | security code | STORE | END |

To continue

(1···4)   4···10 digits
           (0···9)

To continue

SELECT
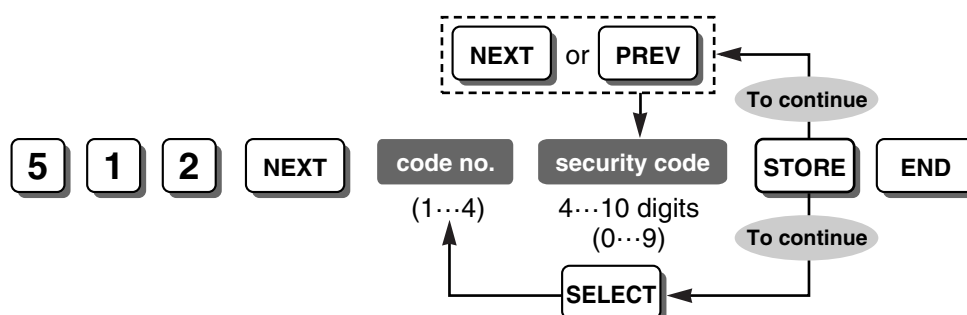
WARNING

There is a risk that fraudulent telephone calls will be made using the Outside-to-Outside (CO-to-CO) Line Call feature of DISA.

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:

a) **Enabling DISA security (Trunk Security or All Security).**

b) **Maintaining the secrecy of passwords.**

c) **Selecting passwords that are complex and random, so that they cannot be easily guessed.**

d) **Changing passwords regularly.**

<u>Note</u>

The number of digits for DISA security codes is selected in DISA Security Code Digits [530].

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Security Mode [511]

Cyclic Tone Detection [513]
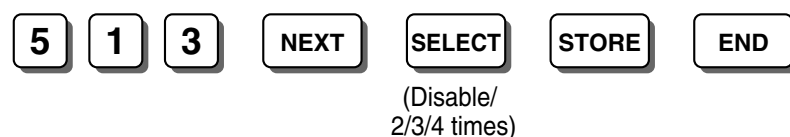
| 5 | 1 | 3 | NEXT | SELECT | STORE | END |

(Disable/
2/3/4 times)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

1.15.6 Direct Inward System Access (DISA)

FAX Tone Detection [514]

| 5 | 1 | 4 | NEXT | SELECT | STORE | END |

(1/2 time(s))

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

FAX Connection [503]

Intercept Time for Internal DISA [515]

| 5 | 1 | 5 | NEXT | SELECT | STORE | END |

(3/6/9 s)

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA No Dial Mode [510]

DISA Incoming Assignment [516]

NEXT or PREV

To continue

| 5 | 1 | 6 | NEXT | extension jack no. | SELECT | STORE | END |

(01···24/✻)   (Enable/
Disable)   To continue
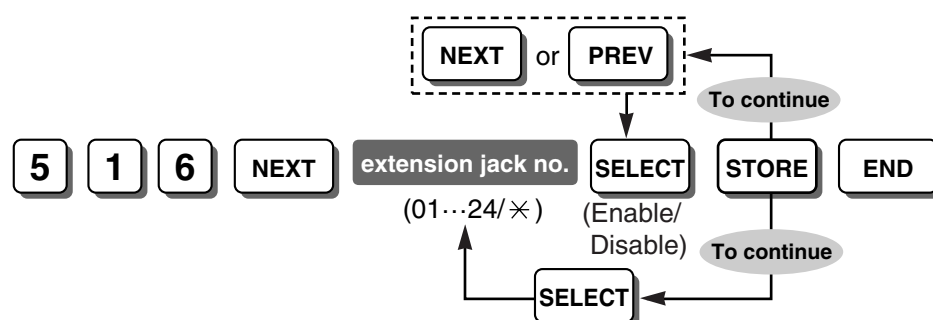
SELECT

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA AA Wait Time [517]

| **5** | **1** | **7** | **NEXT** | **SELECT** | **STORE** | **END** |

(1…5 s)

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Built-in AA [501]

DISA Tone after Security Code [518]

| **5** | **1** | **8** | **NEXT** | **SELECT** | **STORE** | **END** |

(Enable/Disable)

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Security Code [512]

OGM Mute Time [519]

| **5** | **1** | **9** | **NEXT** | **SELECT** | **STORE** | **END** |

(0/2/4/6 s)

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

UCD Group [520]

| **5** | **2** | **0** | **NEXT** | extension group no. | **STORE** | **END** |

(1…8)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

2.2.2 Group

UCD Busy Waiting Time [521]

| **5** | **2** | **1** | **NEXT** | waiting time | **SELECT** | **STORE** | **END** |

(1…32 min/1…59 s) (min/s)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

UCD Busy Mode [523]

UCD OGM Message Interval Time [522]

5 **2** **2** **NEXT** **SELECT** **STORE** **END**

(30 s/
1/1.5/2 min)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

UCD Busy Waiting Time [521]

UCD Busy Mode [523]

⟨**To select Intercept-Normal or Disconnect**⟩

5 **2** **3** **NEXT** **SELECT** **STORE** **END**

(Intercept-Normal/
Disconnect)

⟨**To select Intercept-DISA or Disconnect-OGM**⟩

5 **2** **3** **NEXT** **SELECT** **DISA/UCD OGM no.** **STORE** **END**

(Intercept-DISA/   (1⋯8)
Disconnect-OGM)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

UCD Intercept Mode [524]

5 **2** **4** **NEXT** **SELECT** **STORE** **END**

(Intercept/
Disconnect)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

UCD Ring Time before Intercept [525]

5 **2** **5** **NEXT** **SELECT** **STORE** **END**

(10/20/30/
40/60/120 s)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

UCD Intercept Mode [524]

UCD Ring Time after Intercept [526]

5 **2** **6** **NEXT** **SELECT** **STORE** **END**

(10/20/30/
40/60/120 s)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

UCD Intercept Mode [524]

UCD Waiting Message [527]

5 **2** **7** **NEXT** **UCD OGM no.** **STORE** **END**

(1···8/
Not Stored)

Feature & Programming References

1.2.2 Uniform Call Distribution (UCD)

1.15.5 Outgoing Message (OGM) for DISA/UCD

DISA Security Code Digits [530]

5 **3** **0** **NEXT** **SELECT** **STORE** **END**

(4···10 digits)

Note

When this setting is changed, DISA security codes that have already been assigned in DISA Security Code [512] will be cleared.

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

DISA Ringback Tone [531]

5 **3** **1** **NEXT** **SELECT** **STORE** **END**

(Ringback Tone/
Hold Music)

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

3-level AA Assignment [540-549]

Go to another third AA number

NEXT or **PREV**   Go to next or prev.
third AA number

**extension
jack no.**   To continue

(01···24)
or
**extension
group no.**

(1···8)

5 **X** **NEXT** **second
AA no.** **third
AA no.** **SELECT** **STORE** **END**

(40···49)   (0···9) (0···9, ✳) (Jack/GRP/
[40-49: AA no. 0-9]   [✳ : Skip] 3-level AA/
Not Stored)
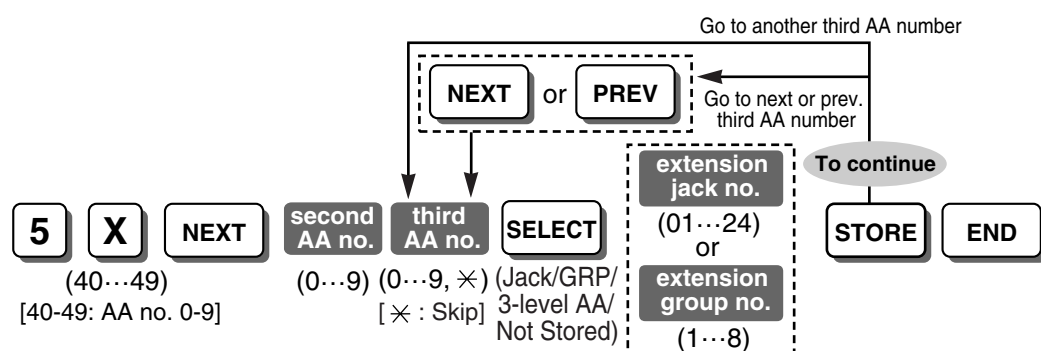
Notes

- This programme is available only when "3-level AA" is selected for each AA number in DISA Built-in AA [501].

- Only when you select "✳" as the third AA number, you can select "3-level AA" in the next step.

Feature & Programming References

1.15.6 Direct Inward System Access (DISA)

Clear All OGMs of DISA/UCD [599]

5 **9** **9** **NEXT** **STORE** **END**

Feature & Programming References

1.15.5 Outgoing Message (OGM) for DISA/UCD

Extension Group [600]

6 **0** **0** **NEXT** extension jack no. extension group no. **STORE** **END**
(01···24/✳) (1···8)

SELECT

To continue
To continue
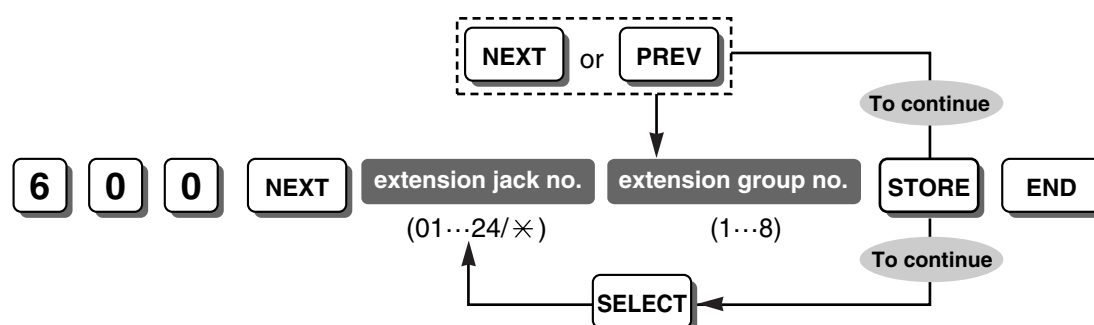
Feature & Programming References

1.2.1 Idle Extension Hunting
2.2.2 Group

TRS-COS—Day/Night/Lunch [601-603]

6 **X** **NEXT** extension jack no. COS no. **STORE** **END**
(01···03) (01···24/✳) (1···5)

(01: for day
  02: for night
  03: for lunch)

SELECT

To continue
To continue
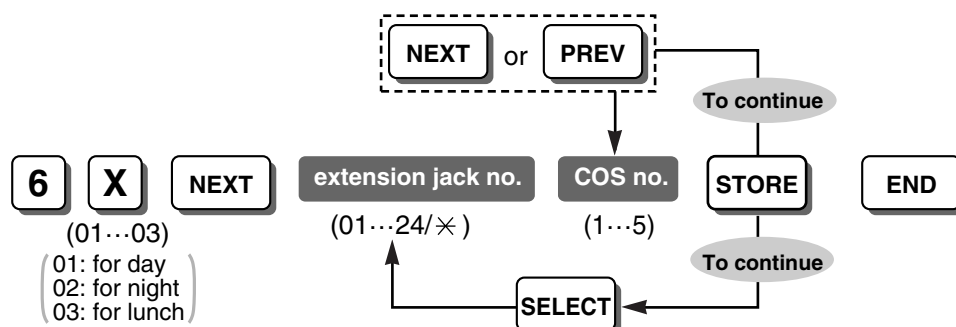
Feature & Programming References

1.8.1 Toll Restriction (TRS)
2.2.1 Class of Service (COS)

Extension Name [604]
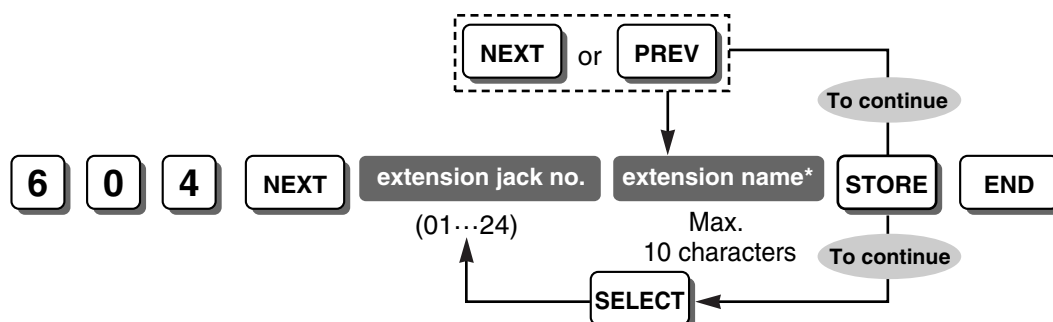
Note

* An extension name can be stored using a PT's dialling buttons. The displayed character varies depending on the number of times that the dialling button is pressed. It is possible to toggle between "Alphabet mode" and "Numeral mode" by pressing SELECT.

Feature & Programming References

1.5.1.1 Intercom Call

3.3.1 Programming Instructions—Entering Characters

Account Code Mode [605]
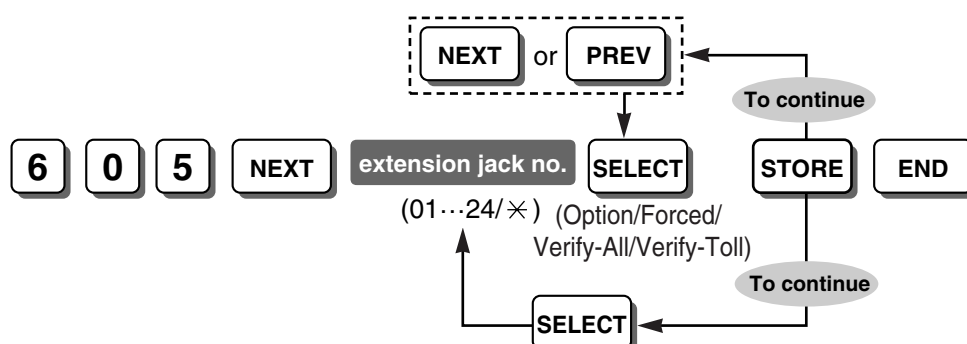
Feature & Programming References

1.5.2.3 Account Code Entry

1.8.2 Toll Restriction (TRS) Override by Account Code

Account Code [310]

Call Transfer to CO Line [606]
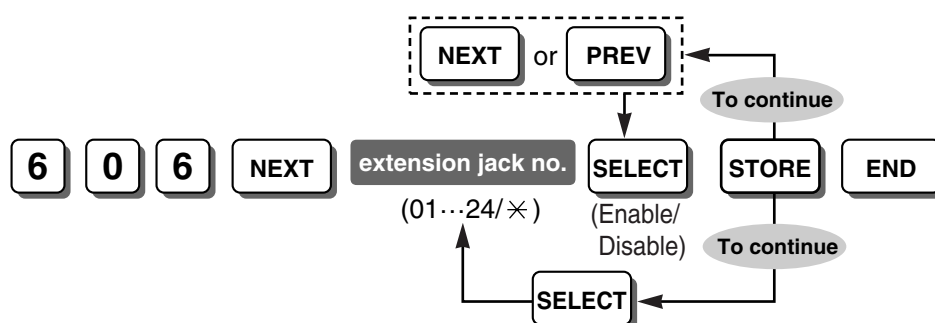
Feature & Programming References

1.11.1 Call Transfer

1.13.1.2 Conference

Call Forwarding to CO Line [607]

```
┌─────────────────────────────┐
│  NEXT   or   PREV  │◄──────────┐
└─────────────────────────────┘           │
                    │            To continue
                    ▼
6  0  7   NEXT   extension jack no.   SELECT   STORE   END
                 (01···24/✳)        (Enable/
                    ▲               Disable)   To continue
                    │                              │
                  SELECT  ◄─────────────────────────┘
```
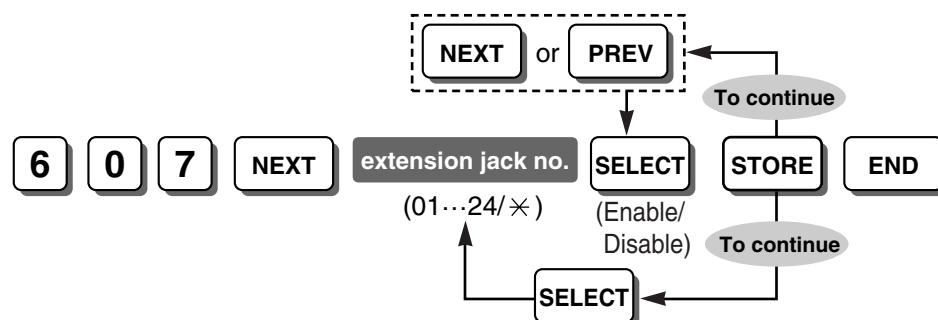
Feature & Programming References

1.3.1.2 Call Forwarding (FWD)

Executive Busy Override [608]

```
┌─────────────────────────────┐
│  NEXT   or   PREV  │◄──────────┐
└─────────────────────────────┘           │
                    │            To continue
                    ▼
6  0  8   NEXT   extension jack no.   SELECT   STORE   END
                 (01···24/✳)        (Enable/
                    ▲               Disable)   To continue
                    │                              │
                  SELECT  ◄─────────────────────────┘
```
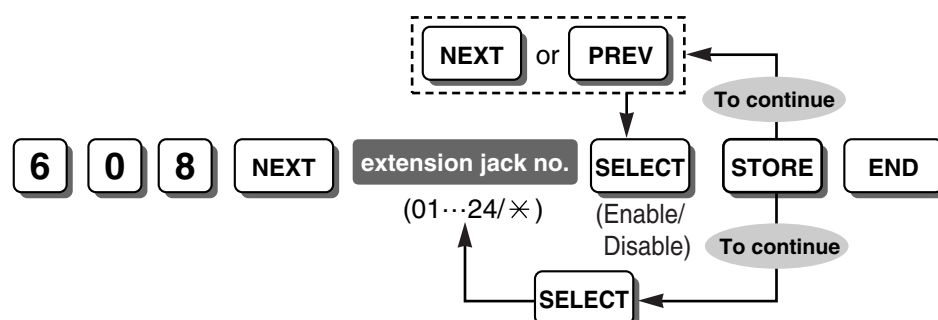
Feature & Programming References

1.7.2 Executive Busy Override

DND Override [609]

```
┌─────────────────────────────┐
│  NEXT   or   PREV  │◄──────────┐
└─────────────────────────────┘           │
                    │            To continue
                    ▼
6  0  9   NEXT   extension jack no.   SELECT   STORE   END
                 (01···24/✳)        (Enable/
                    ▲               Disable)   To continue
                    │                              │
                  SELECT  ◄─────────────────────────┘
```
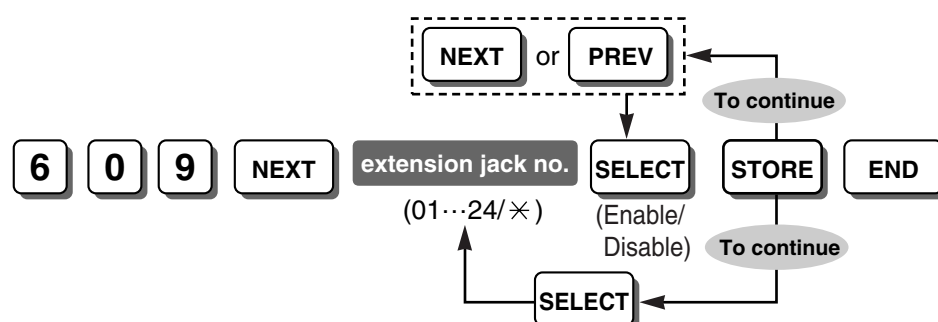
Feature & Programming References

1.3.1.3 Do Not Disturb (DND)

Parallelled Telephone [610]

| NEXT | or | PREV |

To continue

| 6 | 1 | 0 | NEXT | extension jack no. (01···24/✳) | SELECT (Enable/ Disable) | STORE | END |

To continue

SELECT
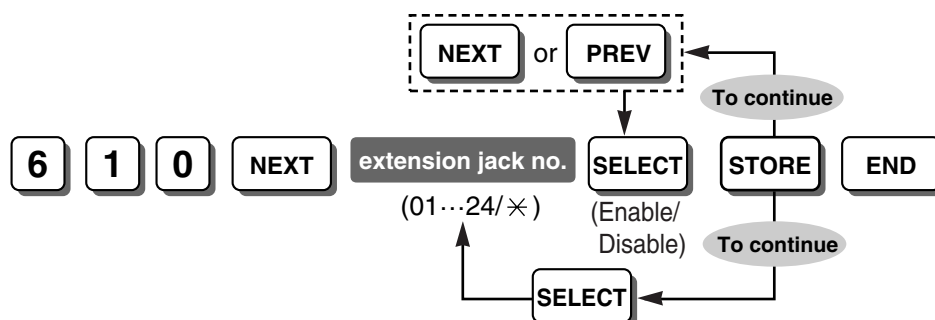
Feature & Programming References

1.10.9 Parallelled Telephone

TAM Extension [611]

| NEXT | or | PREV |

To continue

| 6 | 1 | 1 | NEXT | extension jack no. (01···24/✳) | SELECT (Enable/ Disable) | STORE | END |

To continue

SELECT
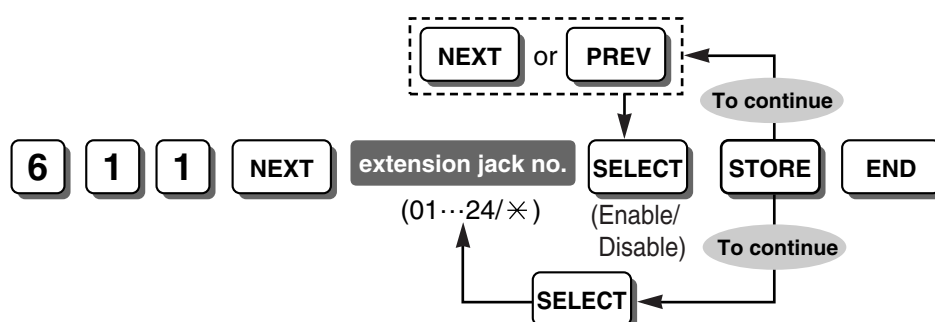
Feature & Programming References

1.4.1.3 Call Pickup

Room Monitor [612]

| NEXT | or | PREV |

To continue

| 6 | 1 | 2 | NEXT | extension jack no. (01···24/✳) | SELECT (Enable/ Disable) | STORE | END |

To continue

SELECT
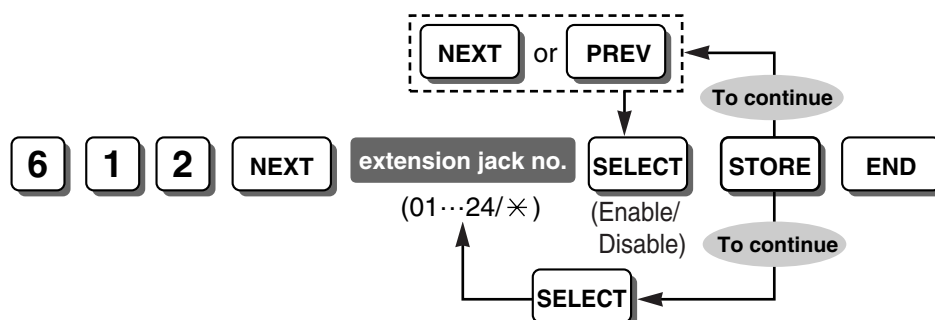
Feature & Programming References

1.10.2 Room Monitor

CO Line Call Duration Limitation [613]

```
                      ┌─────────────────────┐
                      │  NEXT  │ or │ PREV │◄──────────┐
                      └─────────────────────┘          │
                                  │              To continue
                                  ▼
  ┌6┐ ┌1┐ ┌3┐  NEXT   extension jack no.  SELECT    STORE    END
                      (01···24/✻)          (Enable/
                                           Disable)   To continue
                           ▲
                           └──────────── SELECT ◄──────┘
```
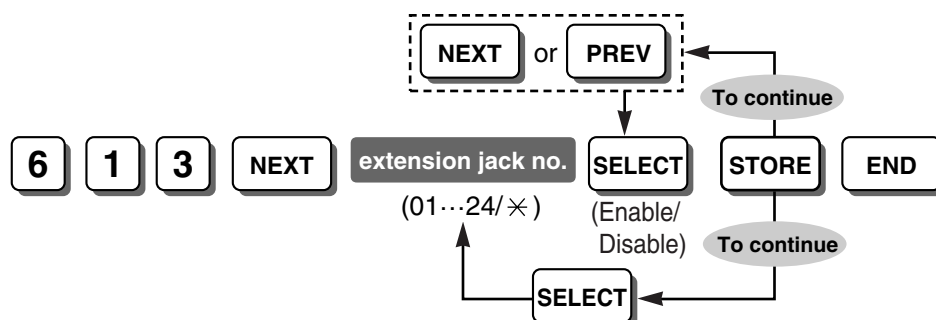
Feature & Programming References

1.10.8 Outside (CO) Line Call Limitation

Extension-to-CO Line Call Duration [212]

Internal Pulse Detection [614]

```
                      ┌─────────────────────┐
                      │  NEXT  │ or │ PREV │◄──────────┐
                      └─────────────────────┘          │
                                  │              To continue
                                  ▼
  ┌6┐ ┌1┐ ┌4┐  NEXT   extension jack no.  SELECT    STORE    END
                      (01···24/✻)          (Enable/
                                           Disable)   To continue
                           ▲
                           └──────────── SELECT ◄──────┘
```
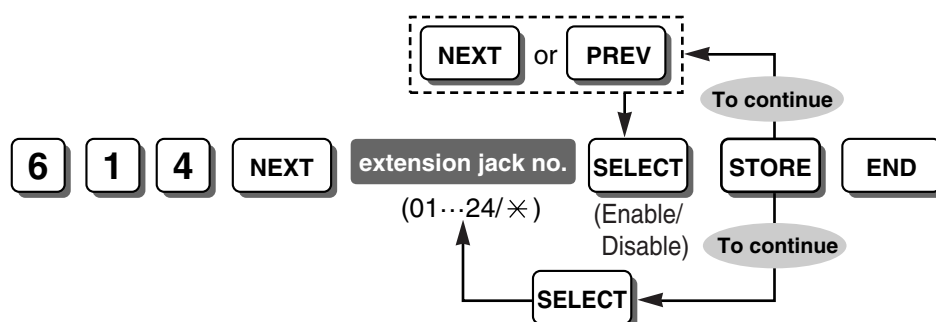
Feature & Programming References

1.12.1 Call Hold

Hookswitch Flash Timing Range [207]

LCD Language [615]

```
                      ┌─────────────────────┐
                      │  NEXT  │ or │ PREV │◄──────────┐
                      └─────────────────────┘          │
                                  │              To continue
                                  ▼
  ┌6┐ ┌1┐ ┌5┐  NEXT   extension jack no.  SELECT    STORE    END
                      (01···24/✻)  Refer to the note.*   To continue
                           ▲
                           └──────────── SELECT ◄──────┘
```
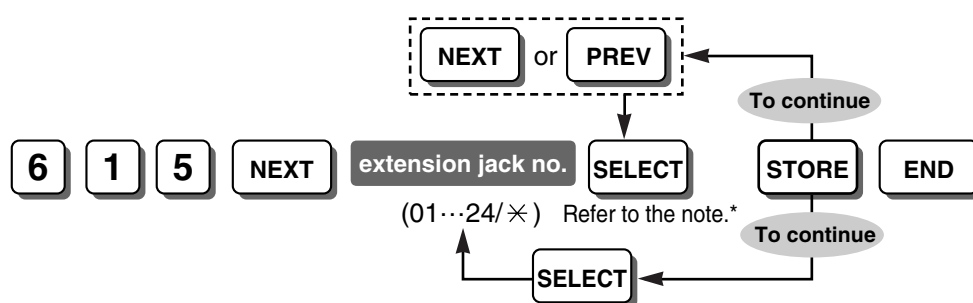
<u>Notes</u>

- * The following languages are available for the LCD:
  English; Spanish; Portuguese; Russian; Greek; Czech; Hungarian; Slovak; Polish; Italian; Ukrainian
  Selections vary depending on your country/area.
- Russian display is only available for the KX-T7730/KX-T7735RU.
- When "Russian" or "Ukrainian" is selected in this programme, during intercom calls, the calling extension's name assigned in Extension Name in Cyrillic [616] is displayed at the called extension.

When another language is selected, the calling extension's name assigned in Extension Name [604] is displayed.

Extension Name in Cyrillic [616]

| NEXT | or | PREV |

| 6 | 1 | 6 | NEXT | extension jack no. (01···24) | extension name* Max. 10 characters | STORE | END |

To continue

To continue

SELECT
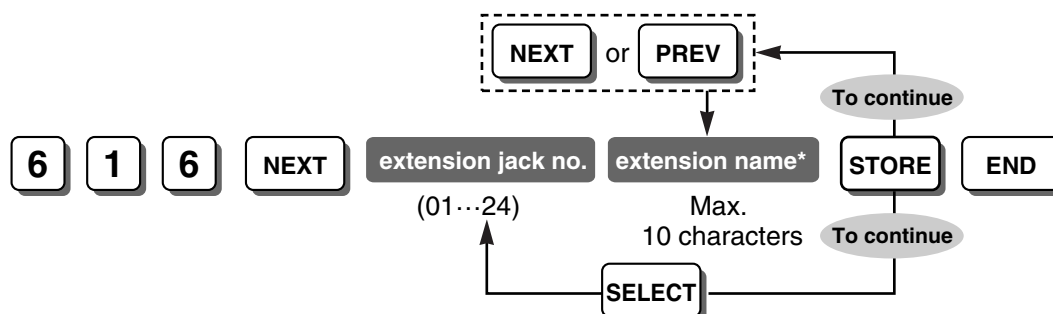
Notes

- • * An extension name can be stored using a PT's dialling buttons. The displayed character varies depending on the number of times that the dialling button is pressed. It is possible to toggle between "Alphabet mode", "Cyrillic alphabet mode", and "Numeral mode" by pressing SELECT.
- • Russian display is only available for the KX-T7730/KX-T7735RU.

Feature & Programming References

1.5.1.1 Intercom Call

3.3.1 Programming Instructions—Entering Characters

LCD Language [615]

Message Waiting for Another Extension [618]

| NEXT | or | PREV |

| 6 | 1 | 8 | NEXT | extension jack no. (01···24/✶) | SELECT (Enable/ Disable) | STORE | END |

To continue

To continue

SELECT
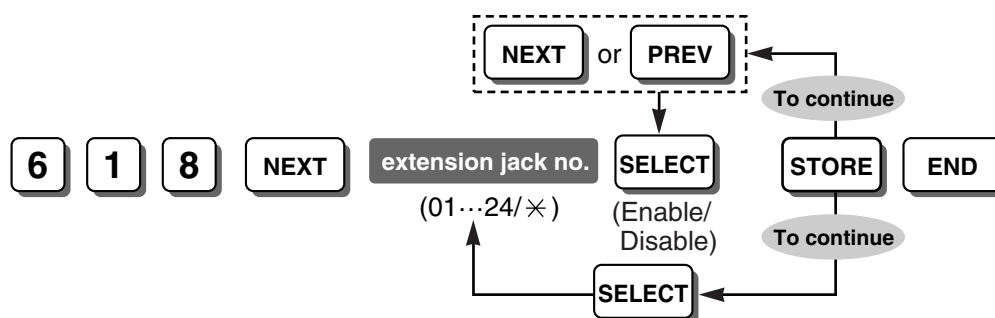
Feature & Programming References

1.17.1 Message Waiting

SLT Message Waiting [619]

```
                              ┌─────────────────────┐
                              │  NEXT  │ or │ PREV  │◀──────┐
                              └─────────────────────┘       │
                                        │             ┌───────────┐
                                        ▼             │To continue│
 ┌─┐ ┌─┐ ┌─┐ ┌──────┐ ┌──────────────┐ ┌────────┐    └───────────┘  ┌───────┐ ┌──────┐
 │6│ │1│ │9│ │ NEXT │ │extension jack no.│ │ SELECT │   │ STORE │ │ END  │
 └─┘ └─┘ └─┘ └──────┘ └──────────────┘ └────────┘              └───────┘ └──────┘
                        (01···24/✶)   (Enable/    ┌───────────┐
                               ▲       Disable)   │To continue│
                               │                  └───────────┘
                               │      ┌────────┐        │
                               └──────│ SELECT │◀───────┘
                                      └────────┘
```
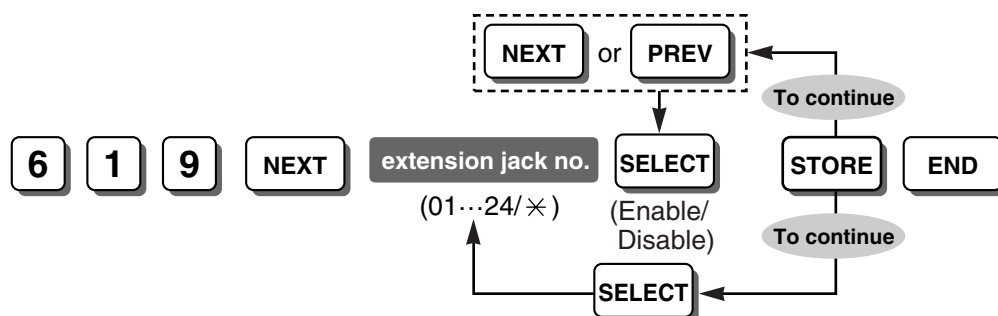
Feature & Programming References
1.17.1 Message Waiting

LCS Recording Mode Set [620]

```
                              ┌─────────────────────┐
                              │  NEXT  │ or │ PREV  │◀──────┐
                              └─────────────────────┘       │
                                        │             ┌───────────┐
                                        ▼             │To continue│
 ┌─┐ ┌─┐ ┌─┐ ┌──────┐ ┌──────────────┐ ┌────────┐    └───────────┘  ┌───────┐ ┌──────┐
 │6│ │2│ │0│ │ NEXT │ │extension jack no.│ │ SELECT │   │ STORE │ │ END  │
 └─┘ └─┘ └─┘ └──────┘ └──────────────┘ └────────┘              └───────┘ └──────┘
                        (01···24/✶)  (Stop recording/
                               ▲      Keep recording)  ┌───────────┐
                               │                       │To continue│
                               │      ┌────────┐       └───────────┘
                               └──────│ SELECT │◀──────┘
                                      └────────┘
```
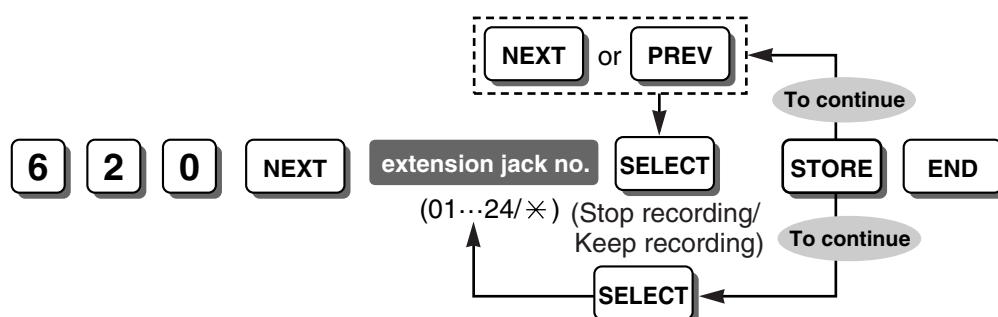
Feature & Programming References
1.19.1 Voice Mail APT Integration

BV Resource [621]

```
                              ┌─────────────────────┐
                              │  NEXT  │ or │ PREV  │◀──────┐
                              └─────────────────────┘       │
                                        │             ┌───────────┐
                                        ▼             │To continue│
 ┌─┐ ┌─┐ ┌─┐ ┌──────┐ ┌──────────────┐ ┌────────┐    └───────────┘  ┌───────┐ ┌──────┐
 │6│ │2│ │1│ │ NEXT │ │extension jack no.│ │ SELECT │   │ STORE │ │ END  │
 └─┘ └─┘ └─┘ └──────┘ └──────────────┘ └────────┘              └───────┘ └──────┘
                        (01···24/✶)  (Resource 1/2)
                               ▲                       ┌───────────┐
                               │                       │To continue│
                               │      ┌────────┐       └───────────┘
                               └──────│ SELECT │◀──────┘
                                      └────────┘
```
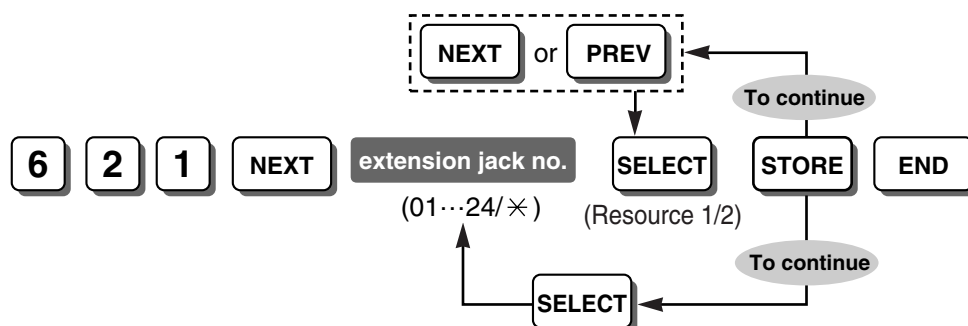
Feature & Programming References
1.15.7 Built-in Voice Message (BV)

BV for Extension [622]

```
                    ┌─────────────────────────┐
                    │  NEXT  or  PREV  │◄──────────┐
                    └─────────────────────────┘          │
                              │                To continue
                              ▼
┌─┐ ┌─┐ ┌─┐ ┌──────┐ ┌───────────────┐ ┌────────┐   ┌───────┐ ┌─────┐
│6│ │2│ │2│ │ NEXT │ │ extension jack no.│ │ SELECT │   │ STORE │ │ END │
└─┘ └─┘ └─┘ └──────┘ │  (01···24/ ✳ )  │ │(Enable/ │   └───────┘ └─────┘
                     └───────────────┘ │ Disable)│   To continue
                              ▲           └────────┘       │
                              │         ┌────────┐         │
                              └─────────│ SELECT │◄────────┘
                                        └────────┘
```
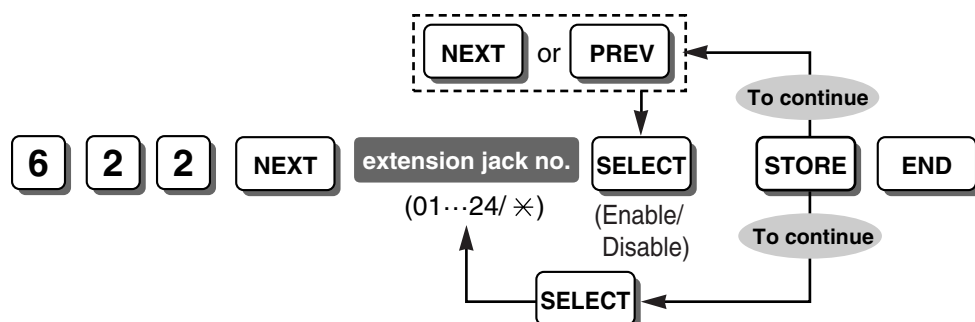
Feature & Programming References

1.15.7 Built-in Voice Message (BV)

BV Access Code through CO Line [625]

```
                    ┌─────────────────────────┐
                    │  NEXT  or  PREV  │◄──────────┐
                    └─────────────────────────┘          │
                              │                To continue
                              ▼
┌─┐ ┌─┐ ┌─┐ ┌──────┐ ┌─────────┐ ┌─────────────┐ ┌───────┐ ┌─────┐
│6│ │2│ │5│ │ NEXT │ │extension│ │voice message│ │ STORE │ │ END │
└─┘ └─┘ └─┘ └──────┘ │jack no. │ │access code  │ └───────┘ └─────┘
                     │(01···24)│ │4···10 digits│ To continue
                     └─────────┘ │ (0···9, #)  │     │
                          ▲      └─────────────┘     │
                          │         ┌────────┐       │
                          └─────────│ SELECT │◄──────┘
                                    └────────┘
```
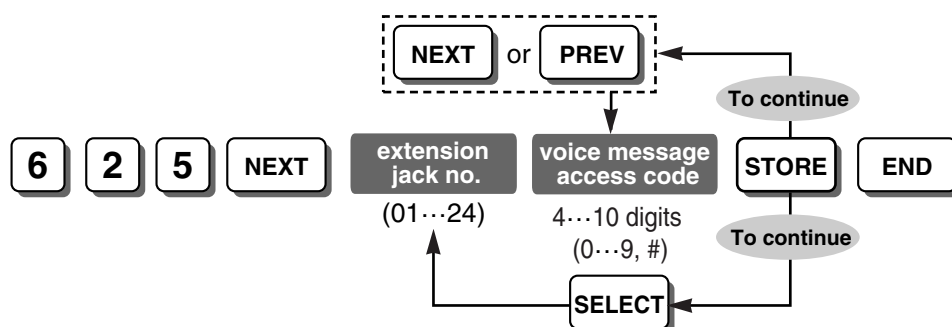
Notes

- A voice message access code should be different from the corresponding extension number. If the voice message access code is the same as an extension number, dialling that number will access the extension, not the voice message area.

- A code that starts with a number already assigned as another code cannot be used. For example, if you assign the codes "1234" and "12345", "12345" cannot be selected since "1234" will be recognised first.

Feature & Programming References

1.15.7 Built-in Voice Message (BV)

BGM Control for APT [626]

```
                    ┌─────────────────────────┐
                    │  NEXT  or  PREV  │◄──────────┐
                    └─────────────────────────┘          │
                              │                To continue
                              ▼
┌─┐ ┌─┐ ┌─┐ ┌──────┐ ┌───────────────┐ ┌────────┐   ┌───────┐ ┌─────┐
│6│ │2│ │6│ │ NEXT │ │ extension jack no.│ │ SELECT │   │ STORE │ │ END │
└─┘ └─┘ └─┘ └──────┘ │  (01···24/ ✳ )  │ │(Enable/ │   └───────┘ └─────┘
                     └───────────────┘ │ Disable)│   To continue
                              ▲           └────────┘       │
                              │         ┌────────┐         │
                              └─────────│ SELECT │◄────────┘
                                        └────────┘
```
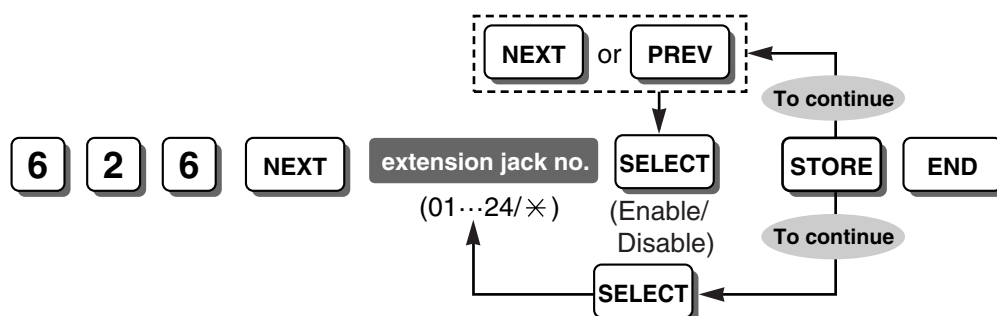
Feature & Programming References

1.15.4 Background Music (BGM)

SLT Ring Wait Time for New Call [627]
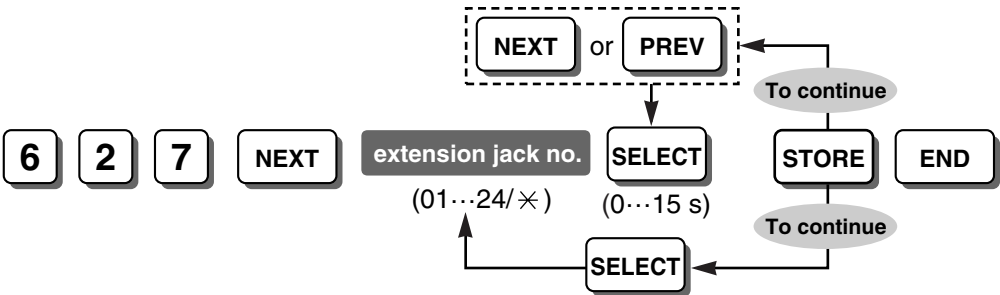
```
            ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
            │ NEXT   or  PREV   │◄─────────┐
            └ ─ ─ ─ ─ ─ ─│─ ─ ─ ┘  To continue
                         ▼
 6  2  7   NEXT   extension jack no.   SELECT    STORE    END
                  (01…24/∗)            (0…15 s)
                         ▲          To continue
                         │              │
                      SELECT ◄──────────┘
```

Feature & Programming References
1.16.1 Caller ID

SLT Caller ID [628]

```
            ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
            │ NEXT   or  PREV   │◄─────────┐
            └ ─ ─ ─ ─ ─ ─│─ ─ ─ ┘  To continue
                         ▼
 6  2  8   NEXT   extension jack no.   SELECT    STORE    END
                  (01…24/∗)            (Enable/
                                       Disable)
                         ▲          To continue
                         │              │
                      SELECT ◄──────────┘
```
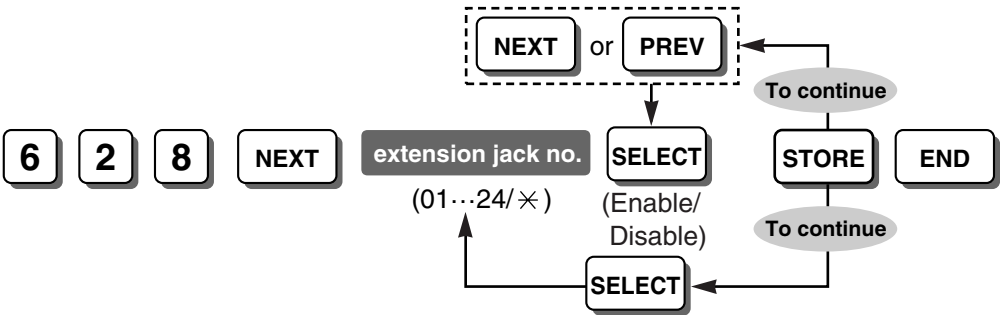
Feature & Programming References
1.16.1 Caller ID

SLT Fixed Bell Pattern [629]

```
            ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
            │ NEXT   or  PREV   │◄─────────┐
            └ ─ ─ ─ ─ ─ ─│─ ─ ─ ┘  To continue
                         ▼
 6  2  9   NEXT   extension jack no.   SELECT    STORE    END
                  (01…24/∗)            (Disable/
                                       Single/Double)
                         ▲          To continue
                         │              │
                      SELECT ◄──────────┘
```
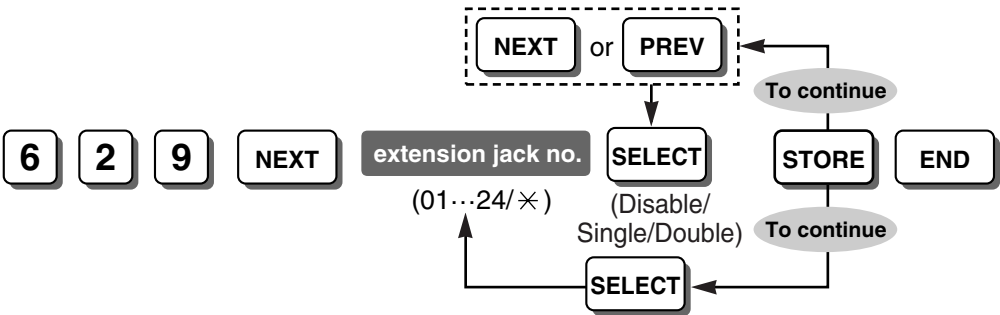
Feature & Programming References
1.1.3.3 Ring Tone Pattern Selection
1.16.1 Caller ID

Doorphone Ringing—Day/Night/Lunch [700-702]

```
                                    ┌─────────────────────────┐
                                    │  NEXT  │ or │  PREV  │◄──── To continue
                                    └─────────────────────────┘
                                           Go to next or prev. doorphone number
                                    ┌─────────────────────────┐
                                    │  ◄─  │ or │  ─►  │
                                    └─────────────────────────┘
                                              │
                                        To continue
                                        Go to next or prev.
                                        jack number

 ┌───┐ ┌───┐ ┌──────┐  ┌─────────────┐ ┌───┐ ┌─────────────────┐ ┌────────┐ ┌───────┐ ┌─────┐
 │ 7 │ │ X │ │ NEXT │  │doorphone no.│ │ # │ │extension jack no.│ │ SELECT │ │ STORE │ │ END │
 └───┘ └───┘ └──────┘  └─────────────┘ └───┘ └─────────────────┘ └────────┘ └───────┘ └─────┘
   (00···02)              (1···4/ ✱)          (01···24/ ✱)       (Enable/
  00: for day                                                     Disable)
  01: for night                               To continue
  02: for lunch                               Go to another jack number

                          SELECT  ◄─────  To continue
                                          Go to another doorphone number
```
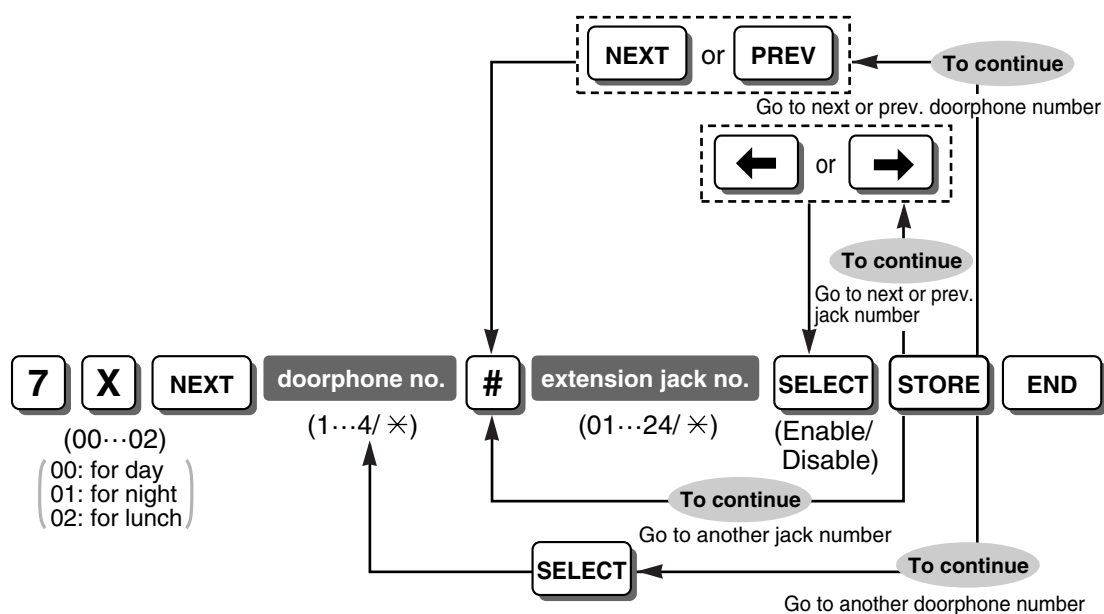
Feature & Programming References

1.15.1 Doorphone Call

Door Opener—Day/Night/Lunch [703-705]
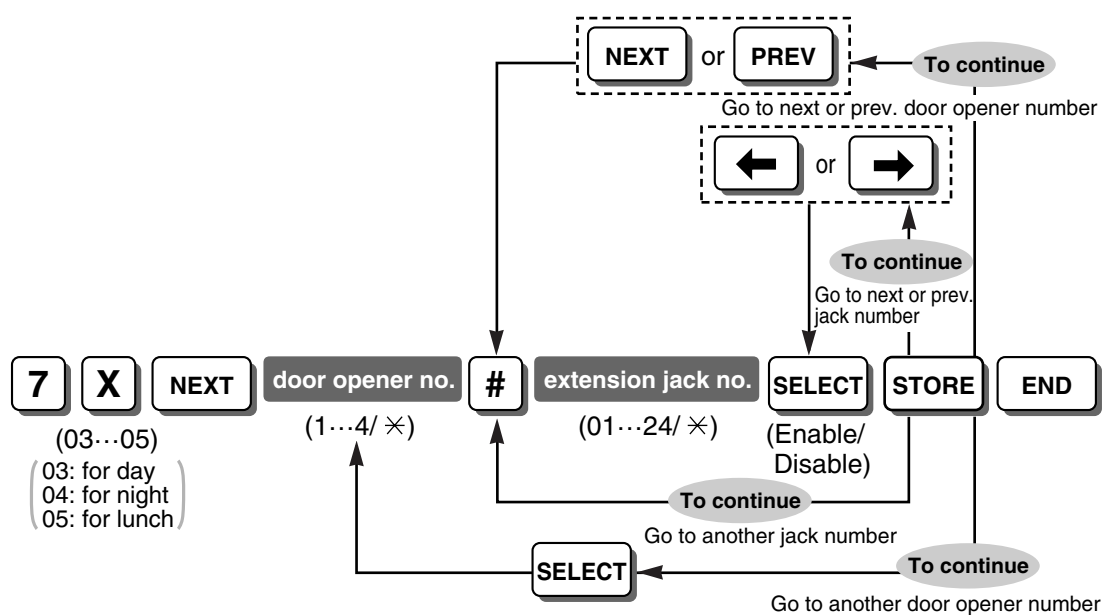
```
                                    ┌─────────────────────────┐
                                    │  NEXT  │ or │  PREV  │◄──── To continue
                                    └─────────────────────────┘
                                           Go to next or prev. door opener number
                                    ┌─────────────────────────┐
                                    │  ◄─  │ or │  ─►  │
                                    └─────────────────────────┘
                                              │
                                        To continue
                                        Go to next or prev.
                                        jack number

 ┌───┐ ┌───┐ ┌──────┐  ┌──────────────┐ ┌───┐ ┌─────────────────┐ ┌────────┐ ┌───────┐ ┌─────┐
 │ 7 │ │ X │ │ NEXT │  │door opener no.│ │ # │ │extension jack no.│ │ SELECT │ │ STORE │ │ END │
 └───┘ └───┘ └──────┘  └──────────────┘ └───┘ └─────────────────┘ └────────┘ └───────┘ └─────┘
   (03···05)               (1···4/ ✱)          (01···24/ ✱)       (Enable/
  03: for day                                                      Disable)
  04: for night                                To continue
  05: for lunch                                Go to another jack number

                          SELECT  ◄─────  To continue
                                          Go to another door opener number
```

Feature & Programming References

1.15.2 Door Open

Doorphone Ring Tone Pattern [706]

NEXT	or	**PREV**		

To continue

7 **0** **6** **NEXT**   **doorphone no.** **SELECT** **STORE** **END**
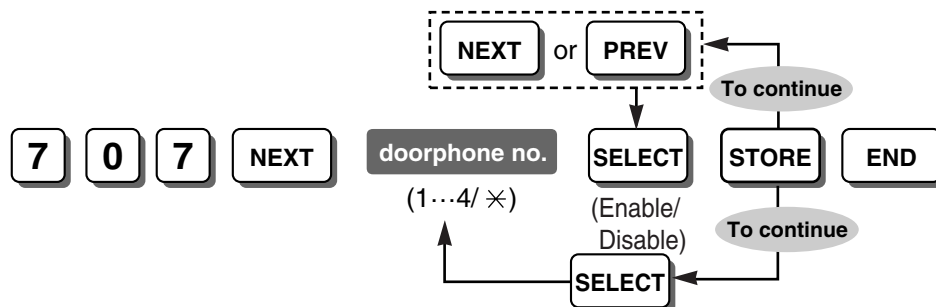(1···4/✳)   (Single/Double/
Triple/S-Double)   **To continue**
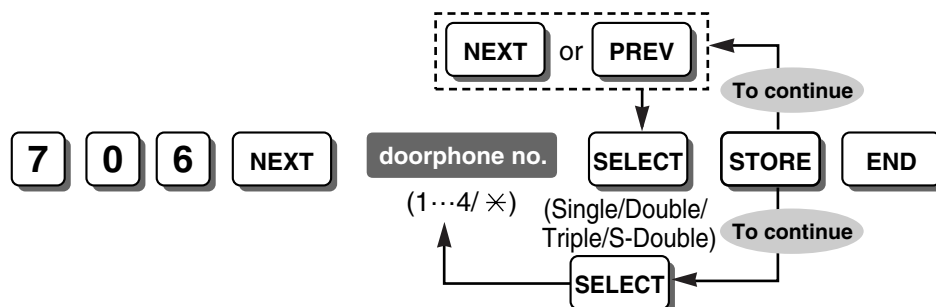
SELECT

Feature & Programming References

1.1.3.3 Ring Tone Pattern Selection
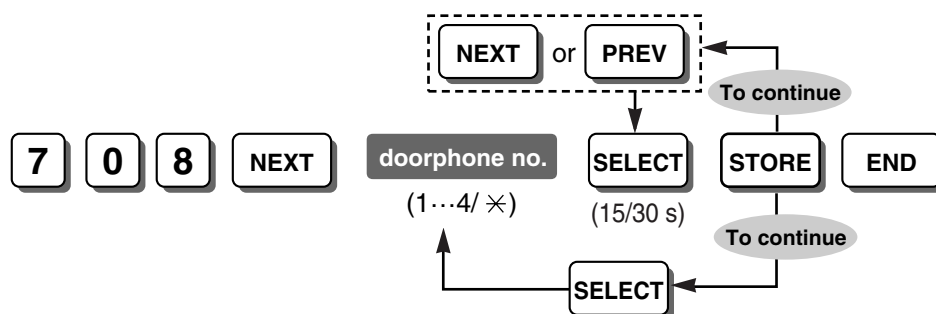
1.15.1 Doorphone Call

Doorphone Access Tone [707]

NEXT	or	**PREV**

To continue

7 **0** **7** **NEXT**   **doorphone no.** **SELECT** **STORE** **END**
(1···4/✳)   (Enable/
Disable)   **To continue**

SELECT

Feature & Programming References

1.10.2 Room Monitor

1.15.1 Doorphone Call

Doorphone Ring Time [708]

NEXT	or	**PREV**

To continue

7 **0** **8** **NEXT**   **doorphone no.** **SELECT** **STORE** **END**
(1···4/✳)   (15/30 s)   **To continue**

SELECT

Feature & Programming References

1.15.1 Doorphone Call

Door Open Duration [709]
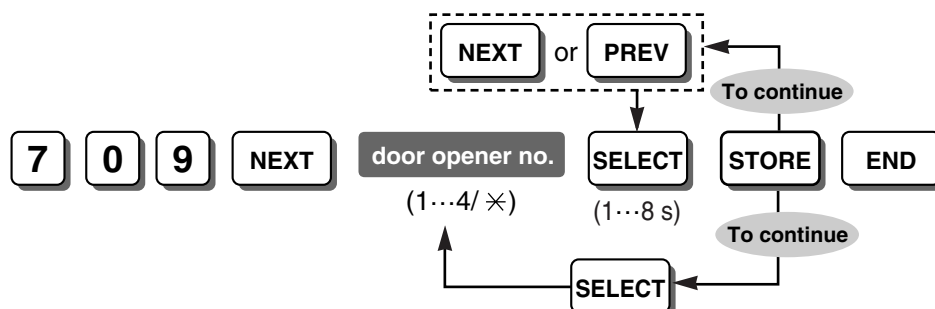
```
[7] [0] [9] [NEXT]  door opener no.  [NEXT] or [PREV] → To continue
                    (1···4/ ✶ )      ↓
                                     [SELECT]  [STORE]  [END]
                                     (1···8 s)          To continue
                                     [SELECT] ←
```

Feature & Programming References

1.15.2 Door Open

Doorphone Ring/Chime [710]

```
[7] [1] [0] [NEXT]  doorphone no.   [NEXT] or [PREV] → To continue
                    (1···4/ ✶ )      ↓
                                     [SELECT]  [STORE]  [END]
                                     (Ring/Chime/
                                     Ring & Chime)     To continue
                                     [SELECT] ←
```
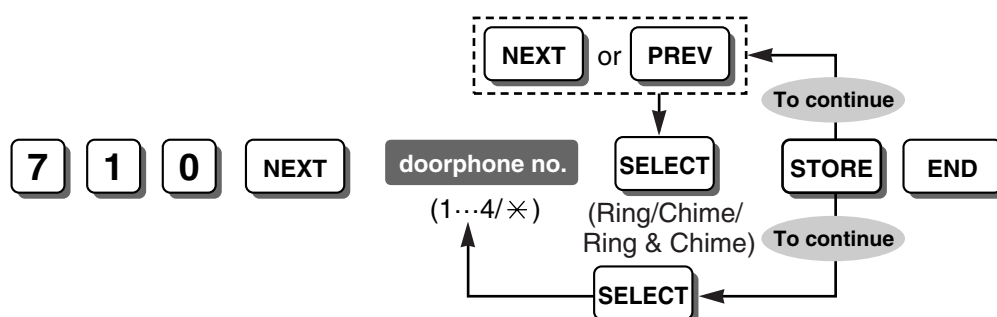
Feature & Programming References

1.15.3 Doorbell/Door Chime

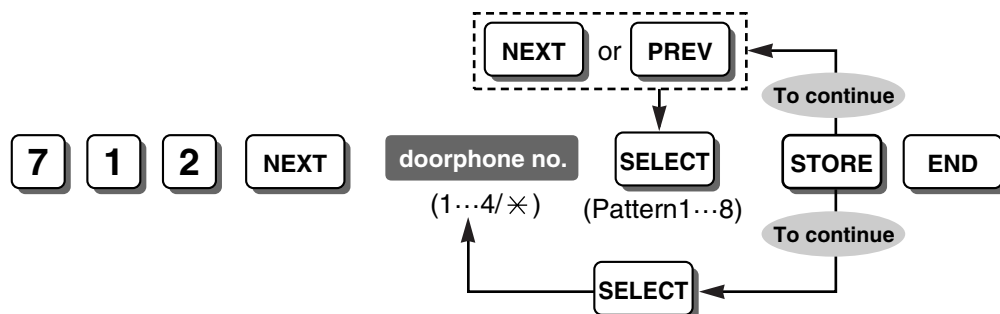Doorphone Ringing—Day/Night/Lunch [700-702]

Doorphone Chime Assignment [711]

```
[7] [1] [1] [NEXT]  doorphone no.   [NEXT] or [PREV] → To continue
                    (1···4/ ✶ )      ↓
                                     [SELECT]  [STORE]  [END]
                                     (Relay1···4)      To continue
                                     [SELECT] ←
```
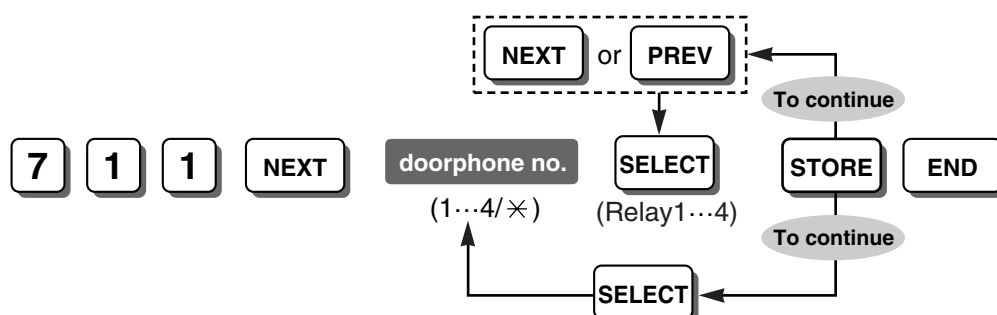
Feature & Programming References

1.15.3 Doorbell/Door Chime

Doorphone Ring/Chime [710]

Doorphone Chime Pattern [712]

```
                    ┌────────┐    ┌────────┐
                    │  NEXT  │ or │  PREV  │  ◄───┐
                    └────────┘    └────────┘      │
                                        │    To continue
  ┌───┐┌───┐┌───┐┌──────┐  ┌──────────┐ ▼  ┌──────┐┌────────┐┌──────┐
  │ 7 ││ 1 ││ 2 ││ NEXT │  │doorphone no.│ │SELECT││ STORE  ││ END  │
  └───┘└───┘└───┘└──────┘  └──────────┘    └──────┘└────────┘└──────┘
                            (1···4/ ✳ )    (Pattern1···8)
                                ▲               To continue
                                │          ┌────────┐
                                └──────────│ SELECT │◄──────
                                           └────────┘
```
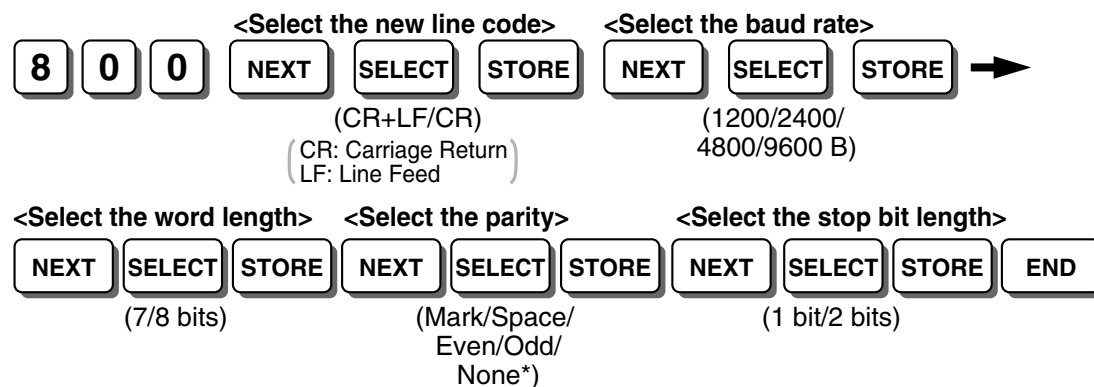
Feature & Programming References

1.15.3 Doorbell/Door Chime

4.2.1 Tones/Ring Tones

SMDR RS-232C Parameter [800]

```
              <Select the new line code>    <Select the baud rate>
  ┌───┐┌───┐┌───┐┌──────┐┌──────┐┌───────┐ ┌──────┐┌──────┐┌───────┐
  │ 8 ││ 0 ││ 0 ││ NEXT ││SELECT││ STORE │ │ NEXT ││SELECT││ STORE │ ──►
  └───┘└───┘└───┘└──────┘└──────┘└───────┘ └──────┘└──────┘└───────┘
                      (CR+LF/CR)              (1200/2400/
                    ⎛CR: Carriage Return⎞      4800/9600 B)
                    ⎝LF: Line Feed      ⎠

  <Select the word length>  <Select the parity>      <Select the stop bit length>
  ┌──────┐┌──────┐┌───────┐┌──────┐┌──────┐┌───────┐┌──────┐┌──────┐┌───────┐┌──────┐
  │ NEXT ││SELECT││ STORE ││ NEXT ││SELECT││ STORE ││ NEXT ││SELECT││ STORE ││ END  │
  └──────┘└──────┘└───────┘└──────┘└──────┘└───────┘└──────┘└──────┘└───────┘└──────┘
          (7/8 bits)           (Mark/Space/              (1 bit/2 bits)
                                Even/Odd/
                                None*)
```

Notes

- * Select "None" when the printer does not require error checking.
- The following combinations are invalid.

Parity	Word length	Stop bit length
Mark	8	2
Space	8	1
Space	8	2

If any of the above invalid combinations are selected, an alarm tone will be heard.

Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

SMDR Parameter [801]

<Select the page length>

8 0 1 NEXT page length STORE ➡
(4…99 lines)

<Select the skip perforation>

NEXT skip perforation STORE END
(0…95 lines)
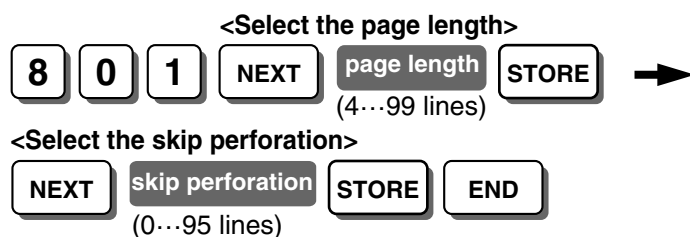
Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

Incoming/Outgoing Call Selection for Printing [802]

<Select an outgoing call>   **<Select an incoming call>**

8 0 2 NEXT SELECT STORE NEXT SELECT STORE END
(On/Off/Toll)   (On/Off)

Note

Outgoing Call: On (Print all calls)/Off (No printing)/Toll (Print toll calls only)

Incoming Call: On (Print all calls)/Off (No printing)

Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

TRS—COS 2-5 Denied Code [302-305]

Secret Number SMDR Print Suppression [803]
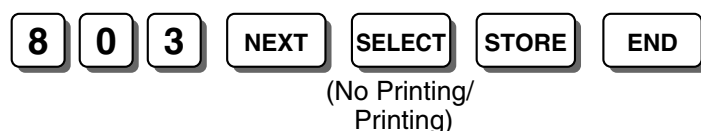
8 0 3 NEXT SELECT STORE END
(No Printing/
Printing)

Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

System Speed Dialling Number [001]

System Data Dump [804]

<**To select All parameters, System parameter, Speed dial, and/or Stop output**>

8 0 4 NEXT SELECT STORE END
(All para/
System para/
Speed dial/   To continue
Stop output)

<To select the CO (outside line) parameter>

| 8 | 0 | 4 | NEXT | SELECT | STORE | CO line no. | STORE | END |

(CO para)   (1···8/ �ள)

To continue

<To select the Extension parameter>

| 8 | 0 | 4 | NEXT | SELECT | STORE | extension jack no. | STORE | END |

(Extn. para)   (01···24/ ✳)

To continue

<To select the DSS parameter>

| 8 | 0 | 4 | NEXT | SELECT | STORE | DSS console no. | STORE | END |

(DSS para)   (1···2/ ✳)

To continue
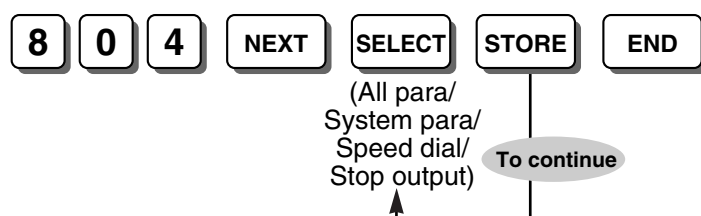
Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

SMDR Account Code [805]

| 8 | 0 | 5 | NEXT | SELECT | STORE | END |

(CODE/INDEX)
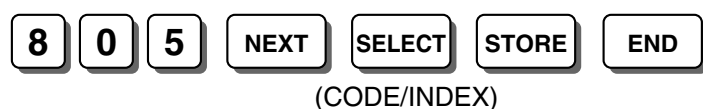
Feature & Programming References

1.8.2 Toll Restriction (TRS) Override by Account Code

1.20.1 Station Message Detail Recording (SMDR)

Account Code [310]

Account Code Mode [605]

SMDR Language [806]

| 8 | 0 | 6 | NEXT | SELECT | STORE | END |

Refer to the note.*

Note

    * The following languages are available for SMDR:
English; Spanish; Portuguese; Greek; Czech; Hungarian; Slovak; Polish; Italian
Selections vary depending on your country/area.

Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

BV Total Recording Time [807]

| 8 | 0 | 7 | NEXT | SELECT | STORE | END |

(20/30/60 min)
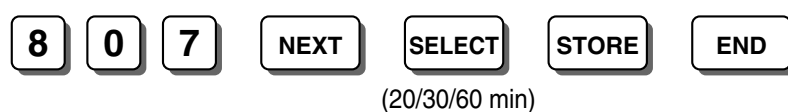
Note

The recording quality depends on the setting time.
20 (min): High; 30: Normal; 60: Low

Feature & Programming References

1.15.7 Built-in Voice Message (BV)

BV Card Initialisation [808]

8 **0** **8** **NEXT** **STORE** **END**

Feature & Programming References

1.15.7 Built-in Voice Message (BV)

Caller ID [900]
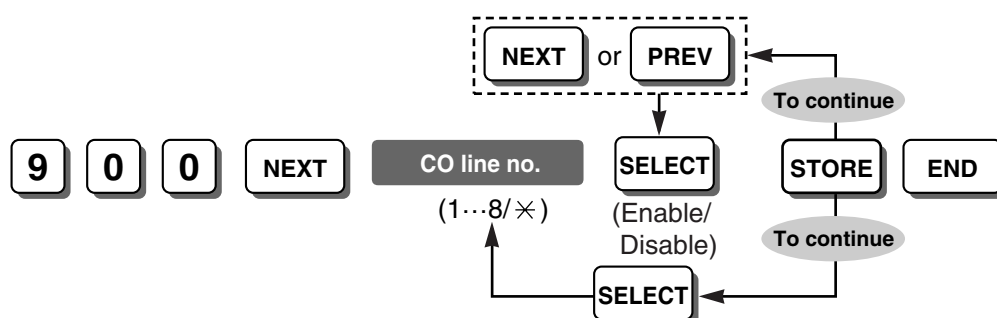
Note

The DISA Delayed Answer Time for the outside (CO) lines enabled here will always be 6 seconds even if "0 s" or "3 s" is selected in DISA Delayed Answer Time [504].

Feature & Programming References

1.16.1 Caller ID

Caller ID Area Code [901]
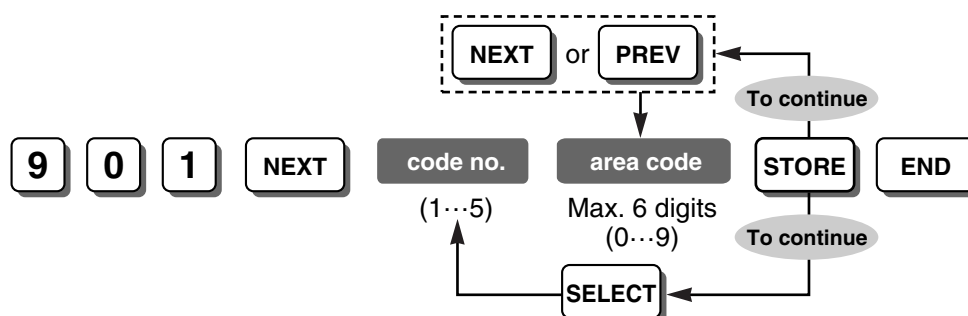
Feature & Programming References

1.16.1 Caller ID

1.16.2 Incoming Call Log

Caller ID Modification for Local Calls [902]

Caller ID Modification for Local Calls [902]

| 9 | 0 | 2 | NEXT | → SELECT → To continue |

<**Select the removed digits**>

| code no. | removed digits | STORE | END |
| (1···5) | (0···9) | | |

<**Select the added number**>

| → | added number | STORE | END |
| | Max. 4 digits (0···9, ✕, #) | | |
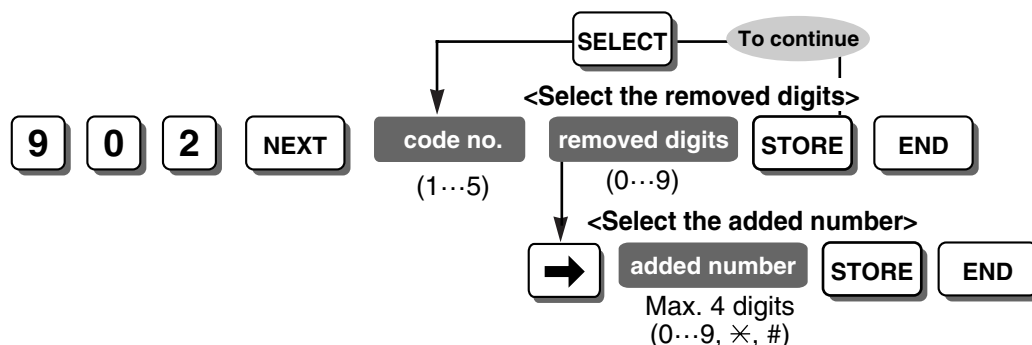
Feature & Programming References

1.16.1 Caller ID

1.16.2 Incoming Call Log

Caller ID Area Code [901]
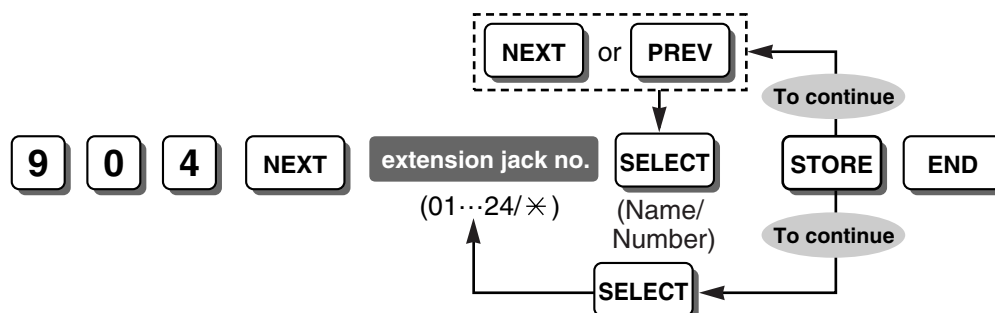
Caller ID Modification for Long-distance Calls [903]

<**Select the removed digits**>

| 9 | 0 | 3 | NEXT | removed digits | STORE | END |
| | | | | (0···9) | | |

<**Select the added number**>

| → | added number | STORE | END |
| | Max. 4 digits (0···9, ✕, #) | | |
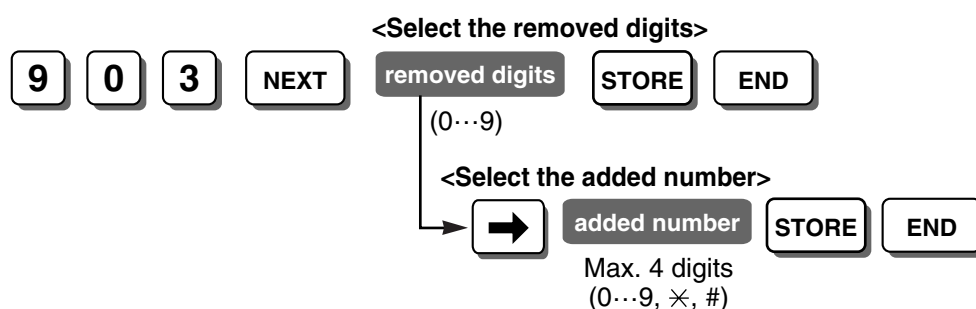
Feature & Programming References

1.16.1 Caller ID

1.16.2 Incoming Call Log

Caller ID Log Priority [904]

| NEXT | or | PREV | ← |

To continue

| 9 | 0 | 4 | NEXT | extension jack no. | SELECT | STORE | END |
| | | | | (01···24/✕) | (Name/Number) | | |

To continue

SELECT

Note

This programme is available when the Caller ID service provides both a name and a number. If only the number is provided, this programme is not necessary.

Feature & Programming References

1.16.2 Incoming Call Log

1.18.4 Display Information

Caller ID Automatic 0 Addition [905]

| 9 | 0 | 5 | NEXT | SELECT | STORE | END |

(Enable/Disable)
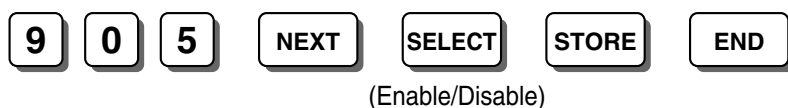
Feature & Programming References

1.16.1 Caller ID

Caller ID SMDR Format [906]

| 9 | 0 | 6 | NEXT | SELECT | STORE | END |

(Without CID: Not printed/
With CID: Printed)

Note

Even if a name is also sent by the Caller ID service, only the number is printed.

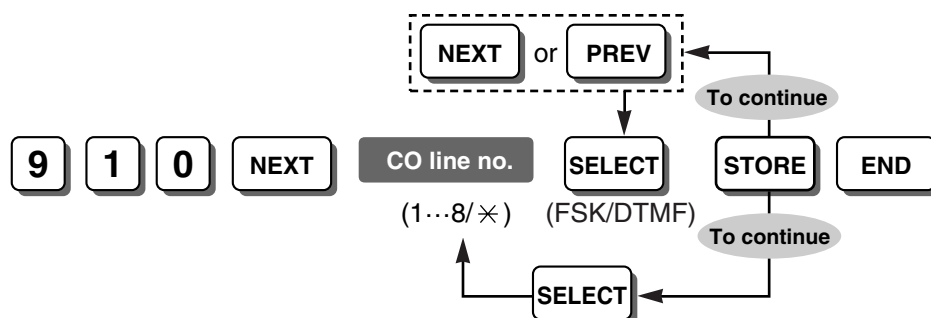**Feature & Programming References**

1.20.1 Station Message Detail Recording (SMDR)

Caller ID SMDR Printout [907]

| 9 | 0 | 7 | NEXT | SELECT | STORE | END |

(Enable/Disable)
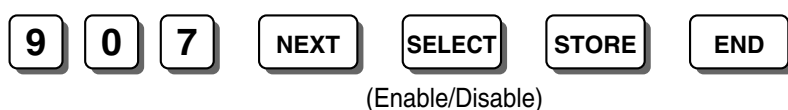
Feature & Programming References

1.20.1 Station Message Detail Recording (SMDR)

Common Area Call Log Check [909]
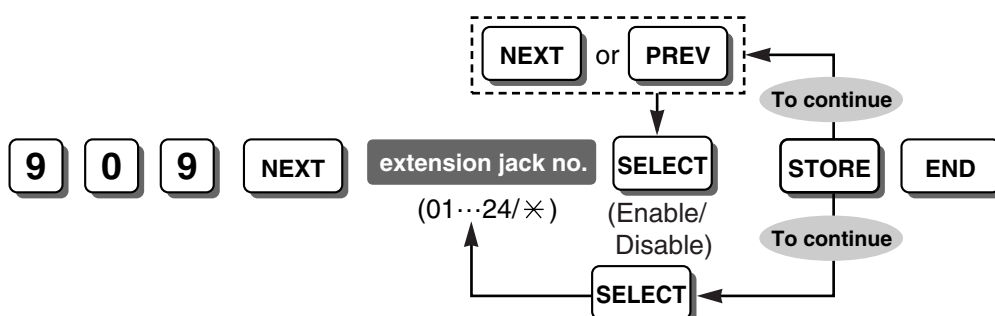
Feature & Programming References
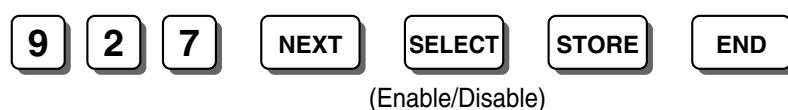
1.16.2 Incoming Call Log

Caller ID Type [910]

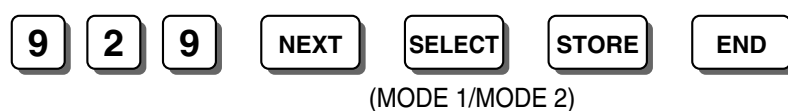

Feature & Programming References
1.16.1 Caller ID

Call Log Next Page [927]

(Enable/Disable)

Note

This programme enables the PBX to include page breaks when printing out call logs for each extension.

SMDR Mode for Printing [929]


(MODE 1/MODE 2)

Note

Even if "On" (outgoing/incoming call) or "Toll" (outgoing call) is selected in Incoming/Outgoing Call Selection for Printing [802], when "MODE 2" is selected in this programme, the call log information is not displayed by SMDR, but the information for each extension is displayed by Call Log Printout.

Feature & Programming References
1.20.1 Station Message Detail Recording (SMDR)
1.20.2 Call Log Printout for Each Extension

Call Forwarding Selection [963]
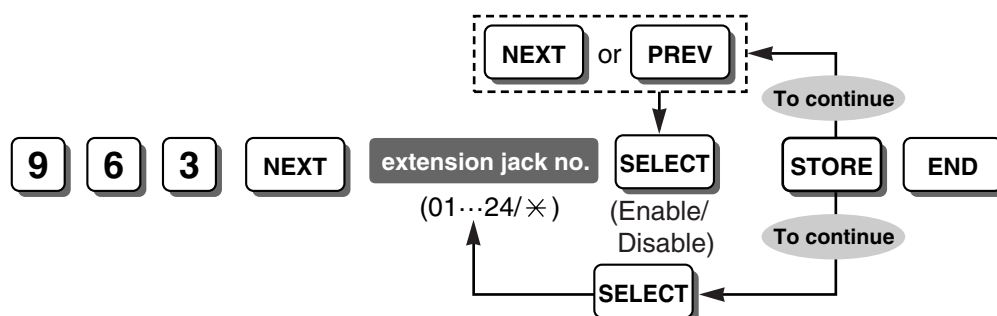
Feature & Programming References

1.3.1.2 Call Forwarding (FWD)

CO Line Mode—Day/Night/Lunch [414-416]

TRS Check after Answering [966]

9 **6** **6** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Note

    This programme specifies whether the PBX checks DTMF signals when answering calls or not.

TRS Check Time after Answering [967]

9 **6** **7** **NEXT** **SELECT** **STORE** **END**

(5/10/15/
20/30/60 s)

Note

    This programme specifies the length of time that the DTMF signal is checked when "Enable" is selected in TRS Check after Answering [966].

KX-T7700 Series Incoming Lamp Control [968]

9 **6** **8** **NEXT** **SELECT** **STORE** **END**

(Enable/Disable)

Feature & Programming References

1.17.1 Message Waiting

Country [995]

9 **9** **5** **NEXT** **SELECT** **STORE** **END**

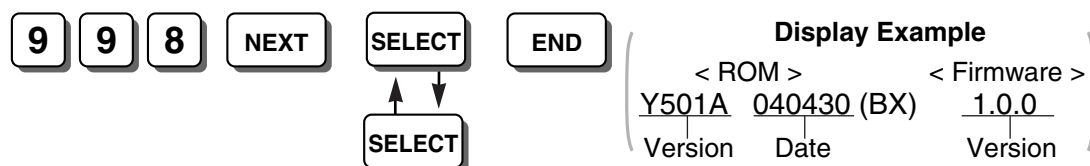(NE: NE (ES)/NE (IT))
(CE: CE/CE (CZ))

Notes

•   This programme specifies your country/area when the suffix of the PBX is "NE" or "CE". For more information, please consult your dealer.

•   When the country code is changed, all system data is initialised.

Feature & Programming References

2.3.6 Country Setting

Firmware Version [998]

| 9 | 9 | 8 | NEXT | SELECT | END |

SELECT ↑↓ SELECT

Display Example

< ROM >   < Firmware >
Y501A   040430 (BX)   1.0.0
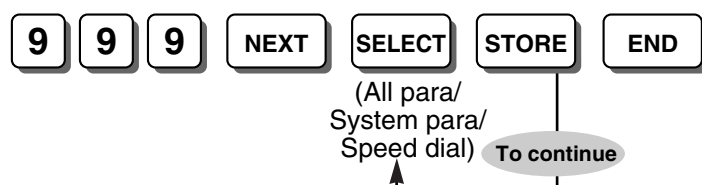Version   Date   Version

Note

You can confirm the ROM and the firmware version of the PBX alternately by pressing SELECT.

Feature & Programming References

2.3.7 Firmware Upgrade

System Data Clear [999]

<**To select All parameters, System parameter, and/or Speed Dial**>

| 9 | 9 | 9 | NEXT | SELECT | STORE | END |

(All para/
System para/
Speed dial)   **To continue**

<**To select the CO (outside line) parameter**>

| 9 | 9 | 9 | NEXT | SELECT | STORE | CO line no. | STORE | END |

(CO para)   (1···8/ ✳)   **To continue**

<**To select the Extension parameter**>

| 9 | 9 | 9 | NEXT | SELECT | STORE | extension jack no. | STORE | END |

(Extn. para)   (01···24/ ✳)   **To continue**

<**To select the DSS parameter**>

| 9 | 9 | 9 | NEXT | SELECT | STORE | DSS console no. | STORE | END |

(DSS para)   (1···2/ ✳)   **To continue**

Feature & Programming References

2.3.2 PT Programming