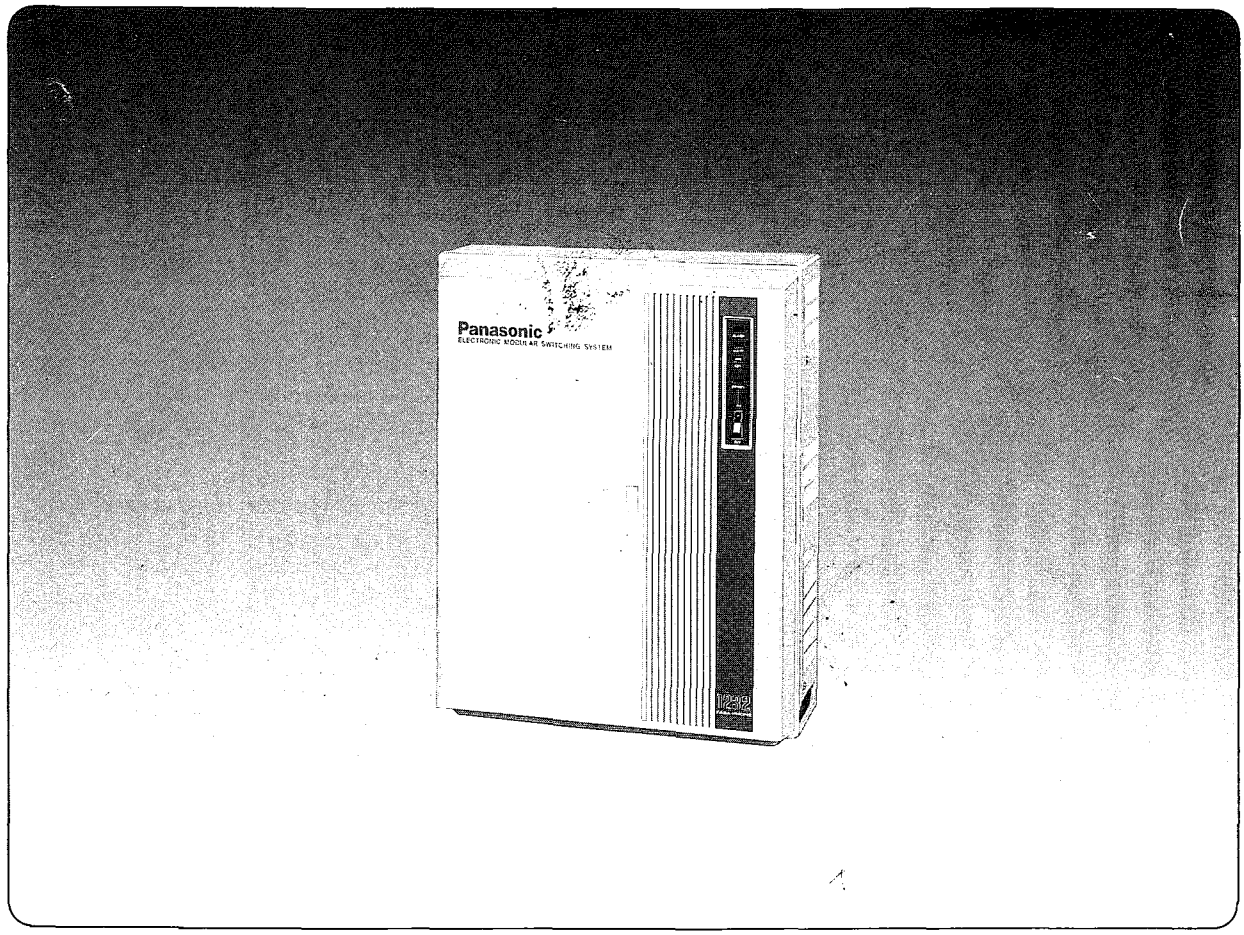
INSTALLATION MANUAL

ELECTRONIC MODULAR SWITCHING SYSTEM

KX-T123210

EASA-PHONE



Panasonic

Please read this manual before connecting the KX-T123210

Thank you for purchasing the Panasonic Model KX-T123210, Electronic Modular Switching System (EMSS).

SYSTEM COMPONENT

	Model No.	Description
Service unit	KX-T123210	Electronic Modular Switching System
Telephone	KX-T123220	EMSS Proprietary Telephone (12 CO's)
	KX-T123230	EMSS Proprietary Telephone with LCD (12 CO's)
	KX-T123250	EMSS Proprietary Telephone (12 CO's)
	KX-T61620	EMSS Proprietary Telephone (6 CO's)
	KX-T61630	EMSS Proprietary Telephone with LCD (6 CO's)
	KX-T61631	EMSS Proprietary Telephone with LCD (6 CO's)
	KX-T61650	EMSS Proprietary Telephone (6 CO's)
	KX-T30820	EMSS Proprietary Telephone (3 CO's)
	KX-T30830	EMSS Proprietary Telephone with LCD (3 CO's, 8 DSS's)
	KX-T30850	EMSS Proprietary Telephone (3 CO's)
Optional equipment	KX-T123240	DSS Console (32 DSS's, 16 Feature buttons)
	KX-T61640	DSS Console (16 DSS's, 16 Feature buttons)
	KX-T123241	DSS Console Card
	KX-T123270	Expansion Card (up to eight extension lines)
	KX-T123271	Expansion Card (up to four extension lines)
	KX-T123280	Expansion Card (up to four CO lines)
	KX-T123281	Expansion Card (up to two CO lines)
	KX-T30860D(only)	Doorphone Adaptor
	KX-T30865	Doorphone
	KX-T30890	Headset
	KX-A26	Battery Adaptor

NOTIFY THE TELEPHONE COMPANY

Installation must be performed by a qualified professional installer.

Notify the Telephone Company

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

- Telephone numbers to which the system will be connected .....
- Make ..... Panasonic
- Model KX-T123210
- FCC Registration No. ..... ACJ 96 N-19294-MF-E
- Ringer Equivalence 0.4B
- Facility Interface Code 02LS2
- Service Order Code 9.0F
- Required Network Interface Jack RJ11

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

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

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

MODEL NO . : **KX-T123210**

SERIAL NO . : _____

For your future reference

DATE OF PURCHASE _____

NAME OF DEALER _____

DEALER'S ADDRESS _____

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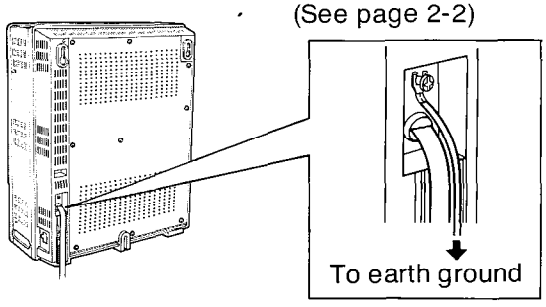
INSTALLATION (Quick Reference)

Frame Ground Connection

(See page 2-2)

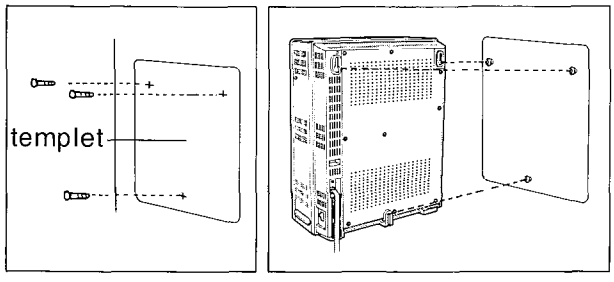


For earth ground, see page 2-2.

Wall Mounting

(See page 2-3)

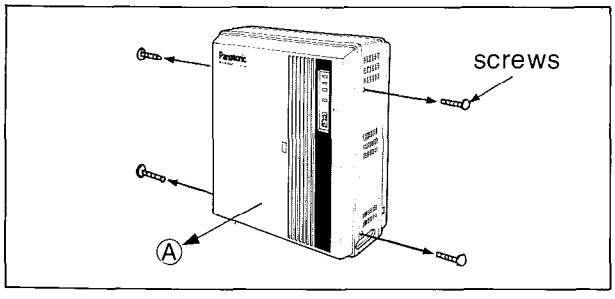
1. Place the templet (included) on the wall to mark the 3 screw positions.
2. Install the 3 screws into the wall.
3. Hook the unit on the screw heads.



How to remove the front cover from unit

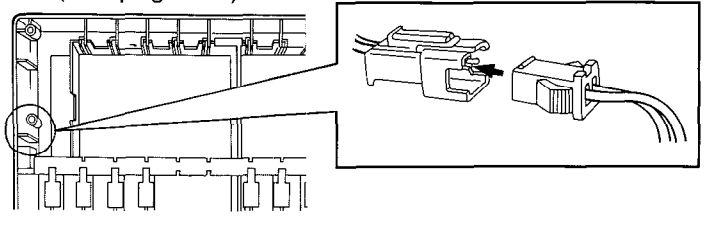
(See page 2-4)

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



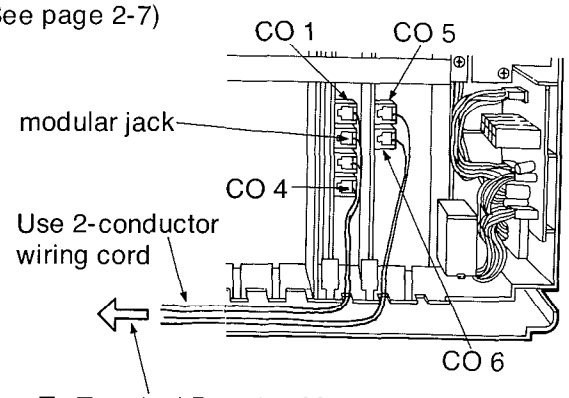
Rechargeable Battery Installation

(See page 2-4)



Central Office Line Connection (CO1 through 6)

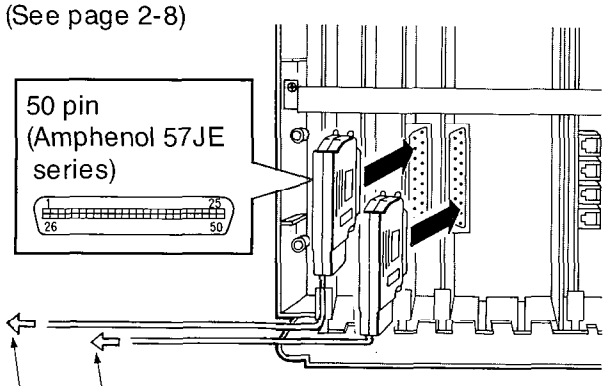
(See page 2-7)

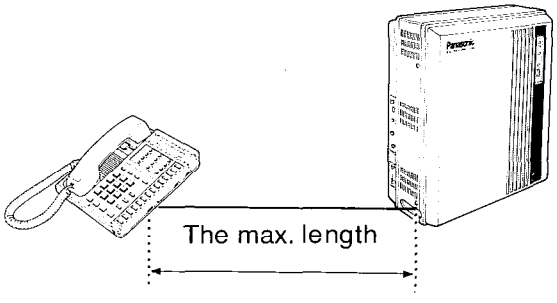


- To Terminal Board or Modular Jacks from the Central Office (CO).

Extension Connection (Jack number 1 through 16)

(See page 2-8)





Proprietary Telephone
- 26 AWG: Under 460 feet
- 24 AWG: Under 750 feet
- 22 AWG: Under 1180 feet

] Twisted cable

Standard Telephone
- 26 AWG: Under 2290 feet
- 24 AWG: Under 3700 feet
- 22 AWG: Under 5900 feet

] Twisted cable

Cable Pin Numbers to be connected

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

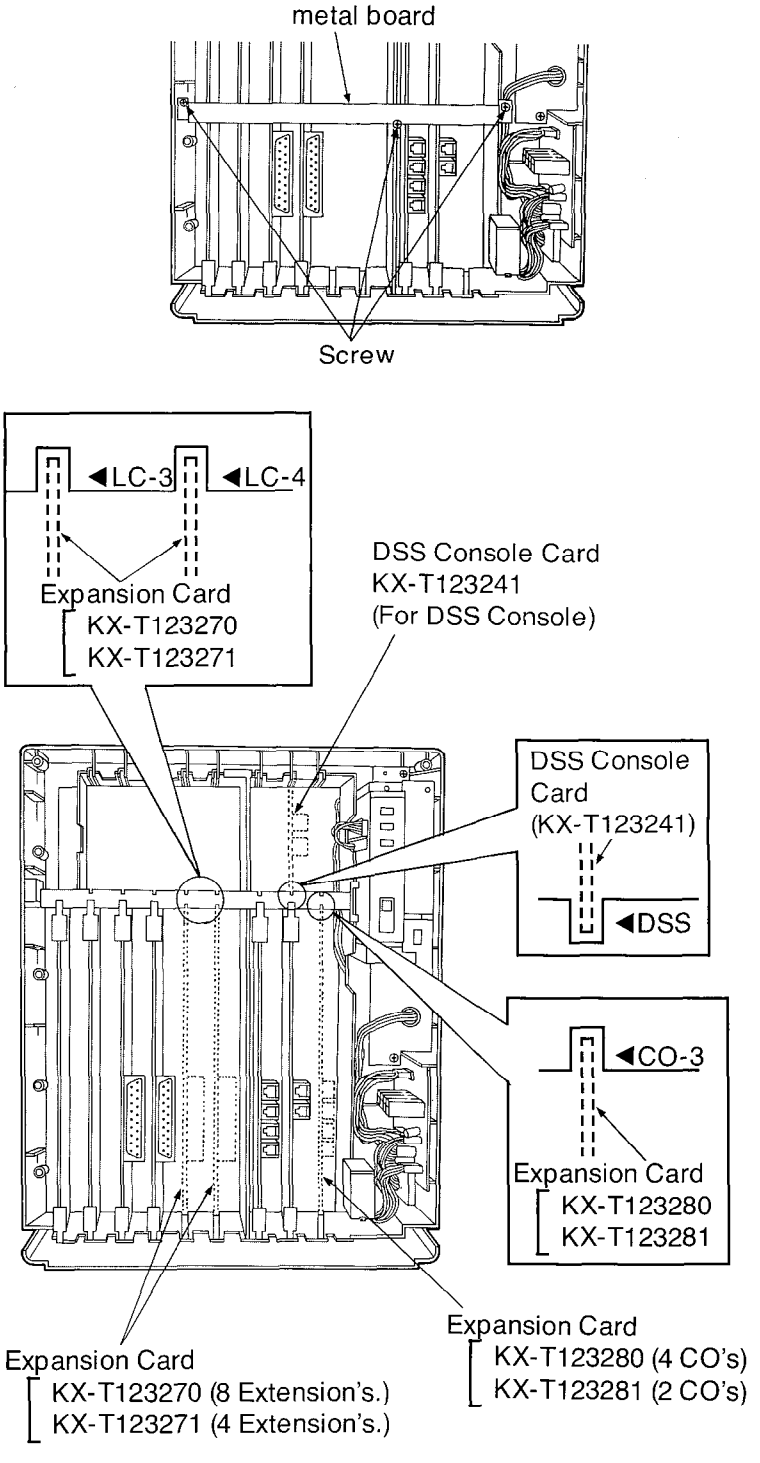
CONN. PIN	CABLE COLOR	CLIP NO.	LC-1		LC-2	
26	WHT-BLU	1		T		T
1	BLU-WHT	2		R		R
27	WHT-ORN	3	JACK	D1	JACK	D1
2	ORN-WHT	4	NO.1	D2	NO.9	D2
28	WHT-GRN	5				
3	GRN-WHT	6				
29	WHT-BRN	7		T		T
4	BRN-WHT	8		R		R
30	WHT-SLT	9	JACK	D1	JACK	D1
5	SLT-WHT	10	NO.2	D2	NO.10	D2
31	RED-BLU	11				
6	BLU-RED	12				
32	RED-ORN	13		T		T
7	ORN-RED	14		R		R
33	RED-GRN	15	JACK	D1	JACK	D1
8	GRN-RED	16	NO.3	D2	NO.11	D2
34	RED-BRN	17				
9	BRN-RED	18				
35	RED-SLT	19		T		T
10	SLT-RED	20		R		R
36	BLK-BLU	21	JACK	D1	JACK	D1
11	BLU-BLK	22	NO.4	D2	NO.12	D2
37	BLK-ORN	23				
12	ORN-BLK	24				
38	BLK-GRN	25		T		T
13	GRN-BLK	26		R		R
39	BLK-BRN	27	JACK	D1	JACK	D1
14	BRN-BLK	28	NO.5	D2	NO.13	D2
40	BLK-SLT	29				
15	SLT-BLK	30				
41	YEL-BLU	31		T		T
16	BLU-YEL	32		R		R
42	YEL-ORN	33	JACK	D1	JACK	D1
17	ORN-YEL	34	NO.6	D2	NO.14	D2
43	YEL-GRN	35				
18	GRN-YEL	36				
44	YEL-BRN	37		T		T
19	BRN-YEL	38		R		R
45	YEL-SLT	39	JACK	D1	JACK	D1
20	SLT-YEL	40	NO.7	D2	NO.15	D2
46	VIO-BLU	41				
21	BLU-VIO	42				
47	VIO-ORN	43		T		T
22	ORN-VIO	44		R		R
48	VIO-GRN	45	JACK	D1	JACK	D1
23	GRN-VIO	46	NO.8	D2	NO.16	D2
49	VIO-BRN	47				
24	BRN-VIO	48				
50	VIO-SLT	49				
25	SLT-VIO	50				

T :Tip D1 : Data 1
R : Ring D2 : Data 2

■ Connection of a Standard Telephone (2-conductor wiring is required for each extension.)
Connect the pin number of "T" and "R" only.

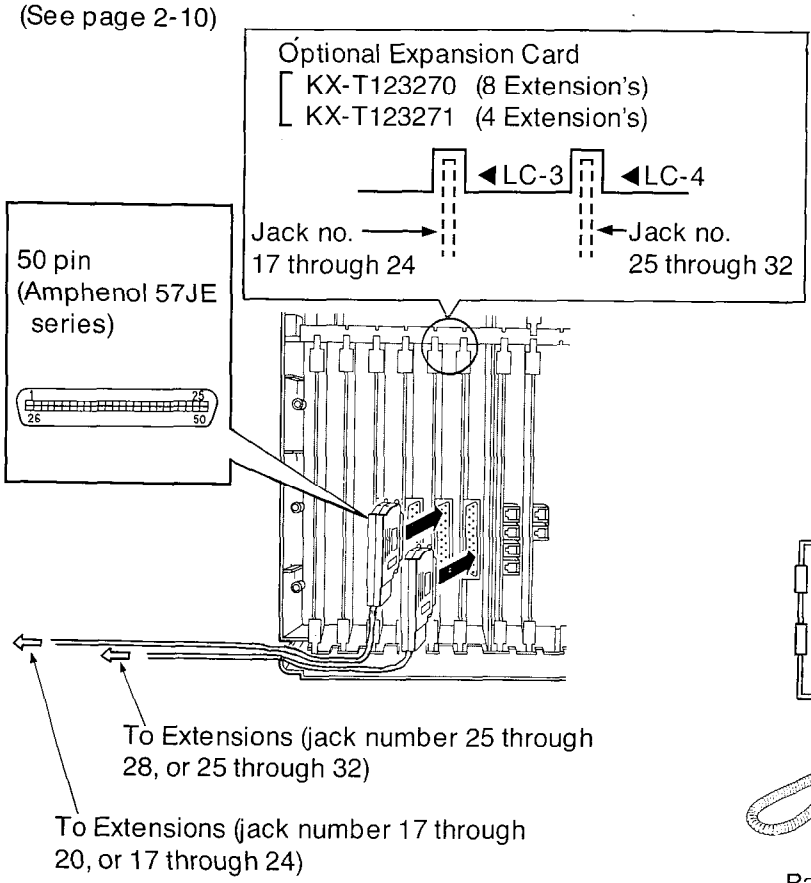
Optional Cards Installation

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



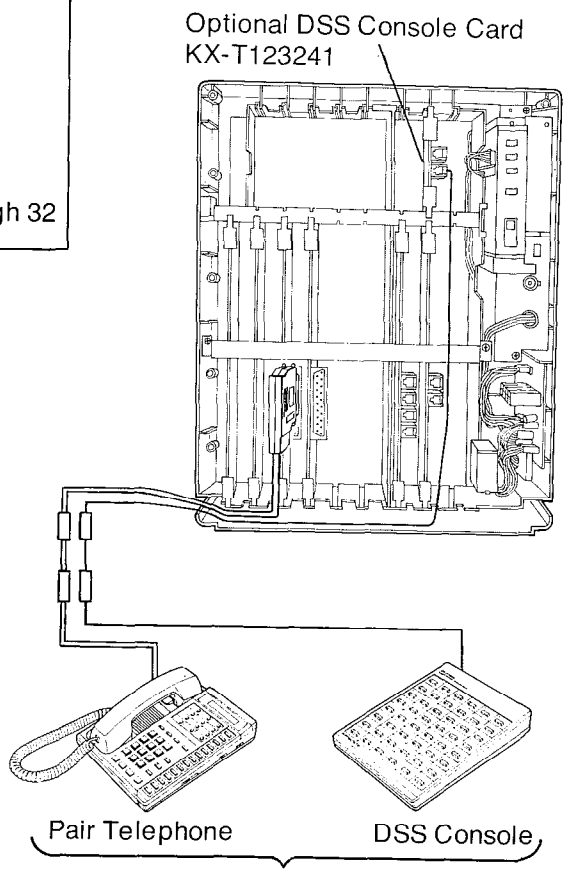
Extension Connection (Jack number 17 through 32) option

(See page 2-10)



Optional DSS Console Connection (KX-T123240 / KX-T61640)

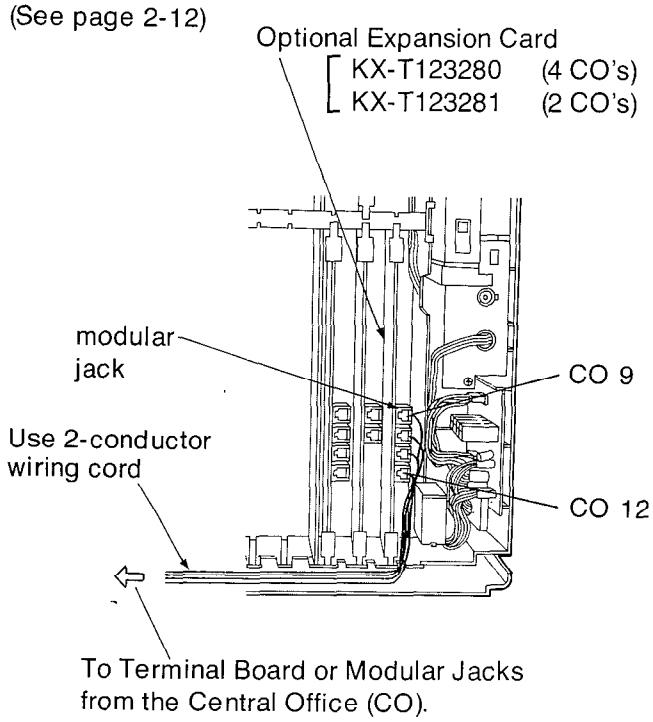
(See page 2-14)



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

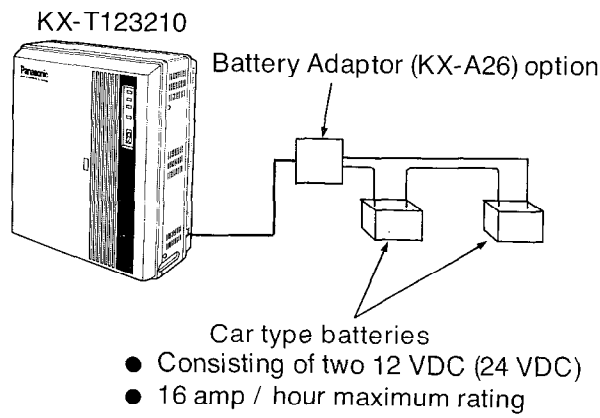
Central Office Line Connection (CO 9 through 12) option

(See page 2-12)



Battery Connection

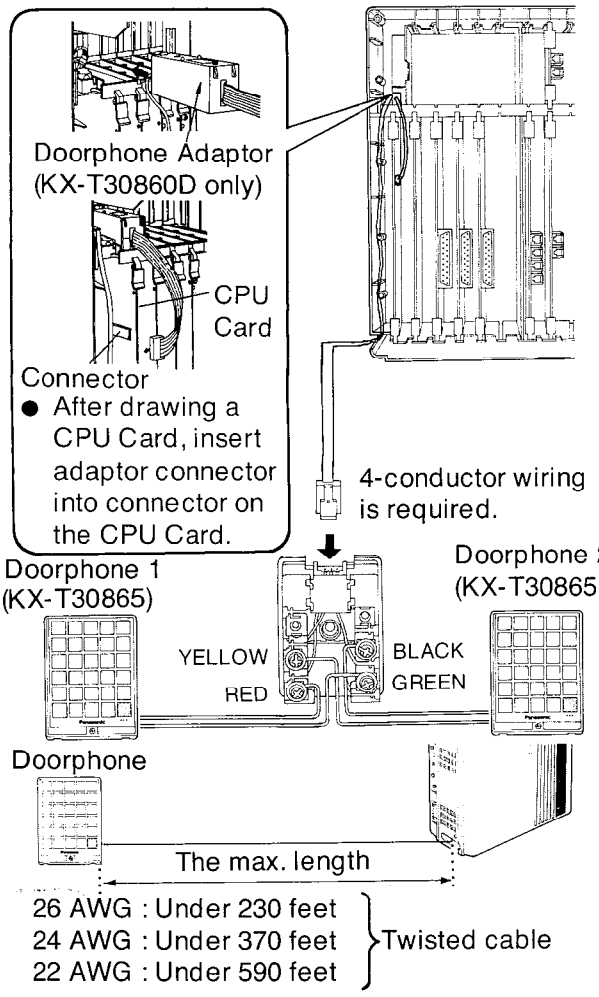
(See page 2-17)



- Consisting of two 12 VDC (24 VDC)
- 16 amp / hour maximum rating

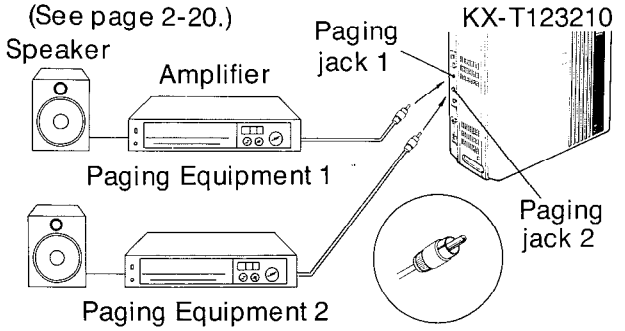
Optional Doorphone Connection

(See page 2-15.)



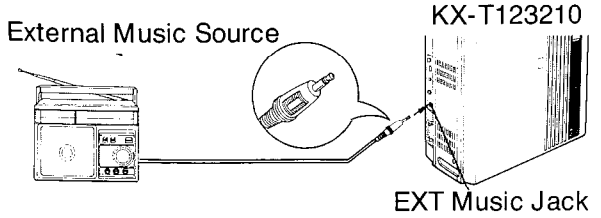
Paging Equipment

(See page 2-20.)



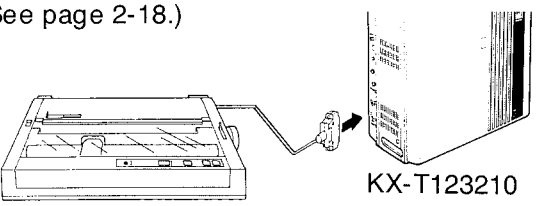
External Music Source

(See page 2-20.)



Printer Connection

(See page 2-18.)



● Cables must be shielded and the maximum length is 6.5 feet.

Connection Chart:

KX-T123210 RS-232C — Printer RS-232C

Circuit Type (EIA)	Signal Name	Pin No.	Pin No.	Signal Name	Circuit Type (EIA)
AA	FG	1	1	FG	AA
BA	TXD	2	3	RXD	BB
BB	RXD	3	2	TXD	BA
CB	CTS	5			
CC	DSR	4,6	20	DTR	CD
AB	SG	7	7	SG	AB
CD	DTR	20	5	CTS	CB
			6	DSR	CC
			8	DCD	CF

Communication parameters

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

	KX-T123210	KX-P11D		KX-P17	
		DIP Switch	Setting	DIP Switch	Setting
Word length	7bit (default)	SW1-1	ON	SW1-4	ON
Parity	Program to "EVEN" (see page 3-32.)	SW1-2	ON	SW1-5	OFF
		SW1-3	ON	SW1-6	OFF
Baud Rate	1200B (default)	SW1-5	ON	SW1-1	OFF
		SW1-6	OFF	SW1-2	OFF
		SW1-7	OFF	SW1-3	ON
		SW1-8	OFF		
Protocol	XON / XOFF mode only	SW2-8	OFF	SW1-8	ON

PROGRAMMING (Quick Reference)

System Feature

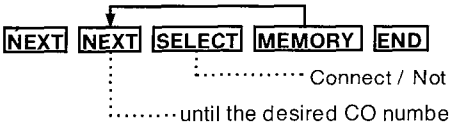
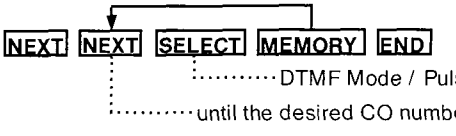
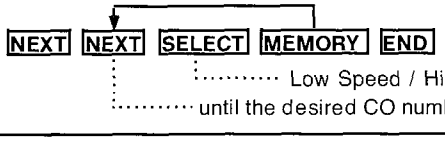
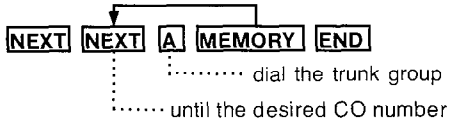
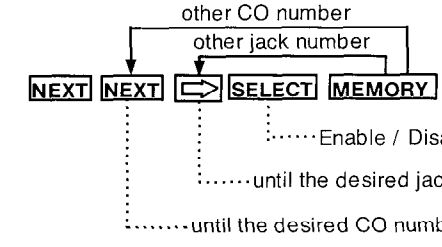
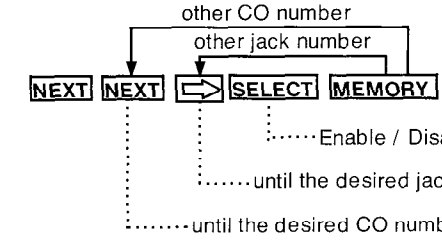
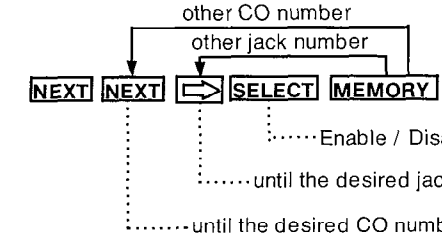
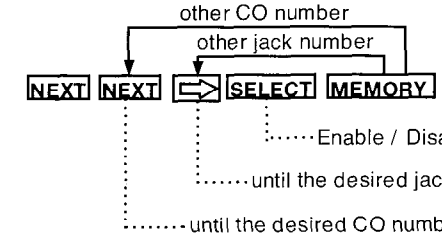
TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	PAGE FOR DETAILS	PAGE PROGRAM TABLE
Date and Time Setting	00	NEXT AB ⇨ SELECT ⇨ CD ⇨ SELECT ⇨ EF ⇨ GH ⇨ SELECT MEMORY END AB: year; CD: month; EF: day; SELECT: day of the week; GH: hour; SELECT: minute; MEMORY: AM / PM		3-4	
System Speed Dialing Entry	01 or AUTO	NEXT AB CD phone number MEMORY END (SELECT) 9 : automatic line access number 81 through 88 : access number of Trunk Group AB: Speed access code (00 through 99)	Nothing is stored	3-5	7-1
Extension Number Assignment	02	NEXT NEXT CDE MEMORY END CDE: dial the extension number (100 through 199) NEXT: until the desired jack number appears	101 : jack number 01 102 : jack number 02 ⋮ 131 : jack number 31 132 : jack number 32	3-8	7-3
Operator Assignment	03	NEXT NEXT AB MEMORY END AB: dial the jack number which is set operator NEXT: until the desired operator number appears	Nothing is stored	3-9	7-3
Paired Telephone Assignment for DSS Console	04	NEXT NEXT AB MEMORY NEXT CD MEMORY END CD: jack number paired with console 2 AB: jack number paired with console 1	jack number 01 : console 1 jack number 02 : console 2	3-10	7-3
Automatic CO Hold Using DSS Button	05	NEXT SELECT MEMORY END SELECT: With Transfer / Without Transfer	With Transfer	3-11	7-3
Day/Night Service Mode	06	NEXT SELECT MEMORY END SELECT: Manual / Automatic	Manual	3-12	7-4
Switching of Service Mode Starting Time	07	NEXT AB ⇨ CD ⇨ SELECT MEMORY NEXT CD: minute; SELECT: AM / PM; AB: starting time for day service (hour) NEXT EF ⇨ GH ⇨ SELECT MEMORY END GH: minute; SELECT: AM / PM; EF: starting time for night service (hour)	Day Service : 9:00AM Night Service : 5:00PM	3-13	7-4
Call Hunting Setting	08	NEXT NEXT SELECT MEMORY END SELECT: Disable / Enable NEXT: until the desired extension group number appears	Disable : all 8 extension groups	3-15	7-4
Hunting Type	09	NEXT NEXT SELECT MEMORY END SELECT: Terminate / Circular NEXT: until the desired extension group number appears	Terminate : all 8 extension groups	3-16	7-4

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	PAGE	
				FOR DETAILS	PROGRAM TABLE
Toll Restriction Area Type Selection	10	NEXT SELECT MEMORY END ..... Type A / Type B / Type C	Type A	3-18	7-4
CO Operator Call-Boundary Class	11	NEXT A MEMORY END ..... dial the boundary class number (1 through 8)	Class 1	3-19	7-4
Toll Restriction of Speed Dialing	12	NEXT SELECT MEMORY END ..... Restriction / No restriction	Restriction	3-20	7-5
Exchange Code Selection	13	NEXT NEXT CDE MEMORY END ..... exchange code with 3 digits ..... until the desired memory code number appears	Nothing is stored	3-21	7-5
Area Code Entry for class 3	14	NEXT NEXT CDE MEMORY END ..... area code with 3 digits ..... until the desired memory code number appears	Nothing is stored	3-22	7-5
Exchange Code Entry for Class 5	15	NEXT NEXT CDE MEMORY END ..... exchange code with 3 digits ..... until the desired memory code number appears	Nothing is stored	3-23	7-5
Exchange Code Entry for Class 7	16	NEXT NEXT CDE MEMORY END ..... exchange code with 3 digits ..... until the desired memory code number appears	Nothing is stored	3-24	7-6

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Hold Time Reminder	17	Refer to page 3-25	7-6
Hold Recall Time Set	18	Refer to page 3-26	7-6
Transfer Recall Time	19	Refer to page 3-27	7-6
Call Forwarding Starting Time	20	Refer to page 3-28	7-6
Pickup Dial Delay Time	21	Refer to page 3-29	7-6
CO-to-CO Duration Time Limit	22	Refer to page 3-30	7-7
External Paging Access Tone	29	Refer to page 3-41	7-9

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
SMDR RS-232C Communication Parameters	23	Refer to page 3-32	7-7
SMDR Parameters	24	Refer to page 3-35	7-8
Incoming/ Outgoing call Selection for printing	25	Refer to page 3-36	7-8
Secret Speed dial/ One Touch Dial Printing	26	Refer to page 3-36	7-8
System Data Dump	27	Refer to page 3-37	7-8
Duration Time Count Start Mode	28	Refer to page 3-40	7-9

Outside Line Feature

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	PAGE FOR DETAILS	PAGE PROGRAM TABLE
CO Connection Assignment	40		Connect : all CO's	3-42	7-9
Dial Mode (DTMF/Pulse) DTMF / Pulse Selection	41		DTMF : all CO's	3-43	7-9
Pulse Speed Selection	42		Low speed : all CO's	3-44	7-9
Trunk Group Assignment	44		Trunk-G1 : CO 1 Trunk-G2 : CO 2 Trunk-G3 : CO 3 Trunk-G4 : CO 4 Trunk-G5 : CO 5 Trunk-G6 : CO 6 Trunk-G7 : CO 7 Trunk-G8 : CO 8, CO 9 CO 10, CO 11 CO 12	3-46	7-10
Flexible Outward Dialing Assignment Day Mode	45		Enable : all jack numbers	3-47	7-11
Night Mode	46		Enable : all jack numbers	3-48	7-12
Flexible Ringing Assignment Day Mode	47		Enable : all jack numbers	3-49	7-13
Night Mode	48		Enable : all jack numbers	3-51	7-14

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	PAGE	
				FOR DETAILS	PROGRAM TABLE
CO Direct In Line Assignment Day Mode	51	● Selecting "Normal" mode NEXT NEXT SELECT MEMORY END Normal until the desired CO number appears ● Selecting "DIL" mode NEXT NEXT SELECT CD MEMORY END DIL Dial jack number until the desired CO number appears	Normal : all CO's	3-54	7-19
Night Mode	52	● Selecting "Normal" mode NEXT NEXT SELECT MEMORY END Normal until the desired CO number appears ● Selecting "DIL" mode NEXT NEXT SELECT CD MEMORY END DIL Dial jack number until the desired CO number appears	Normal : all CO's	3-57	7-19

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Host PBX Access Codes Assignment	43	Refer to page 3-45	7-10
Delayed Ringing Assignment Day Mode	49	Refer to page 3-52	7-15 7-16
Night Mode	50	Refer to page 3-53	7-17 7-18

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Pause Time Assignment	53	Refer to page 3-59	7-20
Hookswitch Flash Timing	54	Refer to page 3-60	7-20
Calling Party Control (CPC) Signal	55	Refer to page 3-61	7-20
Disconnect Time	56	Refer to page 3-62	7-20

Extension Feature

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	PAGE	
				FOR DETAILS	PROGRAM TABLE
Extension Group Assignment	60	NEXT NEXT A MEMORY END dial the extension group number (1 through 8) until the desired jack number appears	EXT GRP-1 : all jack numbers	3-63	7-21
Call Transfer To Outside Line	65	NEXT NEXT SELECT MEMORY END Enable / Disable until the desired jack number appears	Disable : all jack numbers	3-71	7-23

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	PAGE FOR DETAILS	PAGE PROGRAM TABLE
Service Class Assignment of Toll Restriction Day Mode	61	NEXT NEXT C MEMORY END C: dial the service class number (1 through 8) NEXT: until the desired jack number appears	Class 1 : all jack numbers	3-64	7-21
Night Mode	62	NEXT NEXT C MEMORY END C: dial the service class number (1 through 8) NEXT: until the desired jack number appears	Class 1 : all jack numbers	3-66	7-22
Call Forwarding To Outside Line	66	NEXT NEXT SELECT MEMORY END SELECT: Enable / Disable NEXT: until the desired jack number appears	Disable : all jack numbers	3-72	7-23
Excecutive Override	67	NEXT NEXT SELECT MEMORY END SELECT: Enable / Disable NEXT: until the desired jack number appears	Disable : all jack numbers	3-73	7-23
Do not Disturb Override	68	NEXT NEXT SELECT MEMORY END SELECT: Enable / Disable NEXT: until the desired jack number appears	Disable : all jack numbers	3-74	7-24

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Extension Name	63	Refer to page 3-68	7-1
Account Code Input Mode	64	Refer to page 3-70	7-22

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Ringing Assignment from Doorphone Day Mode	70	Refer to page 3-75	7-24
Night Mode	71	Refer to page 3-76	7-25

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	PAGE FOR DETAILS	PAGE PROGRAM TABLE
System Data Clear	99	● All Parameters ● System Parameter ● Speed Call NEXT SELECT MEMORY END SELECT: All Para / System Para / CO Para / EXT Para / DSS Para / Speed Call ● CO Parameter NEXT SELECT MEMORY AB MEMORY END AB: dial CO number NEXT: until the CO Para appears ● EXT Parameter NEXT SELECT MEMORY AB MEMORY END AB: dial jack number NEXT: until the EXT Para appears ● DSS Parameter NEXT SELECT MEMORY A MEMORY END A: dial DSS number (1 or 2) NEXT: until the DSS Para appears	All Parameters	3-78	

OPERATION FOR EMSS PROPRIETARY TELEPHONE
(Quick Reference)

MAKING CALLS

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

		For further details, see page below
INTER OFFICE CALLING (Intercom)	Dial extension no. (100 through 199)	4 - 1
OUTWARD DIALING Individual Line Access	Dial phone number	4 - 2
Automatic Line Access	Dial phone number	4 - 2
Individual Trunk Group Access	Dial Trunk Group number (1 through 8) → Dial phone number	4 - 3
SPEED DIALING	Dial speed access code (00 through 99)	4 - 3
ONE TOUCH DIALING	(Press the PROGRAMMABLE FEATURE button.)	4 - 4

WHEN A LINE IS BUSY

					For further details, see page below
AUTOMATIC CALL BACK BUSY For Outside Calls	Hear a busy tone		Hang up handset or press "SP-PHONE"		4 - 7
For Intercom Calls	Dial extension no. (100 through 199)	Hear a busy tone		Hang up handset or press "SP-PHONE"	
BUSY STATION SIGNALING	Dial extension no. (100 through 199)	Hear a busy tone			4 - 8
LAST NUMBER REDIAL	Lift handset or press "SP-PHONE"				4 - 8
EXECUTIVE OVERRIDE (Barge-in)	Dial extension no. (100 through 199)	Hear a busy tone			4 - 9

RECEIVING CALLS

				For further details, see page below
ANSWER	Lift handset	or	You may press the CO or ICM button.	4 - 10
DIAL CALL PICKUP	Lift handset or press "SP-PHONE"		● You may dial the ringing extension number instead of 0.	4 - 11

WHILE HAVING A CONVERSATION

CALL PARK	To park a call [HOLD] [ABC 2] Dial parking station no.(20 through 29) Hear 1 beep	4 - 12
	To retrieve a parked call at any extension [JKL 5] Dial parked station no.(20 through 29)	
CALL ON HOLD	To place call on hold [HOLD]	4 - 14
	To retrieve (Outside calls on hold) ● at the holding extension [CO] [flashing slowly in green] ● from another extension [CO] [flashing slowly in red] (Intercom call on hold) ● at the holding extension [ICM] ● from another extension [JKL 5] Dial holding extension no. (100 through 199)	
CONFERENCE	[CONF] Dial 2nd party Consult with 2nd party [CONF]	4 - 16
CALL TRANSFER-TO EXTENSION To Transfer after the Other Extension Answers	[TRANSFER] Dial extension no. (100 through 199) Announce and wait for answer Hang up	4 - 18
TO OUTSIDE LINE To transfer after the Other Outside party Answers	[TRANSFER] [CO] Dial phone no. Announce and wait for answer Hang up	4 - 19
CALL WAITING To place the Original Call on Hold and Talk to the New Caller	Hear a call waiting tone [HOLD] [CO] or [ICM] Consult with new caller while original call is on hold ● To terminate the original call and talk to the new caller, you need not to press the HOLD button.	4 - 20

PAGING

Lift the handset or press the SP-PHONE button first.

PAGING ALL EXTENSIONS To Access	[DEF 3] [DEF 3] [OPER 0] Hear 1 beep Page Wait for answer and talk	4 - 23
PAGING GROUP To Access	[DEF 3] [DEF 3] Dial extension group (1 through 8) Hear 1 beep Page Wait for answer and talk	4 - 24
ANSWER To Paging through Built-in Speaker	[GHI 4] [DEF 3] Hear 1 beep Talk	4 - 25

OTHER FEATURES

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

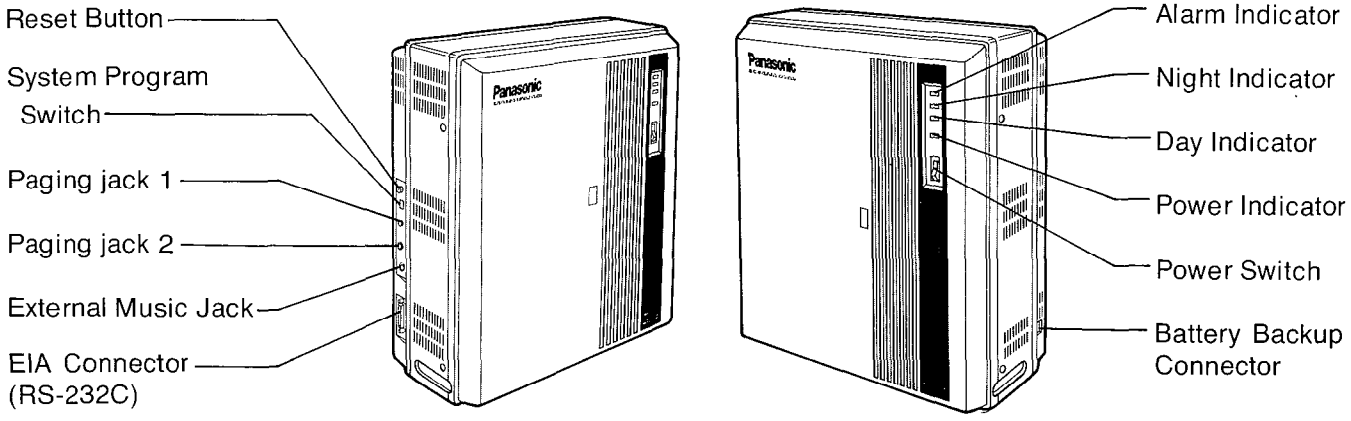
CALL FORWARDING All Calls	Setting: FWD/DND, 1, Dial extension no. (100 through 199), #	4 - 26
Busy or No Answer	Setting: FWD/DND, ABC 2, Dial extension no. (100 through 199), #	
To Outside Line	Setting: FWD/DND, DEF 3, WXY 9, Dial phone number, #	4 - 28
	To cancel: FWD/DND, OPER 0, #	4 - 26 4 - 28
DO NOT DISTURB	Setting: FWD/DND, GHI 4, # / To cancel: FWD/DND, OPER 0, #	4 - 30
ABSENT MESSAGE CAPABILITY	Setting Message1. "Will Return Soon": PRS 7, JKL 5, 1, # / To cancel: PRS 7, JKL 5, OPER 0, # Message2. "Gone Home": PRS 7, JKL 5, ABC 2, # Message3. "At Ext extension no.": PRS 7, JKL 5, DEF 3, Dial extension no. (100 through 199), #	4 - 34
MESSAGE WAITING To Leave the Message at each Extension from the Operator	Dial extension no. (100 through 199), MESSAGE, Hear 1 beep	4 - 36
To Call the Operator from the Extension where the Messege is left.	MESSAGE, Talk	
To Cancel the Message which is left in the extension.	From the extension: PRS 7, OPER 0, # / From the operator: Dial extension no. (100 through 199), MESSAGE, MESSAGE	
FLEXIBLE NIGHT SERVICE (Extension of jack no 01 only)	Setting: PRS 7, TUV 8, ABC 2, # / To cancel: PRS 7, TUV 8, 1, #	4 - 37
SAVED NUMBER REDIAL	Programming: AUTO MEMORY, SAVE / Dialing: SAVE	4 - 31
STATION FEATURE CLEAR	PRS 7, WXY 9, # ●Following features can be canceled. Dial Call Pickup Deny, Do Not Disturb, Call Forwarding, Call Waiting Tone Deny, Data Line Security, Absent message capability, Background Music, Executive Override Deny. Message Waiting.	4 - 45

STATION PROGRAMMING

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

AUTO CO HUNTING Prime Line Preference-Outgoing	Setting: 1 DEF 3 — Dial CO no. (01 through 12) — AUTO MEMORY To cancel: 1 1 — AUTO MEMORY		4 - 49
Idle Line Preference-Outgoing	Setting: 1 ABC 2 — AUTO MEMORY To cancel: 1 1 — AUTO MEMORY		4 - 50
AUTOMATIC ANSWERING SELECTION Prime Line Preference-Incoming	Setting: ABC 2 DEF 3 — Dial CO no. (01 through 12) — AUTO MEMORY To cancel: ABC 2 ABC 2 — AUTO MEMORY		4 - 51
No Line Preference-Incoming	Setting: ABC 2 1 — AUTO MEMORY To cancel: ABC 2 ABC 2 — AUTO MEMORY		4 - 52
FLEXIBLE CO BUTTON To change into other CO numbers	CO — OPER 0 — Dial CO number (01 through 12) — AUTO MEMORY		4 - 53
To assign into trunk group access number	CO — # — Dial trunk group no.(1 through 8) — AUTO MEMORY		4 - 53
To change into DSS button	CO — 1 — Dial extension no. (100 through 199) — AUTO MEMORY		4 - 54
To change into other all CO numbers	CO — * — AUTO MEMORY		4 - 55
To change into message waiting button	CO1 — DEF 3 — AUTO MEMORY		4 - 55
INTERCOM VOICE ALERTING MODE	Setting: GHI 4 ABC 2 — AUTO MEMORY To cancel: GHI 4 1 — AUTO MEMORY		4 - 56
STATION NUMBER CHECK	MNO 6		4 - 60
F3-ONE TOUCH BUTTON MODE SELECTION (for KX-T30850, KX-T61650, KX-T123250)	PRS 7 — Dial 1 or 2 "1": for Programmable feature "2": for DND/FWD/Account code — AUTO MEMORY		4 - 60
STATION PROGRAM CLEAR	# * AUTO MEMORY ● Following programs can be reset to the default data. Auto CO Hunting, Automatic Answering Selection, Intercom Voice Alerting Mode, CO Line Ringing Selection, Call Waiting Tone Selection, F3-One Touch Button Mode Selection.		4 - 61

NAME AND LOCATION



INSTALLATION

Installation

Cautions

- Avoid installing in the following places. (Doing so may result in malfunction, noise, or discoloration.)

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

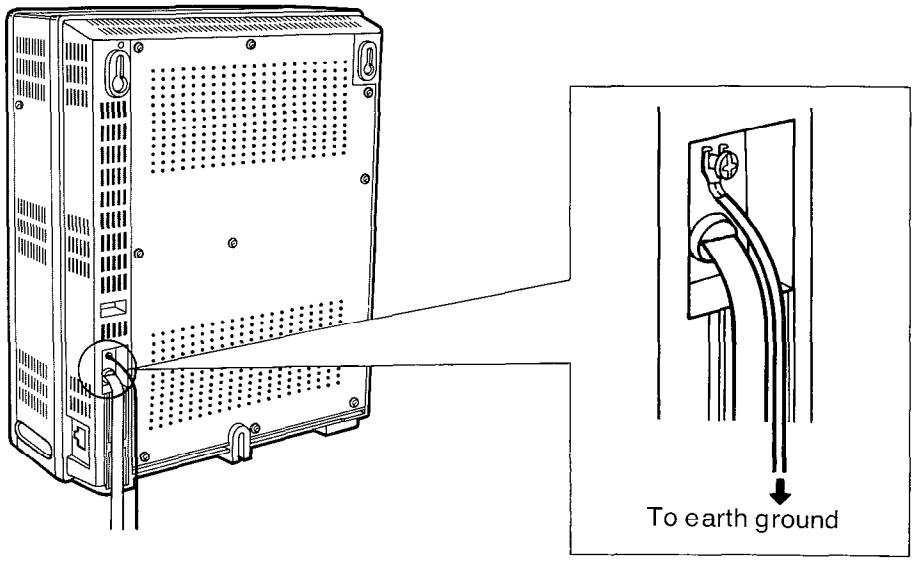
Wiring

Cautions

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

Frame Ground Connection

IMPORTANT!!!
Surely connect the frame of the KX-T123210 to earth ground properly to protect the unit.



In most continental united states, the ground provided by the "third wire ground" at the commercial power outlet will be satisfactory however, in a small percentage this ground may be installed in correctly.
Therefore, the following test procedure should be performed.

Test Procedure

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

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

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

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

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

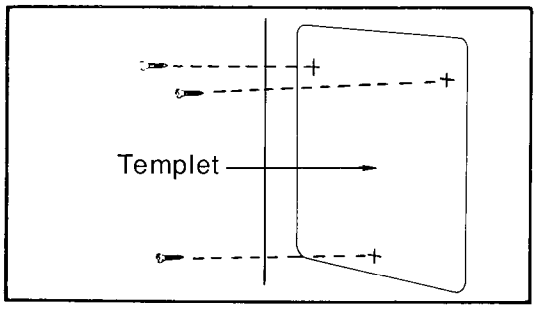
   A reading of less than 1 ohm should be obtained.
   If the reading is not obtained the outlet is not adequately grounded, see qualified electrician.

Wall Mounting

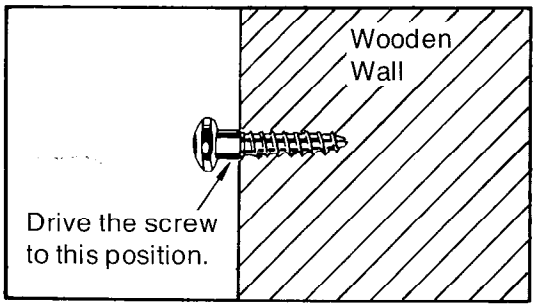
The wall where the KX-T123210 is to be mounted must be able to support the weight of the KX-T123210. If screws other than the ones supplied are used, use the same-sized diameter screws as the enclosed ones.

To Wall Mount:

1. Place the templet (included) on the wall to mark the 3 screw positions.



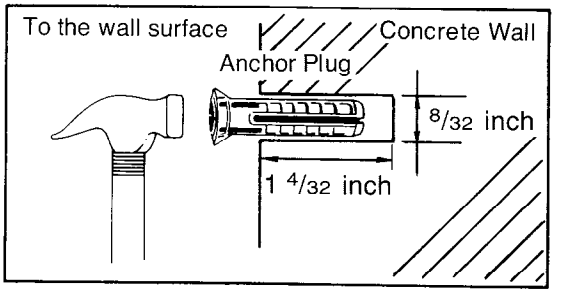
2. Install the 3 screws into the wall.



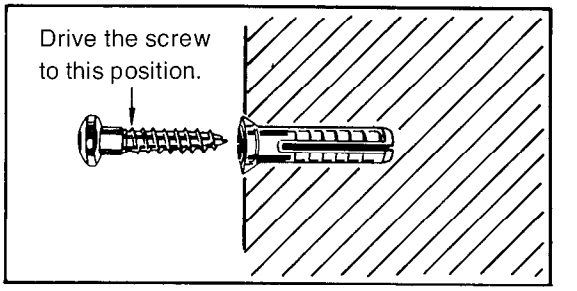
3. Hook the unit on the screw heads.

To Mount on Concrete or Mortar Walls:

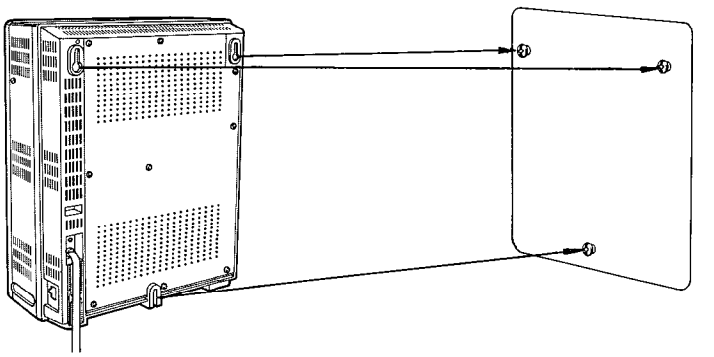
1. Place the templet (included) on the wall to mark the 3 screw positions.
2. Drill 3 holes and drive the anchor plugs (included) with a hammer, flush to the wall.



3. Install the 3 screws into the anchor plugs.

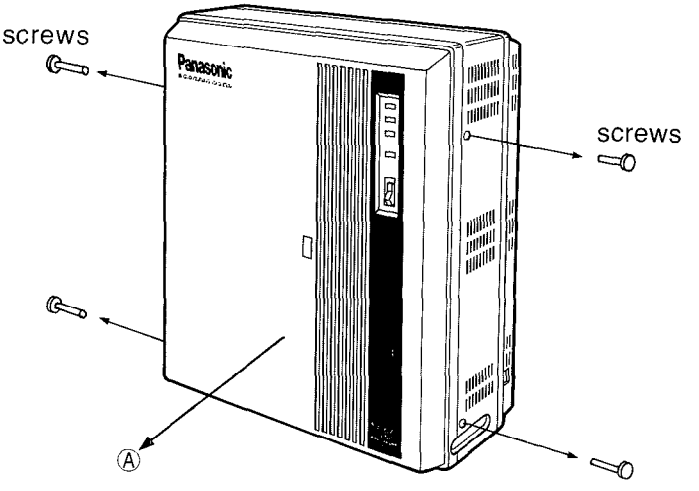


4. Hook the unit on the screw heads.



To remove the front cover from unit

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



Rechargeable Battery Installation

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

1. Connect the battery (included) as shown
   (Fig.1)
2. Install the battery into the battery
   compartment. (Fig.2)
   - Replace the battery every 5 years
     with (P-01H-F2G1). To remove
     connector, depress the lock to release
     and slide (pull) apart connector. (Fig3)

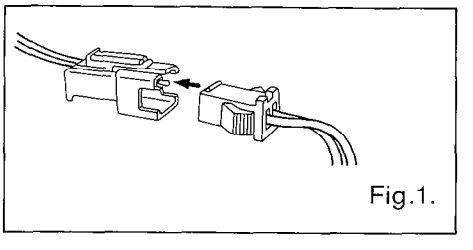


Fig.1.

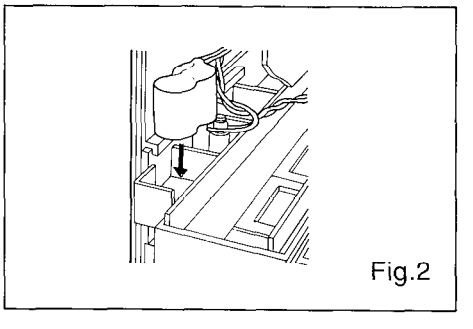


Fig.2

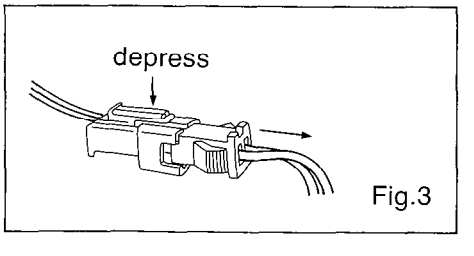
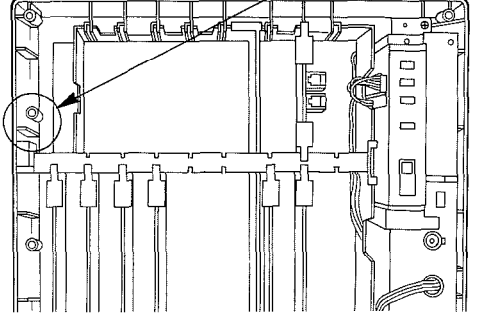


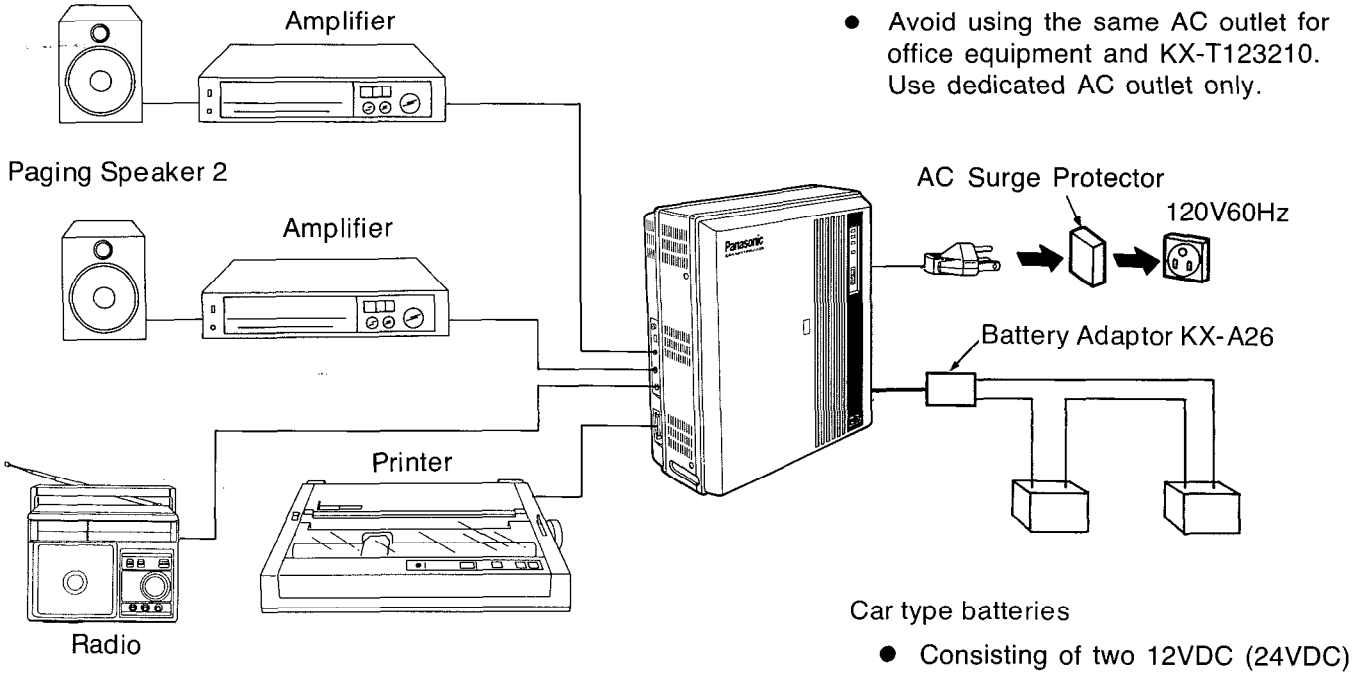
Fig.3



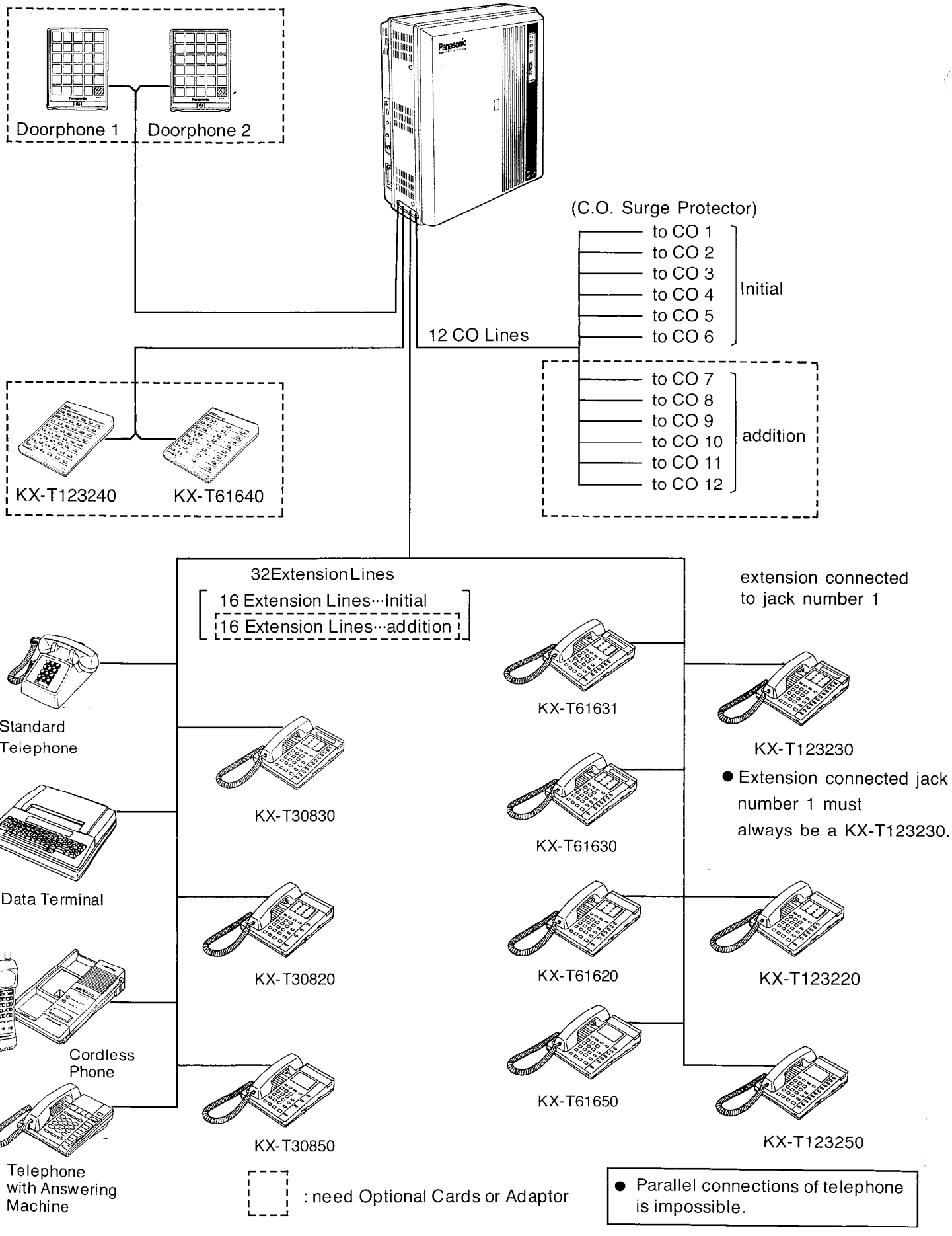
CONNECTION

- The Power Switch of the KX-T123210 must be off during wiring.
  After all the wiring are completed, turn the Power Switch ON.
- Mis-Wiring may cause the KX-T123210 to operate improperly.
  Refer "During Installation" page 6-1 and "During Connection" page 6-2.
- 50 pin configuration and Color coding
  (Refer page 2-11.)
- Max. length and kind of wire
  (Refer pages 2-8, 2-14 and 2-16)
- Insertion of Option Card
  (Refer page 2-9)
- Connection of printer
  (Refer page 2-18)
- If an extension does not operate properly (for example : The LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830 does not display properly.), disconnect the telephone from the extension line and then connect again, or turn OFF the power switch of the KX-T123210 and then ON again.

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



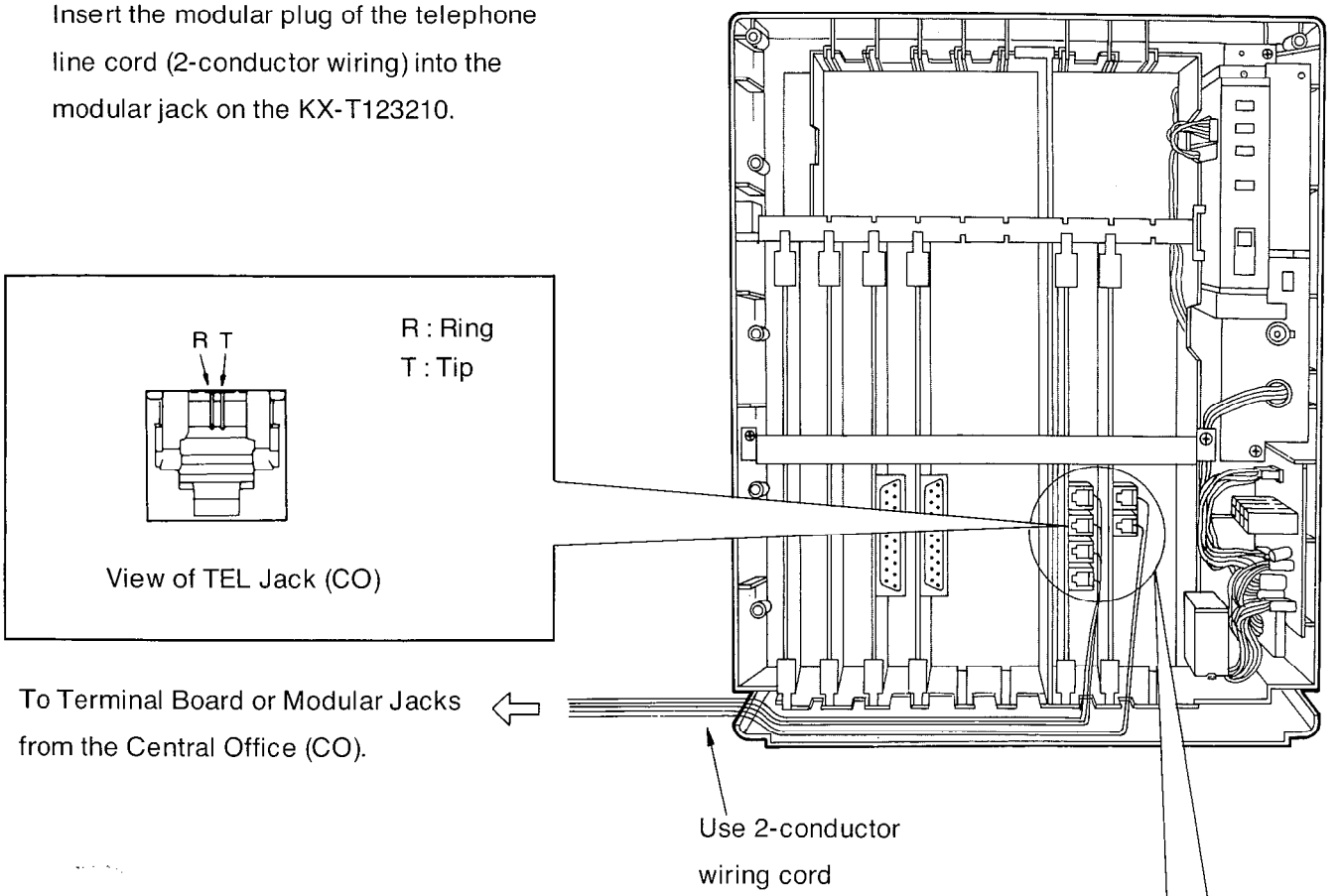
- Avoid using the same AC outlet for office equipment and KX-T123210. Use dedicated AC outlet only.
- Consisting of two 12VDC (24VDC)


Doorphone 1
Doorphone 2
(C.O. Surge Protector)
to CO 1
to CO 2
to CO 3
to CO 4
to CO 5
to CO 6
Initial
12 CO Lines
to CO 7
to CO 8
to CO 9
to CO 10
to CO 11
to CO 12
addition
KX-T123240
KX-T61640
32Extension Lines
16 Extension Lines···Initial
16 Extension Lines···addition
extension connected to jack number 1
Standard Telephone
KX-T30830
KX-T61631
KX-T123230
● Extension connected jack number 1 must always be a KX-T123230.
KX-T61630
Data Terminal
KX-T30820
KX-T61620
KX-T123220
Cordless Phone
KX-T61650
KX-T123250
KX-T30850
Telephone with Answering Machine
: need Optional Cards or Adaptor
● Parallel connections of telephone is impossible.

Central Office Line Connection (CO1 through 6)

- We recommend that telephone CO jack is used RJ11.

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

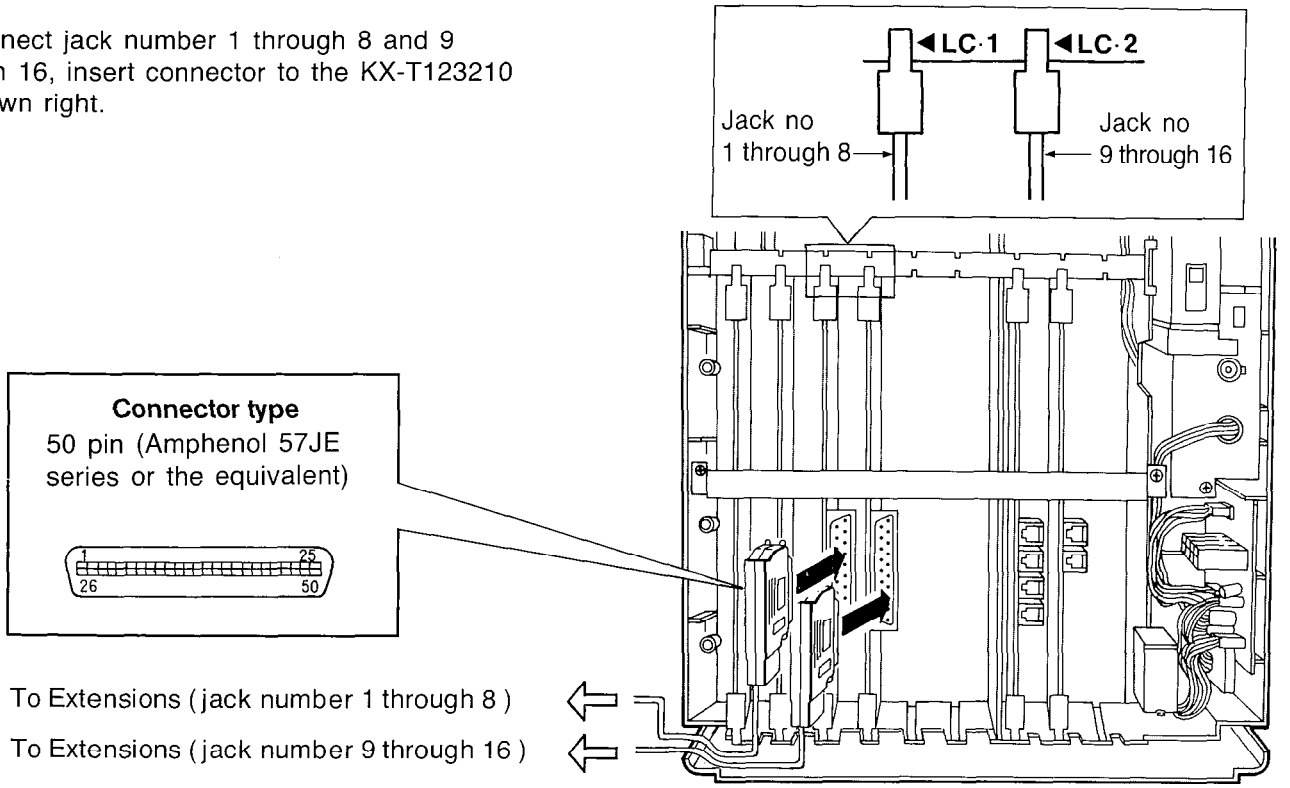


- Mis-connection may cause the KX-T123210 to operate improperly. See "During Installation" page 6-1 and "During Connection" page 6-2 before connecting.

Extension Connection (Jack number 1 through 16)

for Proprietary Telephone (KX-T123220 / KX-T123230 / KX-T123250 / KX-T61620 / KX-T61630 / KX-T61631 / KX-T61650 / KX-T30820 / KX-T30830 / KX-T30850) and a Standard Telephone

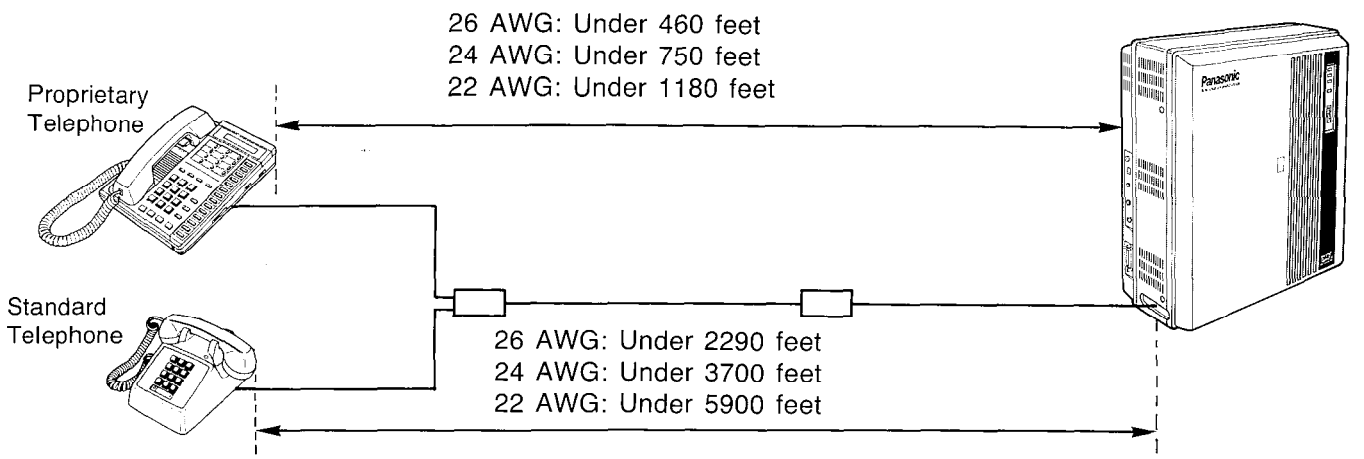
To connect jack number 1 through 8 and 9 through 16, insert connector to the KX-T123210 as shown right.



Cable Pin Numbers to be connected

See page 2-11.

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

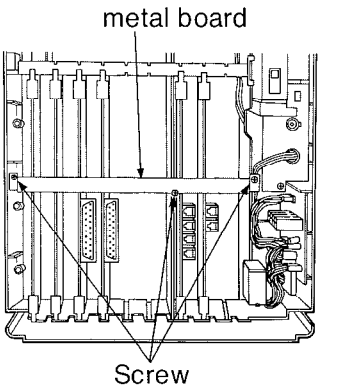


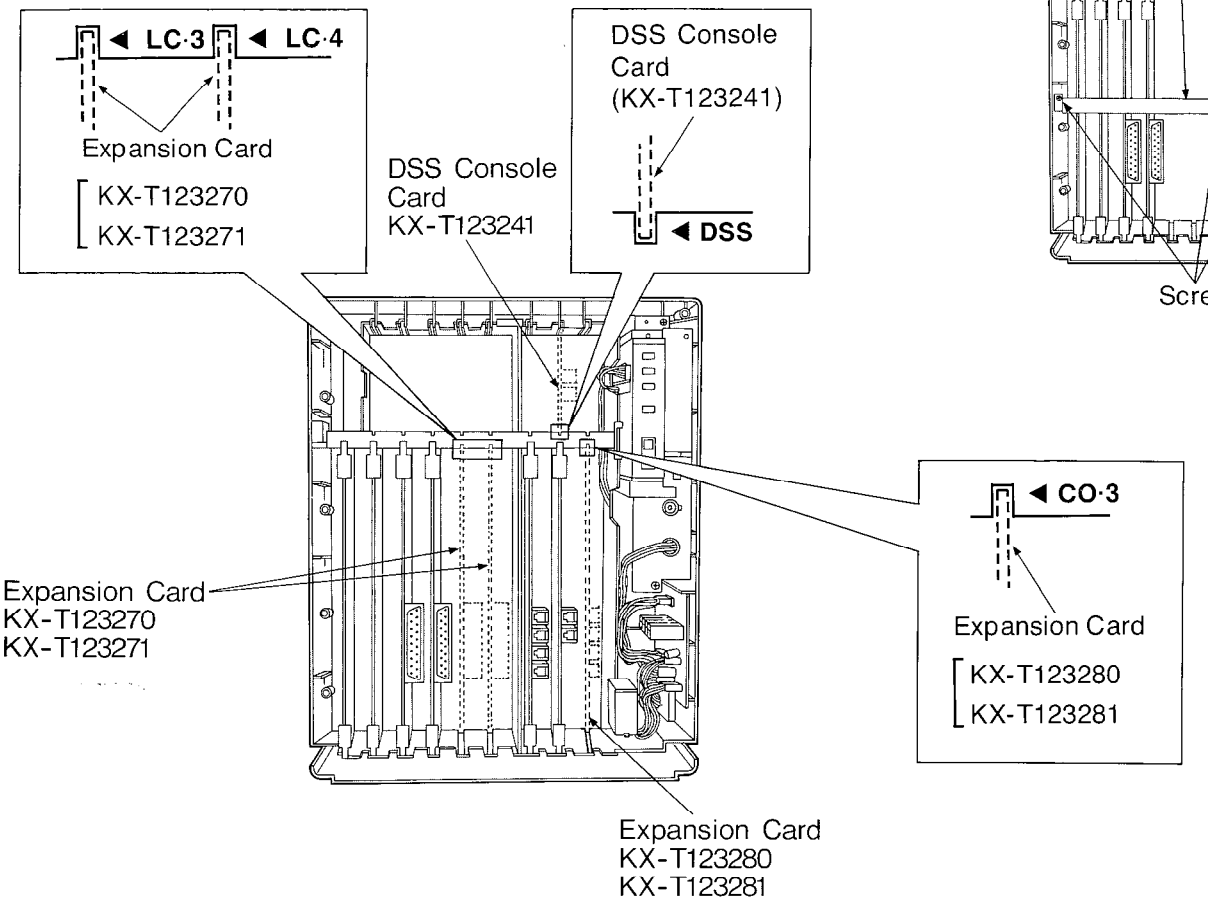
- If a telephone or answering machine with an A-A1 relay is connected to the KX-T123210, set the A-A1 relay switch of the telephone or answering machine to OFF.
- Mis-connection may cause the KX-T123210 to operate improperly.
  See "During Installation" page 6-1 and "During Connection" page 6-2 before connecting.

Optional Cards Installation

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

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





Optional Cards

	Model No	Description	Reference Page
Expansion Cards	KX-T123270	This card adds 8 Extension's.	2-10
	KX-T123271	This card adds 4 Extension's.	2-10
	KX-T123280	This card adds 4 CO's.	2-12, 2-13
	KX-T123281	This card adds 2 CO's.	2-12
DSS Console Card	KX-T123241	The DSS Console requires the DSS Console Card for the operation.	2-14

Extension Connection (Jack number 17 through 24) Option

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

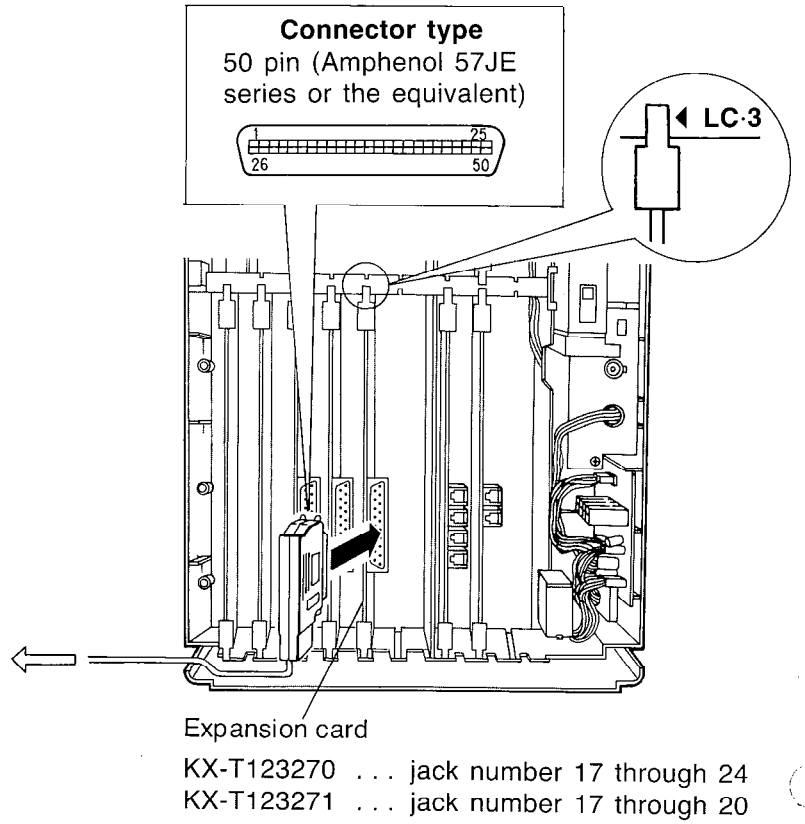
1. Insert the expansion card KX-T123270 or KX-T123271 into the KX-T123210.
2. Insert connector to the KX-T123270 or KX-T123271 as shown at right.

Cable Pin Numbers to be connected

See page 2-11.

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

To Extensions (jack number 17 through 20, or 17 through 24)



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

Extension Connection (Jack number 25 through 32) Option

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

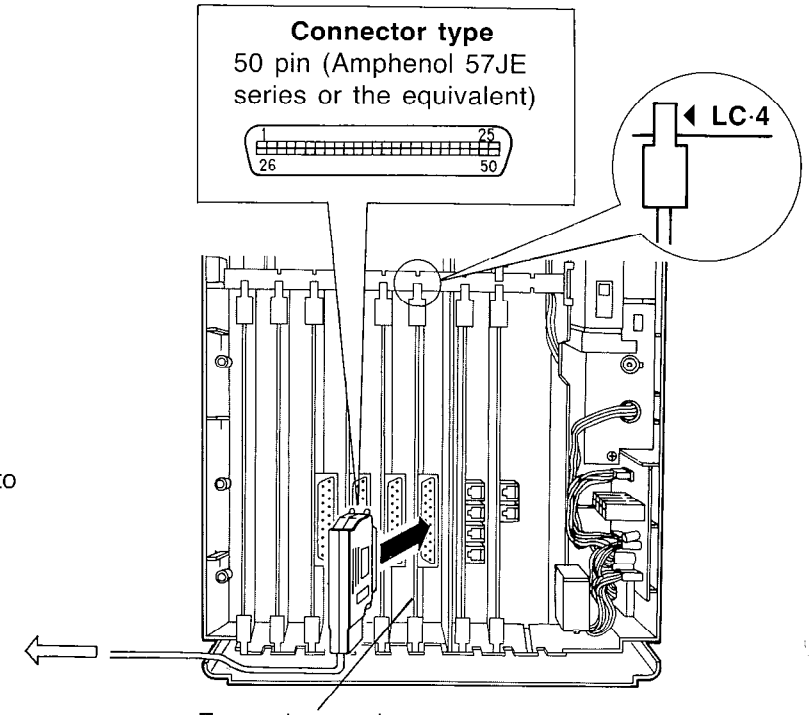
1. Insert the expansion card KX-T123270 or KX-T123271 into the KX-T123210.
2. Insert connector to the KX-T123270 or KX-T123271 as shown at right.

Cable Pin Numbers to be connected

See page 2-11.

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

To Extensions (jack number 25 through 28, or 25 through 32)



KX-T123270 . . . jack number 25 through 32
KX-T123271 . . . jack number 25 through 28

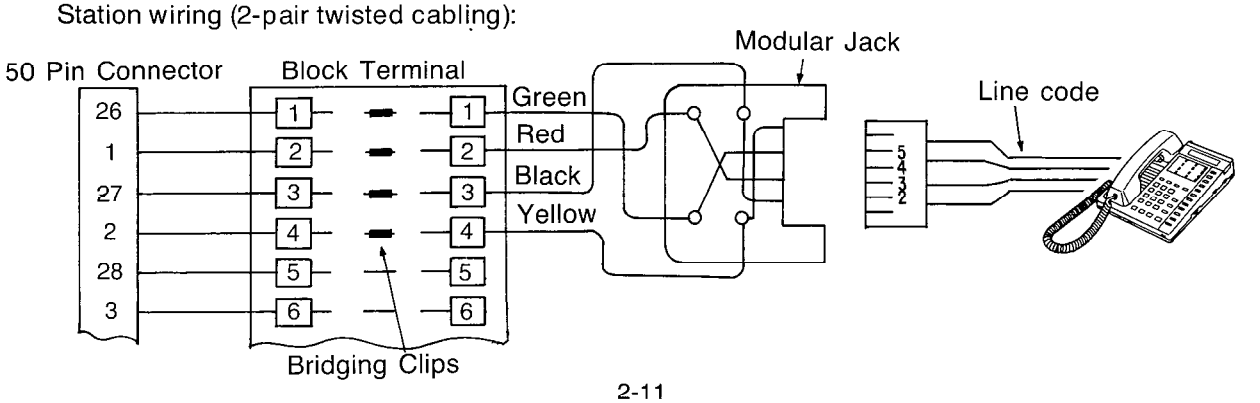
Cable Pin Numbers to be connected

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

- Connection of a Standard Telephone
  Connect the only pin number of "T" and "R".

CONN. PIN	CABLE COLOR	CLIP NO.	LC-1		LC-2		LC-3		LC-4	
26	WHT-BLU	1		T		T		T		T
1	BLU-WHT	2		R		R		R		R
27	WHT-ORN	3	JACK	D1	JACK	D1	JACK	D1	JACK	D1
2	ORN-WHT	4	No.1	D2	No.9	D2	No.17	D2	No.25	D2
28	WHT-GRN	5								
3	GRN-WHT	6								
29	WHT-BRN	7		T		T		T		T
4	BRN-WHT	8		R		R		R		R
30	WHT-SLT	9	JACK	D1	JACK	D1	JACK	D1	JACK	D1
5	SLT-WHT	10	No.2	D2	No.10	D2	No.18	D2	No.26	D2
31	RED-BLU	11								
6	BLU-RED	12								
32	RED-ORN	13		T		T		T		T
7	ORN-RED	14		R		R		R		R
33	RED-GRN	15	JACK	D1	JACK	D1	JACK	D1	JACK	D1
8	GRN-RED	16	No.3	D2	No.11	D2	No.19	D2	No.27	D2
34	RED-BRN	17								
9	BRN-RED	18								
35	RED-SLT	19		T		T		T		T
10	SLT-RED	20		R		R		R		R
36	BLK-BLU	21	JACK	D1	JACK	D1	JACK	D1	JACK	D1
11	BLU-BLK	22	No.4	D2	No.12	D2	No.20	D2	No.28	D2
37	BLK-ORN	23								
12	ORN-BLK	24								
38	BLK-GRN	25		T		T		T		T
13	GRN-BLK	26		R		R		R		R
39	BLK-BRN	27	JACK	D1	JACK	D1	JACK	D1	JACK	D1
14	BRN-BLK	28	No.5	D2	No.13	D2	No.21	D2	No.29	D2
40	BLK-SLT	29								
15	SLT-BLK	30								
41	YEL-BLU	31		T		T		T		T
16	BLU-YEL	32		R		R		R		R
42	YEL-ORN	33	JACK	D1	JACK	D1	JACK	D1	JACK	D1
17	ORN-YEL	34	No.6	D2	No.14	D2	No.22	D2	No.30	D2
43	YEL-GRN	35								
18	GRN-YEL	36								
44	YEL-BRN	37		T		T		T		T
19	BRN-YEL	38		R		R		R		R
45	YEL-SLT	39	JACK	D1	JACK	D1	JACK	D1	JACK	D1
20	SLT-YEL	40	No.7	D2	No.15	D2	No.23	D2	No.31	D2
46	VIO-BLU	41								
21	BLU-VIO	42								
47	VIO-ORN	43		T		T		T		T
22	ORN-VIO	44		R		R		R		R
48	VIO-GRN	45	JACK	D1	JACK	D1	JACK	D1	JACK	D1
23	GRN-VIO	46	No.8	D2	No.16	D2	No.24	D2	No.32	D2
49	VIO-BRN	47								
24	BRN-VIO	48								
50	VIO-SLT	49								
25	SLT-VIO	50								

Station wiring (2-pair twisted cabling):

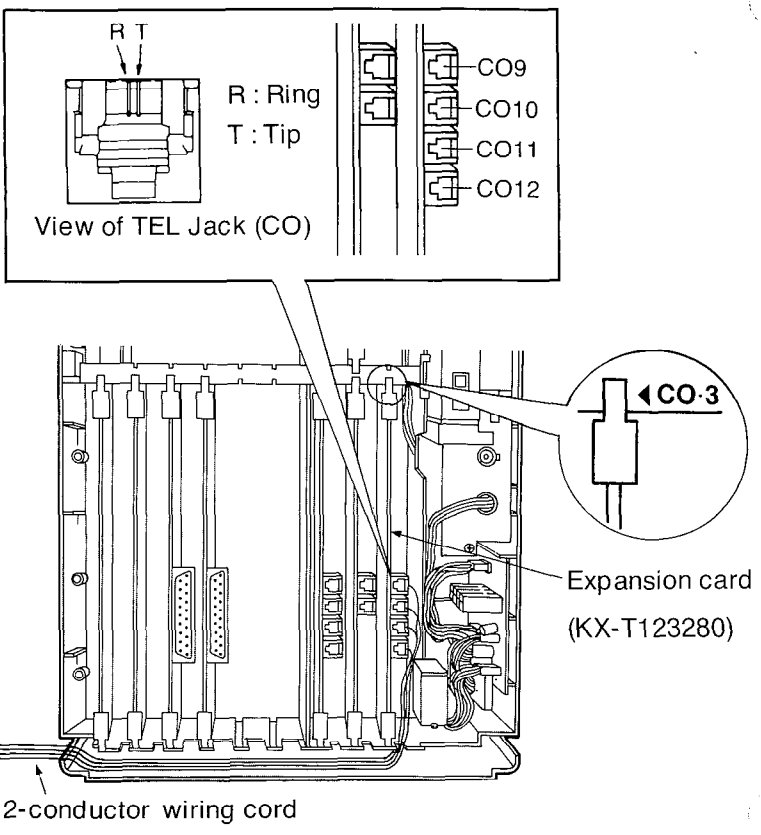


Central Office Line Connection (CO 9 through 12) Option

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

1. Insert the expansion card KX-T123280 into the KX-T123210.
2. Insert the modular plug of the telephone line cord (2-conductor wiring) into the modular jack on the KX-T123280.

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

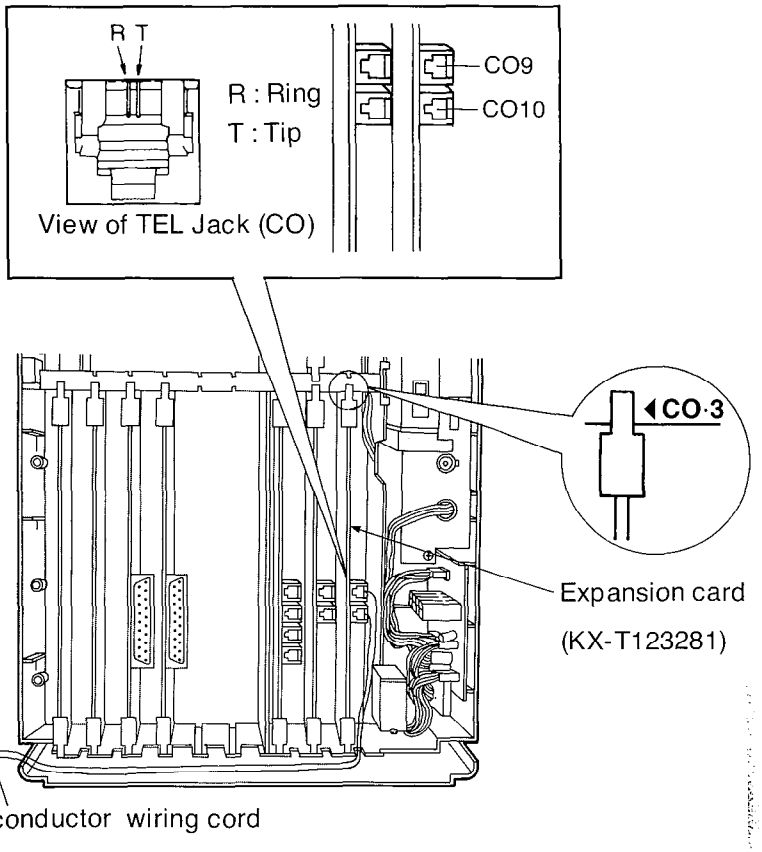


Central Office Line Connection (CO9 and 10) Option

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

1. Insert the expansion card KX-T123281 into the KX-T123210.
2. Insert the modular plug of the telephone line cord (2-conductor wiring) into the modular jack on the KX-T123281.

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

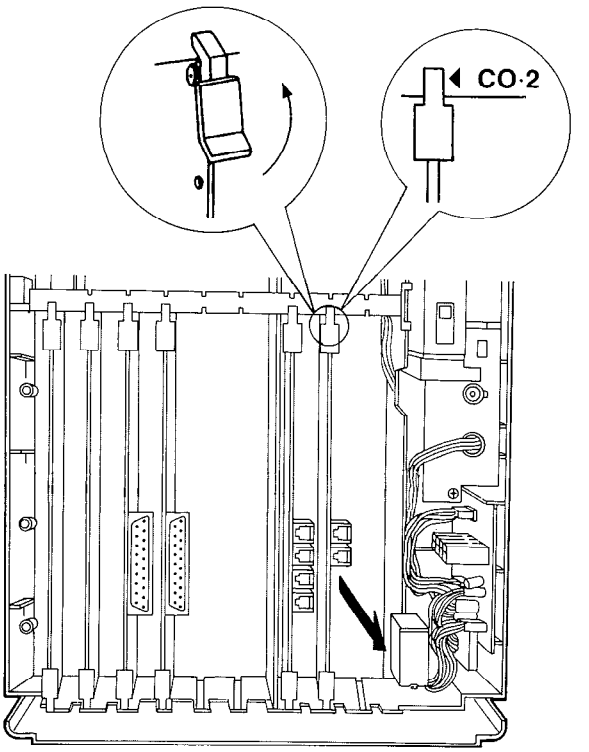


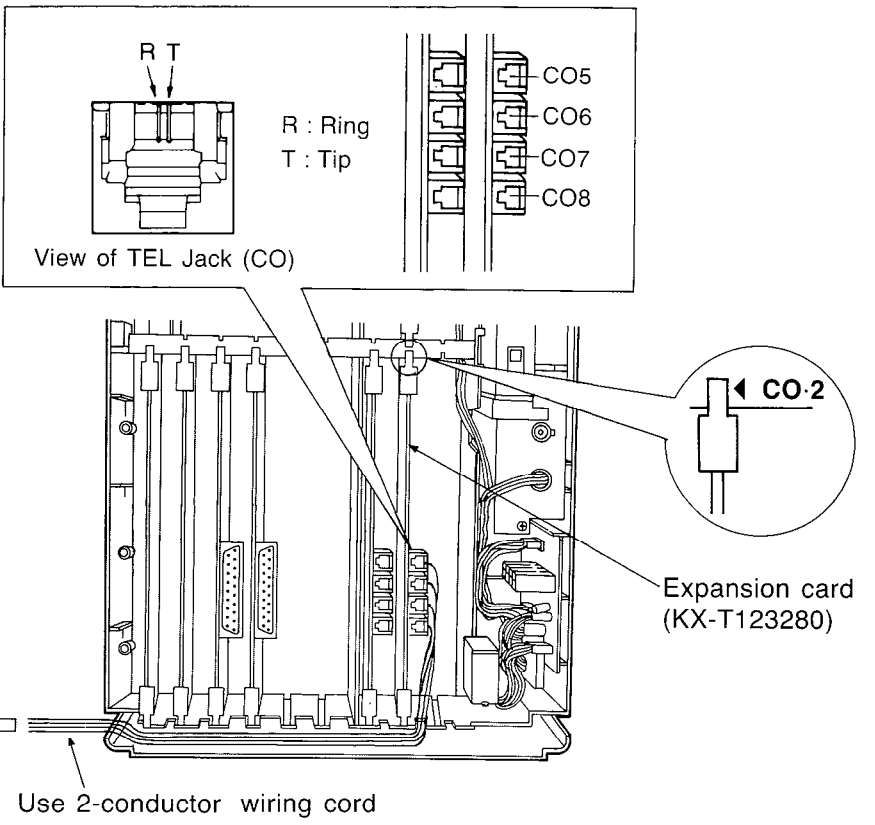
Central Office Line Connection (CO7 and 8) Option

To add two Central Office lines (CO7 and 8), use the optional expansion card KX-T123280.

1. Remove the card which is inserted into groove marked "CO·2".
2. Insert the expansion card KX-T123280 into the KX-T123210.
3. Insert the modular plug of the telephone line cord (2-conductor wiring) into the modular jack on the KX-T123280.

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





Optional DSS Console Connection (KX-T123240/KX-T61640)

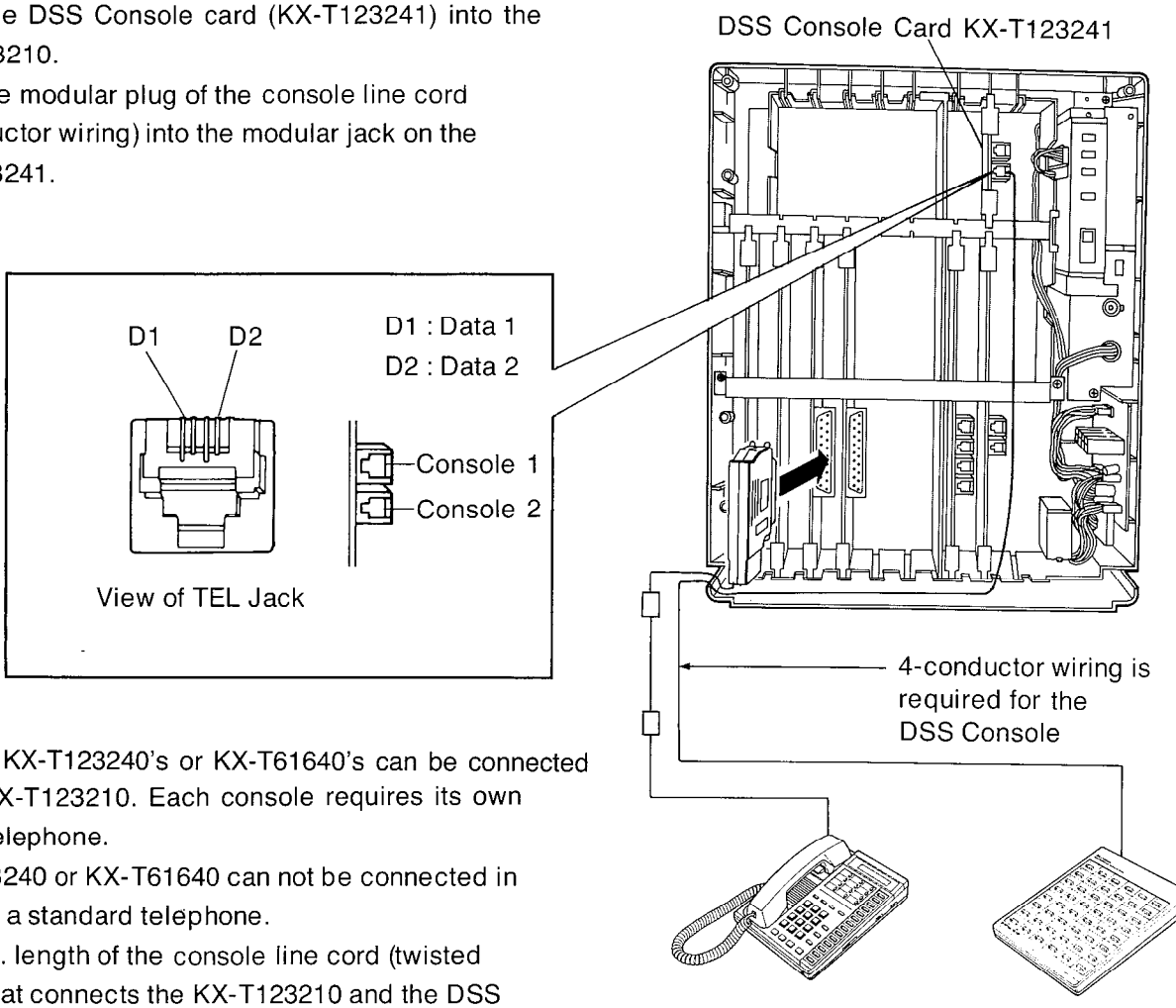
To connect the optional DSS Console (KX-T123240 or KX-T61640), the optional DSS Console card (KX-T123241) is required.

The DSS Console (KX-T123240 or KX-T61640) needs a paired Telephone (EMSS Proprietary Telephone) for proper operation, because the DSS console cannot work by itself.

The EMSS Proprietary Telephone (such as KX-T123220, KX-T123230, KX-T123250, KX-T61620, KX-T61631, KX-T61630, KX-T61650, KX-T30820, KX-T30830, KX-T30850) is required as the paired telephone for dialing, storing, etc.

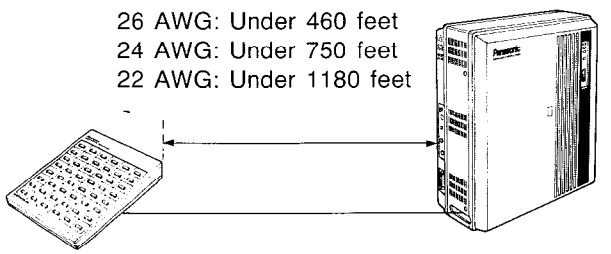
Place the KX-T123240 or KX-T61640 and the paired telephone side by side on your desk.

1. Insert the DSS Console card (KX-T123241) into the KX-T123210.
2. Insert the modular plug of the console line cord (4-conductor wiring) into the modular jack on the KX-T123241.



Notes:

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

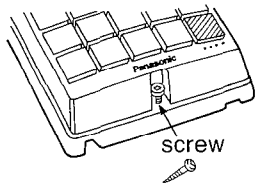


When using the KX-T123240 or KX-T61640, program must be done. Refer to "Paired Telephone Assignment for DSS Console" page 3-10.

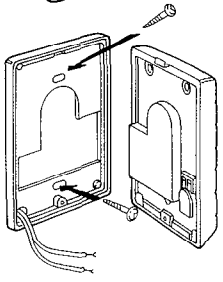
Optional Doorphone Connection (KX-T30865)

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

Installation of the doorphone

1. 

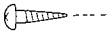
Loosen the screw to separate the doorphone into 2 halves.

2. 

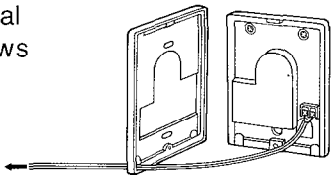
Install the lower case to the wall with 2 screws.

- 2 Kinds of screws are included. Please choose according to your wall type. See the followings.

----When the doorphone plate has been fixed to the wall.


------When you wish to install the doorphone directly to the wall.

3. Connect the wires from the terminal box to the screws located in the upper case.



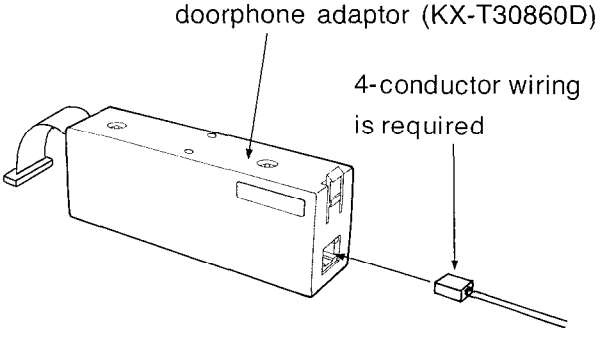
to the terminal box
(See page 2-16)

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

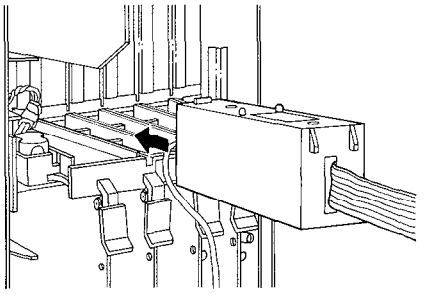
Installation of the Doorphone Adaptor

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

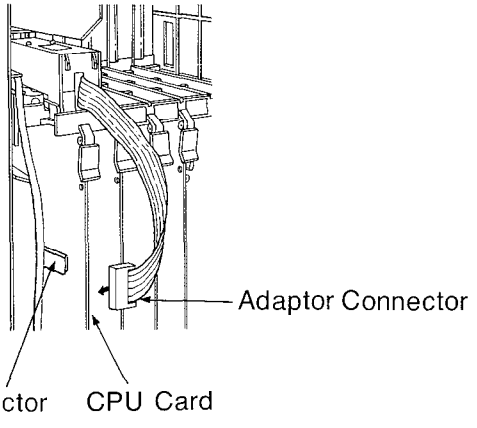
1. Connect a 4-conductor modular connector to the doorphone adaptor.



2. Install the doorphone adaptor into the adaptor compartment.

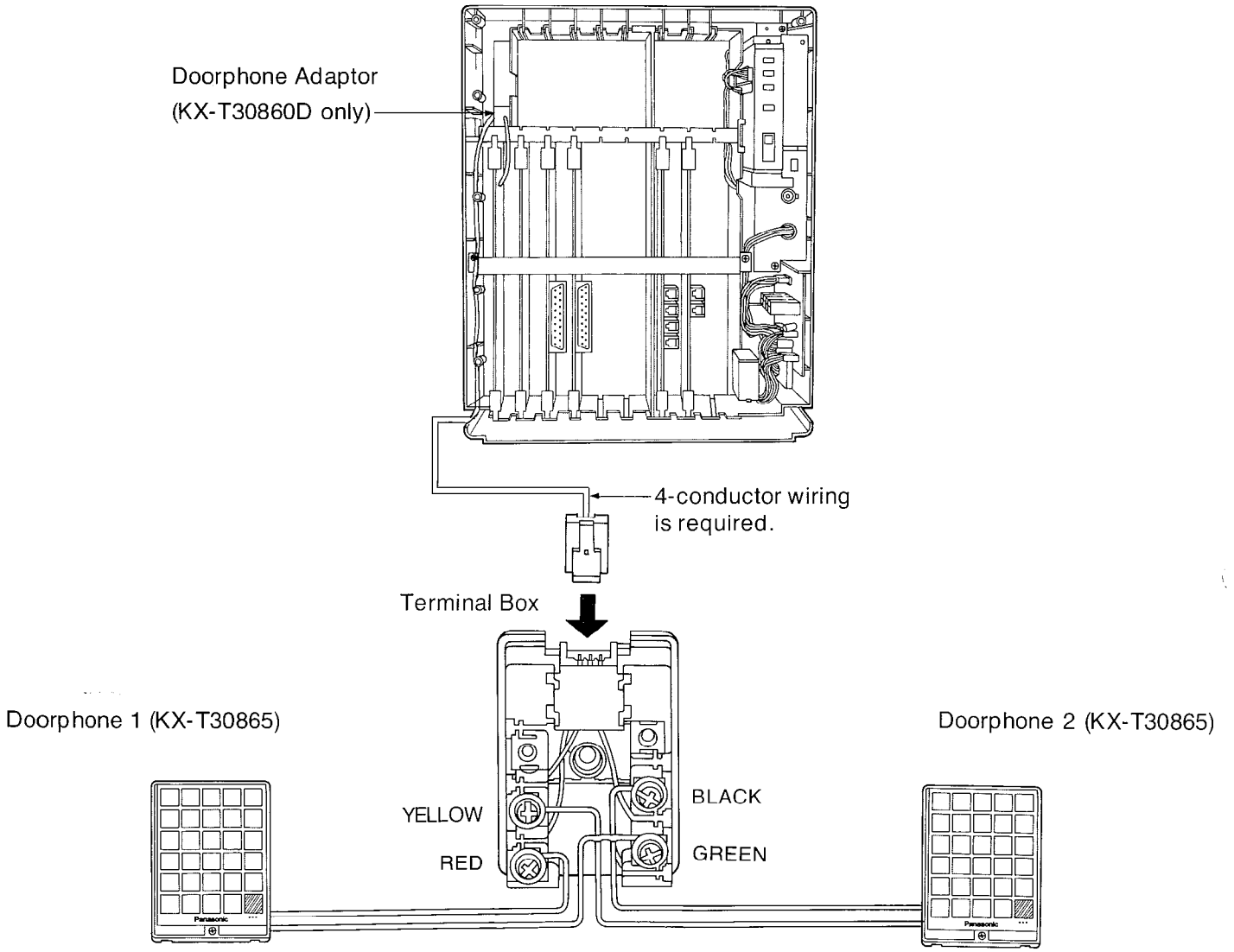


3. After drawing a CPU Card, insert the adaptor connector into connector on the CPU Card (circuit board).

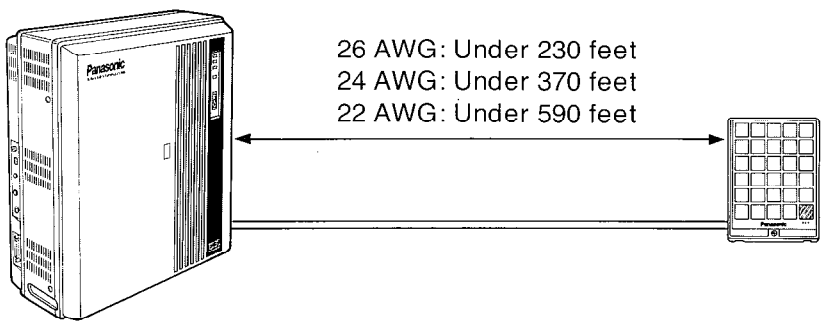


Doorphone Wiring

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



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



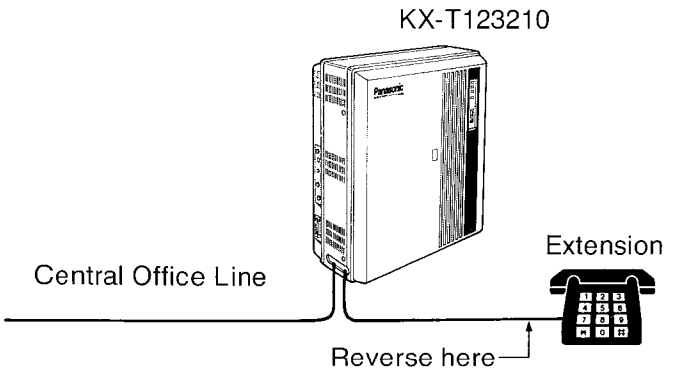
Polarity Sensitive Telephone Connection

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

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

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

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



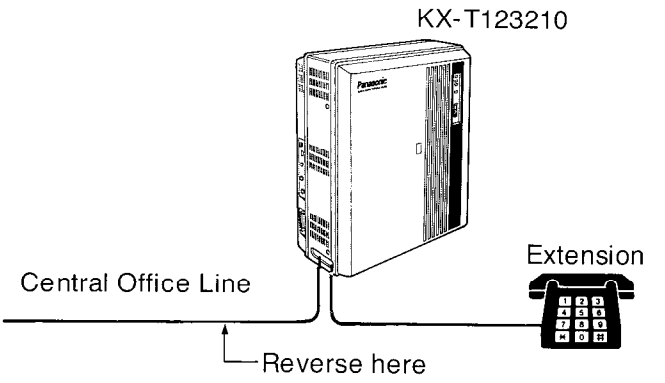
4. Set the Power Switch on the KX-T123210 to the OFF position.

5. Connect all Central Office (CO) Lines.

6. Confirm that dialing can be done on the following extensions using a tone telephone.

   Extension of jack number 1--CO1
   Extension of jack number 2--CO2
   Extension of jack number 9--CO5
   Extension of jack number 10--CO6
   Extension of jack number 17--CO9
   Extension of jack number 18--CO10

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



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

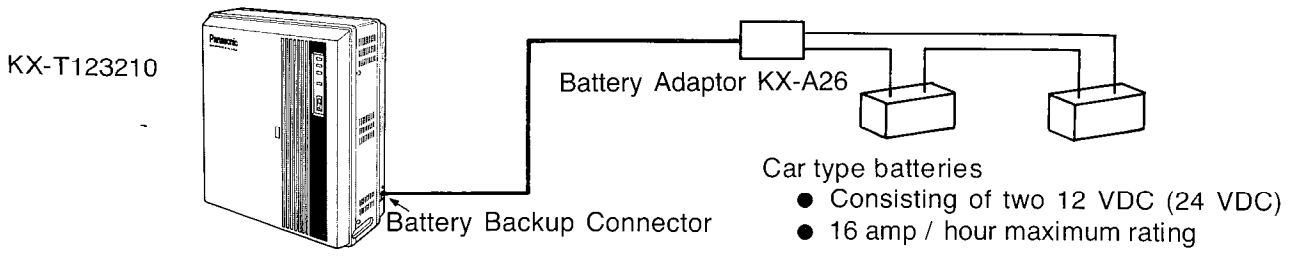
Battery Connection

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

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

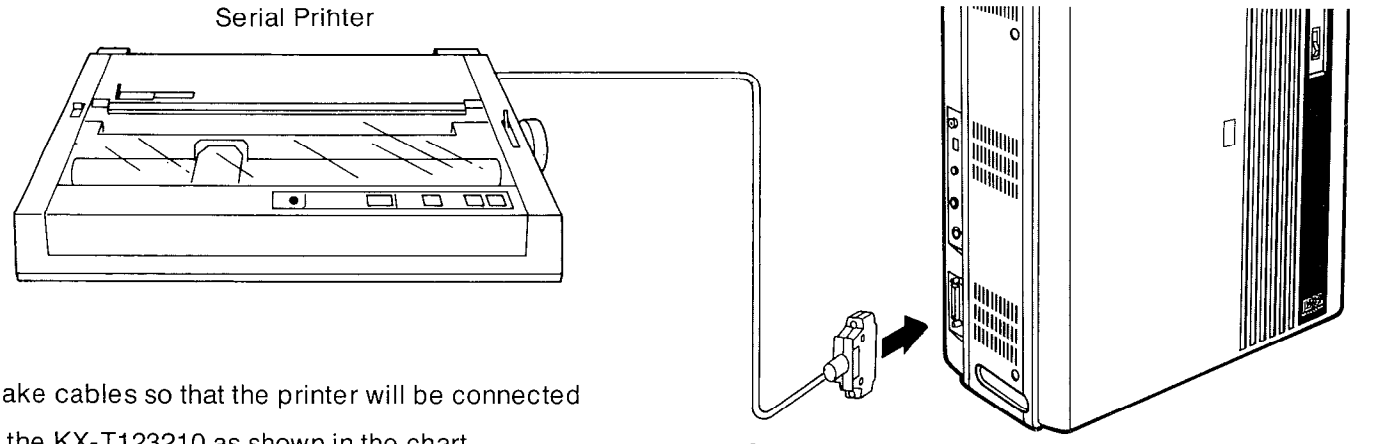
1. Connect the Battery Adaptor KX-A26 to car type batteries.

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



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

Printer Connection



Make cables so that the printer will be connected to the KX-T123210 as shown in the chart.
Cables must be shielded and the maximum length is 6.5 feet.

Connection Chart :

KX-T123210 RS-232C — **Printer RS-232C**

Circuit Type (EIA)	Signal Name	Pin No.	Pin No.	Signal Name	Circuit Type (EIA)
AA	FG	1	1	FG	AA
BA	TXD	2	3	RXD	BB
BB	RXD	3	2	TXD	BA
CB	CTS	5			
CC	DSR	4,6	20	DTR	CD
AB	SG	7	7	SG	AB
CD	DTR	20	5	CTS	CB
			6	DSR	CC
			8	DCD	CF

- **Panasonic data terminal ;**

  KX-D4910D, KX-D4911, KX-D4920, KX-D4985, etc.
  If you connect this unit to a Panasonic Data Terminal, the Communication Parameter Transmit XON / XOFF on the Data Terminal must be set to the "YES" position.
  For further details, see the Operating Instructions of the Data Terminal.

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

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

Pin Number	Signal Name		Circuit Type	
			EIA	CCITT
1	FG	Frame Ground	AA	101
2	TXD	Transmitted Data	BA	103
3	RXD	Received Data	BB	104
4	RTS	Request To Send	CA	105
5	CTS	Clear To Send	CB	106
6	DSR	Data Set Ready	CC	107
7	SG	Signal Ground	AB	102
8	DCD	Data Carrier Detect	CF	109
20	DTR	Data Terminal Ready	CD	108.2

EIA SIGNALS:

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

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

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

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

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

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

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

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

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

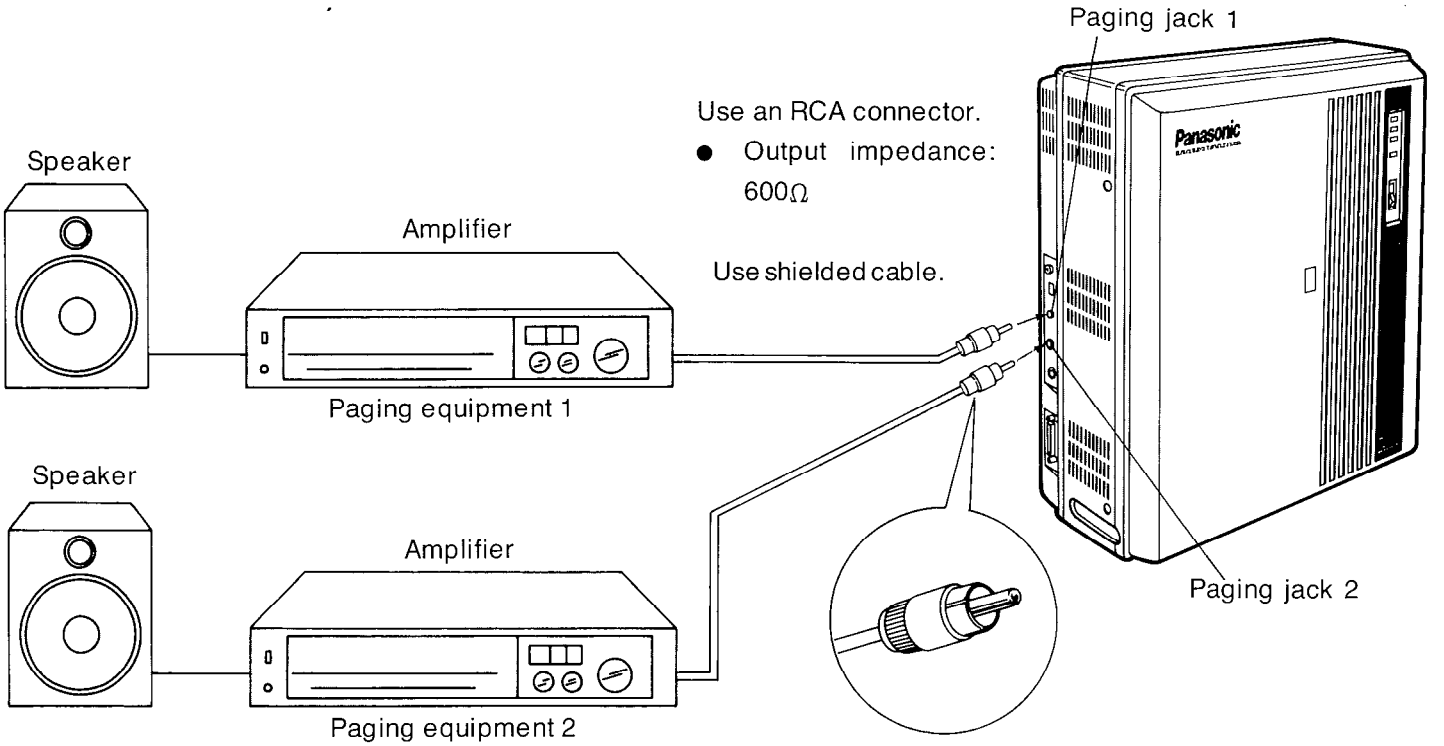
Communication parameter

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

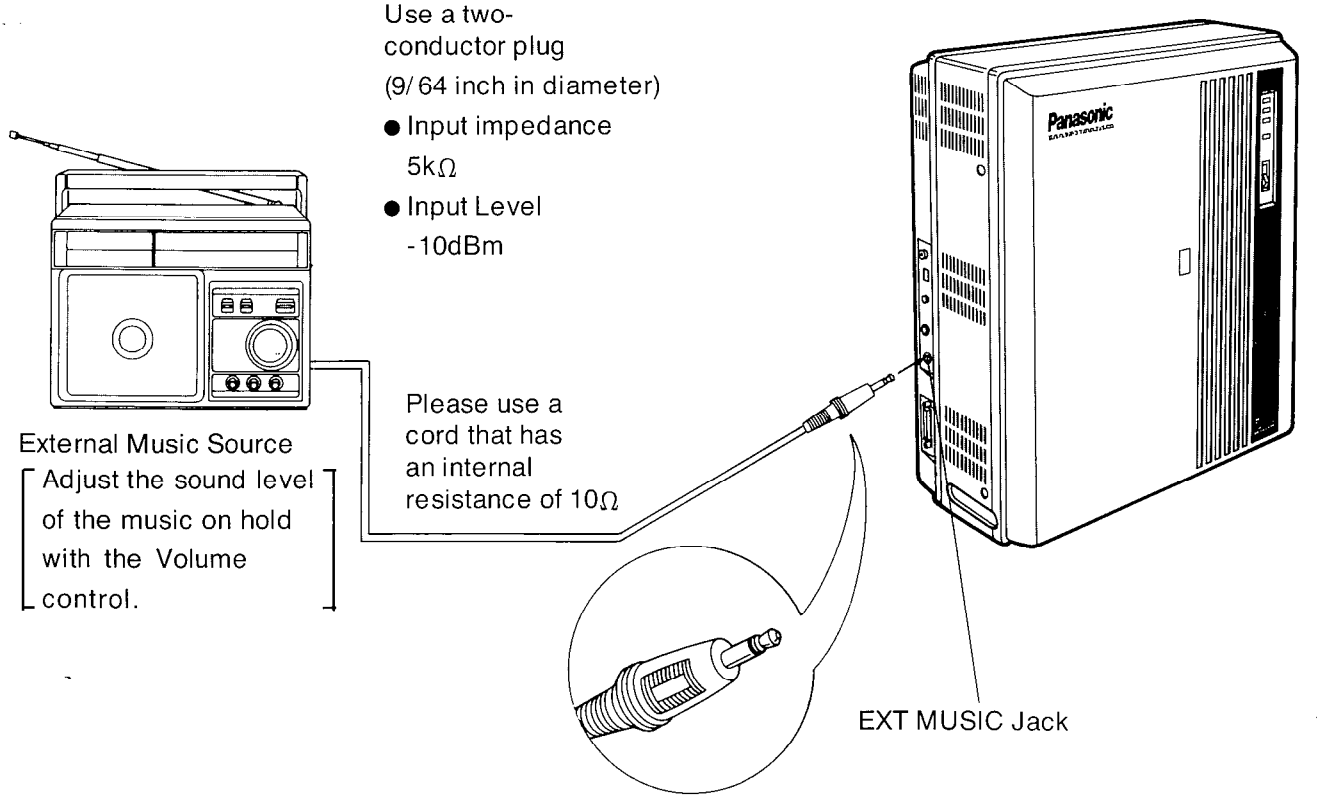
	KX-T123210	KX-P11D		KX-P17	
		DIP switch	Setting	DIP switch	Setting
Word length	7 bit (default)	SW1-1	ON	SW1-4	ON
Parity	Program to "EVEN" (See page 3-32)	SW1-2 SW1-3	ON ON	SW1-5 SW1-6	OFF OFF
Baud Rate	1200B (default)	SW1-5 SW1-6 SW1-7 SW1-8	ON OFF OFF OFF	SW1-1 SW1-2 SW1-3	OFF OFF ON
Protocol	XON / XOFF mode only	SW2-8	OFF	SW1-8	ON

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

Paging Equipment



External Music Source



PROGRAMMING

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

Programming Instructions

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

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

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

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

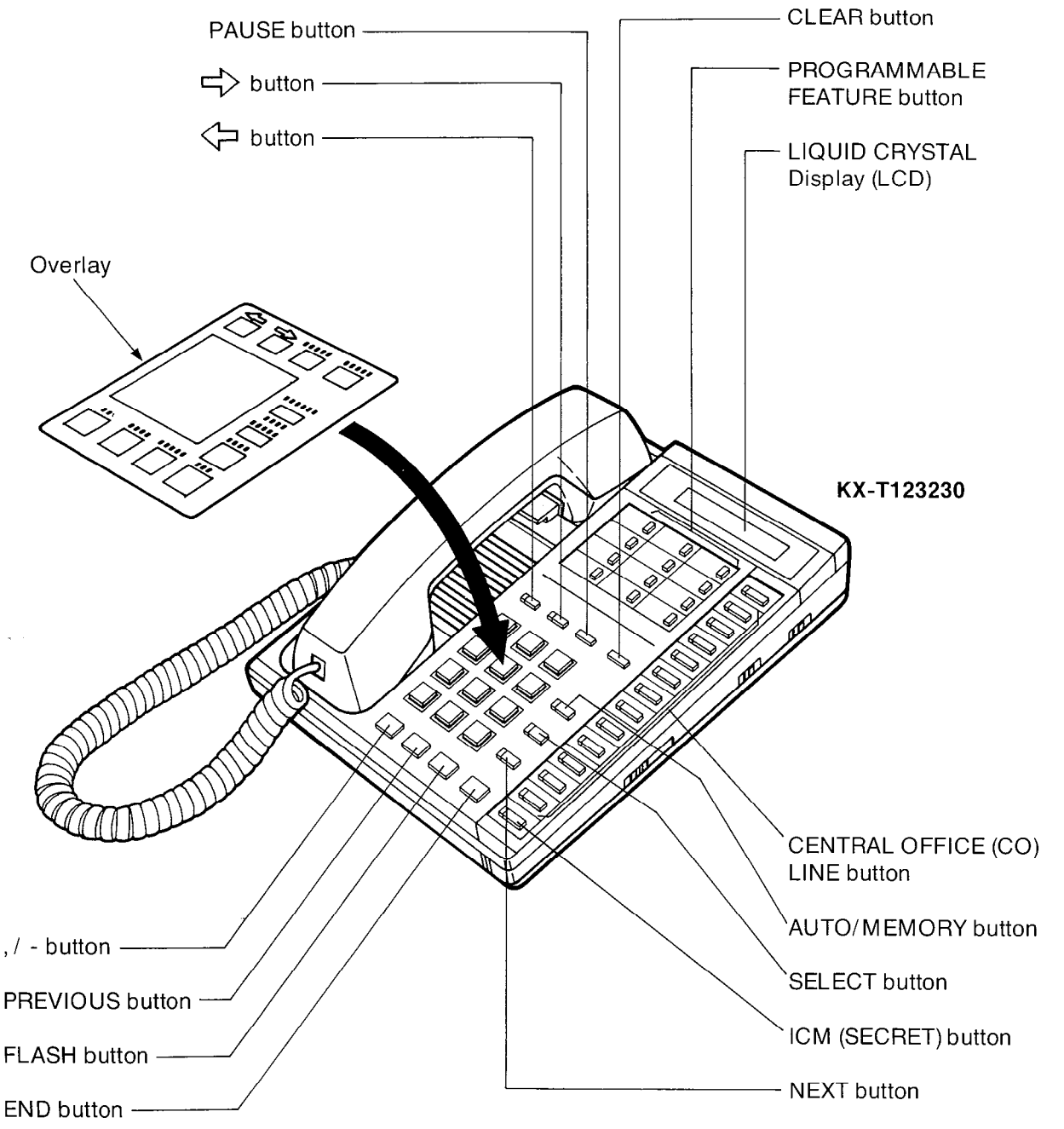
4. Before system programming, operate the system clear to set to the default data of the program. See page 3-78.

   System Clear:
   - Set the System Program Switch of the KX-T123210 to the "PITS" position.

   1. Dial (99).
      "System Clear" will be displayed.
   2. Press the NEXT button.
   3. Repeat pressing the SELECT button until the "Menu: All Para" is displayed.
   4. Press the MEMORY button to clear system.
   5. To return to the initial program mode, press the END button.

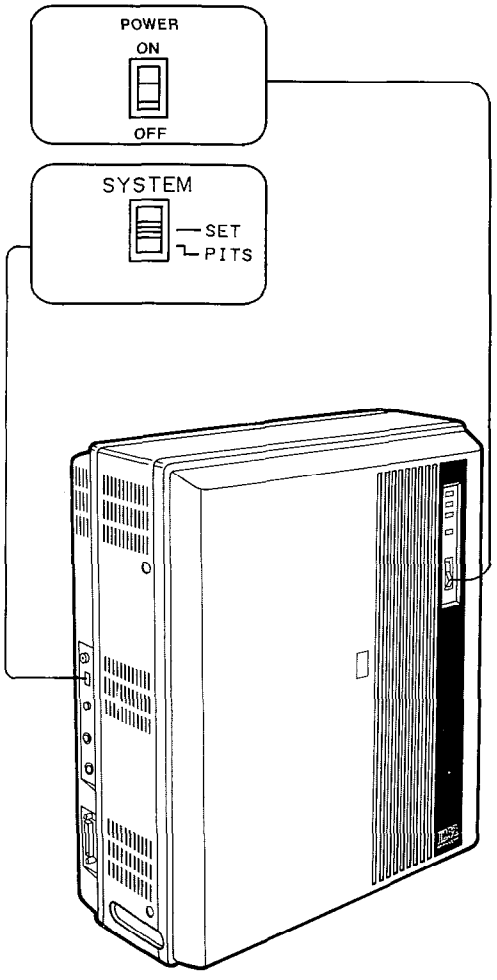
   - The following parameters are preset as the default data.
     System parameters
     CO parameters
     Extension parameters
     DSS parameters
     Speed call

When the System Program Switch on the KX-T123210 is set to the "PITS" position, the operation of the KX-T123230 connected to jack number 01 will change as follows.



Example of Programming

1. Turn the Power Switch to ON.
2. Set the System Program Switch to "PITS" position.
   The LCD on the KX-T123230 will show "SYS-PGM NO ?→".
   - Be sure the handset of the extension connected to jack number 01 is in the cradle and the speakerphone button off.
3. To program automatic line access number 9 and the phone number 987-654-3210 into speed access code 00. (Refer to page 3-5.)



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

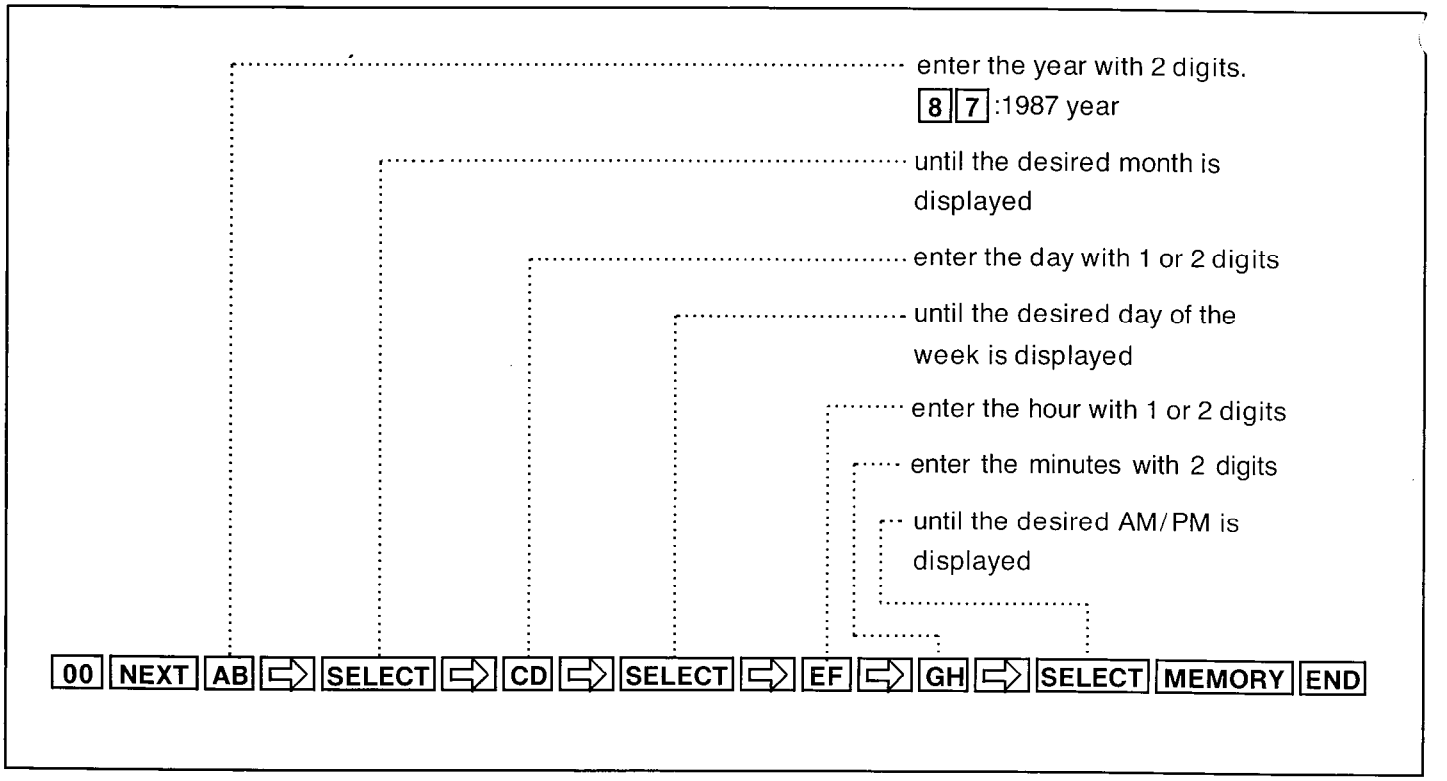
4. Return the System Program Switch to "SET" position.
   - To make program change, start from the beginning.

While programming if a mistake is made,

1. Press the "END" button.
2. Start programming procedure from the beginning.

- You will hear a beep after pressing the MEMORY button.
- The MEMORY indicator light will go on when the MEMORY button is pressed, and then the Indicator light will go out when the NEXT or PREV button is pressed.

Date and Time Setting



Description

Entry of the current day, date and time.

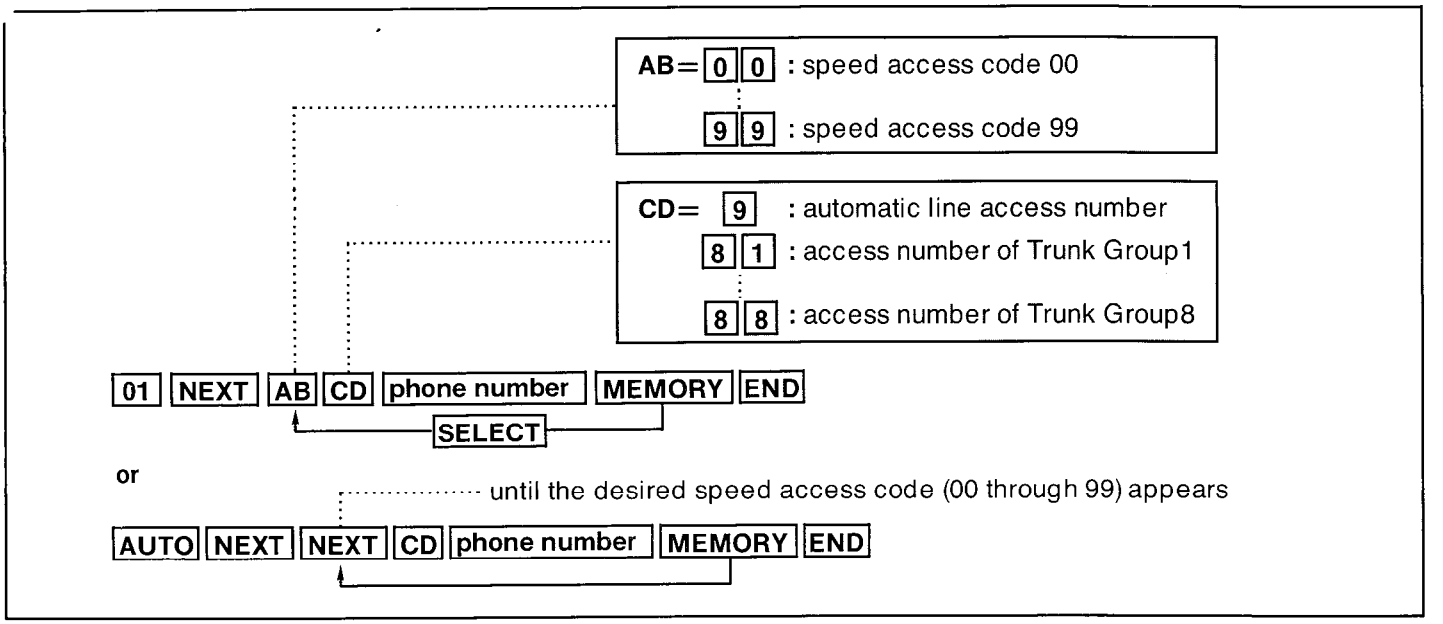
Programming

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

Condition

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

System Speed Dialing Entry



Description

100 system phone numbers can be stored with each number capable of storing 32 digits and may be accessed from any extension.
Pushing the "*", "#" "PAUSE", "—", "FLASH" or "ICM (Secret)" button counts as 1 digit.
Refer to "Speed Dialing" on page 4-3.

Programming

1. Dial (01) or press the AUTO button.
   "Speed Dialing" will be displayed.
2. Press the NEXT button.
   "Speed NO?→" will be displayed.
3. Dial (00 through 99) or press the NEXT button, for speed access code entry.

   Example :

   When dialing (00) or pressing the NEXT button.

   - The LCD will show "00:Not Stored" when nothing is stored in speed access code "00". When the automatic line access number 9 and the phone number 123 - 456 - 7890 are stored, "00: 9- 123- 456- 789" will be displayed.
4. Enter automatic line access number or trunk group number.
   See page 4-2, regarding automatic selection.
   See page 3-46 and 4-3, regarding trunk group.

   9 : automatic line access number
   81 : access number of trunk group 1
   82 : access number of trunk group 2
   83 : access number of trunk group 3
   84 : access number of trunk group 4
   85 : access number of trunk group 5
   86 : access number of trunk group 6
   87 : access number of trunk group 7
   88 : access number of trunk group 8
5. Enter the phone number.
   - You may enter punctuations during a phone number.
   - To erase a wrong entry, press the CLEAR button.
   - When you don't want to display the dialed phone number on the LCD in speed dialing, press the ICM (SECRET) button before and after dialing the phone number that you want to keep secret. Do not press the ICM button before line access number (9 or 81 through 88) and account code.

   Example:

   9-123- ICM 456 ICM
   press the ICM button

   The display shows as follows when programming.

01 : 9-123 [456]

   The display shows as follows when dialing.

-123---

PROGRAMMING

6. Press the MEMORY button.
   - The memory indicator will be lit.
7. - To advance to the next speed access code, press the NEXT button.
   - To return to the previous speed access code, press the PREV button.
   - To go to the desired speed access code, press the SELECT button and then dial the speed access code.
8. Repeat steps 4 to 7, to program the other phone numbers.
9. To return to the initial program mode, press the END button.

To change

Repeat steps 1 to 9.

To erase after programming

1. Dial (01) or press the AUTO button.
   "Speed Dialing" will be displayed.
2. Press the NEXT button.
   "Speed NO ? →" will be displayed.
3. Dial (00 through 99) or press the NEXT button, for speed access code entry.
   The speed access code and the phone number will be displayed.
4. Press the CLEAR button.
5. Press the MEMORY button.
6. - To advance to the next speed access code, press the NEXT button.
   - To return to the previous speed access code, press the PREV button.
   - To go to the desired speed access code, press the SELECT button and then dial the speed access code.
7. Repeat steps 4 to 6, to erase the programmed other phone number.
8. To return to the initial program mode, press the END button.

Conditions

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

  Example :

  [AUTO] [01] [AUTO] [02]

  In this case, speed access code "02" should not include the automatic line access number or trunk group access number.
- When dialing, the dialed number will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830.
- The limit of the LCD is 16 characters but will scroll all numbers stored.
- To erase all entries, refer to "System Data Clear" on page 3-78.

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

Examples

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

(01 NEXT 00 81 201-392-4669 MEMORY END)

- 00: Speed access code
- 81: Trunk group access number
- 201-392-4669: Telephone number

- If punctuation is not entered in a phone number, the LCD will show as below.
  (00 : 812013924669)

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

(01 NEXT 02 9 * * 1234 201-392-4669 MEMORY END)

- 02: Speed access code
- 9: automatic line access number
- 1234: account code
- 201-392-4669: Telephone number

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

3) To access MCI

(01 NEXT 01 9 123-4567 PAUSE PAUSE 9876 201-348-7000 MEMORY END)

- 01: Speed access code
- 9: automatic line access number
- 123-4567: MCI number
- PAUSE PAUSE: PAUSE button
- 9876: Security code
- 201-348-7000: Telephone number

4) To access ITT

(01 NEXT 02 81 765-4321 PAUSE PAUSE 201-348-7000 6789 MEMORY END)

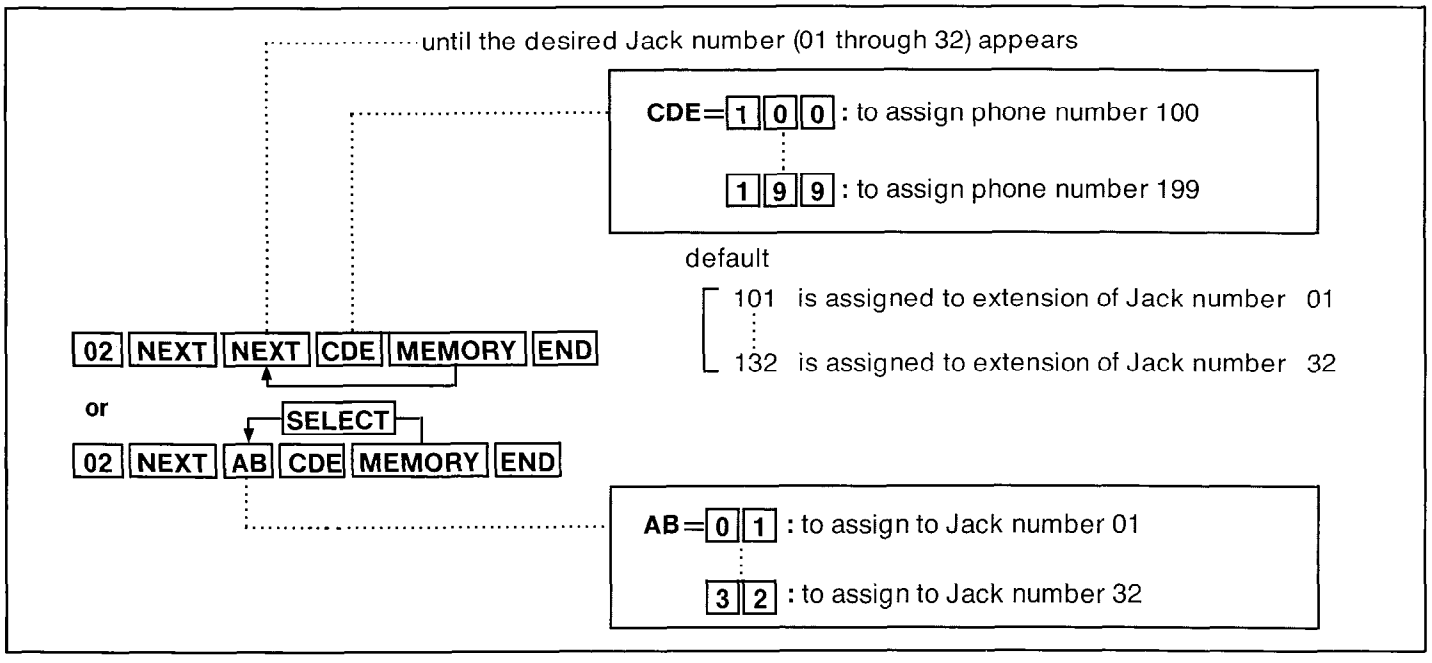
- 02: Speed access code
- 81: Trunk group access number
- 765-4321: ITT number
- PAUSE PAUSE: PAUSE button
- 201-348-7000: Telephone number
- 6789: Security code

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

(01 NEXT 02 82 765-4321 * # PAUSE PAUSE 201-348-7000 6789 MEMORY END)

- 765-4321 *: pulse mode
- 201-348-7000 6789: tone mode
- #: # button
- *: * button

Extension Number Assignment



Description

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

Programming

1. Dial (02).
   "Extension NO Set" will be displayed.
2. Press the NEXT button.
   "Jack NO ?→ " will be displayed.
3. Press the NEXT button or dial the Jack number (01 through 32).
   "Jack 01 : EXT101" will be displayed and "101"will blink.
4. Dial the extension number which is set newly (100 through199).
   - When dialing (150), the LCD will show "Jack 01 : EXT150" will be displayed.
   - To erase a wrong entry, press the CLEAR button.
5. Press the MEMORY button.
6. - To advance to the next jack number, press the NEXT button.
   - To return to the previous jack number, press the PREV button.
   - To go to the desired jack number, press the SELECT button and then dial the jack number.
7. Repeat steps 4 to 6, to program the extension number on the other jack number.
8. To return to the initial program mode, press the END button.
   - The LCD will show the initial program mode, "SYS-PGM NO ?→".

Conditions

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

Example:

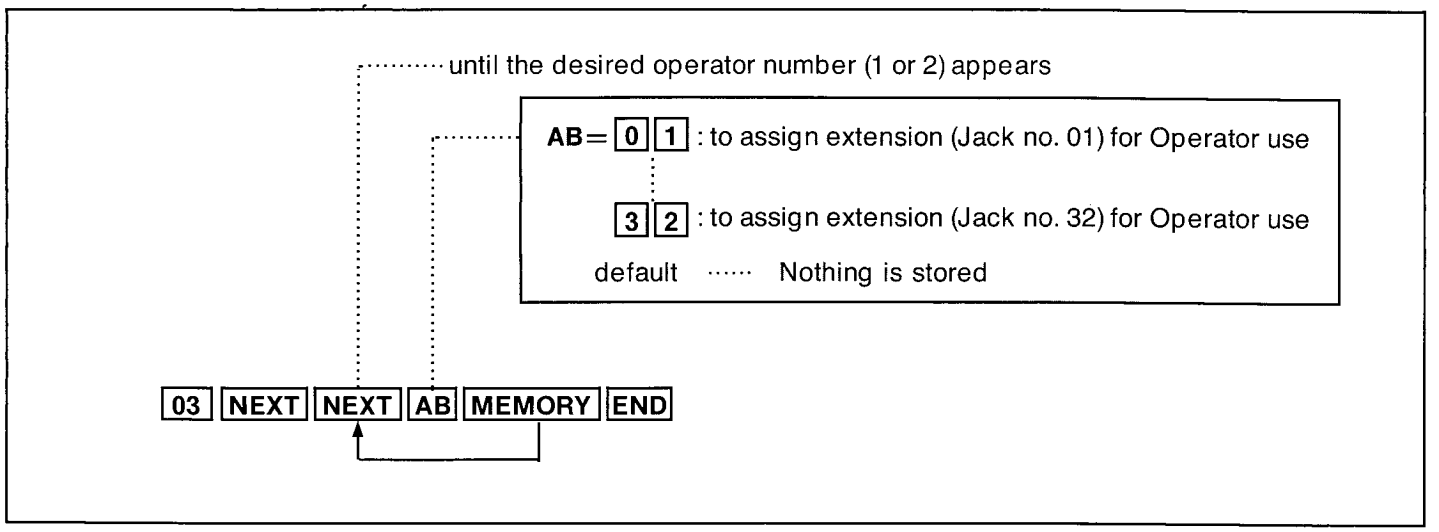
Jack number 15 ····· Extension number 170
Jack number 30 ····· Extension number 180

02 NEXT 15 170 MEMORY SELECT
30 180 MEMORY END

Programming Table

See page 7-3.

Operator Assignment



Description

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

Programming

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

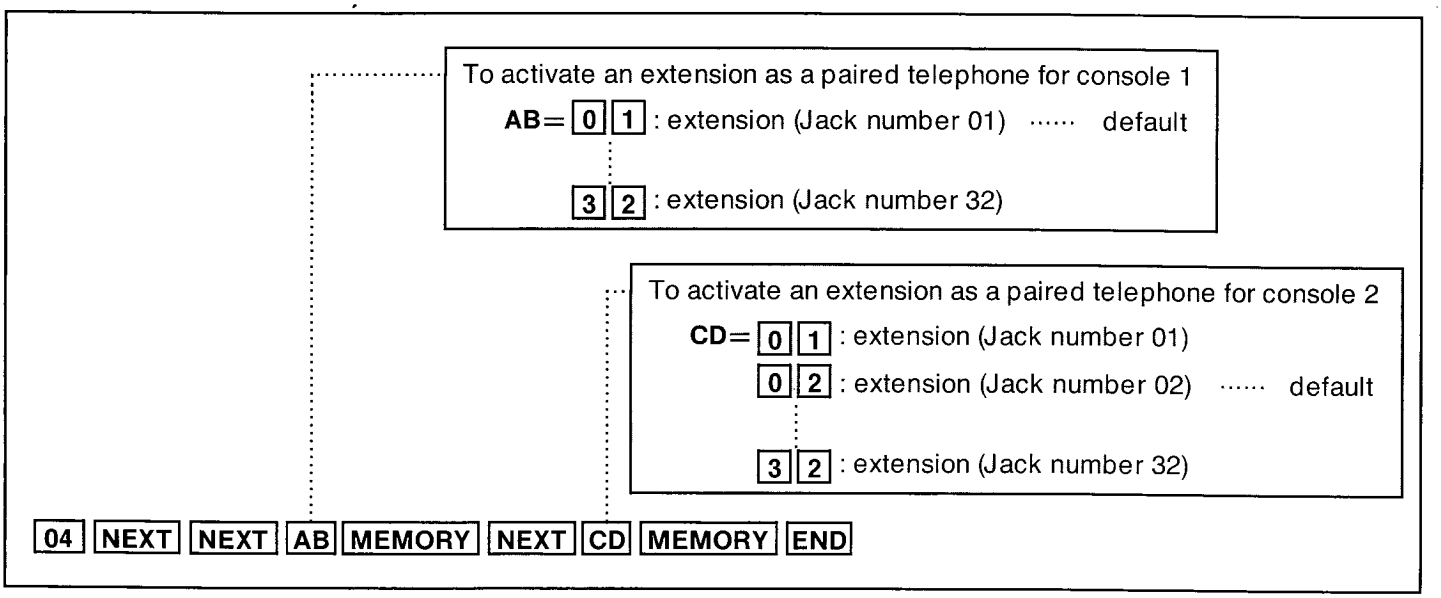
Conditions

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

Programming Table

See page 7-3.

Paired Telephone Assignment for DSS Console



Description

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

Programming

1. Dial (04)
   "DSS Assign"will be displayed.
2. Press the NEXT button.
   "DSS NO ? → " will be displayed.
3. Press the NEXT button.
   "DSS 1 : Jack - 01" will be displayed and "01" will blink.
4. Dial the jack number which is paired with the console1.
5. Press the MEMORY button.
   The LCD will stop blinking.
   - If console 2 is not connected, proceed to step 9.
6. Press the NEXT button.
   "DSS 2 : Jack - 02" will be displayed and "02"will blink.
7. Dial the jack number which is paired with the console 2.
8. Press the MEMORY button.
   The LCD will stop blinking.
9. To return to the initial program mode, press the END button.

Conditions

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

Example :

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

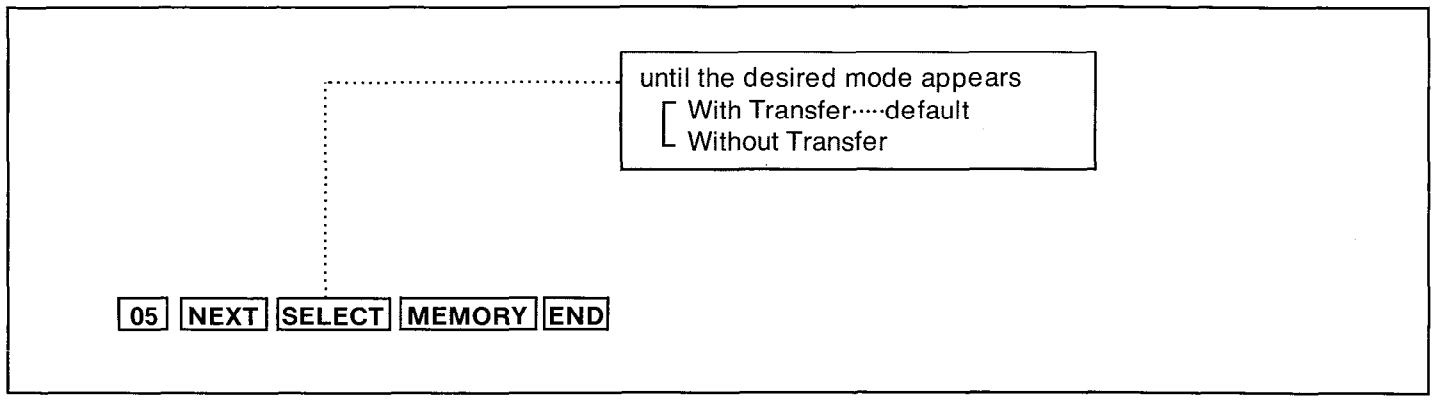
If Mr Brown's secretary has KX-T123220 at extension jack number 20 and is to use the DSS console (KX-T123240), the console should be connected to the modular jack (marked MJ2) of the DSS card (KX-T123241).
(Paired extension is jack number 20.)

04 NEXT NEXT 10 MEMORY
NEXT 20 MEMORY END

Programming Table

See page 7-3.

Automatic CO Hold Using DSS Button



Description

Outside calls can be transferred to any extension manually.

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

Programming Table

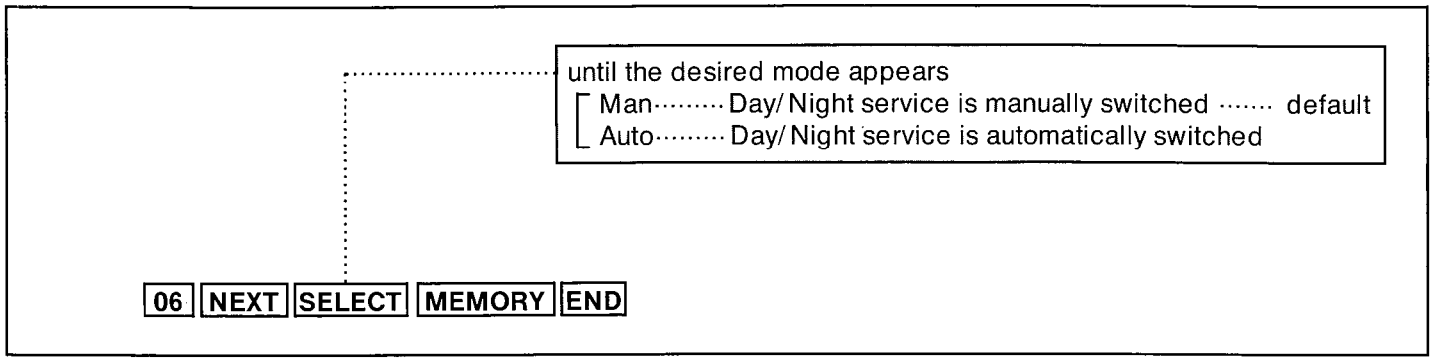
See page 7-3.

Programming

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

Day/Night Service Mode

Switching of Service Mode



Description

Allows Day/ Night service to be selected manually or automatically.

In case of manual switching, refer to "Flexible Night Service" on page 4-37.

In case of automatic switching, set the "Starting Time (Day/Night Service mode)" on page 3-13.

The following features will be switched Day mode or Night mode.

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

Programming

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

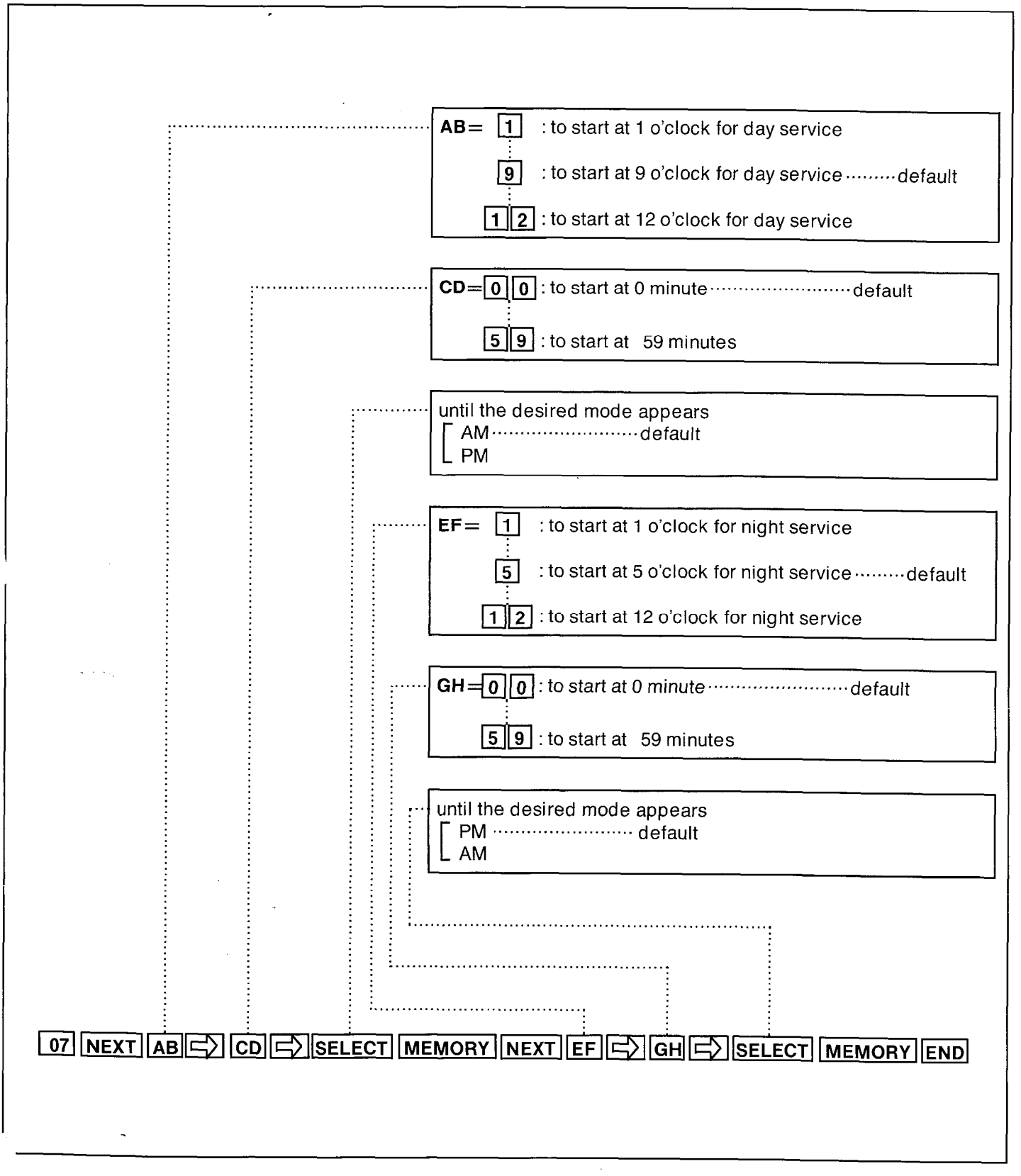
Conditions

When the Switching of Service Mode (Day/Night Service Mode) is set to"Auto", the present Day/ Night Service mode will not change after you finish programming.To change the present mode,manual operation is required. After you selected the Starting time (Day/ Night Service Mode) page3-13,select the present Day/ Night mode by"Flexible Night Service" on page 4-37.

Programming Table

See page 7-4.

Starting Time



Description

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

Programming

1. Dial (07).
   "Day/Night Time" will be displayed.
2. Press the NEXT button.
   "Day: 9:00 AM" will be displayed as a default value and "9" will blink.
3. Enter the starting time for day service using 1 or 2 digits.
4. Press the " ⇨ " button.
   "00" will blink.
5. Enter the minutes using 2 digits.
6. Press the " ⇨ " button.
   "AM" will blink.
7. Press the SELECT button to alternate between "AM" and "PM" to select the correct setting.
8. Press the MEMORY button.
   The LCD will stop blinking.
9. Press the NEXT button.
   "Night : 5:00 PM" will be displayed as a default value and "5" will blink.
10. Enter the starting time for night service using 1 or 2 digits.
11. Press the " ⇨ " button.
    "00" will blink.
12. Enter the minutes using 2 digits.
13. Press the " ⇨ " button.
    "PM" will blink.
14. Press the SELECT button to alternate between "AM" and "PM" to select the correct setting.
15. Press the MEMORY button.
    The LCD will stop blinking.
16. To return to the initial program mode, press the END button.

Conditions

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

Example:

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

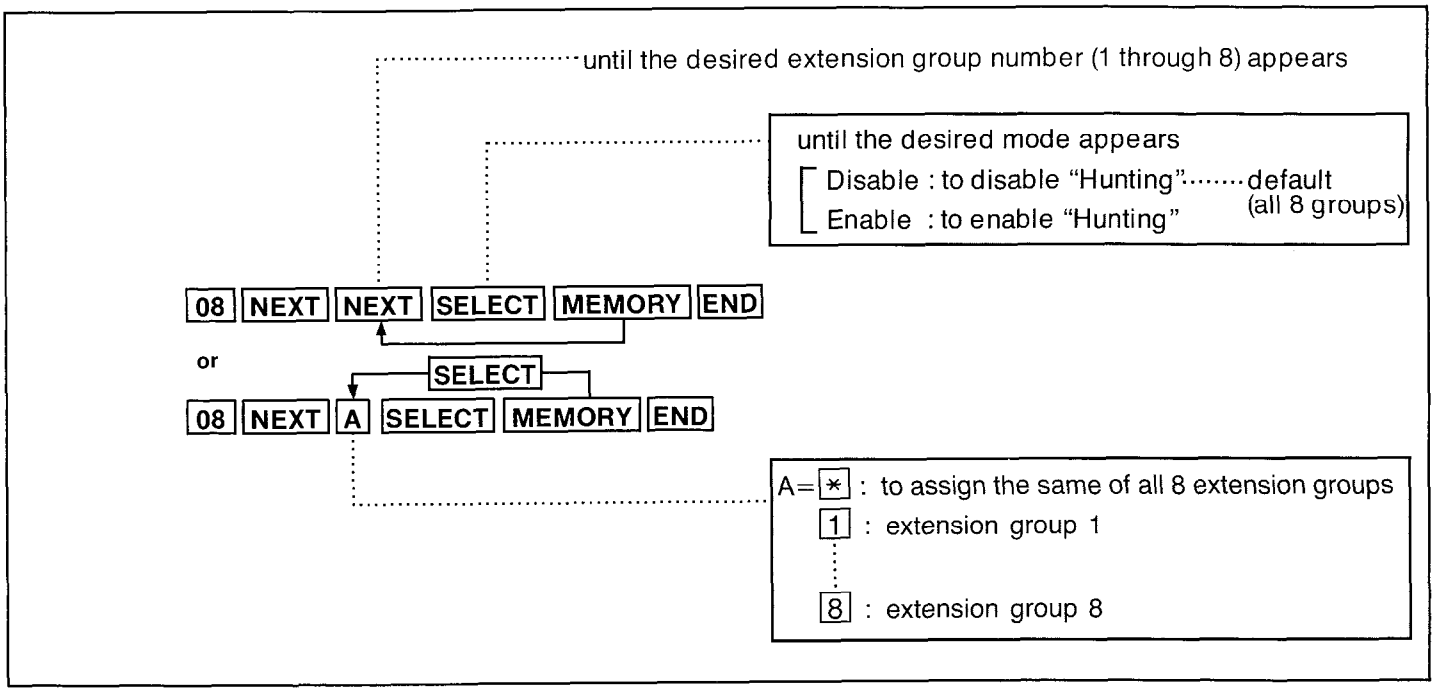
[07] [NEXT] [8] [⇨] [30] [⇨] [MEMORY] [NEXT]
[6] [⇨] [30] [⇨] [MEMORY] [END]

Programming Table

See page 7-4.

Call Hunting

Setting



Description

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

Programming

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

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

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

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

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

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

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

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

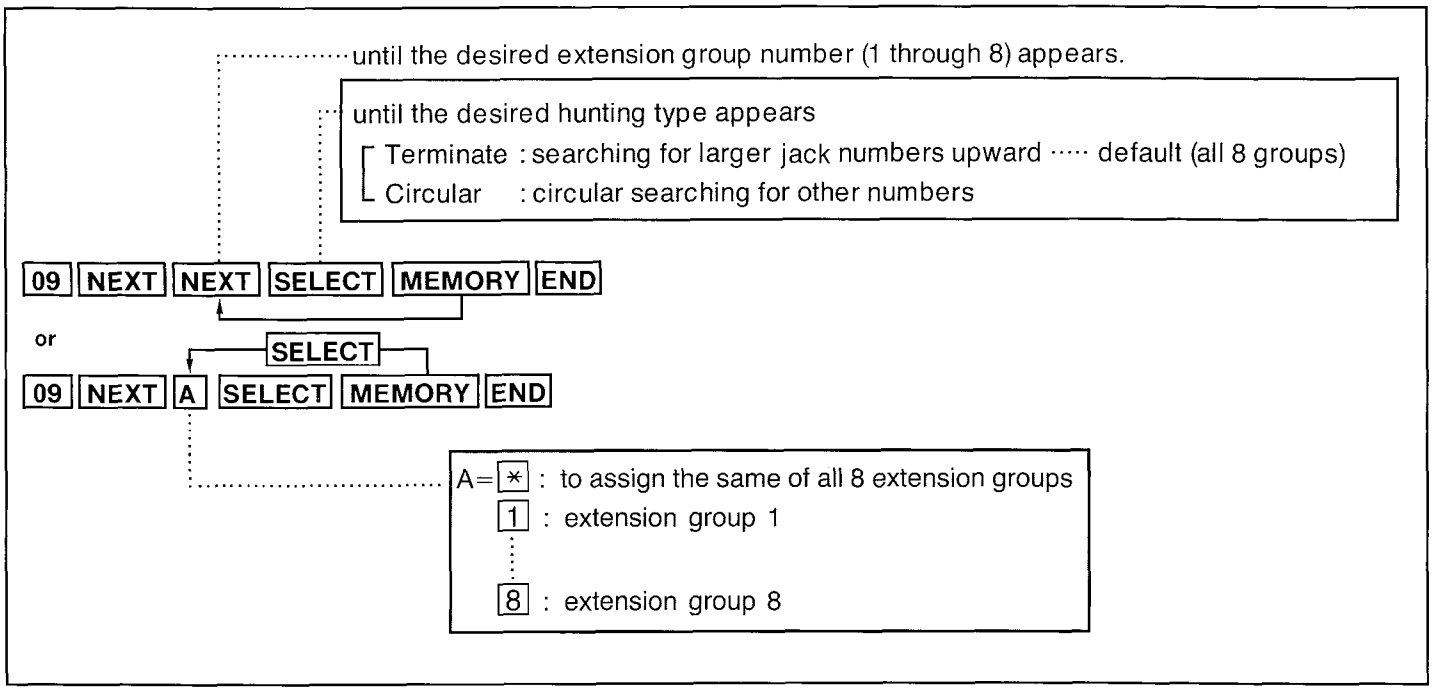
Conditions

● When you dial "*" instead of pressing the NEXT button at step 3, in case all of 8 groups have been programmed to "Disable", "CO *: Disable" will be displayed.
In case each of 8 groups has been programmed either "Disable" or "Enable", "CO *: Confused" will be displayed.

Programming Table

See page 7-4.

Hunting Type



Discription

Specifies the order in which idle extensions are searched when "Call Hunting" is used.
The "Terminate Mode" searches for idle extensions with a higher order extension than the jack number of the dialed extension, and terminates when the search reaches the highest jack number of extension in the same group. If all higher order numbers are busy, a busy tone will be heard.
The "Circular Mode" searches for any idle extension in the same group.
If all extensions are busy, a busy tone will be heard.
The "Setting (Call Hunting)" on page 3-15 must be set to "Enable" mode for Hunting Type to be used.

Programming

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

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

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

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

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

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

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

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

Programming Table

See page 7-4.

Toll Restriction

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

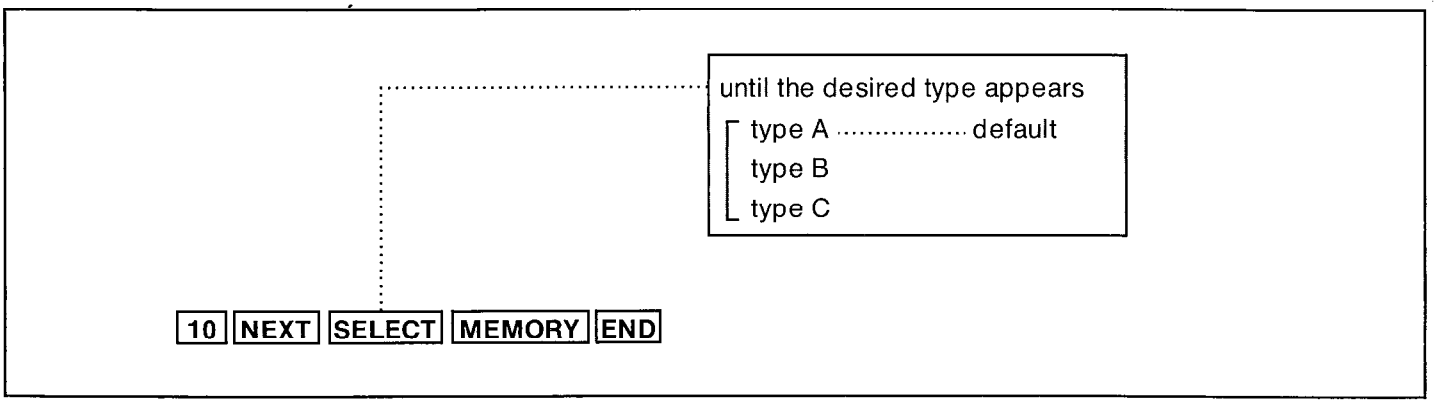
	Service Class							
	1	2	3	4	5	6	7	8
operator calls	A	D	D	D	D	D	D	D
international calls	A	D	D	D	D	D	D	D
toll calls	A	A	E	D	D	D	D	D
local calls(charged)	A	A	A	A	F	D	D	D
local calls	A	A	A	A	A	A	G	D

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

The following feature should be set.

- "Area Type Selection" on page 3-18.
- "CO Operator Call-Boundary Class" on page 3-19.
- "Toll Restriction of Speed Dialing" on page 3-20.
- "Exchange Code Selection" on page 3-21.
- "Area Code Entry For Class 3" on page 3-22.
- "Exchange Code Entry For Class 5" on page 3-23.
- "Exchange Code Entry For Class 7" on page 3-24.
- "Service Class Assignment of Toll Restriction" on page 3-64.

Area Type Selection



Description

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

Type A : Toll calls (long distance) ..... 1 — Area code — Exchange code — Subscriber number
Local calls ..... Exchange code — Subscriber number

Type B : Toll calls (long distance) ..... Area code — Exchange code — Subscriber number
Local calls ..... Exchange code — Subscriber number

Type C : Toll calls (long distance) ..... 1 — Area code — Exchange code — Subscriber number
Local calls (charge) ..... 1 — Exchange code — Subscriber number
Local calls ..... Exchange code — Subscriber number

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

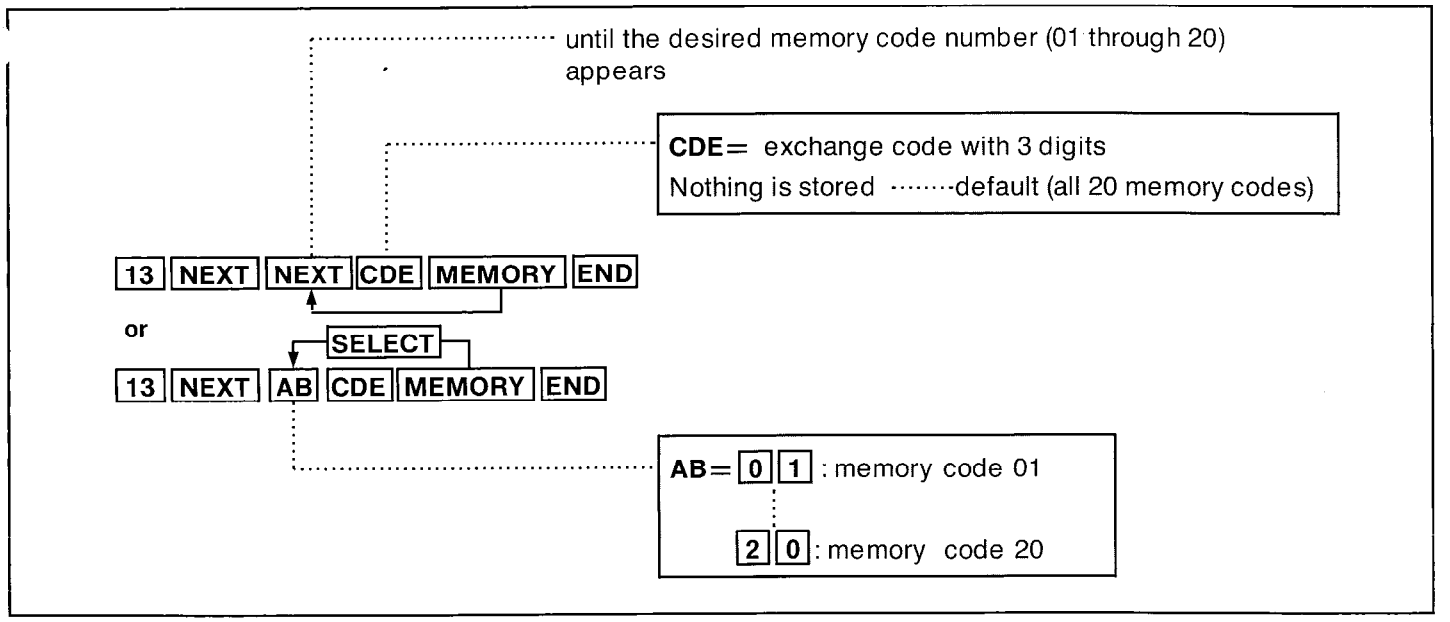
Programming

1. Dial (10).
   "Area Type" will be displayed.
2. Press the NEXT button.
   "Area Type - A" will be displayed and the "A" will blink.
3. Repeat pressing the SELECT button until the desired type (A, B, C) is displayed.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Programming Table

See page 7-4.

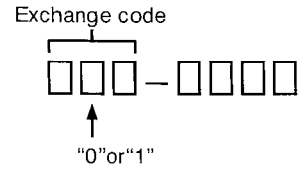
Exchange Code Selection



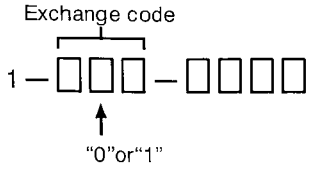
Description

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

Local call Exchange Codes when Type B is selected



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



A maximum 20 Exchange Codes can be registered.

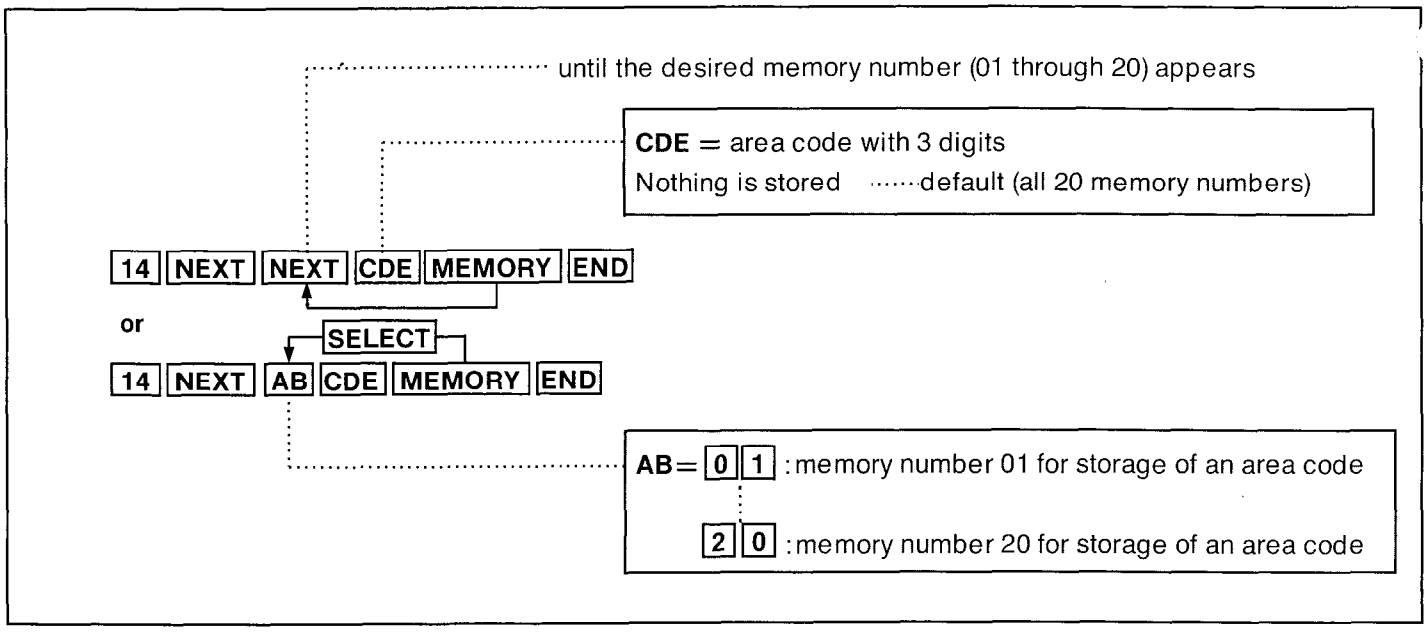
Programming

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

Programming Table.

See page 7-5.

Area Code Entry for Class 3



Description

For Service Class 3 (see "Toll Restriction" on page 3-17), up to 20 area codes can be selected for use in toll dialing.
All area codes except those entered will be denied.
All the extensions that are programmed for Service Class Selections 3 are assigned to the same area code selection plan.

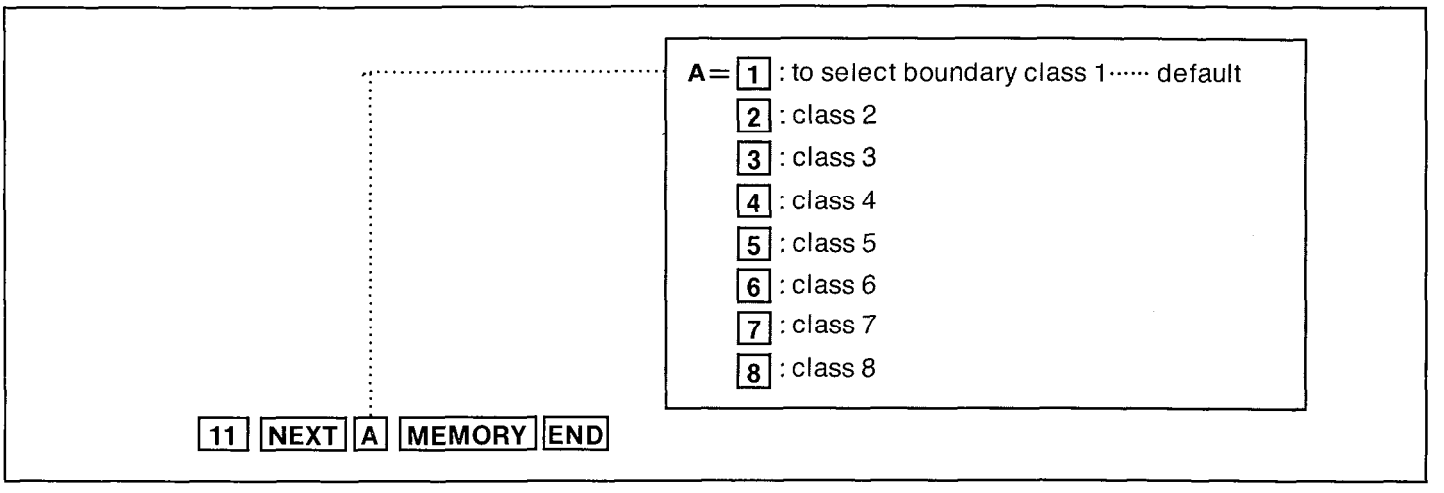
Programming

1. Dial (14).
   "Cls-3 Area Code" will be displayed.
2. Press the NEXT button.
   "Area NO ? → " will be displayed.
3. Dial the memory number (01 through 20) or press the NEXT button.
   Example:
   When dialing (01) or pressing the NEXT button.
   - The LCD will show"Area-01 : ···" when nothing is stored in memory number "01".
     When area code 212 has been stored, "Area - 01 : 212" will be displayed.
4. Dial the area code, using 3 digits.
   - To erase a wrong entry, press the CLEAR button.
5. Press the MEMORY button.
   - The memory indicator will be lit.
6. - To advance to the next memory number, press the NEXT button.
   - To return to the previous memory number, press the PREV button.
   - To go to the desired memory number, press the SELECT button and then dial the memory number.
7. Repeat steps 4 to 6.
8. To return to the initial program mode, press the END button.

Programming Table.

See page 7-5.

CO Operator Call-Boundary Class



Description

"Toll Restriction", if it is programmed, prohibits CO Operator Calls. However, the desired extensions can be permitted to call to CO Operator by programming a boundary number of service class.

CO Operator Calls are allowed at all the extension from service class 1 to the same service class number as the programmed boundary number, but are prohibited at the other extensions.

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

Service Class of Toll Restriction	Boundary Class Number 1	2	3	4	5	6	7	8
1	A	A	A	A	A	A	A	A
2	D	A	A	A	A	A	A	A
3	D	D	A	A	A	A	A	A
4	D	D	D	A	A	A	A	A
5	D	D	D	D	A	A	A	A
6	D	D	D	D	D	A	A	A
7	D	D	D	D	D	D	A	A
8	D	D	D	D	D	D	D	A

A : CO Operator Calls are allowed.
D : CO Operator Calls are denied.

See "Service Class Assignment of Toll Restriction" on page 3-64.

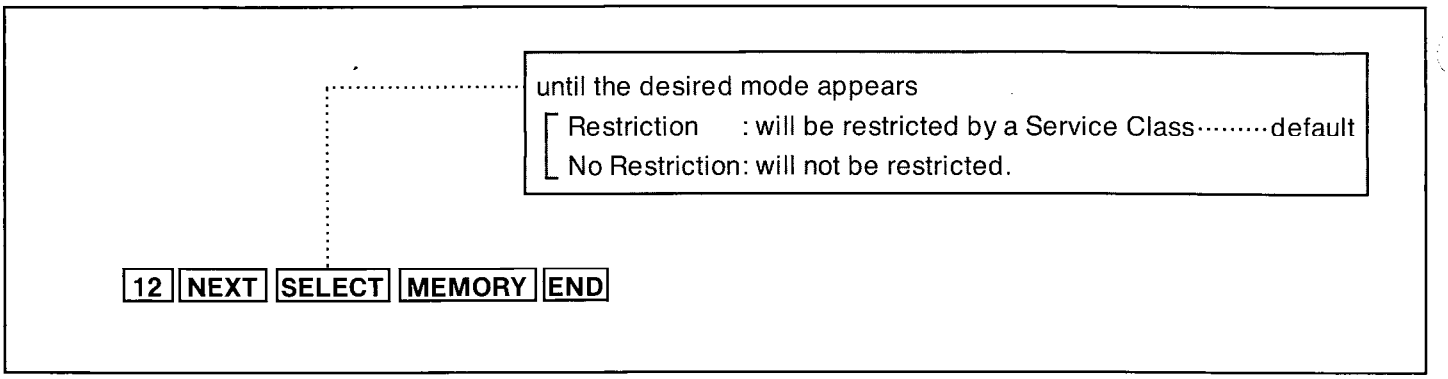
Programming

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

Programming table

See page 7-4.

Toll Restriction of Speed Dialing



Description

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

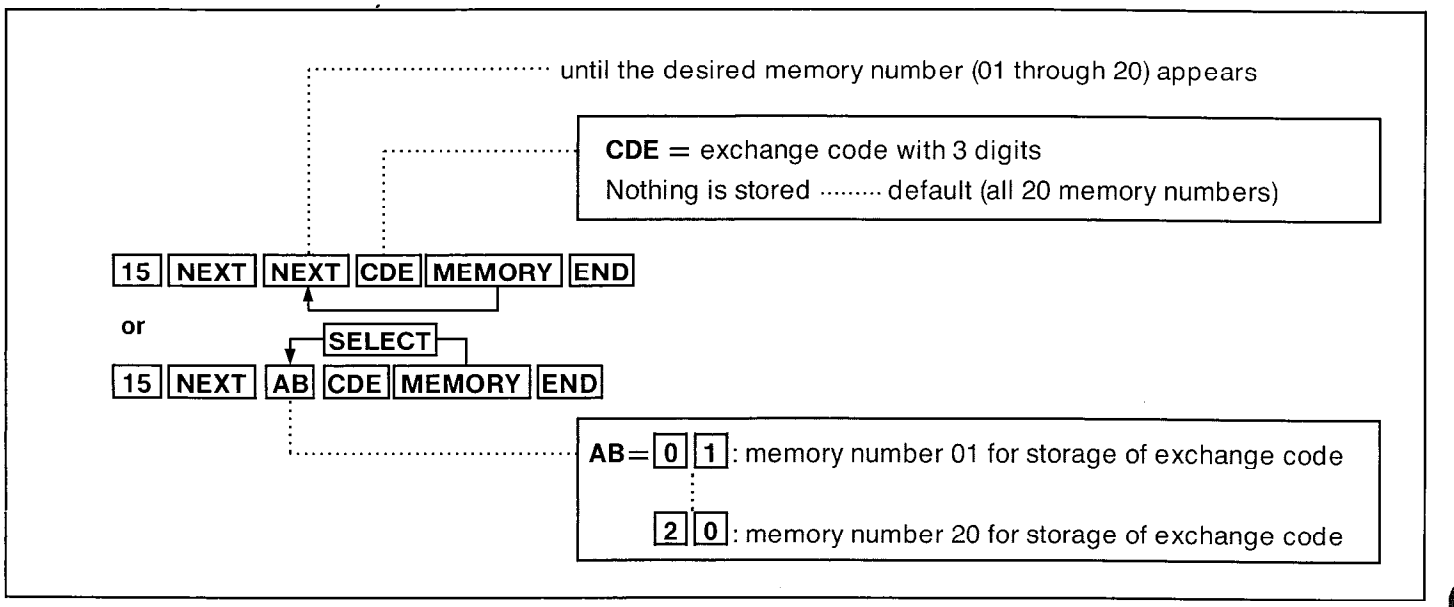
Programming Table

See page 7-5.

Programming

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

Exchange Code Entry for Class 5



Description

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

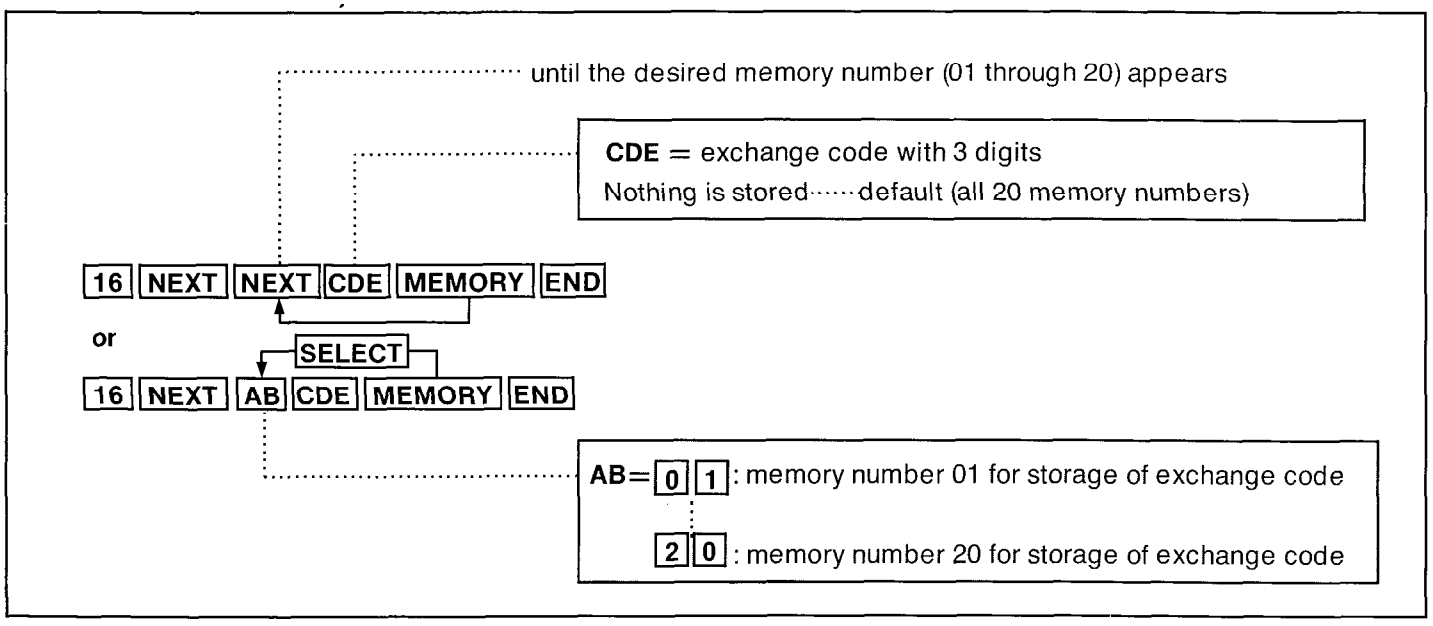
Programming

1. Dial (15).
   "Cls-5 Local Code" will be displayed.
2. Press the NEXT button.
   "Local NO ? → " will be displayed.
3. Dial the memory number (01 through 20) or press the NEXT button.
   Example:
   When dialing (01) or pressing the NEXT button.
   - The LCD will show "Local 01 : ···" when nothing is stored in memory number "01".
     When exchange code 392 has been stored, "Local 01 : 392" will be displayed.
4. Dial the exchange code, using 3 digits.
   - To erase a wrong entry, press the CLEAR button.
5. Press the MEMORY button.
   - The memory indicator will be lit.
6. - To advance to the next memory number, press the NEXT button.
   - To return to the previous memory number, press the PREV button.
   - To go to the desired memory number, press the SELECT button and then dial the memory number.
7. Repeat steps 4 to 6.
8. To return to the initial program mode, press the END button.

Programming Table.

See page 7-5.

Exchange Code Entry for Class 7



Description

For Service Class 7 (See "Toll Restriction" on page 3-17), up to 20 exchange codes can be selected for use in local dialing.
Exchange codes programmed will be denied.
All the extensions that are programmed for Service Class Selections 7 are assigned to the same exchange code selection plan.

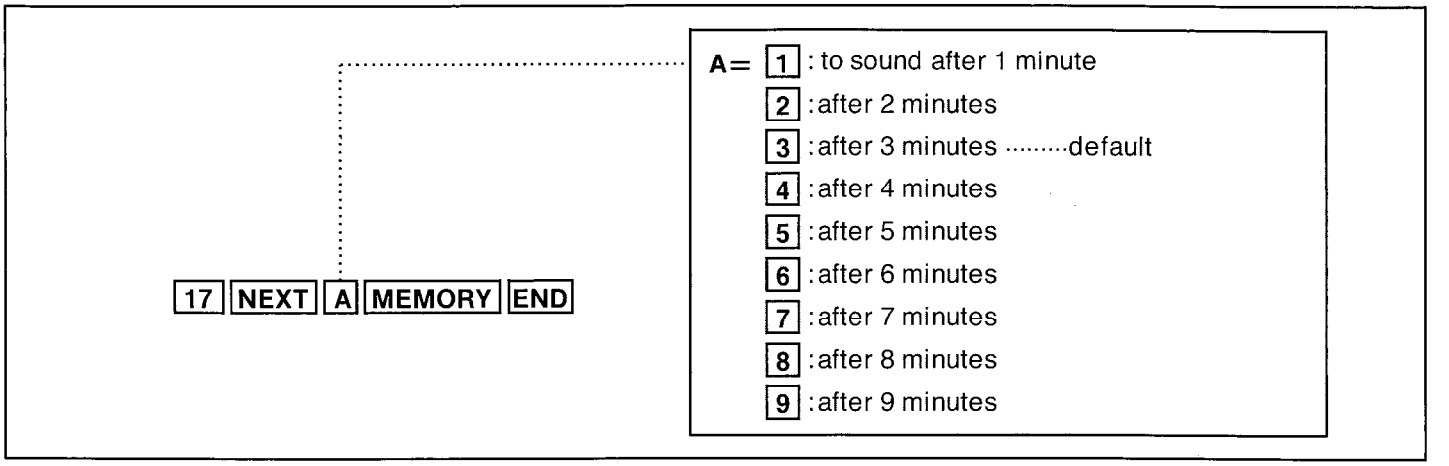
Programming

1. Dial (16).
   "Cls-7 Local Code" will be displayed.
2. Press the NEXT button.
   "Local NO ? →" will be displayed.
3. Dial the memory number (01 through 20) or press the NEXT button.
   Example:
   When dialing (01) or pressing the NEXT button.
   - The LCD will show "Local 01 : ···"when nothing is stored in memory number "01".
     When exchange code 392 has been stored, "Local 01 : 392" will be displayed.
4. Dial the exchange code, using 3 digits.
   - To erase a wrong entry, press the CLEAR button.
5. Press the MEMORY button.
   - The memory indicator will be lit.
6. - To advance to the next memory number, press the NEXT button.
   - To return to the previous memory number, press the PREV button.
   - To go to the desired memory number, press the SELECT button and then dial the memory number.
7. Repeat steps 4 to 6.
8. To return to the initial program mode, press the END button.

Programming Table.

See page 7-6.

Hold Time Reminder



Description

An alarm tone indication will be heard at the holding extension to remind the user that he still has a call on hold.

The reminder will sound after 3 minutes but can be changed.

There are 9 choices ranging from (1) minute to (9).

An alarm tone is heard from the built-in speaker of the proprietary telephone and the handset receiver of the standard telephone.

See "List of Tones" on page 6-6.

Programming

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

Conditions

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

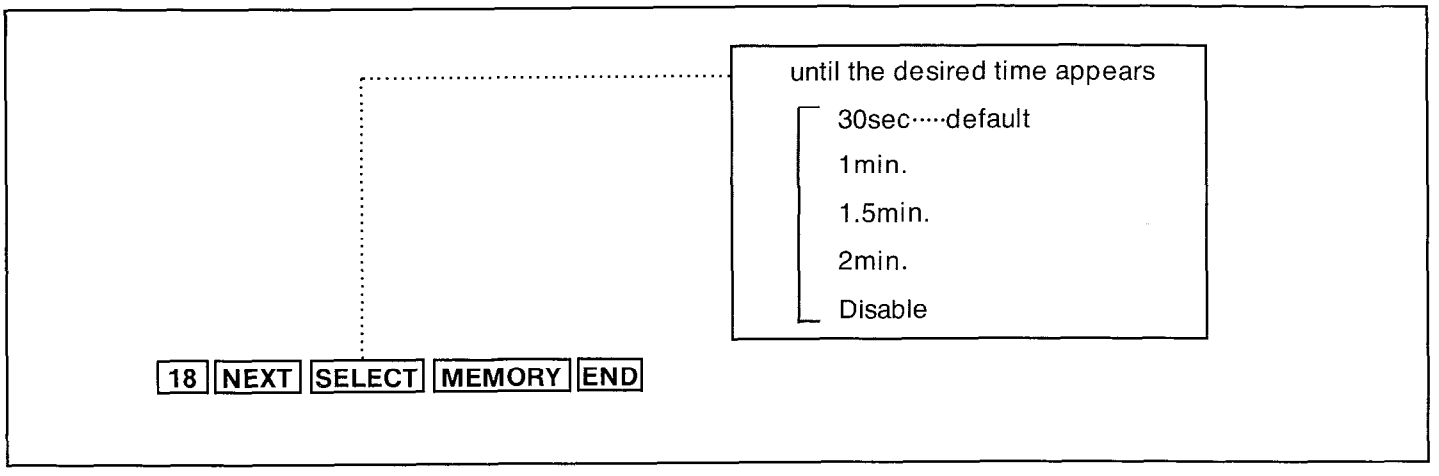
Example:

4 minutes= 17 NEXT 4 MEMORY END

Programming Table

See page 7-6.

Hold Recall Time Set



Description

When the handset of the holding extension is replaced back on call, you may have the automatic hold recall after the desired time elapses.

The hold recall time set can be removed or added at the customer's request.

Programming

1. Dial (18).
   "Hold Recall Time" will be displayed.
2. Press the NEXT button.
   "Time: 30 sec" will be displayed and "30 sec" will blink.
3. Repeat pressing the SELECT button until the desired time (30 sec, 1 min, 1.5 min, 2 min, Disable) is displayed.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

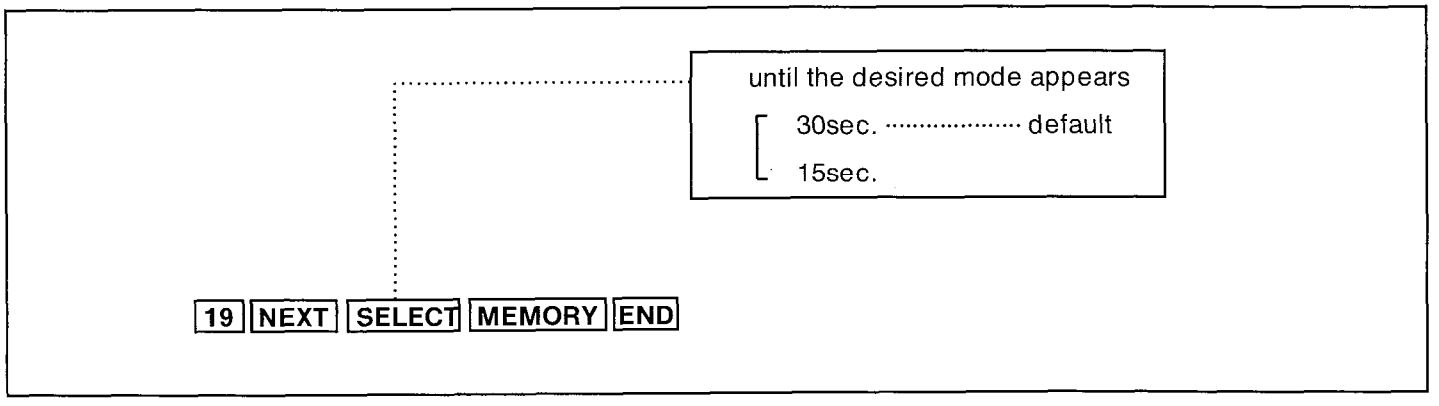
Example:

1.5 minutes= 18 NEXT SELECT SELECT MEMORY END

Programming Table

See page 7-6.

Transfer Recall Time



Description

If a call is transferred to an extension, and the other extension does not answer the transferred call within 30 seconds, the call will return to you. The time may be changed to 15 seconds.

Refer to "Call Transfer-To Extension" on page 4-18.

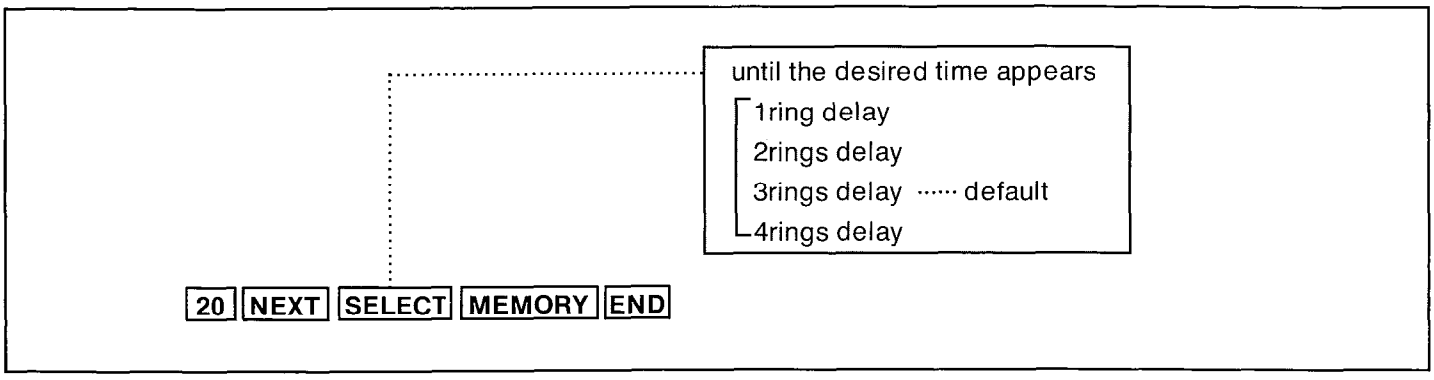
Programming

1. Dial (19).
   "Transfer Recall" will be displayed.
2. Press NEXT button.
   "Time: 30 sec" will be displayed and the "30" will blink.
3. Press the SELECT button to alternate between "15 sec" and "30 sec" to select the desired mode.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Programming Table

See page 7-6.

Call Forwarding Starting Time



Description

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

Programming

1. Dial (20).
   "Call FWD Delay" will be displayed.

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

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

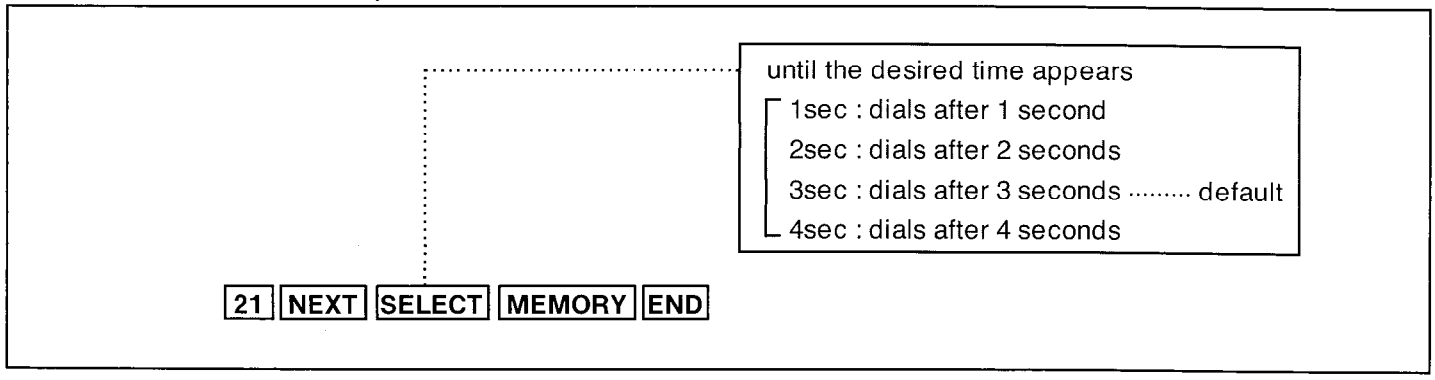
4. Press the MEMORY button.
   The LCD will stop blinking.

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

Programming Table

See page 7-6.

Pickup Dial Delay Time



Description

Enables programming of the pickup dial (on page 5-17) start time (the delay between picking up the handset and automatic dialing). The default is 3 sec.,Which can be changed to 1, 2, or 4 sec.

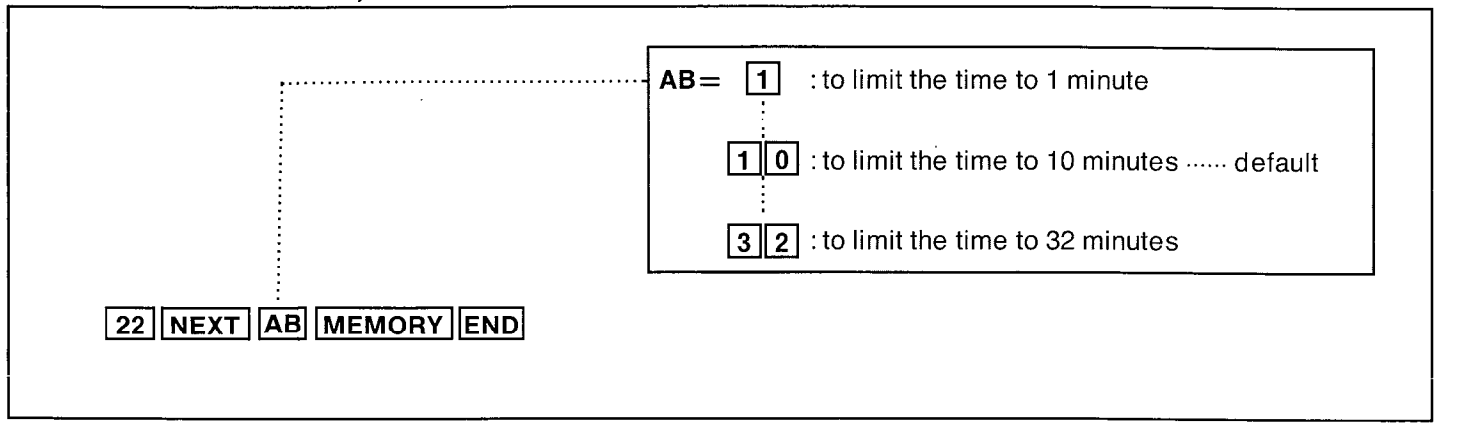
Programming

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

Programming Table

See page 7-6.

CO-to-CO Duration Time Limit



Description

Enable limiting of the time any outside line can be used when "Call Transfer-To Outside Line" (on page 4-19) or "Call Forwarding-To Outside Line" (on page 4-28) is used to forward a outside call to an outside line.

The default time is 10 min., but this can be changed from 1 minute through 32 minutes.

Programming

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

Conditions

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

Programming Table

See page 7-7.

Station Message Detail Recording (SMDR)

Description

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

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

Example of print

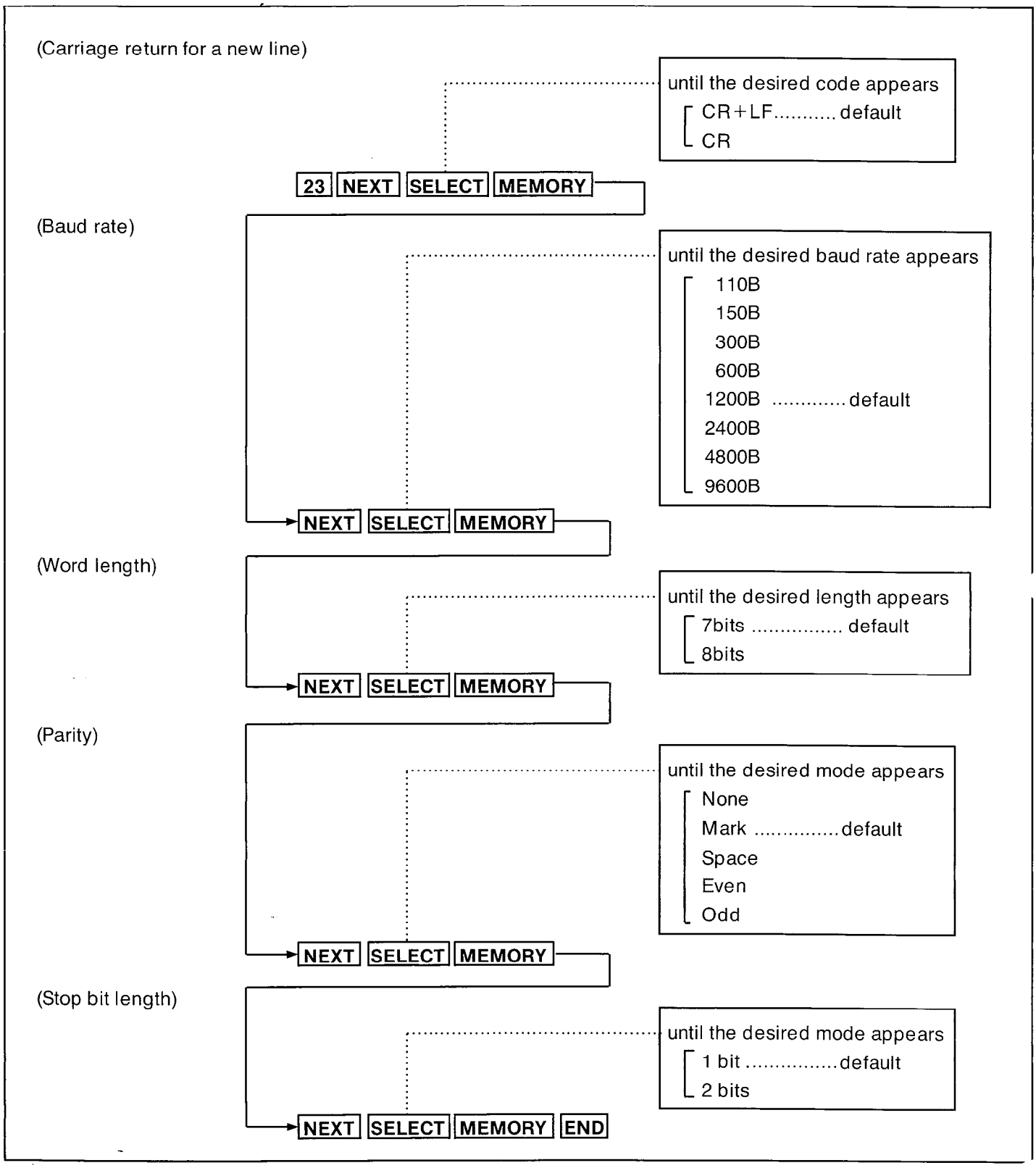
Date	Time	EXT.	CO	Dial Number	Duration	Code
4/20/87	8:00AM	101	06	1-201-234-5678	00:00'30"	0123

- 4/20/87: year, day, month
- 101: Extension number
- 06: CO number
- 1-201-234-5678: called party
- 00:00'30": second, minute, hour
- 0123: account code

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

■The following features should be set.

- "RS-232C Communication Parameters" on page 3-32.
- "SMDR Parameters" on page 3-35.
- "Incoming/ Outgoing Call Selection for printing" on page 3-36.
- "Secret Speed Dial/One Touch Dial Printing" on page 3-36.
- "System Data Dump" on page 3-37.
- "Duration Time Count Start Mode" on page 3-40.
- "Account Code Input Mode" on page 3-70.


(Carriage return for a new line)
until the desired code appears
CR+LF..... default
CR
23 NEXT SELECT MEMORY
(Baud rate)
until the desired baud rate appears
110B
150B
300B
600B
1200B ..... default
2400B
4800B
9600B
NEXT SELECT MEMORY
(Word length)
until the desired length appears
7bits ..... default
8bits
NEXT SELECT MEMORY
(Parity)
until the desired mode appears
None
Mark ..... default
Space
Even
Odd
NEXT SELECT MEMORY
(Stop bit length)
until the desired mode appears
1 bit ..... default
2 bits
NEXT SELECT MEMORY END

Carriage return for a new line

A new line code indicates what type of code is needed for the print head on a printer to move the first character position on the next line.

CR+LF	when "CR+LF" is required from a printer.
CR	when "CR" is required from a printer.

CR=Carriage Return
LF=Line Feed.

Baud rate

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

110 B	when 110 baud is required.
150 B	when 150 baud is required.
300 B	when 300 baud is required.
600 B	when 600 baud is required.
1200 B	when 1200 baud is required.
2400 B	when 2400 baud is required.
4800 B	when 4800 baud is required.
9600 B	when 9600 baud is required.

Parity

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

None	when an error checking function is not required from a printer.
Mark	when a Mark is required from a printer.
Space	when a Space is required from a printer.
Even	when an Even is required from a printer.
Odd	when an Odd is required from a printer.

Word length

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

7 bits	when 7 bits are required.
8 bits	when 8 bits are required.

Stop bit length

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

1 bit	when one bit is required for end detection.
2 bits	when two bits are required for end detection.

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

Programming

1. Dial (23).
   "RS232C Parameter" will be displayed.

2. Press the NEXT button.
   "NI-Code : CR+LF" will be displayed and "CR+LF" will blink.

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

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

5. Press the NEXT button.
   "Baud Rate : 1200B" will be displayed and the "1200B" will blink.

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

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

8. Press the NEXT button.
   "Word Lengt : 7bits" will be displayed and the "7bits"will blink.

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

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

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

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

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

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

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

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

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

Programming Table

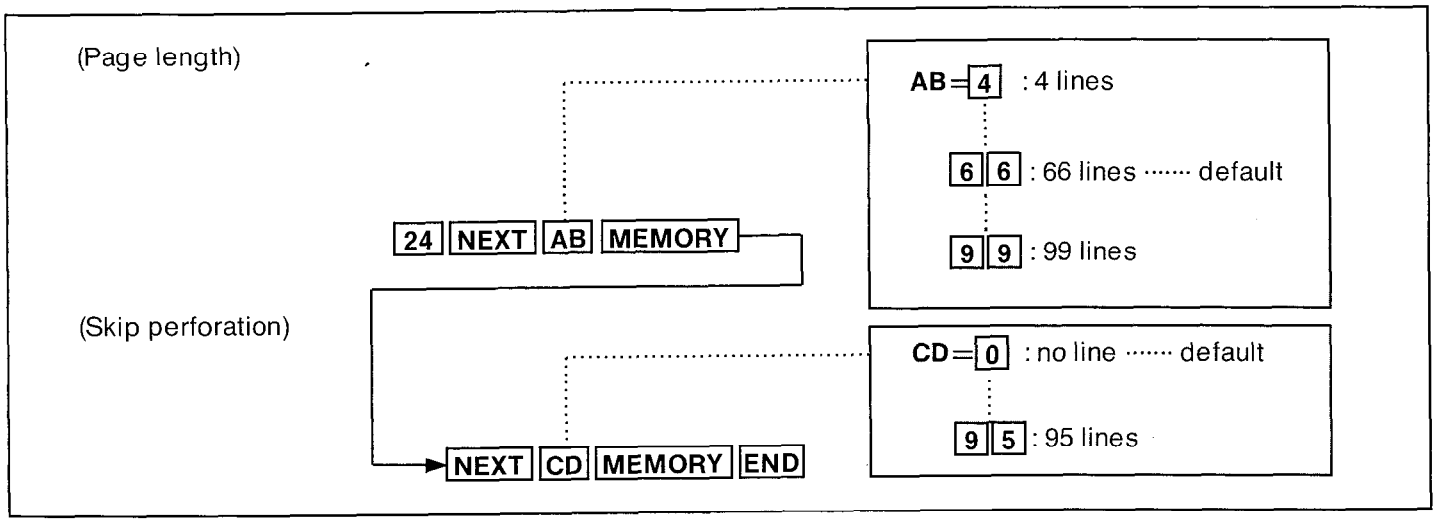
See page 7-7.

Conditions

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

parity	word length	stop bit length
mark	8	2
space	8	1
space	8	2

If any of the above disallowed combinations are selected, Warning tone will be heard. Press the NEXT button and then repeat the procedure of programming.

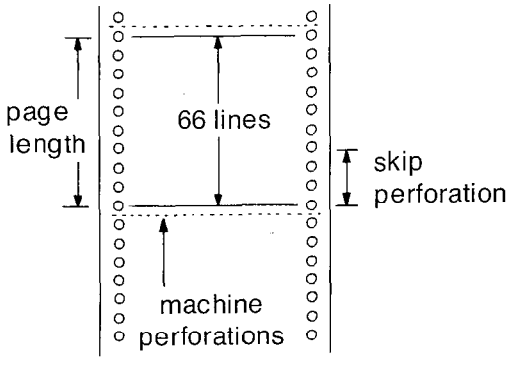


Page length

The page length may be selected to position a title and data on each page.
A page length code indicates the number of lines per page.
A title will be printed on the first 3 lines of each page.

4	4 lines per page
⋮	⋮
99	99 lines per page

STANDARD CONTINUOUS PAPER(11 inches)



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

Skip perforation

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

0	print head does not skip.
1	print head skips the last line.
2	print head skips the last 2 lines.
⋮	⋮
95	print head skips the last 95 lines.

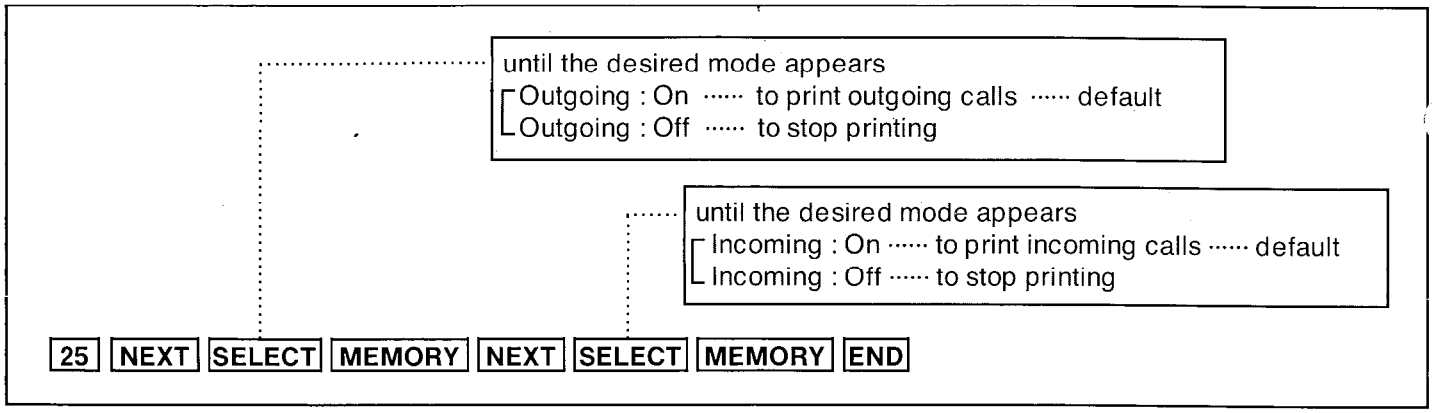
Programming

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

Programming Table

See page 7-8.

Incoming / Outgoing Call Selection for printing



Description

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

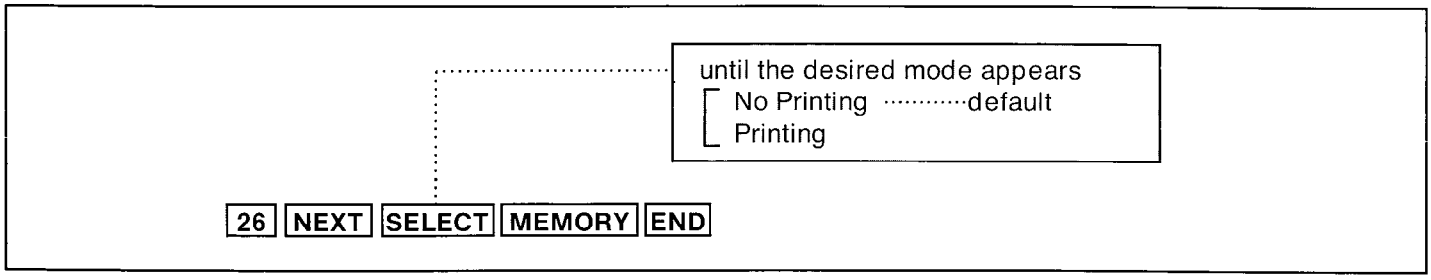
Programming

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

Programming Table

See page 7-8.

Secret Speed Dial / One Touch Dial Printing



Description

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

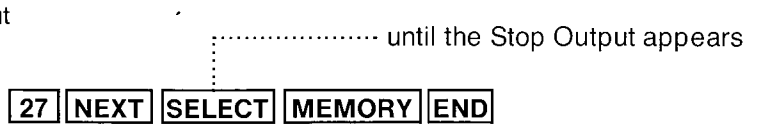
Programming

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

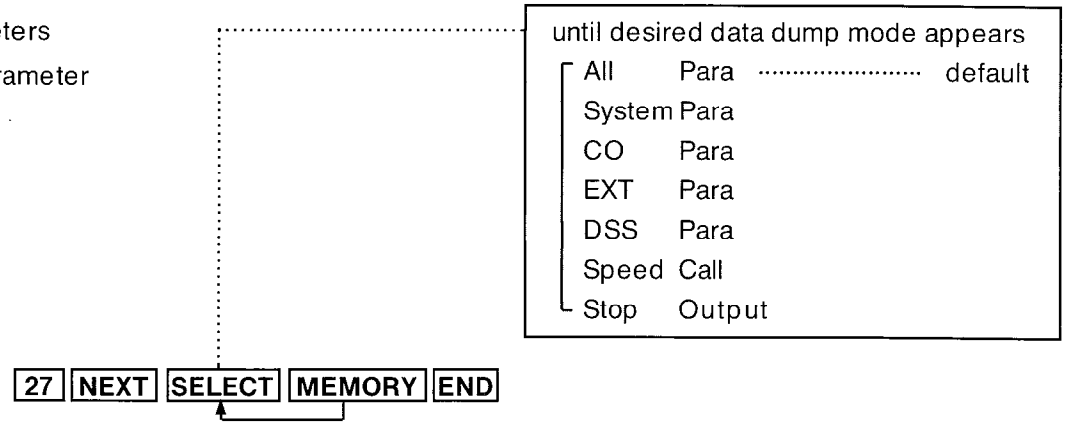
Programming Table

See page 7-8.

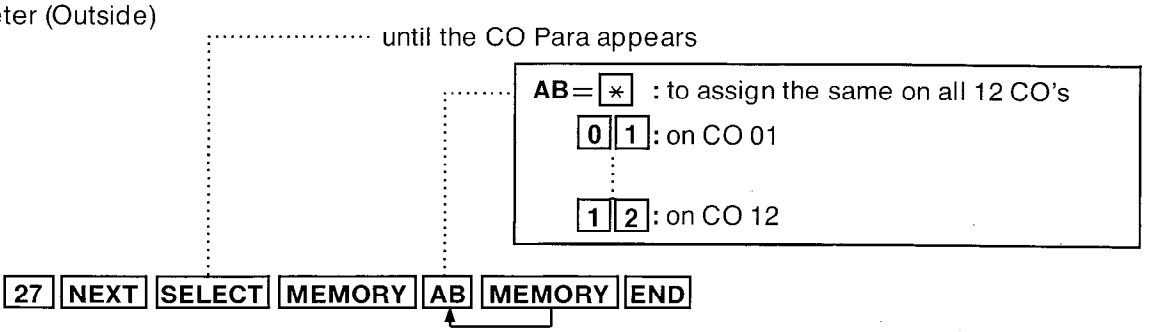
● Stop Output



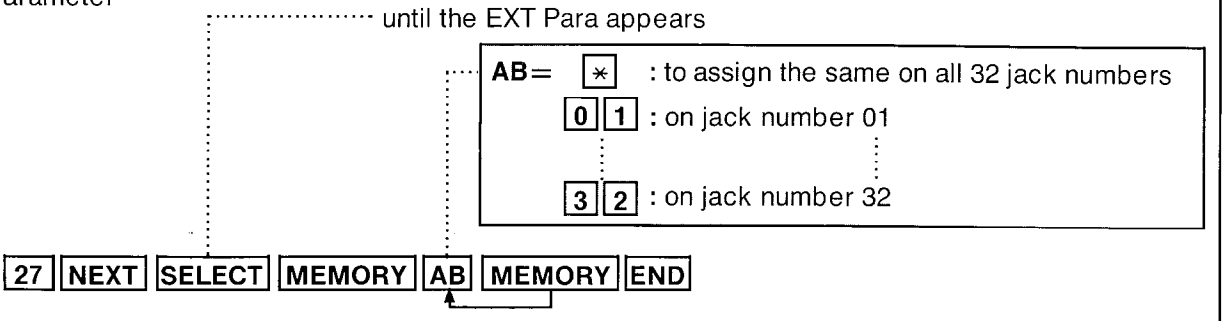
● All Parameters
● System Parameter
● Speed Call



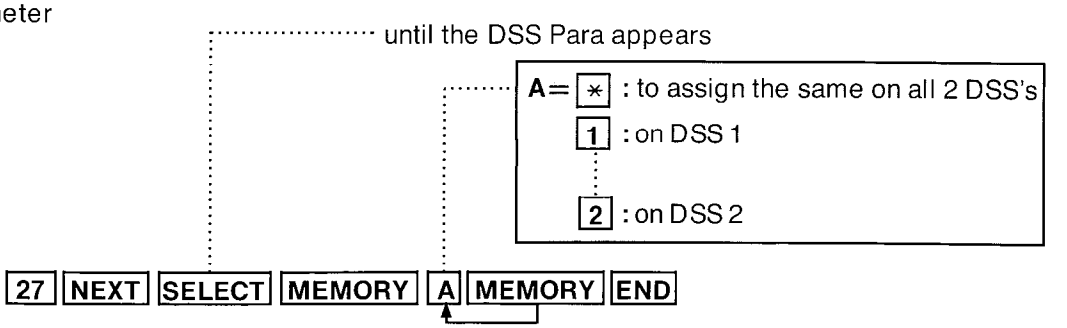
● CO Parameter (Outside)



● Extension Parameter



● DSS Parameter



Description

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

System parameters

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

CO parameters

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

Extension parameters

■When the Proprietary telephone is connected at extension.

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

≪DSS Console Items≫
Console type
DSS connection
DSS button assignments
Feature button assignments

■(When the standard telephone is connected at extension)

Telephone type
Extension name
Extension group
Toll restriction
Account code input mode
CO transfer mode
CO forward mode
Executive busy override
Executive busy override deny
DND override
Outgoing preference
Incoming preference

Line ringing assignment
Intercom call
Do not disturb
Call forwarding
Call waiting
Call waiting tone
Data line security
Dial call pickup deny
Absent message
Pickup dial

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

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

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

Operation

To stop the printout ;

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

To print System Parameters, Speed call or All Parameters ;

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

To print CO Parameter ;

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

To print Extension Parameter ;

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

To print DSS Parameter ;

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

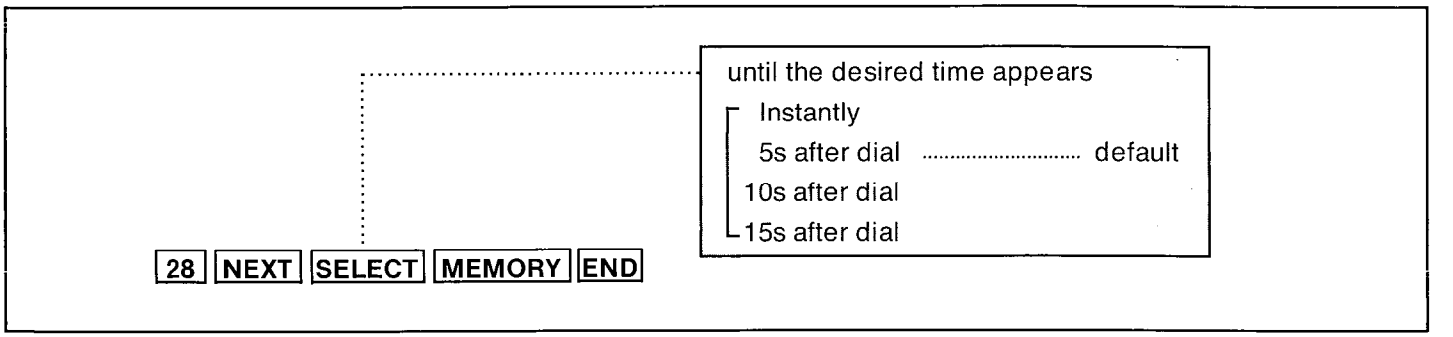
After completing printing, to return to the initial mode ;

1. Press the END button.

Programming Table

See page 7-8.

Duration Time Count Start Mode



Description

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

Program the starting time of the timer.

- Instantly after the CO line is captured.
- 5 seconds after the dialing.
- 10 seconds after the dialing.
- 15 seconds after the dialing.

Programming

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

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

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

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

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

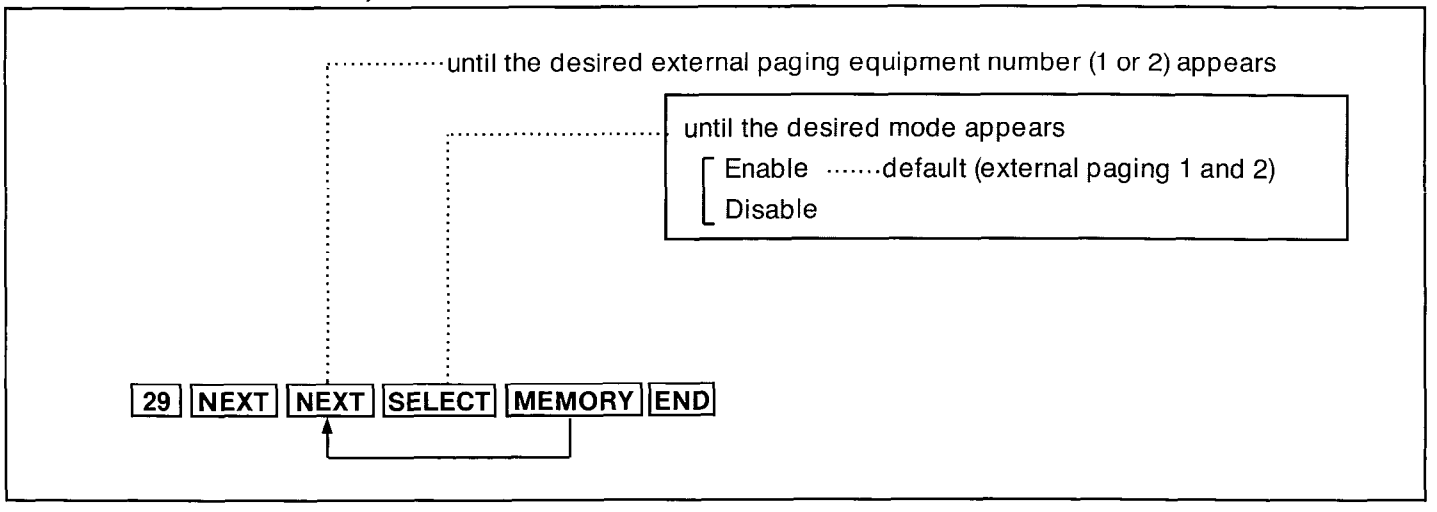
Example:

10 seconds after dialing
= 28 NEXT SELECT MEMORY END

Programming Table

See page 7-9.

External Paging Access Tone



Description

The acknowledge tone that is heard after accessing the external paging equipment can be removed or added at the customer's request.

Refer to "Paging-External" on page 4-24.

Programming

1. Dial (29).
   "Ext-Pag Ack-Tone" will be displayed.
2. Press the NEXT button.
   "Pag NO?→" will be displayed.
3. Press the NEXT button.
   "Pag 1: Enable" will be displayed and "Enable" will blink.
4. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. Repeat steps 3 to 5, to program the access tone of the other external paging equipment.
7. To return to the initial program mode, press the END button.

Example:

To eliminate the access paging tone on external paging1.

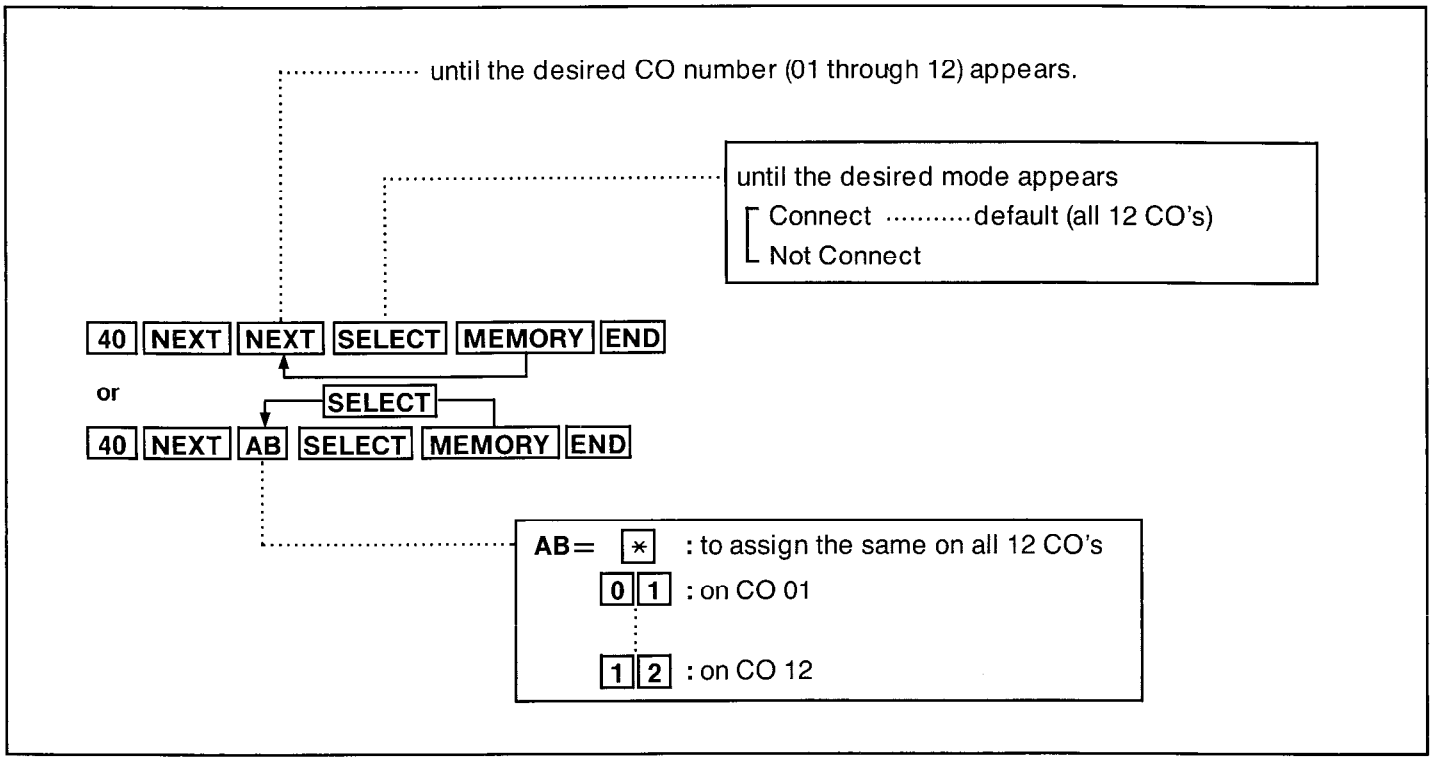
29 NEXT NEXT SELECT MEMORY END

Programming Table

See page 7-9.

Outside Line Feature

CO Connection Assignment



Description

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

Programming

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

Conditions

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

Example :

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

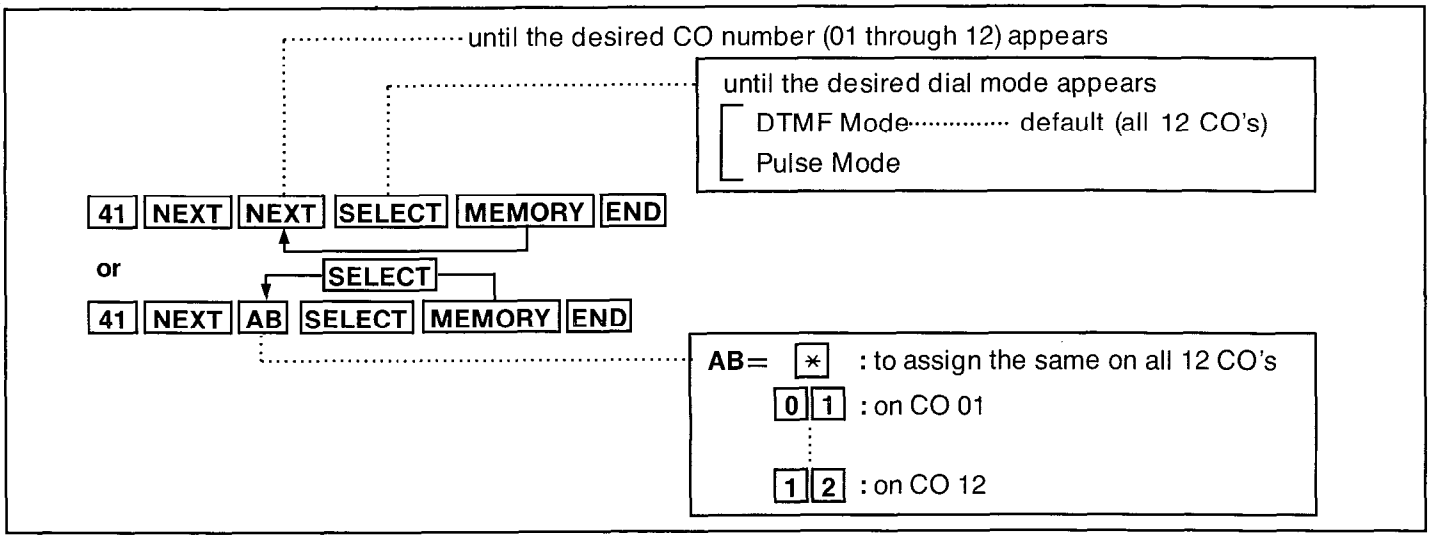
1. 40 NEXT NEXT MEMORY
2. NEXT MEMORY
3. NEXT SELECT MEMORY END

Programming Table

See page 7-9.

Dial Mode (DTMF/Pulse)

DTMF/Pulse Selection



Description

Allows the user to select the dialing mode (tone or pulse) of each CO (Central Office) line.

- DTMF Dial Mode
  The dial signal from the extension (with tone or pulse dial mode) will be converted to TONE. TONE will be transmitted to the Central Office.
- PULSE Dial Mode
  The dial signal from the extension (with tone or pulse dial mode) will be converted to PULSE. PULSE will be transmitted to the Central Office.

Programming

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

Conditions

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

Example:

- TONE on the CO 1=

  41 NEXT 01 MEMORY END

  or

  41 NEXT NEXT MEMORY END

- PULSE on the CO 2=

  41 NEXT 02 SELECT MEMORY END

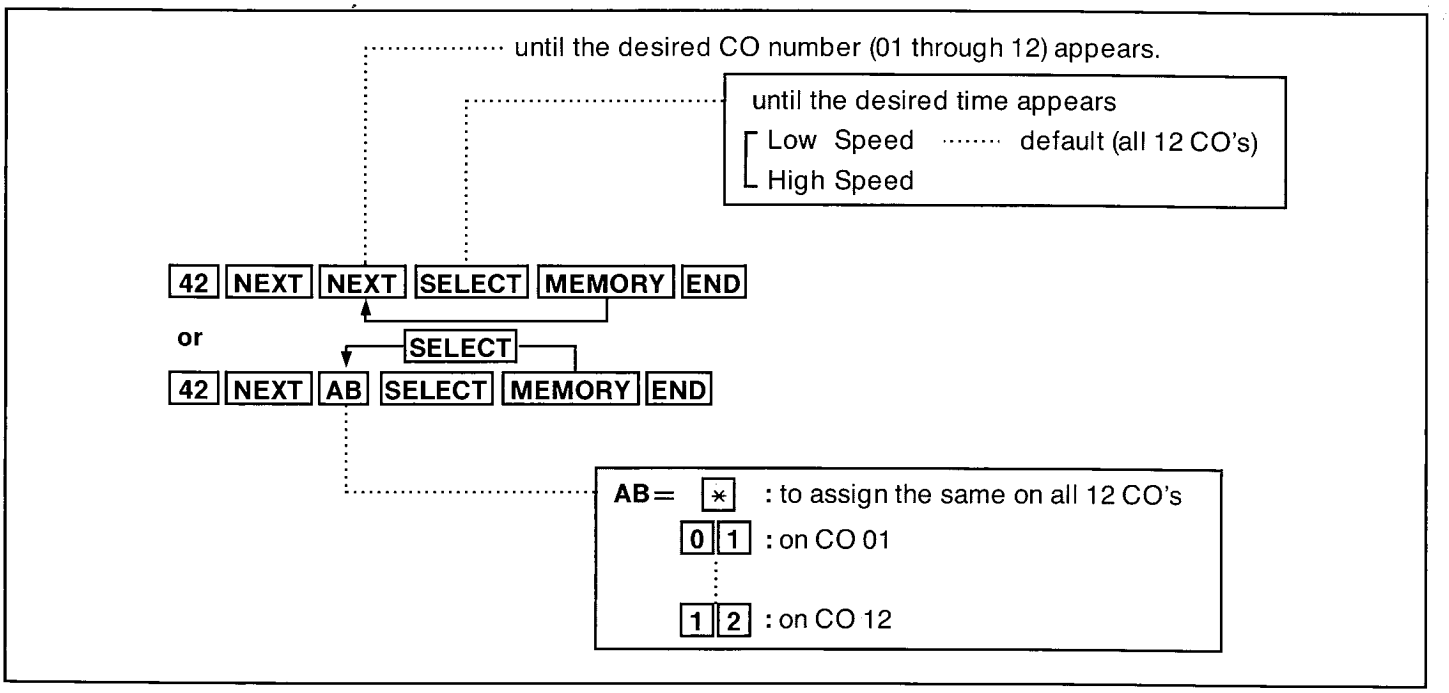
  or

  41 NEXT NEXT NEXT SELECT MEMORY END

Programming Table

See page 7-9.

Pulse Speed Selection



Description

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

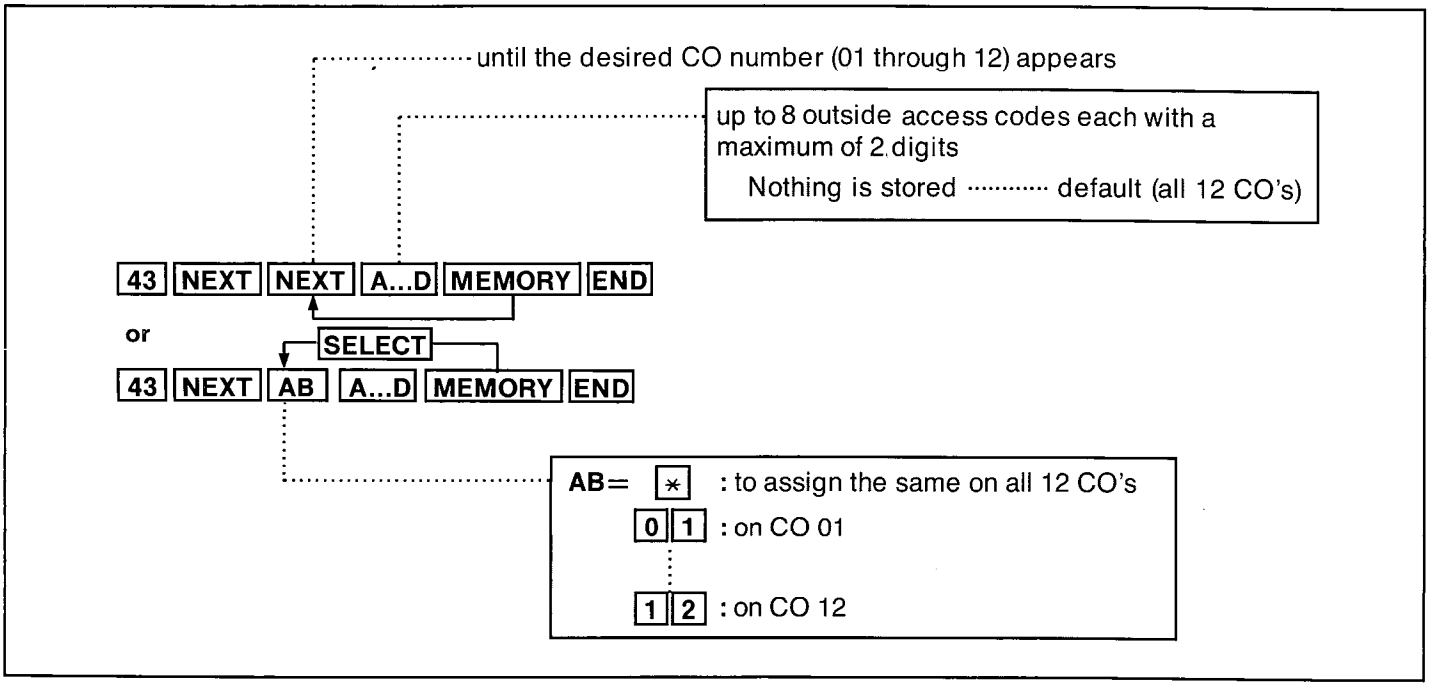
Programming

1. Dial (42).
   "Pulse Speed" will be displayed.
2. Press the NEXT button.
   "CO NO ?→" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : Low Speed" will be displayed and "Low Speed" will blink.
4. Press the SELECT button to alternate between "Low Speed" and "High Speed".
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to program the assignment of the other CO numbers.
8. To return to the initial program mode, press the END button.

Programming Table

See page 7-9.

Host PBX Access Codes Assignment



Description

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

Programming

1. Dial (43).
   "Host PBX Access" will be displayed.
2. Press the NEXT button.
   "CO NO ?→" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   - The LCD will show "CO 01 : Not Stored" when nothing is stored in CO 1.
     When the outside access codes 81,82 has been stored, "CO 01 : 81, 82" will be displayed.
4. Enter up to 8 outward access codes each with a maximum of 2 digits, punctuating each code with the "[,]" button.
   - To erase a wrong entry, press the CLEAR button.
5. Press the MEMORY button.
6. - To advance to the next CO number, press the NEXT button.
   - To return to the previous CO number, press the PREV button.
   - To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6 to program each of the CO's of the KX-T123210.
8. To return to the initial program mode, press the END button.

Example:

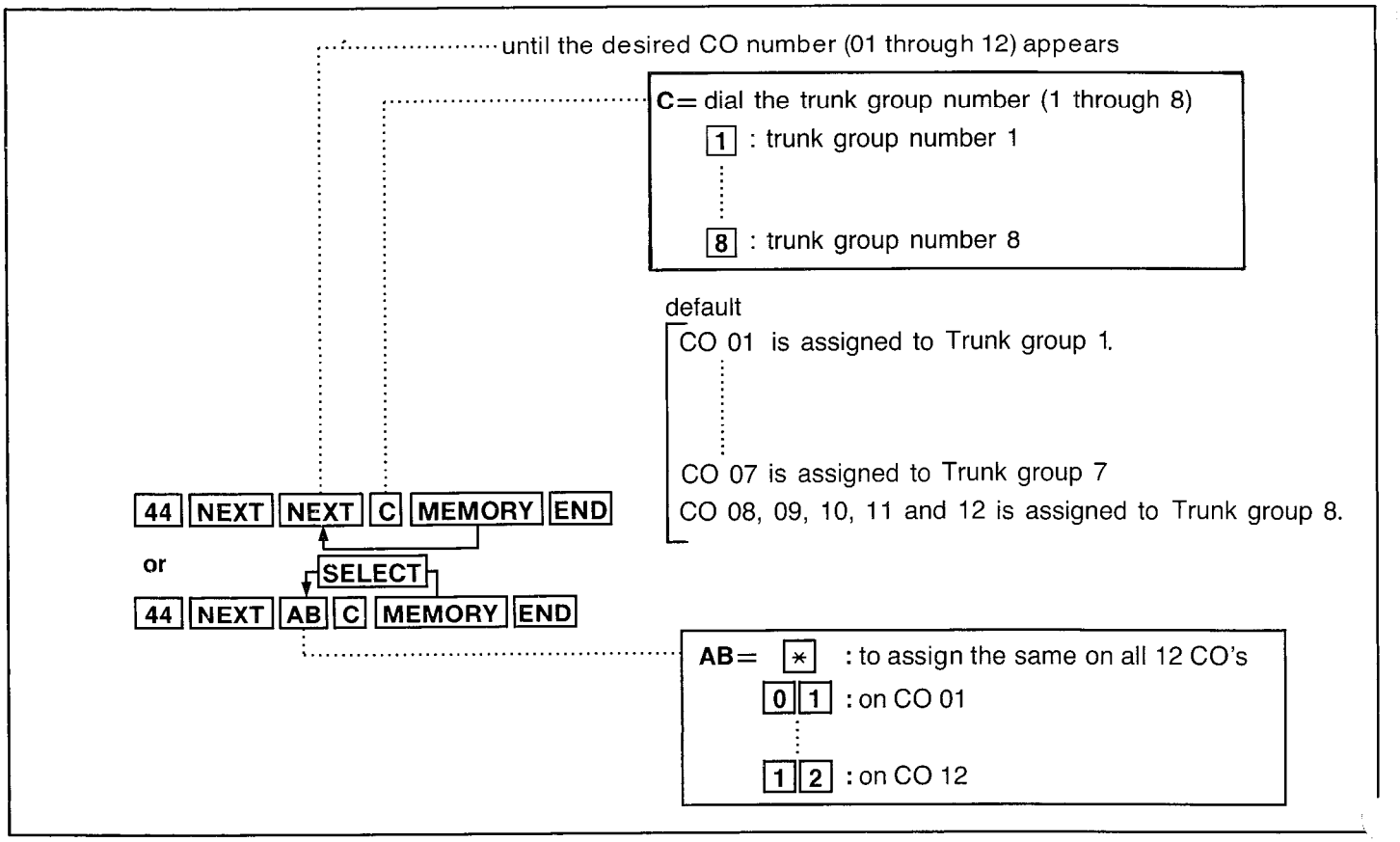
- Access Codes 81, 82, 83, 9 on CO 1

[43] [NEXT] [01] [81] [,] [82] [,] [83] [,] [9] [MEMORY] [END]

Programming Table

See page 7-10.

Trunk Group Assignment



Description

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

Trunk Group 1 — CO 1, CO 2, CO 3 } Telephone Service Company A
Trunk Group 2 — CO 4, CO 6, CO 7 } Telephone Service Company B
Trunk Group 3 — CO 8, CO 10, CO 11 } Telephone Service Company C

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

Programming

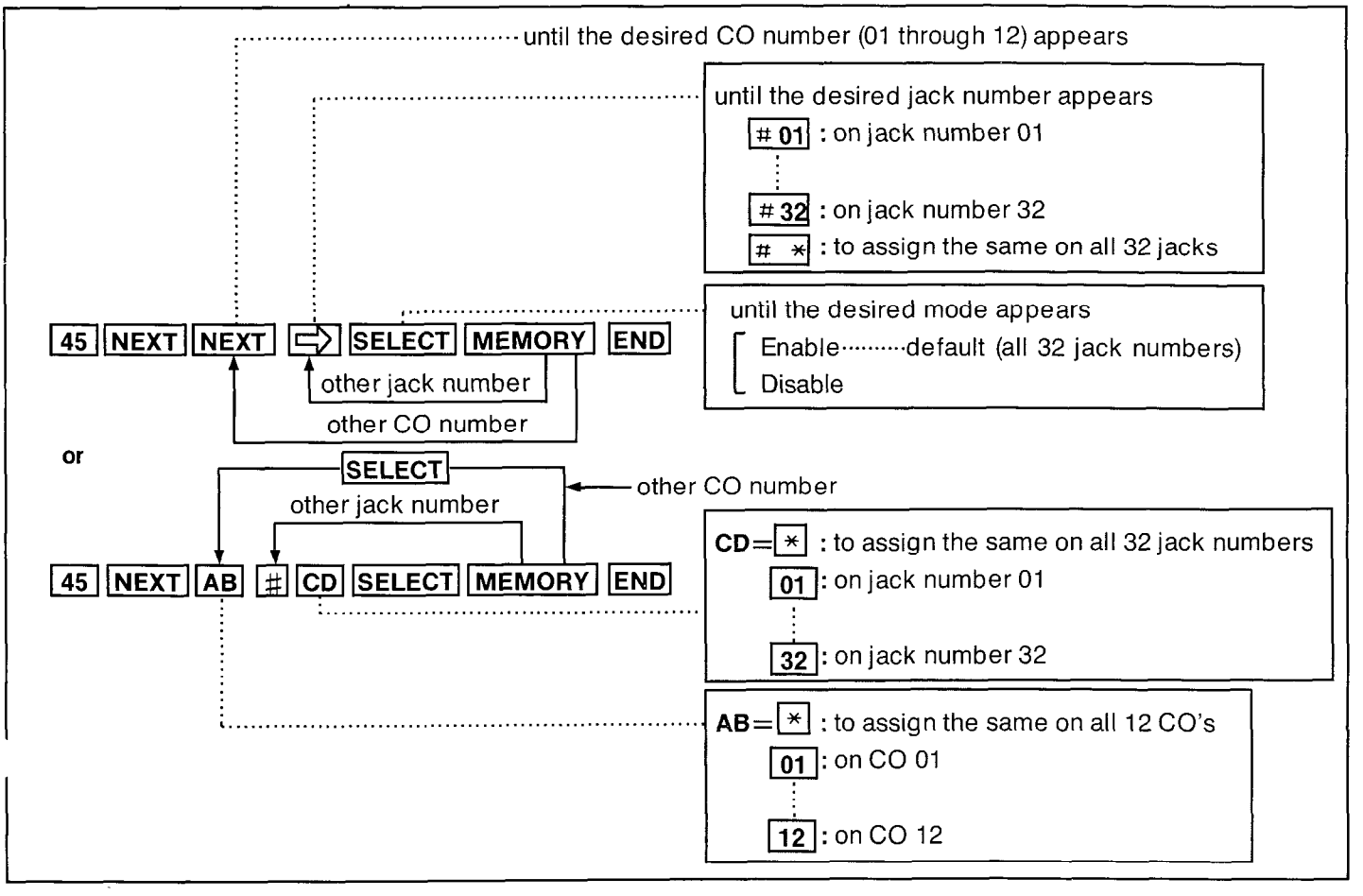
1. Dial (44).
   "Trunk Group" will be displayed.
2. Press the NEXT button.
   "CO NO ? →" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01: TRK GRP-1" will be displayed and "1" will blink.
4. Dial the trunk group number (1 through 8).
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to program the trunk group number on the other CO lines.
8. To return to the initial program mode, press the END button.

Programming Table

See page 7-10.

Flexible Outward Dialing Assignment

Day Mode



Description

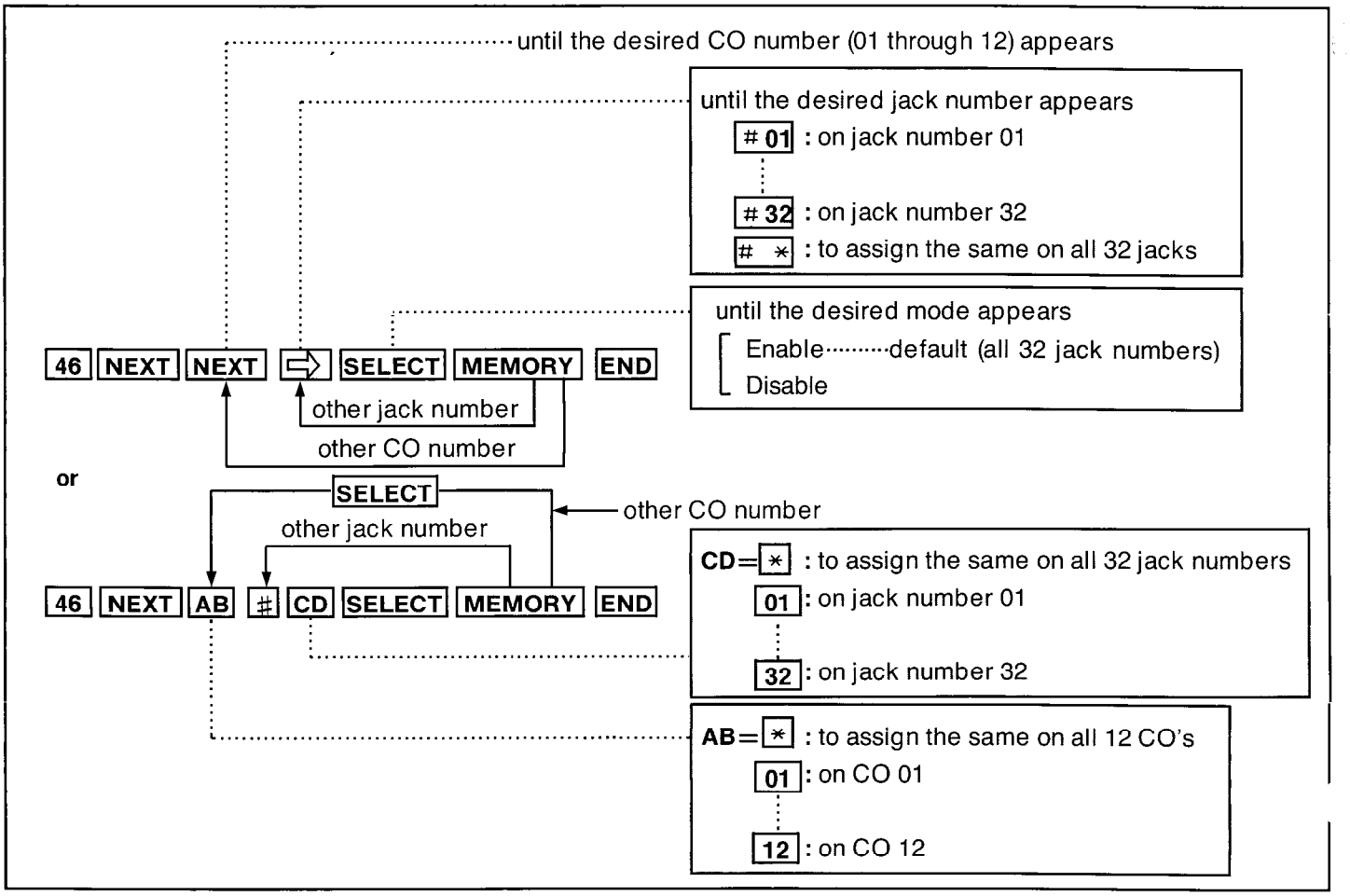
Through programming, you can select which extensions may be used for outward dialing by using the day mode of operation.

Programming

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

Programming Table

See page 7-11.



Description

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

Programming

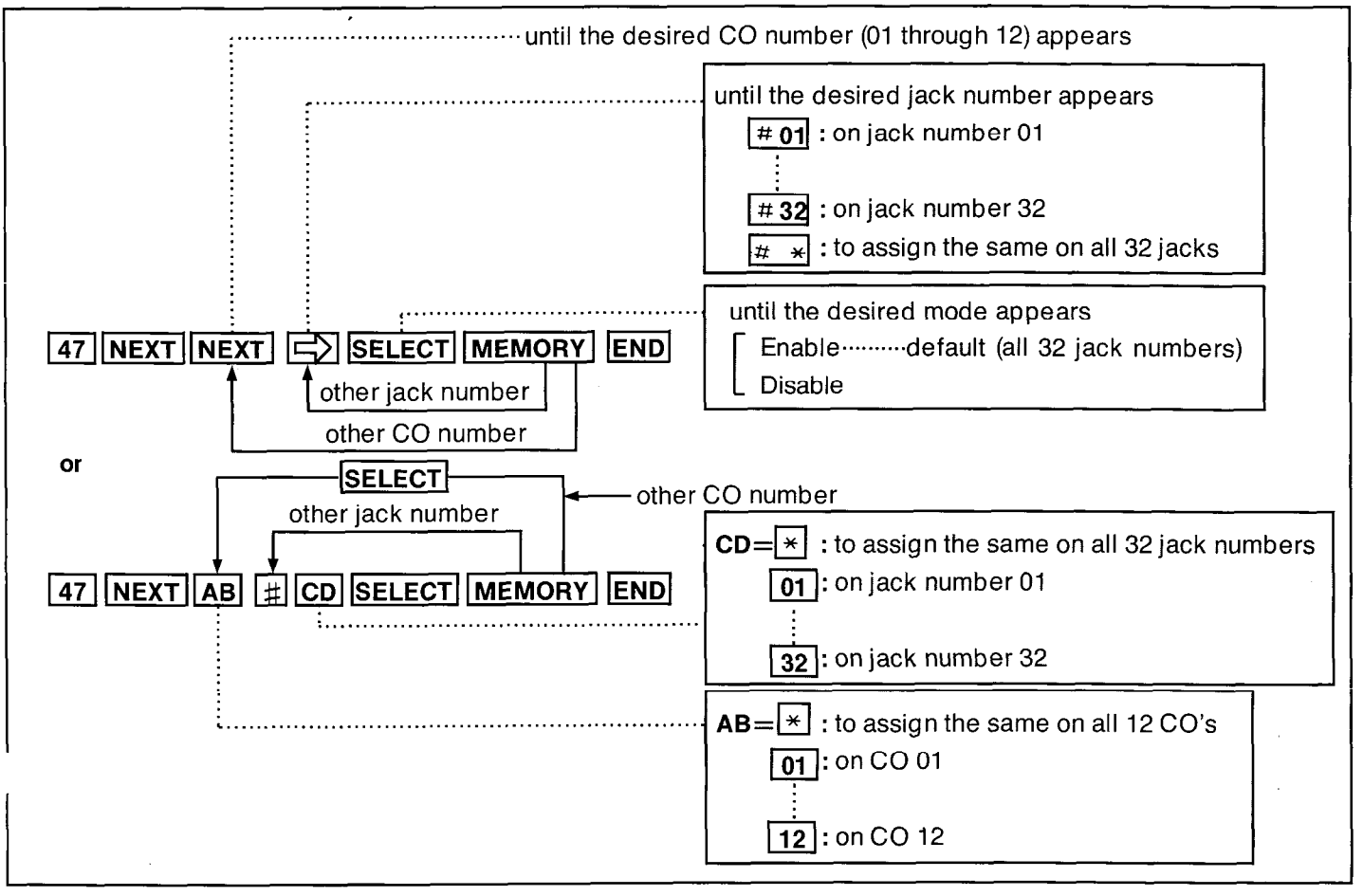
1. Dial (46).
   "Night Out CO" will be displayed.
2. Press the NEXT button.
   "CO NO ? →" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : #01 : Enable" will be displayed.
   (#01 ← jack number)
4. Repeat pressing the ⇨ button until the desired jack number appears, or press the # button and then dial the jack number.
5. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. ● To advance to the next jack number, press the ⇨ button.
   ● To return to the previous jack number, press the ⇦ button.
   ● To go to the desired jack number, press the # button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.
11. To return to the initial program mode, press the END button.

Programming Table

See page 7-12.

Flexible Ringing Assignment

Day Mode



Description

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

Programming

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

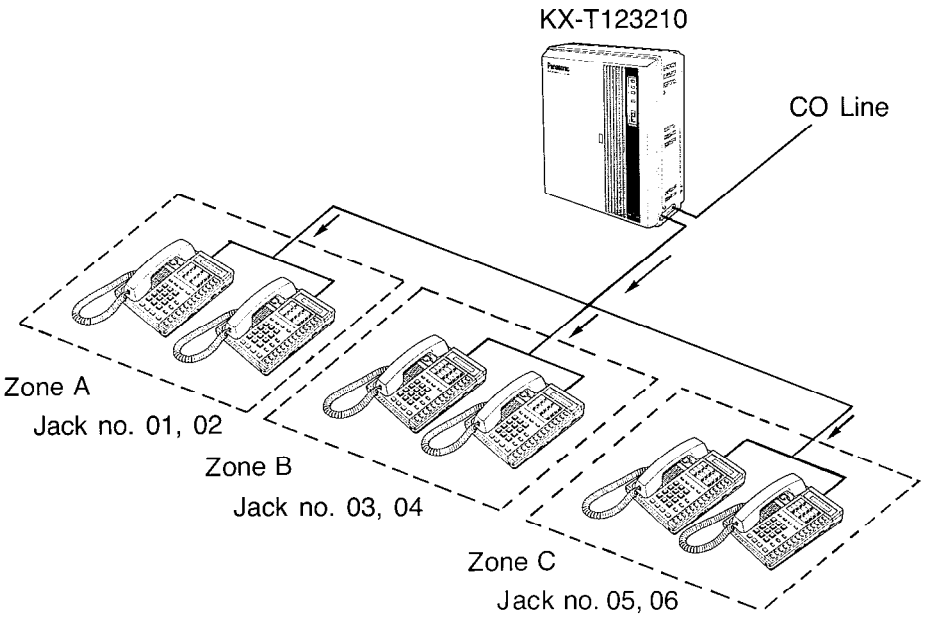
Programming Table

See page 7-13.

Example:

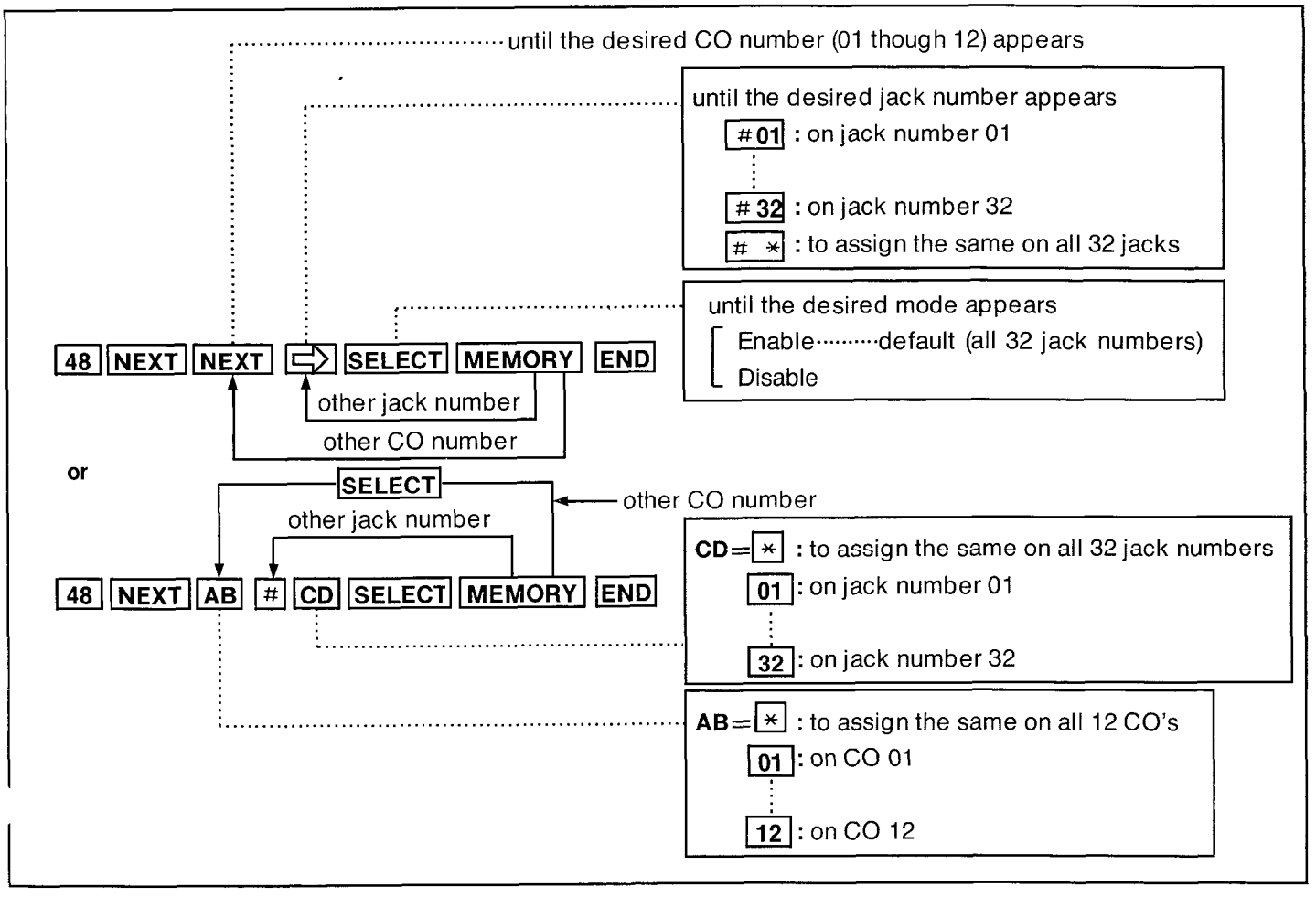
- Company XYZ would like incoming calls from the Central Office during the day mode to be received at the following zone.

Zone	Jack no. of Extension	Programming CO no.
A	01, 02	01
B	03, 04	02
C	05, 06	03



Programming

1. [47] [NEXT] [*] [#] [*] [SELECT] [MEMORY] ..... All CO numbers have been set to "Disable" on all jack numbers.
2. ([NEXT] or [SELECT] [01]) [SELECT] [MEMORY] ..... CO number 01 has been set to "Enable" on jack number 01.
3. ([⇨] or [#02]) [SELECT] [MEMORY] ..... CO number 01 has been set to "Enable" on jack number 02.
4. ([NEXT] or [SELECT] [02]) [#] [03] [SELECT] [MEMORY] ..... CO number 02 has been set to "Enable" on jack number 03.
5. ([⇨] or [#04]) [SELECT] [MEMORY] ..... CO number 02 has been set to "Enable" on jack number 04.
6. ([NEXT] or [SELECT] [03]) [#] [05] [SELECT] [MEMORY] ..... CO number 03 has been set to "Enable" on jack number 05.
7. ([⇨] or [#06]) [SELECT] [MEMORY] ..... CO number 03 has been set to "Enable" on jack number 06.
8. [END]



Description

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

Programming

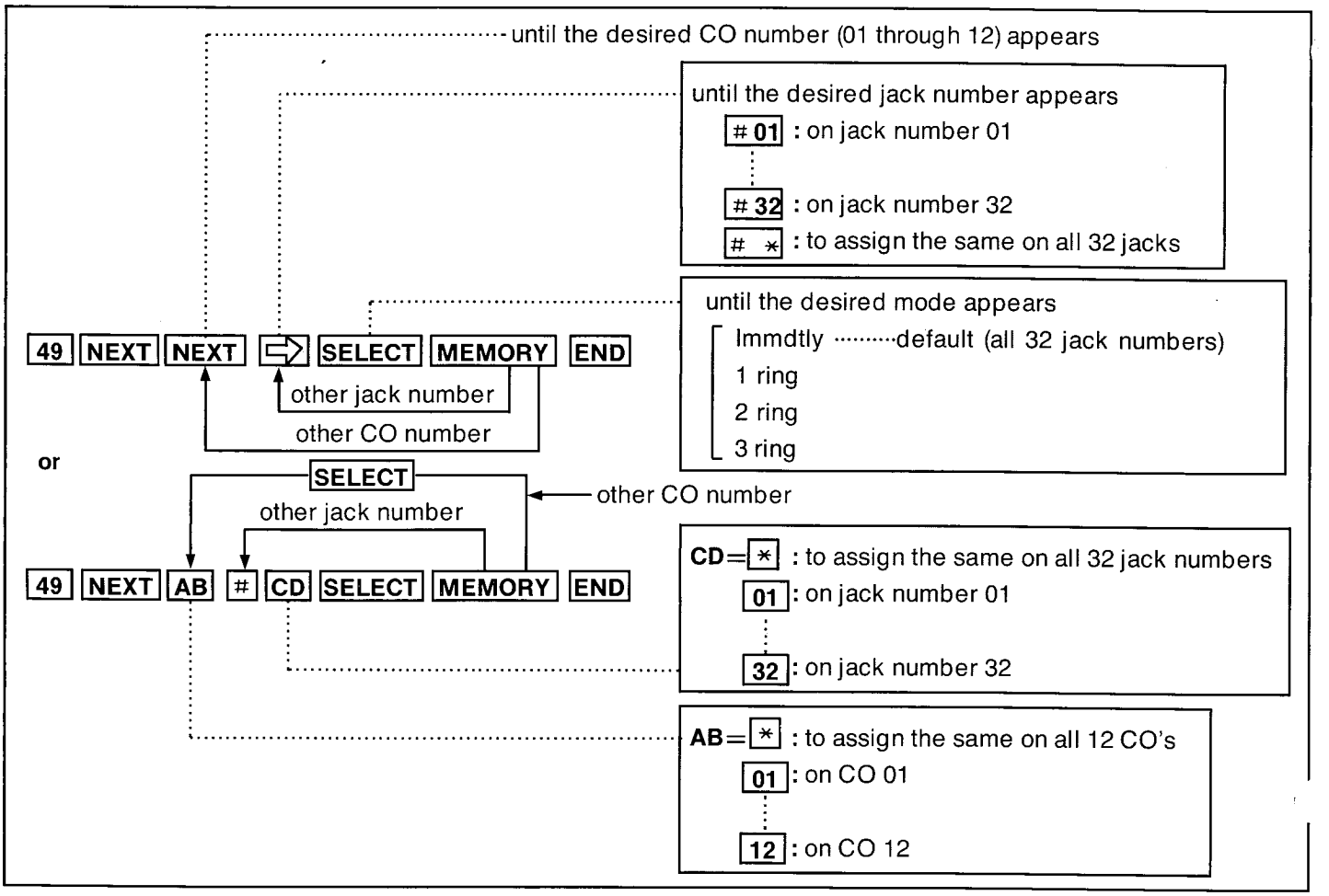
1. Dial (48).
   "Night In CO" will be displayed.
2. Press the NEXT button.
   "CO NO ? →" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : #01 : Enable" will be displayed.
   (#01 : jack number)
4. Repeat pressing the ⇨ button until the desired jack number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

Programming Table

See page 7-14.

Delayed Ringing Assignment

Day Mode



Description

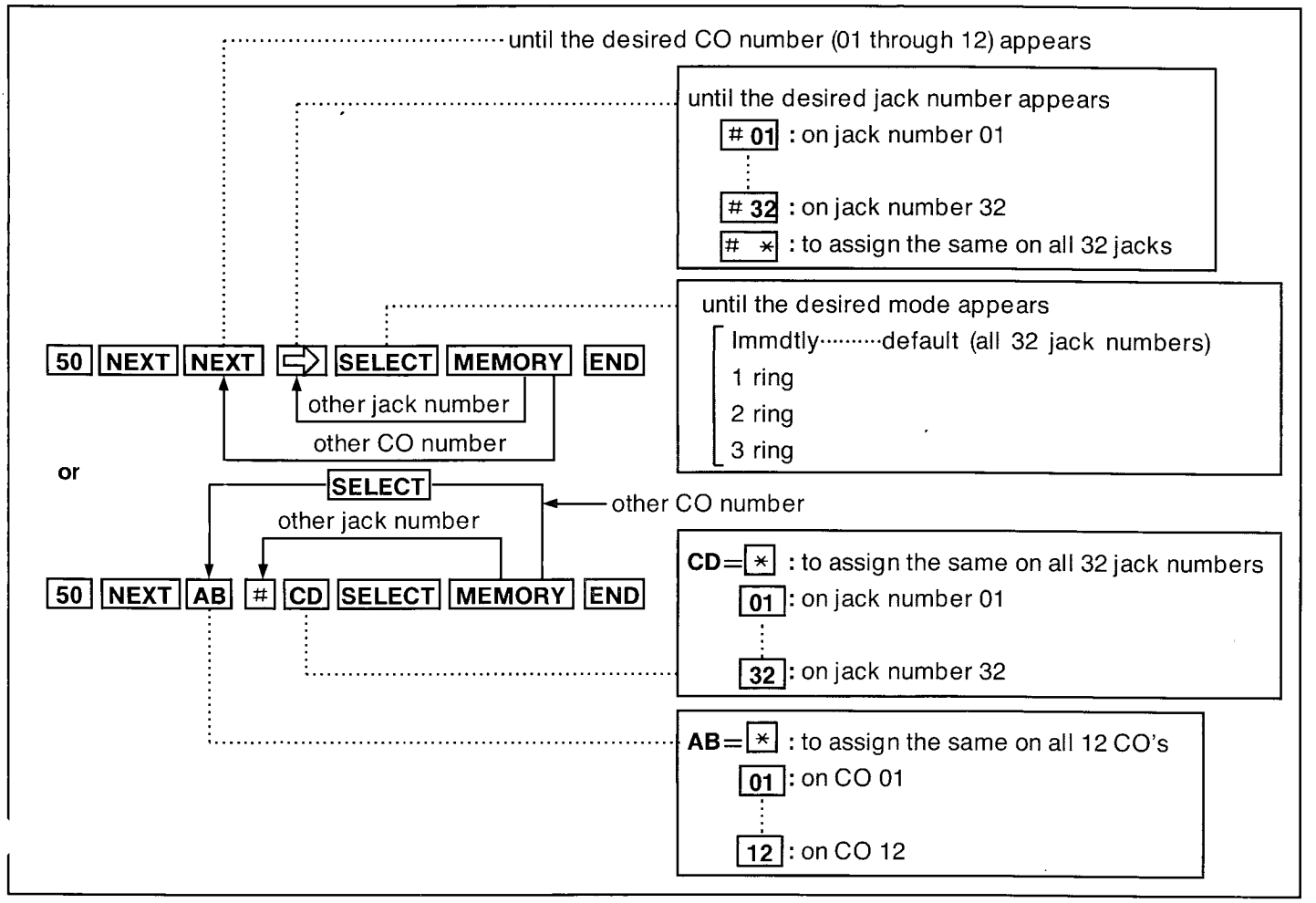
The ringing start time during the day can be delayed on a designated extension(s) when an incoming call is received from the CO.The CO line (s) that you want to delay the ring start time during the day can be selected through the programming.

Programming

1. Dial (49).
   "Day Delayed CO" will be displayed.
2. Press the NEXT button.
   "CO NO ?→" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : #01 : Immdtly" will be displayed.
   (#01 : jack number)
4. Repeat pressing the ⇨ button until the desired jack number appears, or press the # button and then dial the jack number.
5. Repeat pressing the SELECT button until the desired mode is displayed.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. ● To advance to the next jack number, press the ⇨ button.
   ● To return to the previous jack number, press the ⇦ button.
   ● To go to the desired jack number, press the # button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.
11. To return to the initial program mode, press the END button.

Programming Table

See pages 7-15 and 7-16.



Description

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

Programming

1. Dial (50).
   "Night Delayed CO" will be displayed.
2. Press the NEXT button.
   "CO NO ? →" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : #01 : Immdtly" will be displayed.
   (#01 : jack number)
4. Repeat pressing the ⇨ button until the desired jack number appears, or press the # button and then dial the jack number.
5. Repeat pressing the SELECT button until the desired mode is displayed.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. ● To advance to the next jack number, press the ⇨ button.
   ● To return to the previous jack number, press the ⇦ button.
   ● To go to the desired jack number, press the # button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
10. Repeat steps 4 to 9, to program the assignment of the other CO numbers.
11. To return to the initial program mode, press the END button.

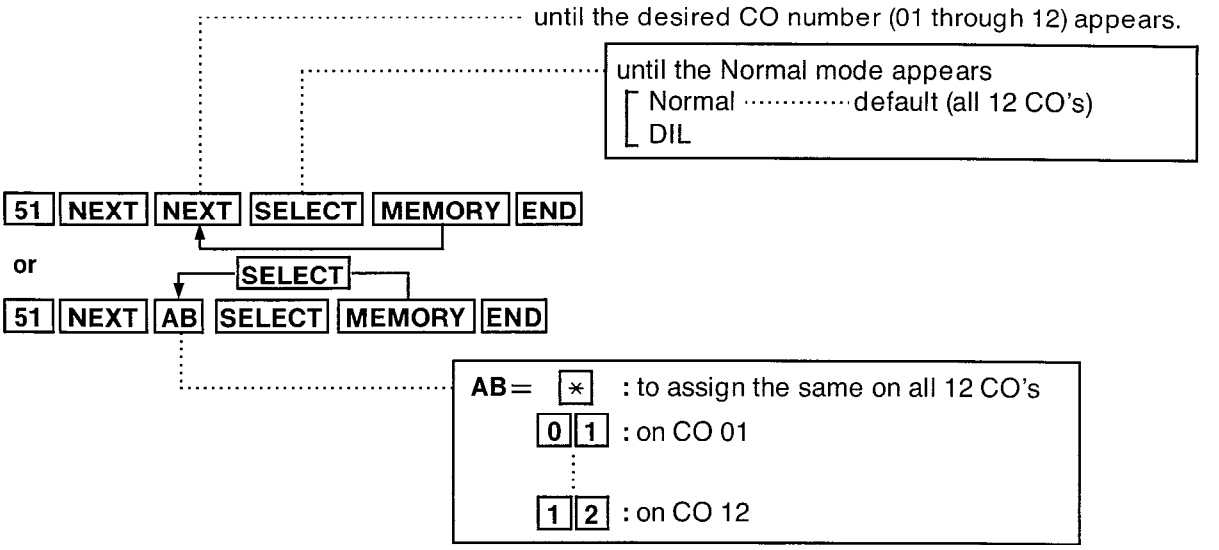
Programming Table

See page 7-17and 7-18.

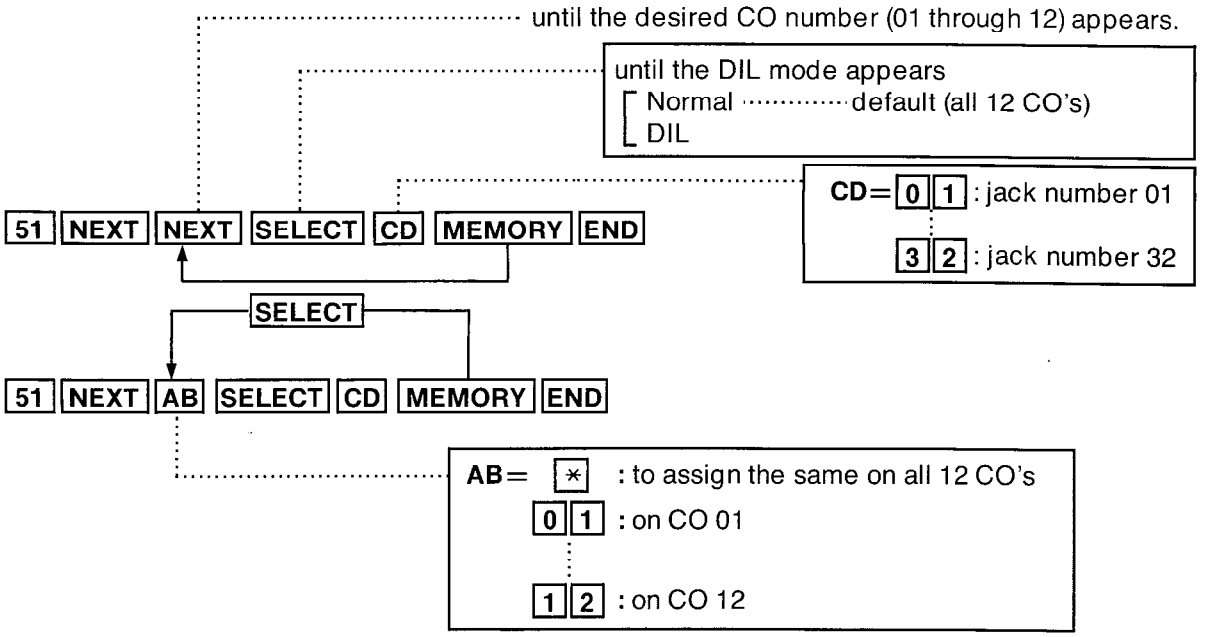
CO Direct In Line Assignment

Day Mode

■ Selecting the "Normal" mode



■ Selecting the "DIL" mode



Description

Enables all outside line incoming calls to be directed to a specific extension phone (e.g., the assigned operator extension) during the day mode.
By programming an outside line to the jack number of the corresponding extension phone, all incoming calls on that outside line will be received at the assigned extension phone. The call can be accepted by simply picking up the receiver.

Programming

■ Selecting the "Normal" mode

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

■ Selecting the "DIL" mode

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

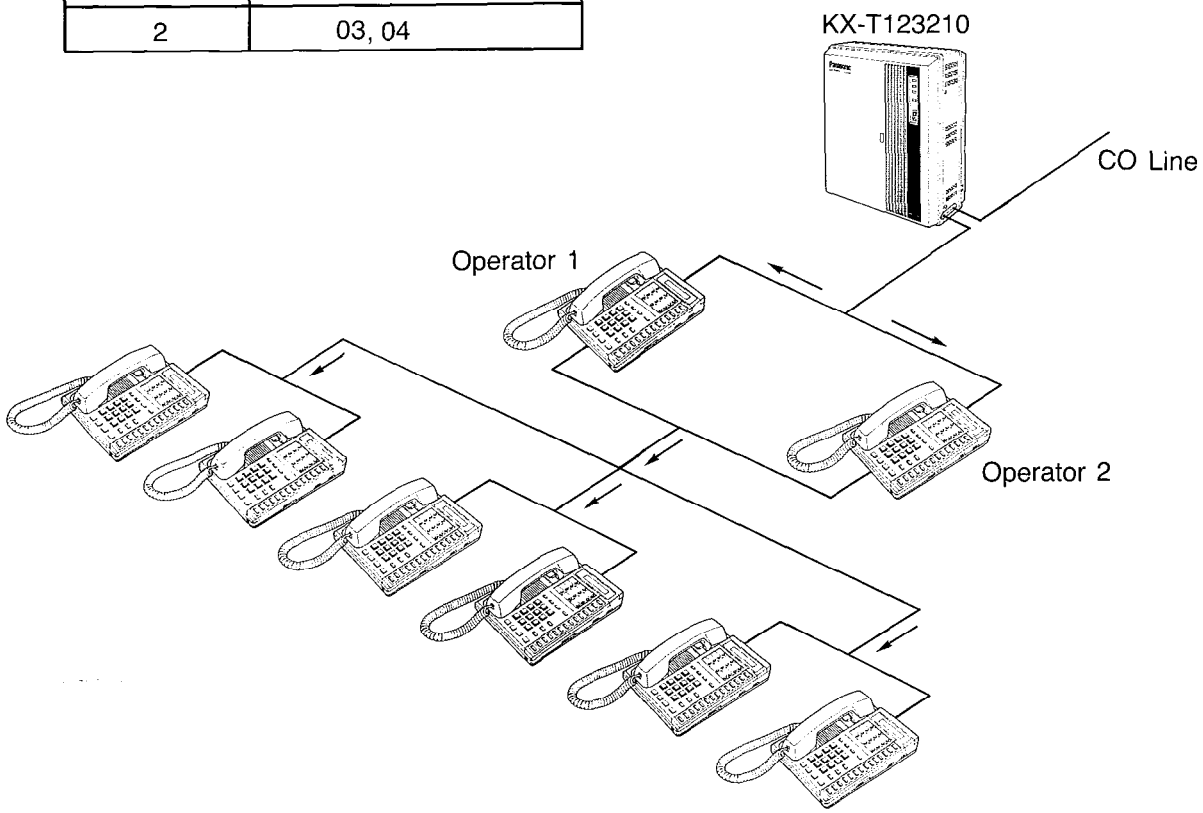
Programming Table

See page 7-19.

Example:

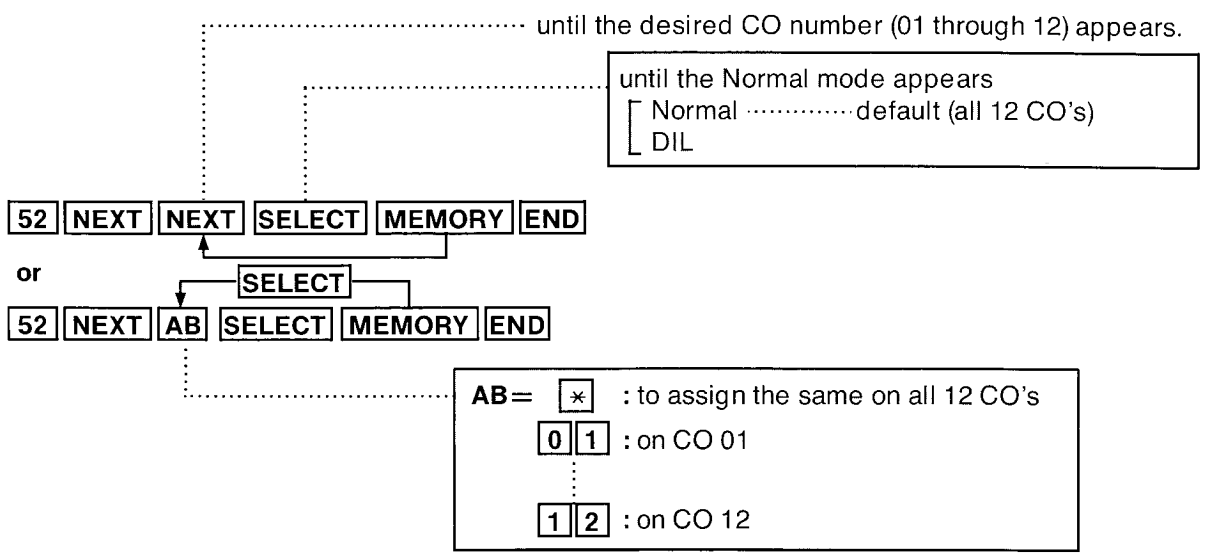
- Company XYZ would like incoming calls from Central Office During the day mode to be received by operators 1 and 2.
  Operator 1 has been connected to jack number 01.
  Operator 2 has been connected to jack number 02.

Operator	Programming CO no.
1	01, 02,
2	03, 04

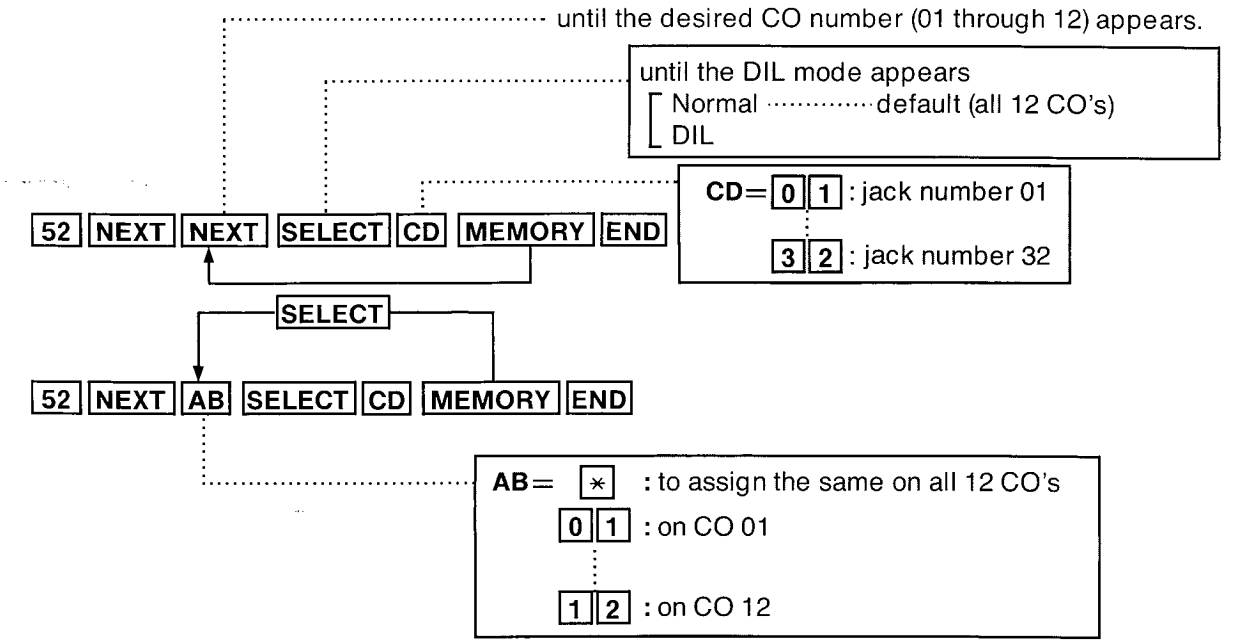


1. [51] [NEXT] ([NEXT] or [01]) [SELECT] [01] [MEMORY] . . . . Extension jack number 01 only has been set to receive all incoming calls through CO 01.
2. ([NEXT] or [SELECT] [02]) [SELECT] [01] [MEMORY] . . . . . Extension jack number 01 only has been set to receive all incoming calls through CO 02.
3. ([NEXT] or [SELECT] [03]) [SELECT] [02] [MEMORY] . . . . . Extension jack number 02 only has been set to receive all incoming calls through CO 03.
4. ([NEXT] or [SELECT] [04]) [SELECT] [02] [MEMORY] . . . . . Extension jack number 02 only has been set to receive all incoming calls through CO 04.
5. [END]

■ Selecting the "Normal" mode



■ Selecting the "DIL" mode



Description

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

Programming

■ Selecting the "Normal" mode

1. Dial (52).
   "CO Night/ Mode" will be displayed.
2. Press the NEXT button.
   "CO NO ?→" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : Normal" will be displayed and "Normal" will blink.
4. Press the SELECT button until the "Normal" mode is displayed.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to program the assignment of the other CO numbers.
8. To return to the initial program mode, press the END button.

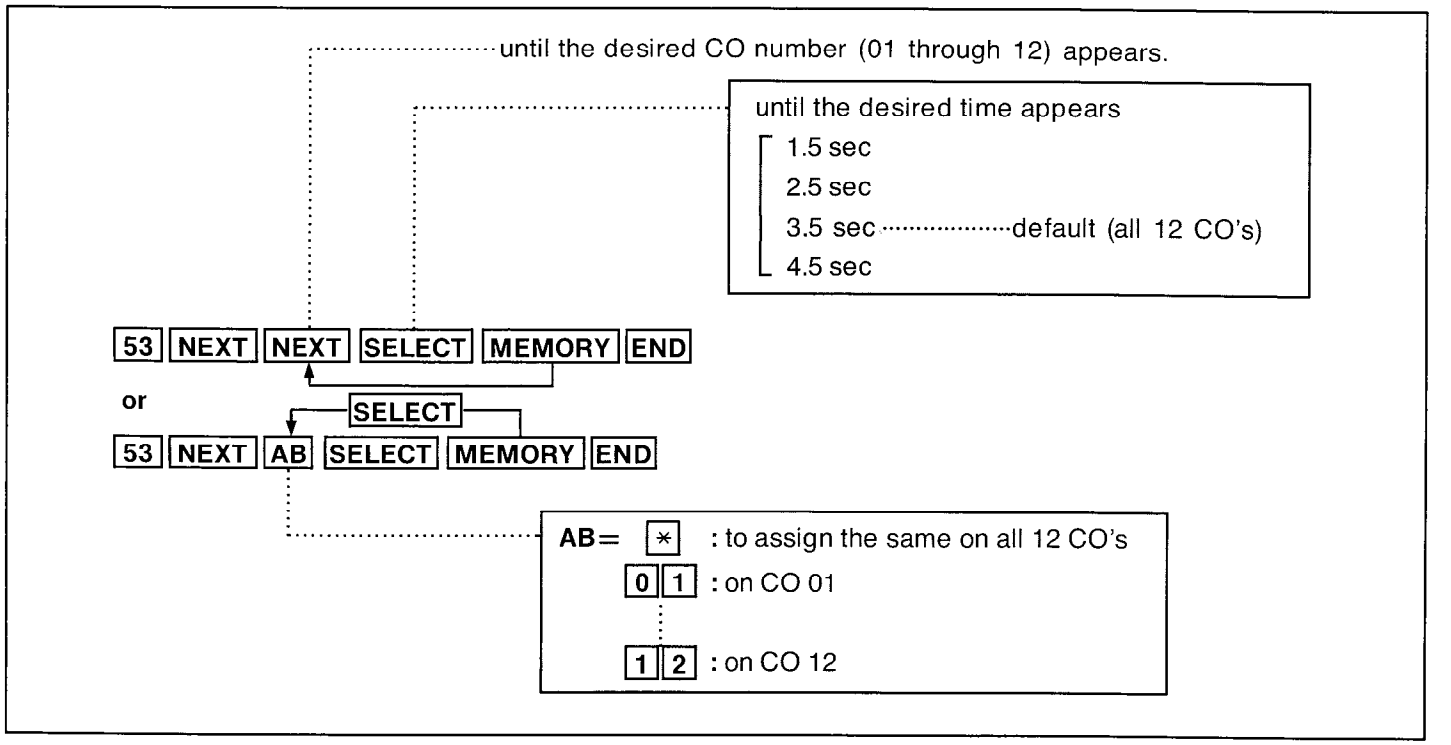
■ Selecting the "DIL" mode

1. Dial (52).
   "CO Night/ Mode" will be displayed.
2. Press the NEXT button.
   "CO NO ?→" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : Normal" will be displayed and "Normal" will blink.
4. Press the SELECT button until the "DIL" mode is displayed.
   "CO 01 : DIL : Jack-" will be displayed.
5. Dial the jack number (01 through 32).
6. Press the MEMORY button.
   The LCD will stop blinking.
7. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
8. Repeat steps 4 to 7, to program the assignment of the other CO numbers.
9. To return to the initial program mode, press the END button.

Programming Table

See page 7-19.

Pause Time Assignment



Description

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

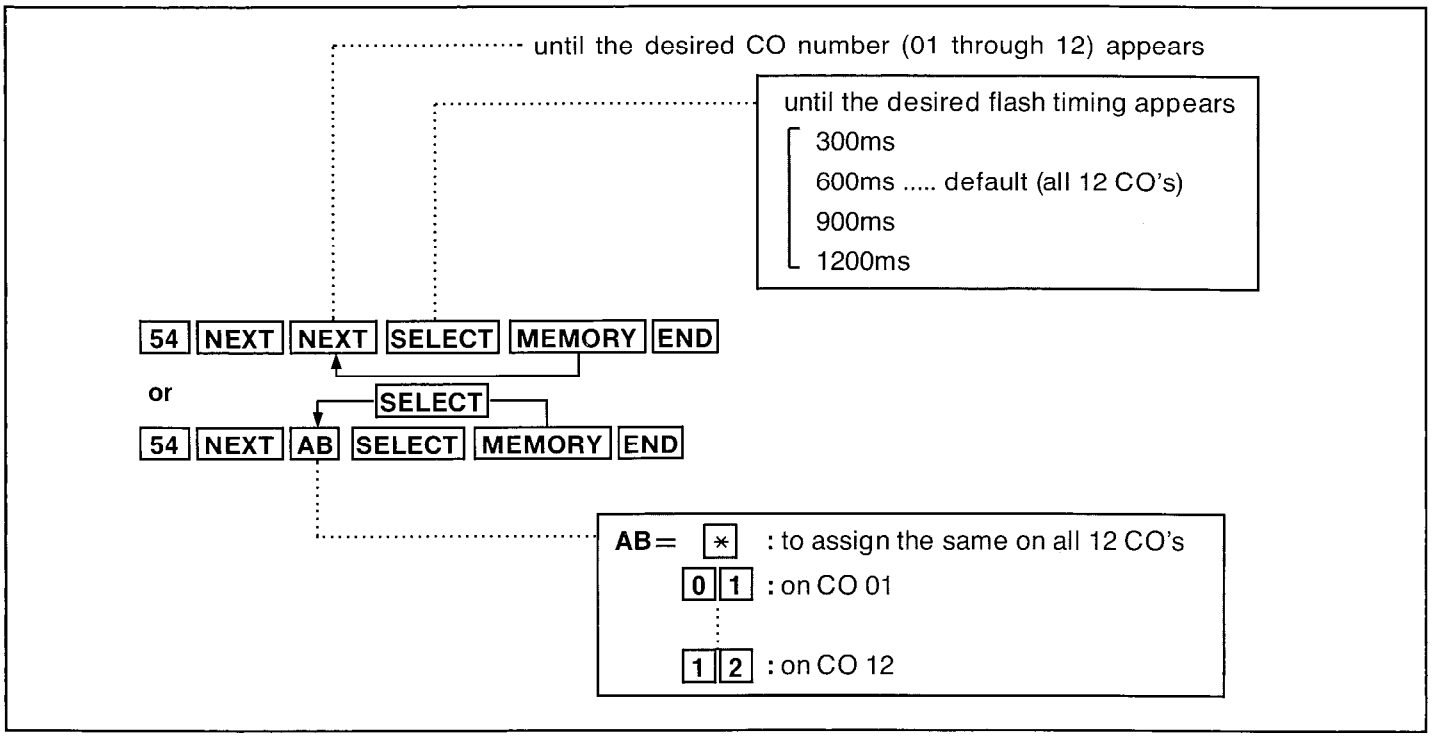
Programming

1. Dial (53).
   "Pause Time" will be displayed.
2. Press the NEXT button.
   "CO NO ? →" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : 3.5sec" will be displayed and 3.5sec will blink.
4. Repeat pressing the SELECT button until the desired time (1.5sec, 2.5sec, 3.5sec, 4.5sec) is displayed.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to program the assignment of the other CO numbers.
8. To return to the initial program mode, press the END button.

Programming Table

See page 7-20.

Hookswitch Flash Timing



Description

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

Programming

1. Dial (54).
   "Flash Time Set" will be displayed.
2. Press the NEXT button.
   "CO NO ?→" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01 : 600ms" will be displayed and "600ms" will blink.
4. Repeat pressing the SELECT button until the desired value is displayed.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to set the hookswitch timing of the other CO's.
8. To return to the initial program mode, press the END button.

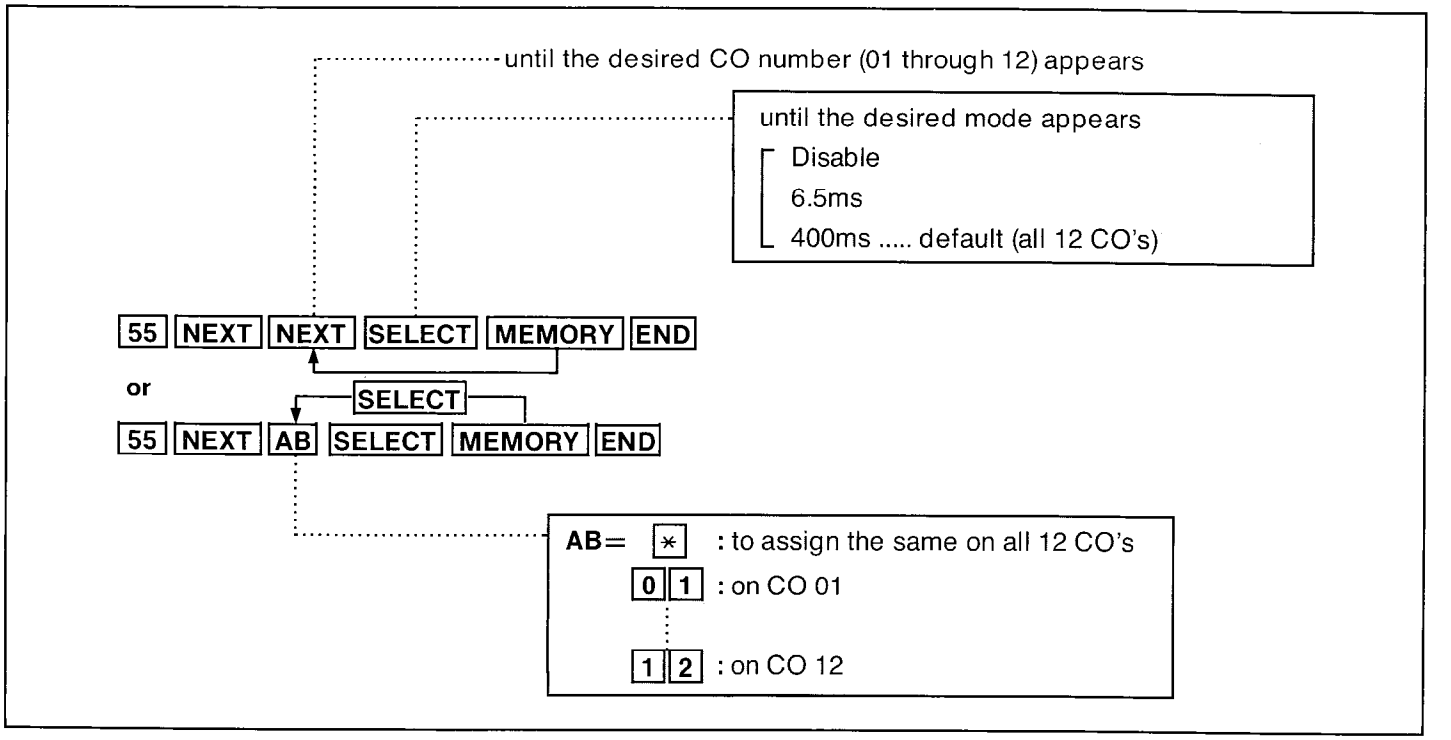
Example:

0.3 sec on all 12 CO=
54 NEXT * SELECT SELECT SELECT MEMORY END

Programming Table

See page 7-20.

Calling Party Control (CPC) Signal



Description

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

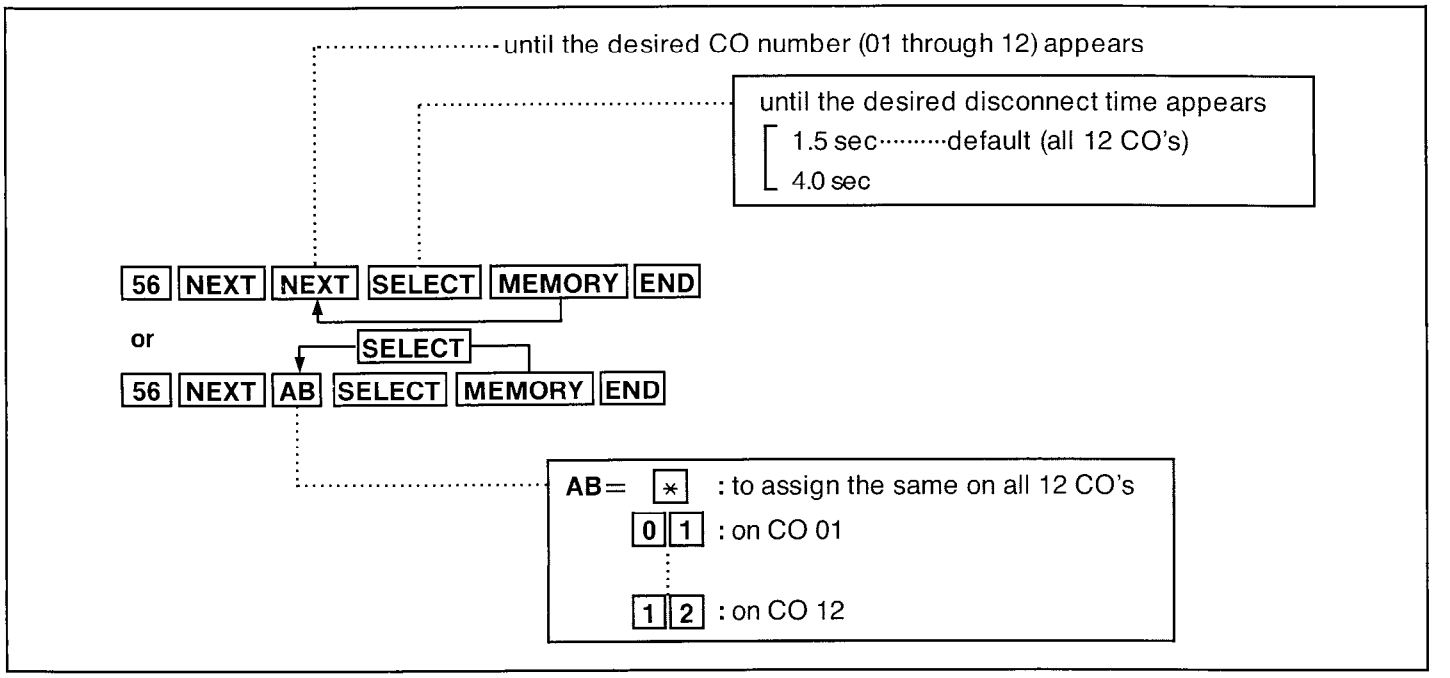
Programming

1. Dial (55).
   "CPC Detection" will be displayed.
2. Press the NEXT button.
   "CO NO ? →" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01: 400ms" will be displayed and "400ms" will blink.
4. Repeat pressing the SELECT button until the desired mode is displayed.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to program the assignment of the other CO's.
8. To return to the initial program mode, press the END button.

Programming Table

See page 7-20.

Disconnect Time



Description

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

Programming

1. Dial (56).
   "Disconnect Time" will be displayed.
2. Press the NEXT button.
   "CO NO ?→" will be displayed.
3. Press the NEXT button or dial the CO number (01 through 12).
   "CO 01:1.5 sec" will be displayed and "1.5 sec" will blink.
4. Press the SELECT button to alternate between 1.5 sec and 4.0 sec.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next CO number, press the NEXT button.
   ● To return to the previous CO number, press the PREV button.
   ● To go to the desired CO number, press the SELECT button and then dial the CO number.
7. Repeat steps 4 to 6, to set the disconnect time for the other CO's.
8. To return to the initial program mode, press the END button.

Example:

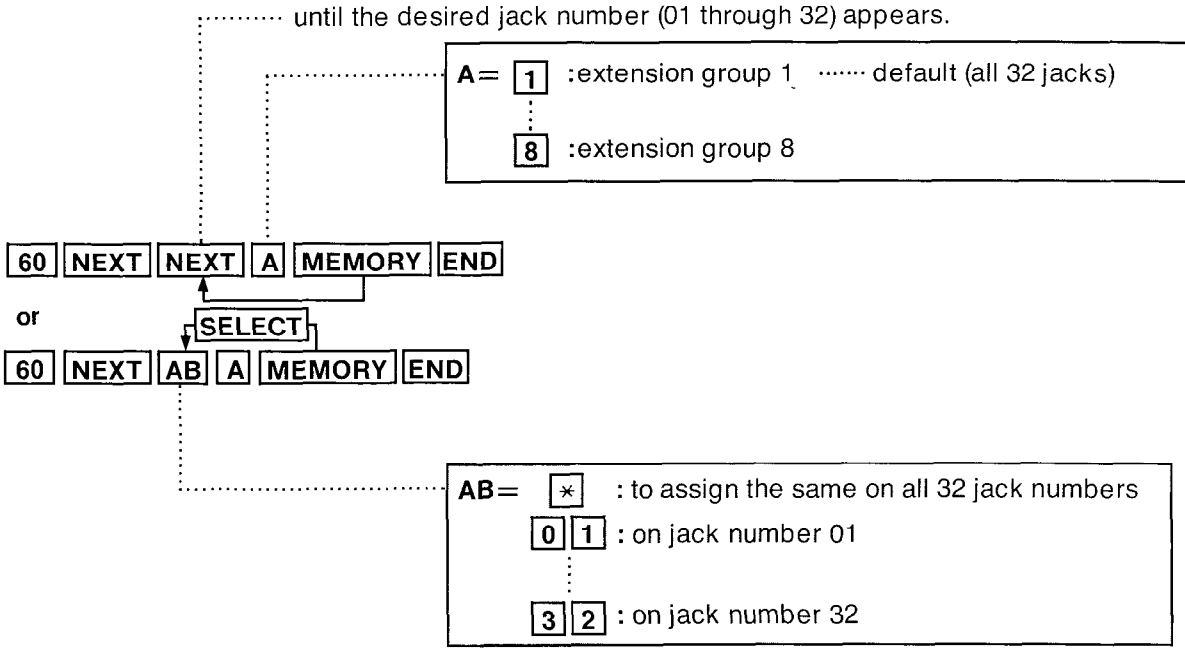
● 4.0 sec on all 12 CO's =
56 NEXT * SELECT MEMORY END

Programming Table

See page 7-20.

Extension Feature

Extension Group Assignment



Description

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

Programming

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

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

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

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

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

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

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

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

Conditions

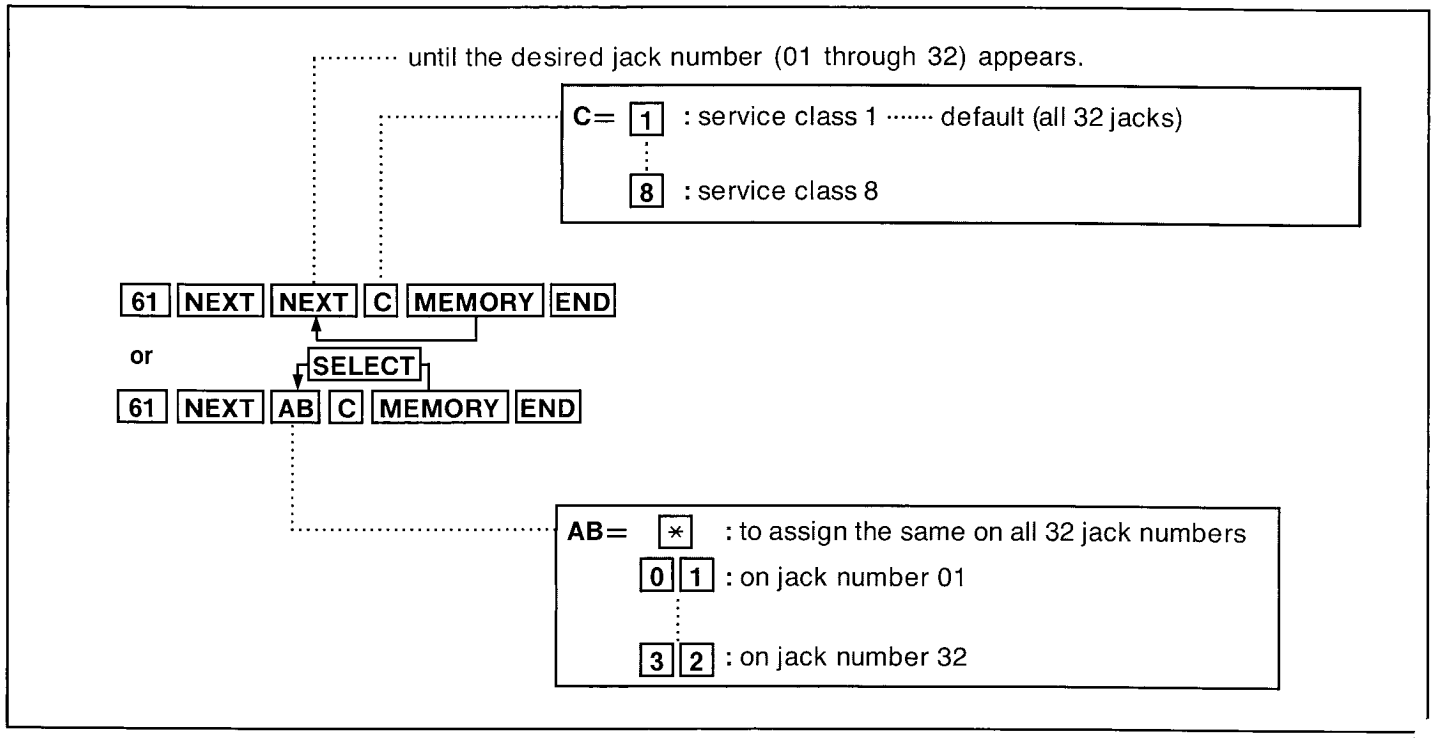
● When you dial "*" instead of pressing the NEXT button at step 3, in case all of 32 jack numbers have been programmed to extension group 1, "# *:EXT GRP-1" will be displayed.
In case each of 32 jack numbers has been programmed from extension group 1 to extension group 8, "# *:Confused" will be displayed.

Programming Table

See page 7-21.

Service Class Assignment of Toll Restriction

Day Mode



Description

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

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

There are eight service classes available for each extension.

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

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

	Service Class Selections	
	Allowed	Denied
1.	all calls	
2.	●toll calls ●local calls (charged) ●local calls	●international calls
3.	●selected area codes ●local calls (charged) ●local calls	●international calls ●any calls other than specific area code programmed
4.	●local calls (charged) ●local calls	●international calls ●toll calls
5.	●selected exchange codes (charged) ●local calls	●international calls ●toll calls ●any calls other than specific exchange codes (charged) programmed
6.	●local calls	●international calls ●toll calls ●local calls (charged)
7.	●any calls other than specific exchange codes programmed	●international calls ●toll calls ●local calls (charged) ●selected exchange codes
8.		all calls

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

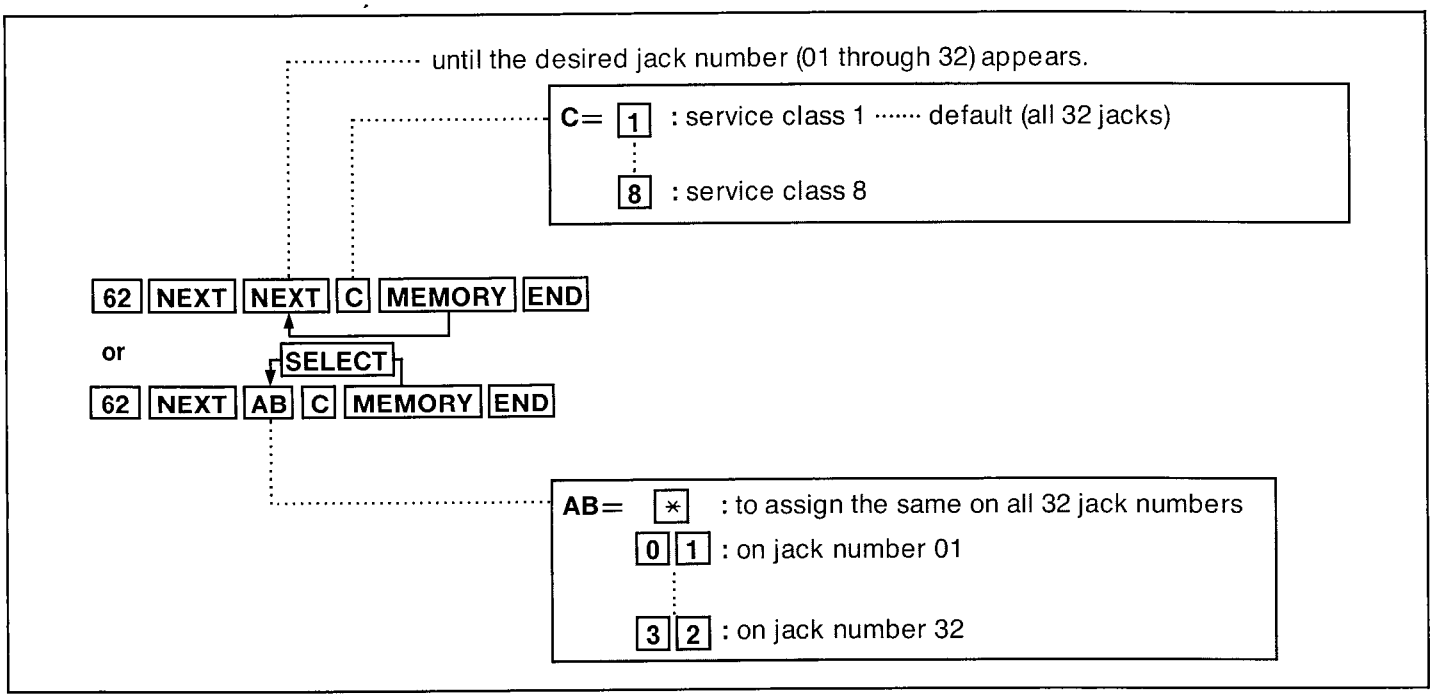
Programming

1. Dial (61).
   "Day Toll Restrct" will be displayed.
2. Press the NEXT button.
   "Jack NO ? → " will be displayed.
3. Press the NEXT button or dial the jack number (01 through 32).
   "#01 : Class-1" will be displayed and "1" will blink.
   (#01 ← jack number)
4. Press the service class number (1 through 8).
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next jack number, press the NEXT button.
   ● To return to the previous jack number, press the PREV button.
   ● To go to the desired jack number, press the SELECT button and then dial the jack number.
7. Repeat steps 4 to 6, to program the assignment on the other jack numbers.
8. To return to the initial program mode, press the END button.

Programming Table

See page 7-21.

Night Mode



Description

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

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

There are eight service classes available for each extension.

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

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

	Service Class Selections	
	Allowed	Denied
1.	all calls	
2.	●toll calls ●local calls (charged) ●local calls	●international calls
3.	●selected area codes ●local calls (charged) ●local calls	●international calls ●any calls other than specific area code programmed
4.	●local calls (charged) ●local calls	●international calls ●toll calls
5.	●selected exchange codes (charged) ●local calls	●international calls ●toll calls ●any calls other than specific exchange codes (charged) programmed
6.	●local calls	●international calls ●toll calls ●local calls (charged)
7.	●any calls other than specific exchange codes programmed	●international calls ●toll calls ●local calls (charged) ●selected exchange codes
8.		all calls

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

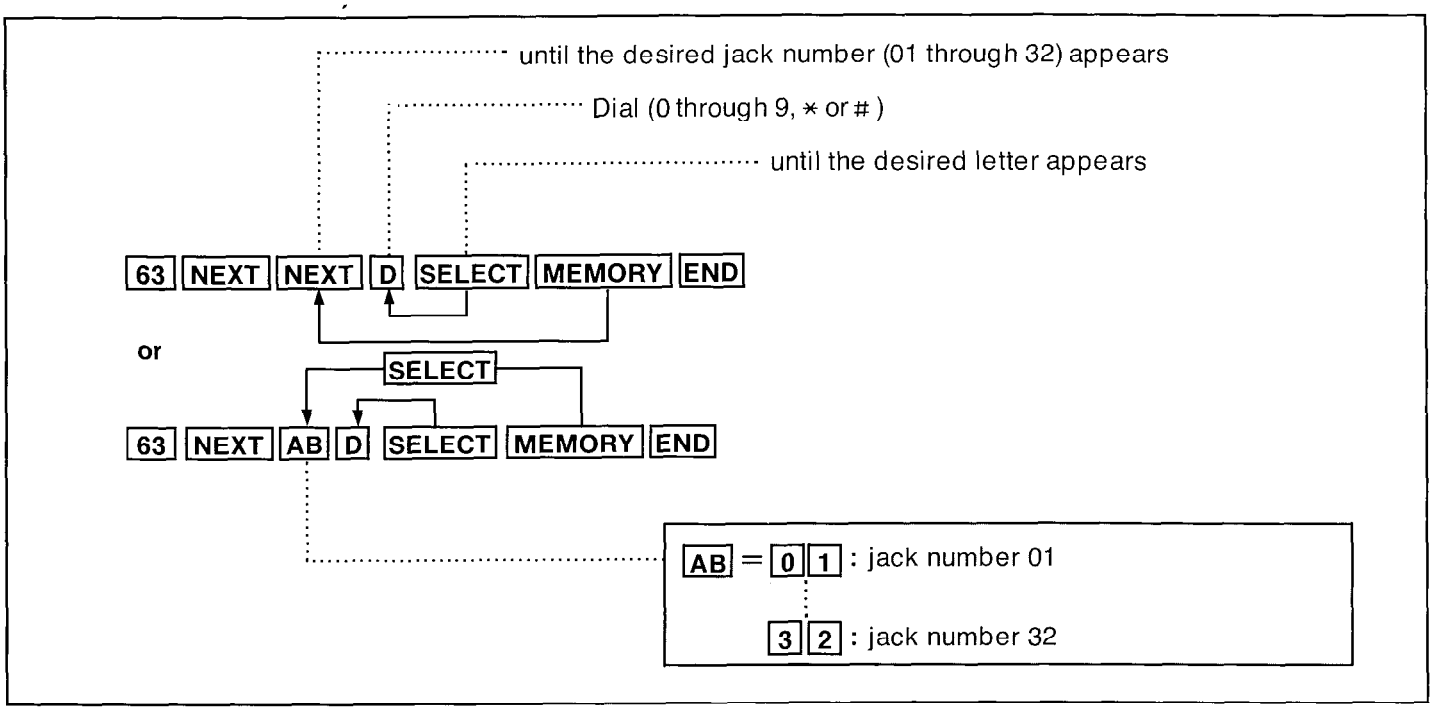
Programming

1. Dial (62).
   "Nig Toll Restrct" will be displayed.
2. Press the NEXT button.
   "Jack NO ?→ " will be displayed.
3. Press the NEXT button or dial the jack number (01 through 32).
   "#01 : Class-1" will be displayed and "1" will blink.
   (#01 ← jack number)
4. Press the service class number (1 through 8).
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next jack number, press the NEXT button.
   ● To return to the previous jack number, press the PREV button.
   ● To go to the desired jack number, press the SELECT button and then dial the jack number.
7. Repeat steps 4 to 6, to program the assignment on the other jack numbers.
8. To return to the initial program mode, press the END button.

Programming Table

See page 7-22.

Extension Name



Description

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

Programming

1. Dial (63).
   "Extension Name" will be displayed.
2. Press the NEXT button.
   "Jack NO ? →" will be displayed.
3. Press the NEXT button or dial jack number (01 through 32).
   "#01 : " will be displayed.
   jack number
4. To program the extension name,
   ① Dial (0 through 9, * or #)
   ② Press the SELECT button until the desired letter appears.
   ③ Repeat steps ① and ②, to program the desired name.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next jack number, press the NEXT button.
   ● To return to the previous jack number, press the PREV button.
   ● To go to the desired jack number, press the SELECT button and then dial the jack number.

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

7. Repeat steps 4 to 6, to program the other extension names of jack numbers.
8. To return to the initial program mode, press the END button.

Conditions

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

Example:

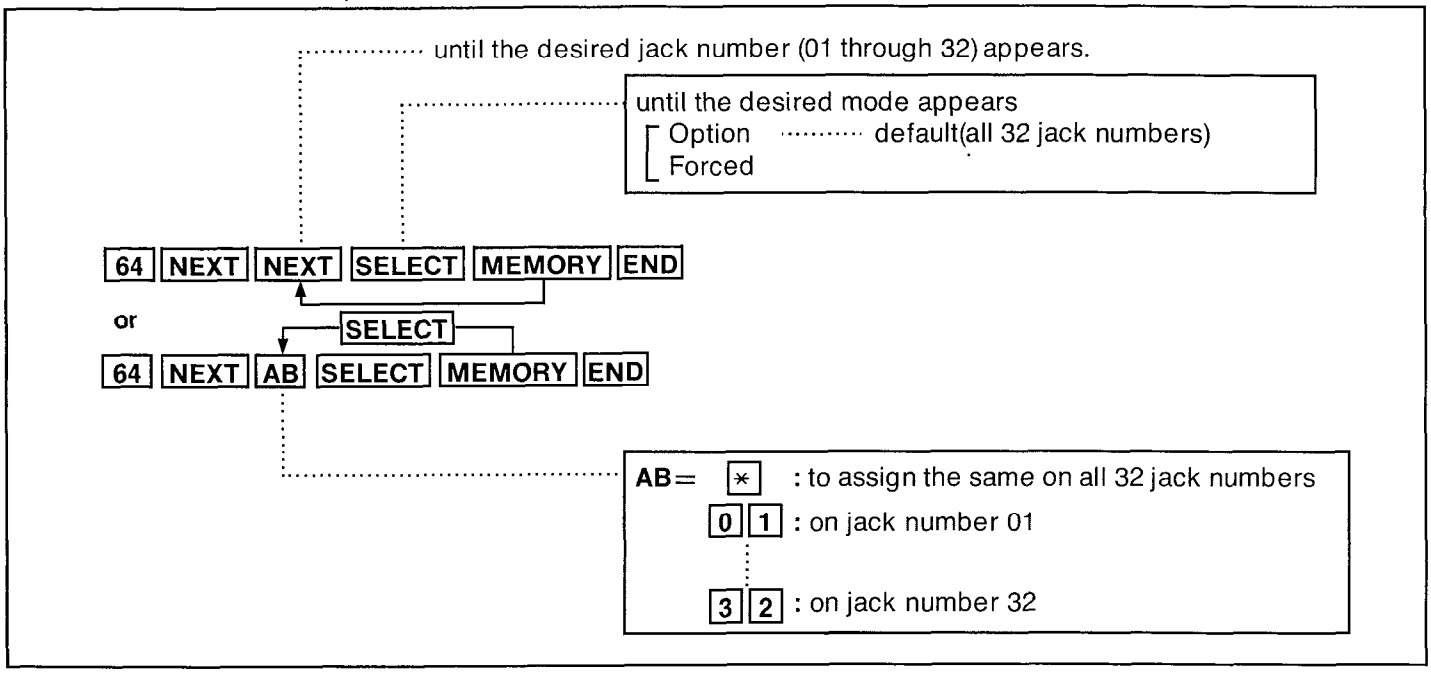
- To program jack number 01 for ····· Mr.Brown

	Display
1. [63] [NEXT] [01]	
2. Dial (2). ·····	#01 : 2
3. Press the SELECT button three times. ·····	#01 : B
4. Dial (7). ·····	#01 : B7
5. Press the SELECT button four times. ·····	#01 : Br
6. Dial (6). ·····	#01 : Br6
7. Press the SELECT button six times. ·····	#01 : Bro
8. Dial (9). ·····	#01 : Bro9
9. Press the SELECT button two times. ·····	#01 : Brow
10. Dial (6). ·····	#01 : Brow6
11. Press the SELECT button four times. ·····	#01 : Brown

12. [MEMORY] [END]

There is a phone number directory on page 7-1

Account Code Input Mode



Description

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

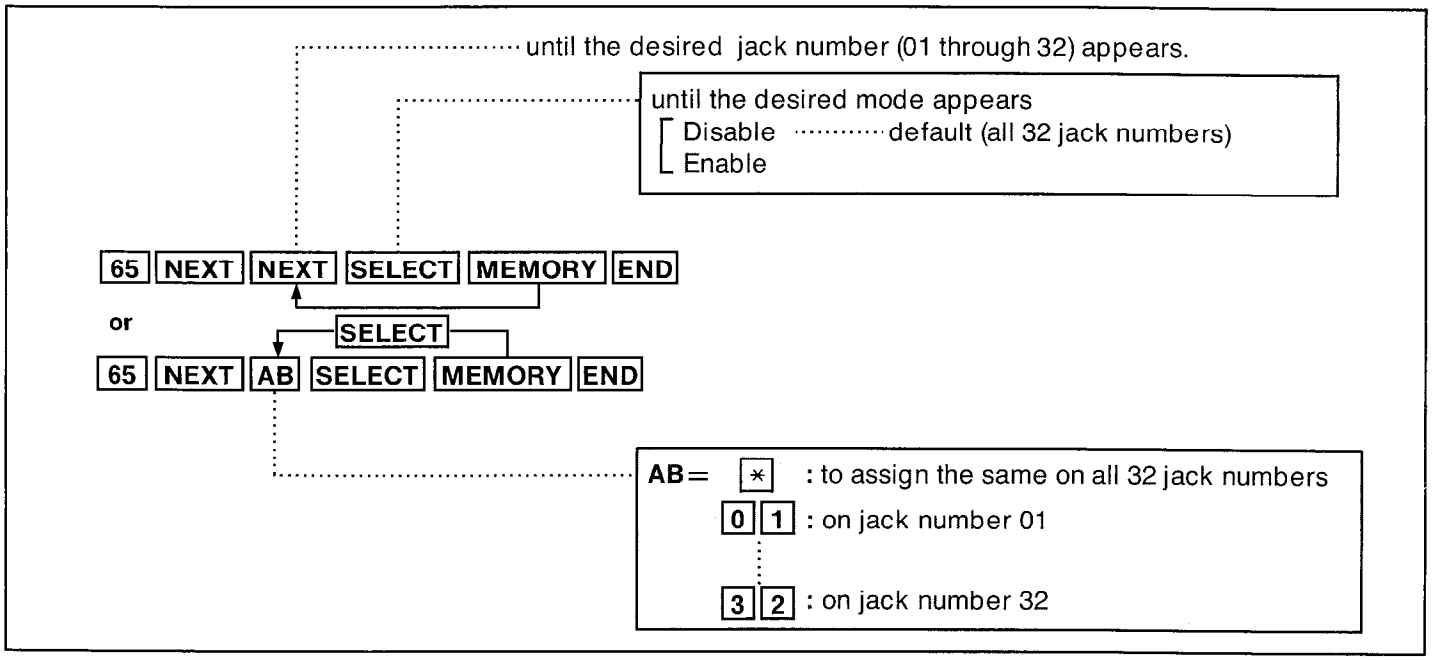
Programming

1. Dial (64).
   "Call Accounting" will be displayed.
2. Press the NEXT button.
   "Jack NO?→" will be displayed.
3. Press the NEXT button or dial the jack number (01 through 32).
   "#01 : Option" will be displayed and the
   ↑ jack number
   "Option" will blink.
4. Press the SELECT button to alternate between "Option" and "Forced" to select the desired mode.
5. Press the MEMORY button.
   The LCD will stop blinking.
6. ● To advance to the next jack number, press the NEXT button.
   ● To return to the previous jack number, press the PREV button.
   ● To go to the desired jack number, press the SELECT button and then dial the jack number.
7. Repeat steps 4 to 6, to program the account code of the other jack numbers.
8. To return to the initial program mode, press the END button.

Programming Table

See page 7-22.

Call Transfer To Outside Line



Description

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

Programming

1. Dial (65).
   "Transfer to CO" will be displayed.

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

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

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

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

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

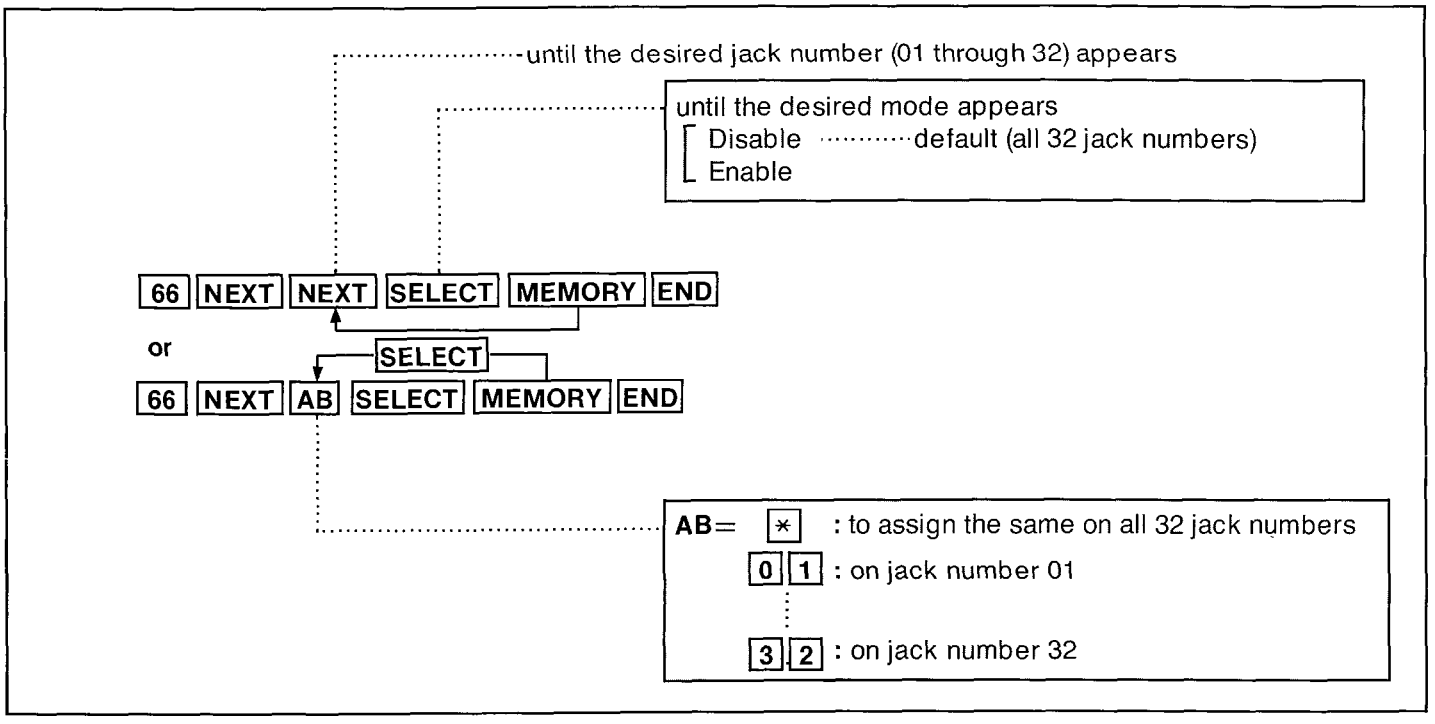
7. Repeat steps 4 to 6, to program the assignment of the other jack numbers.

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

Programming Table

See page 7-23.

Call Forwarding To Outside Line



Description

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

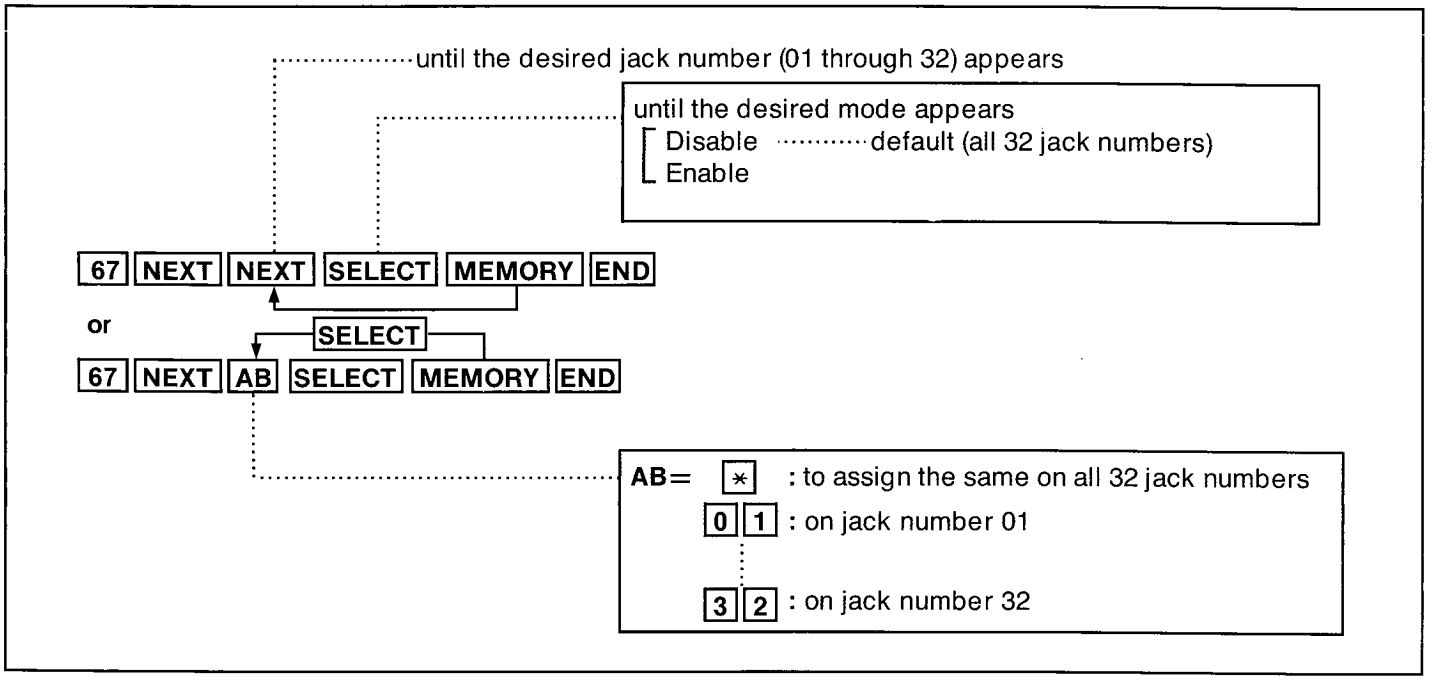
Programming

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

Programming Table

See page 7-23.

Executive Override



Description

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

Programming

1. Dial (67).
   "Busy Override" will be displayed.

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

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

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

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

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

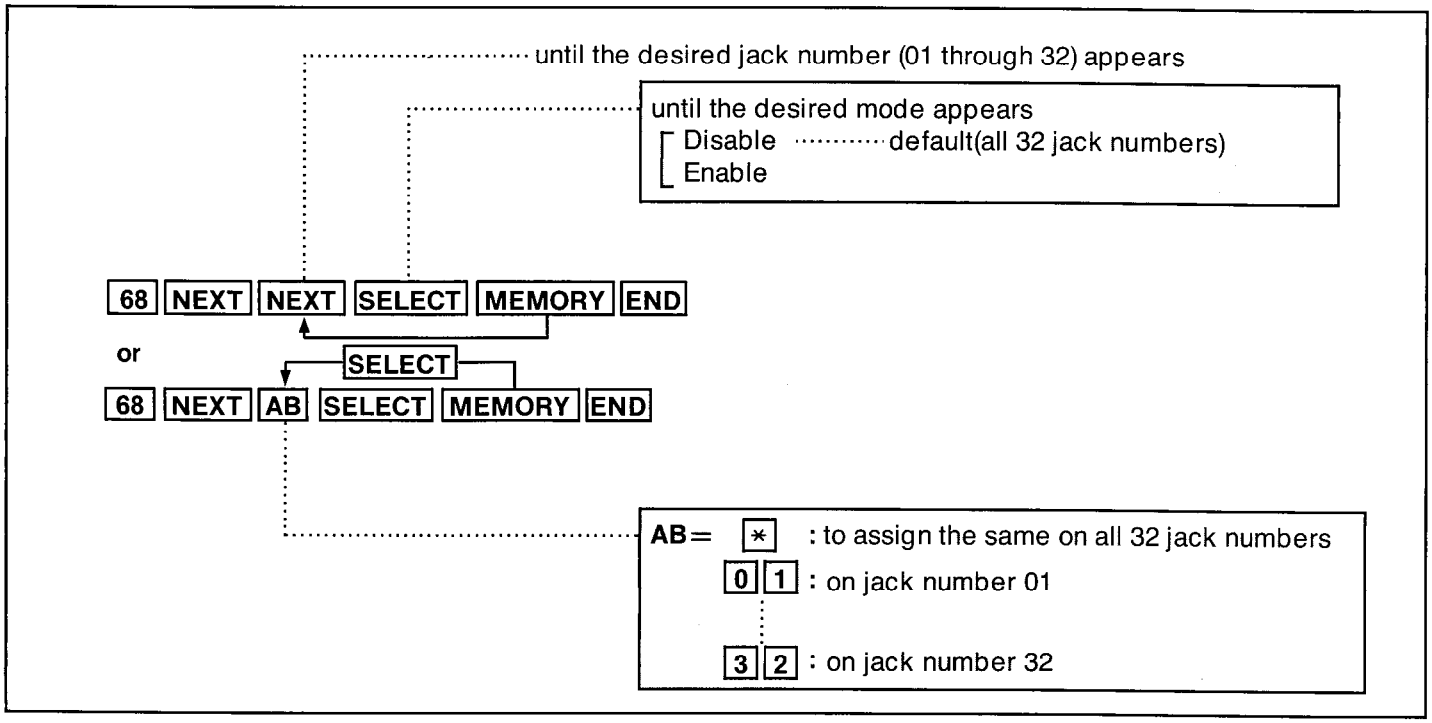
7. Repeat steps 4 to 6, to program the assignment of the other jack numbers.

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

Programming Table

See page 7-23.

Do not Disturb Override



Description

This feature can dial to the extension that is setting the Do Not Disturb by programming.

Refer to "Do Not Disturb Override" on page 4-31.

Programming

1. Dial (68).
   "DND Override" will be displayed.

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

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

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

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

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

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

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

Conditions

This feature allows you to ring an extension that is set for the "Do Not Disturb" mode.

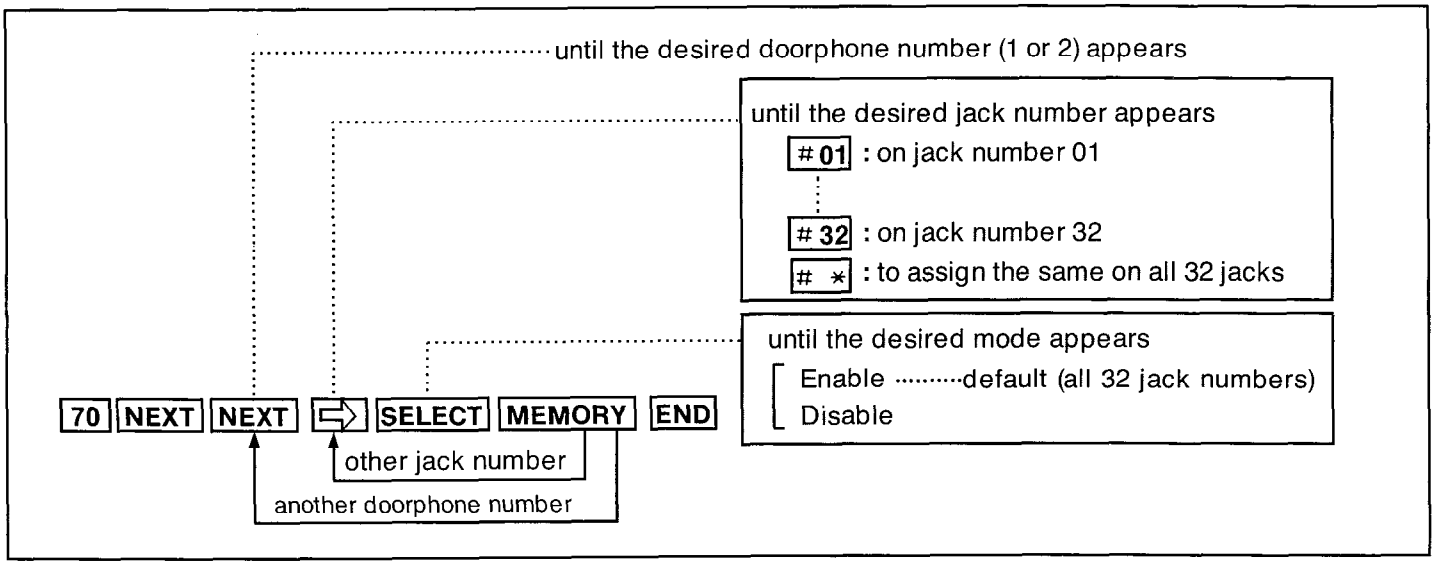
Programming Table

See page 7-24.

Doorphone Feature

Ringing Assignment from Doorphone

Day Mode



Description

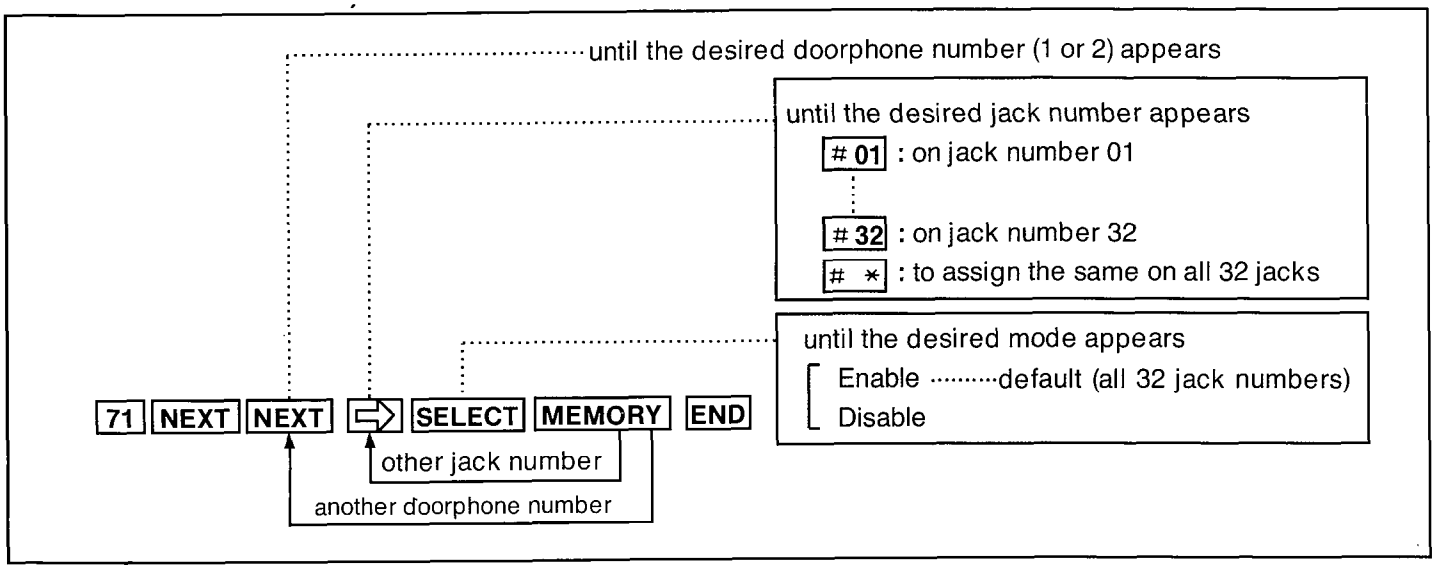
Allows each extension to be programmed for receiving calls from up to 2 doorphones during the day mode.
(Doorphone is an option.)

Programming

1. Dial (70).
   "Day Door Phone" will be displayed.
2. Press the NEXT button.
   "Door NO ? →" will be displayed.
3. Press the NEXT button or dial the doorphone number (1 or 2).
   "DP-1: #01 : Enable" will be displayed.
   (#01: jack number)
4. Repeat pressing the ⇨ button until the desired jack number appears, or press the # button and then dial the jack number.
5. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. ● To advance to the next jack number, press the ⇨ button.
   ● To return to the previous jack number, press the ⇦ button.
   ● To go to the desired jack number, press the # button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. Repeat steps 3 to 8, to program the assignment of the another doorphone.
10. To return to the initial program mode, press the END button.

Programming Table

See page 7-24.



Description

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

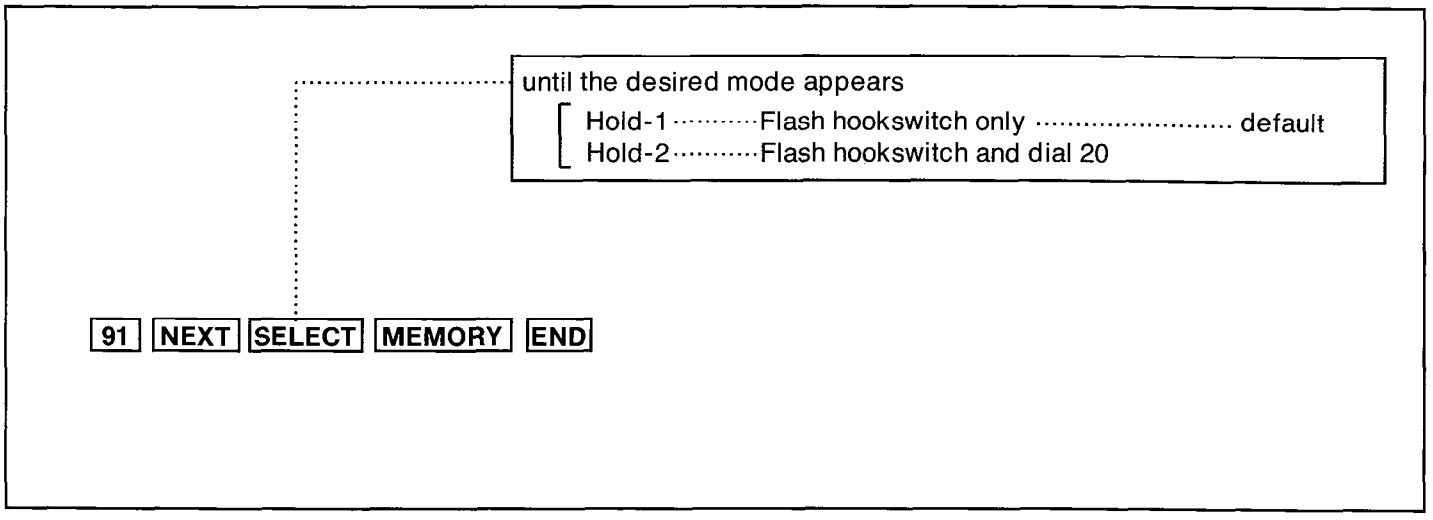
Programming

1. Dial (71).
   "Night Door Phone" will be displayed.
2. Press the NEXT button.
   "Door NO ? →" will be displayed.
3. Press the NEXT button or dial the doorphone number (1 or 2).
   "DP-1 : #01 : Enable" will be displayed.
   (#01 : jack number)
4. Repeat pressing the ⇨ button until the desired jack number appears, or press the # button and then dial the jack number.
5. Press the SELECT button to alternate between "Enable" and "Disable" to select the desired mode.
6. Press the MEMORY button.
   The LCD will stop blinking.
7. ● To advance to the next jack number, press the ⇨ button.
   ● To return to the previous jack number, press the ⇦ button.
   ● To go to the desired jack number, press the # button and then dial the jack number.
8. Repeat steps 5 to 7, to program the assignment of the other jack numbers.
9. Repeat steps 3 to 8, to program the assignment of the another doorphone.
10. To return to the initial program mode, press the END button.

Programming Table

See page 7-25.

Call on Hold for Standard Telephone



Description

If a standard telephone at the extension ring immediately after hanging up or about 30 sec later, this programming step will eliminate the problem by requiring the extension to dial 20 after hook flashing in the Hold-2 mode.

The following operation is changed when "Hold-2" mode is set.

Call Park (on page 5-4)
Call on Hold (on page 5-4)
Conference (on page 5-5)
Call Waiting (on page 5-5)
Call Splitting (on page 5-6)
Call Transfer (on page 5-6)
Paging And Transfer (on page 5-8)
External Feature Access (on page 5-9)
Account Code (on page 5-10)

Programming

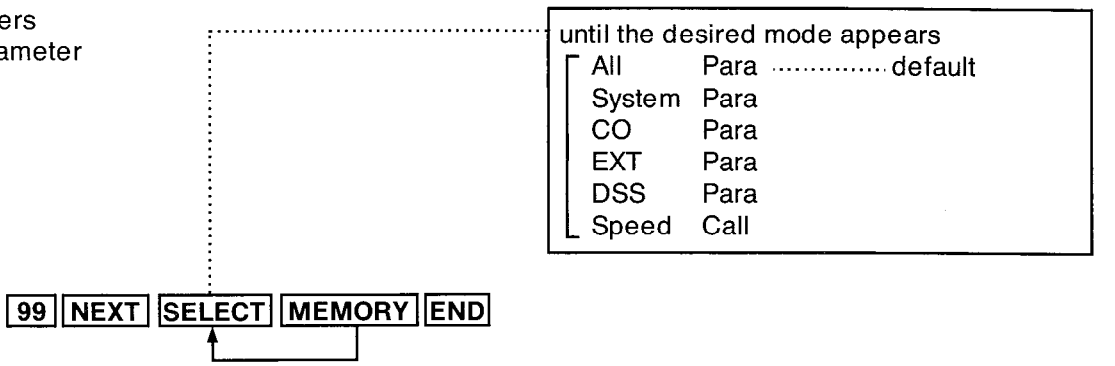
1. Dial (91)
   "Option" will be displayed.
2. Press the NEXT button.
   "Hold-1" will be displayed and blink.
3. Press the SELECT button to alternate between "Hold-1" and "Hold-2" to select the desired mode.
4. Press the MEMORY button.
   The LCD will stop blinking.
5. To return to the initial program mode, press the END button.

Programming Table

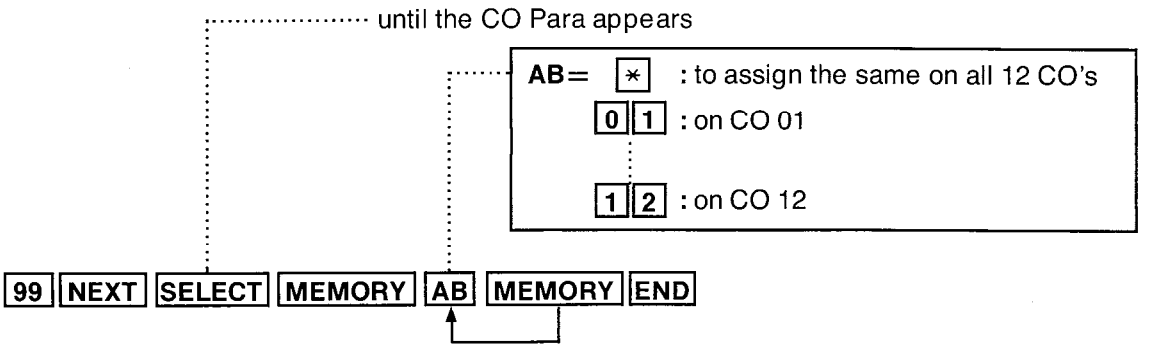
See page 7-25

System Data Clear

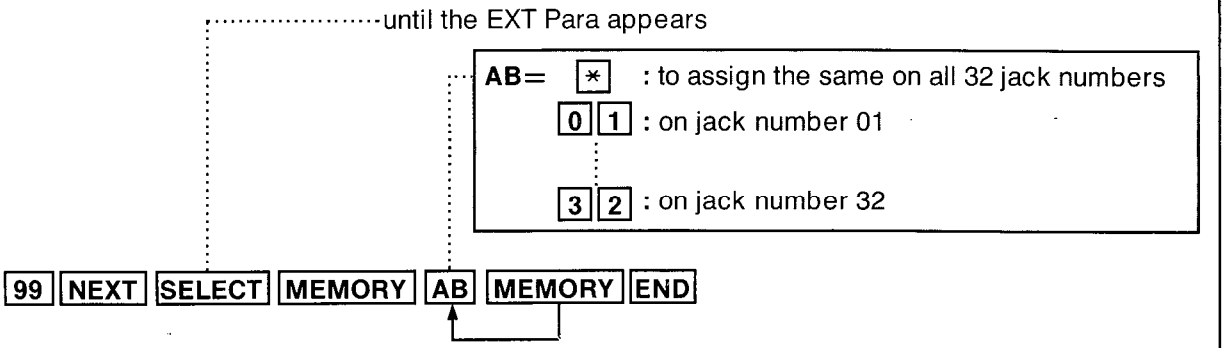
- All Parameters
- System Parameter
- Speed Call



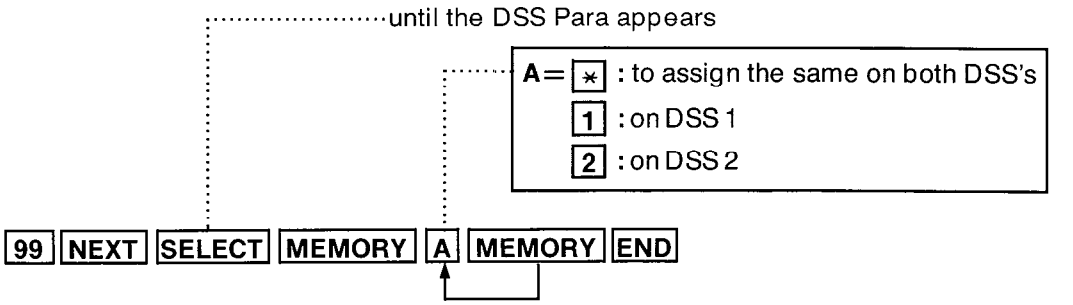
- CO Parameter (Outside)



- Extension Parameter



- DSS Parameter



Description

The system Data features are preset as the default data of the programming.

All parameters

- System parameters
- CO parameters
- Extension parameters
- DSS parameters
- Speed call

System parameters

- Extension Number Assignment
- Operator Assignment
- Paired Telephone Assignment for DSS Console
- Automatic CO Hold Using DSS Button
- Day/Night Service Mode
- Call Hunting
- Toll Restriction
- Hold Time Reminder
- Hold Recall Time Set
- Transfer Recall Time
- Call Forwarding Starting Time
- Pickup Dial Delay Time
- Co-to-Co Duration Time Limit
- Station Message Detail Recording (SMDR)
- Duration Time Count Start Mode
- External Paging Access Tone
- Call on Hold for Standard Telephone
- Ringing Assignment from Doorphone

CO paramenters

- CO Connection Assignment
- Dial Mode (DTMF/Pulse)
- Host PBX Access Codes Assignment
- Trunk Group Assignment
- Flexible Outward Dialing Assignment
- Flexible Ringing Assignment
- Delayed Ringing Assignment
- CO Direct In Line Assignment
- Pause Time Assignment
- Hookswitch Flash Timing
- Calling Party Control (CPC) Signal
- Disconnect Time

Extension paramenters

- Extension Group Assignment
- Service Class Assignment of Toll Restriction
- Extension Name
- Account Code Input Mode
- Call Transfer to Outside Line
- Call Forwarding to Outside Line
- Executive Override
- Do not Disturb Override

- One Touch Access for System Features
- CO Line Ringing Selection
- Auto CO Hunting
- Automatic Answering Selection
- Flexible CO Button
- Intercom Voice Alerting Mode
- Background Music
- Station Number Check
- F3 -One Touch Button Mode Selection
- Call waiting Tone Selection

- Call Forwarding
- Do Not Disturb
- Dial Call Pickup Deny
- Data Line Security
- Pickup Dial
- Absent Message Capability
- Call Waiting Tone Deny
- Flexible Night Service
- Executive Override Deny

DSS paramenters

- DSS button of the DSS Console
- Feature button of the DSS Console

Speed call

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

Programming

To set System Parameters, Speed Call or All Parameters to the default data ;

1. Dial (99).
   "System Clear" will be displayed.

2. Press the NEXT button.
   "Menu : All Para" will be displayed and "All Para" will blink.

3. Repeat pressing the SELECT button until the desired data mode is displayed.

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

5. Repeat steps 3 to 4, to clear the other system data.

To set CO Parameter to the default data ;

1. Dial (99).

2. Press the NEXT button.

3. Repeat pressing the SELECT button until the "CO Para" is displayed.

4. Press the MEMORY button.
   "CO NO ?→ " is displayed.

5. Dial the CO number (01 through 12).
   When dialing (01),
   "CO NO ? → 01" will be displayed.

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

7. Repeat steps 5 to 6, to clear the other CO parameter.

To set Extension Parameter to the default data ;

1. Dial (99).

2. Press the NEXT button.

3. Repeat pressing the SELECT button until the "EXT Para" is displayed.

4. Press the MEMORY button.
   "Jack NO ? →" is displayed.

5. Dial the jack number. (01 through 32)
   When dialing (01),
   "Jack NO ? → 01" will be displayed.

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

7. Repeat steps 5 to 6, to clear the other extension parameter.

To set DSS Parameter to the default data ;

1. Dial (99).

2. Press the NEXT button.

3. Repeat pressing the SELECT button until the "DSS Para" is displayed.

4. Press the MEMORY button.
   "DSS NO ? →" is displayed.

5. Dial the DSS number (1 or 2).
   When dialing (1),
   "DSS NO ? → 1" will be displayed.

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

7. Repeat steps 5 to 6, to clear the another DSS parameter.

After completing clearing, and to return to the initial mode ;

1. Press the END button.

Example of Flexible CO Button
(KX-T61631,KX-T61630,KX-T61620,KX-T61650,KX-T30830,KX-T30820,KX-T30850)

When you connect EMSS PROPRIETARY TELEPHONE (KX-T61631, KX-T61630, KX-T61620, KX-T61650, KX-T30830, KX-T30820 or KX-T30850) to the KX-T123210 system, change the programming of CO button or DSS button to have them operate properly.

The default of CO button or DSS button is assigned as following.

- In case of KX-T61631, KX-T61630, KX-T61620 and KX-T61650,

  CO button on which "CO1" is printed ——— CO1 Line
  CO button on which "CO2" is printed ——— CO2 Line
  CO button on which "CO3" is printed ——— CO3 Line
  CO button on which "CO4" is printed ——— CO4 Line
  CO button on which "CO5" is printed ——— CO5 Line
  CO button on which "CO6" is printed ——— CO6 Line

- In case of KX-T30830, KX-T30820 and KX-T30850,

  CO button on which "CO1" is printed ——— CO1 Line
  CO button on which "CO2" is printed ——— CO2 Line
  CO button on which "CO3" is printed ——— CO3 Line

- In case of KX-T30830 only,

  DSS button on which "DSS11" is printed ———Extension no. of Jack no. 01
  DSS button on which "DSS12" is printed ———Extension no. of Jack no. 02
  DSS button on which "DSS13" is printed ———Extension no. of Jack no. 03
  DSS button on which "DSS14" is printed ———Extension no. of Jack no. 04
  DSS button on which "DSS15" is printed ———Extension no. of Jack no. 05
  DSS button on which "DSS16" is printed ———Extension no. of Jack no. 06
  DSS button on which "DSS17" is printed ———Extension no. of Jack no. 07
  DSS button on which "DSS18" is printed ———Extension no. of Jack no. 08

Change the default of CO button or DSS button by the programming of "Flexible CO Button" or "Flexible DSS Button".

Flexible CO Button

"To change into other CO number" on page 4-53
"To assign into trunk group access number" on page 4-53
"To change into DSS button" on page 4-54
"To change into one touch dialing button" on page 4-54
"To change into message waiting button" on page 4-55
"To change into other all CO numbers" on page 4-55

Flexible DSS Button (KX-T30830 only).

"To change into other DSS number" on page 4-57
"To change into one touch dialing button" on page 4-57
"To change into message waiting button" on page 4-58

Examples

The outside lines of KX-T123210 is connected 8 CO's from Central Office (CO).
Extension No 105 (Jack No. 05) is set up beforehand by System Programming as followings.

System Programming

- Flexible Outward Dialing Assignment (Both Day and Night Mode) ——— CO1 through CO7 are "Enable" CO8 is "Disable".
- Flexible Ringing Assignment (Both Day and Night Mode) ——— CO1 through CO7 are "Enable" CO8 is "Disable".
- Trunk Group Assignment ——— Trunk Group 1 : CO1, CO2, CO3 / Trunk Group 2 : CO4, CO5, CO6 / Trunk Group 3 : CO7, CO8

Case 1

If you connect KX-T30820 at Extension 105 (Jack No. 05) and set the CO button of KX-T30820 as shown in Fig.1, Outgoing calls and Incoming calls in Extension 105 (Jack No. 05) are operated as followings.

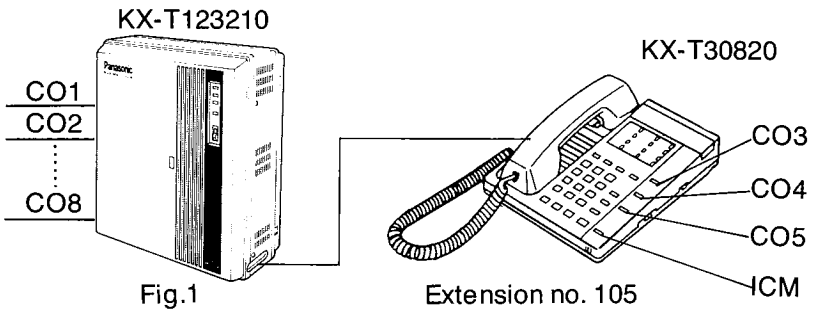


Fig.1 Extension no. 105

CO Button on which "CO1" is printed —Change→ CO3 Button.
CO Button on which "CO2" is printed ——→ CO4 Button.
CO Button on which "CO3" is printed ——→ CO5 Button.

- To change into other CO Button, see page "To change into other CO number" on page 4-53.

Outgoing calls:

- Pressing CO3 Button ——→ Access CO3 Line
- Pressing CO4 Button ——→ Access CO4 Line
- Pressing CO5 Button ——→ Access CO5 Line
- Dialing [8] [1] (Trunk group 1) ——→ Access only CO3 Line
- Dialing [8] [2] (Trunk group 2) ——→ Access only CO4 and CO5 Lines
- Dialing [8] [3] (Trunk group 3) ——→ No access CO Line
- You cannot dial through CO1 Line, CO2 Line and CO6 Line through CO8 Line

Incoming calls:

- The calls which reaches through the CO3 Line through CO5 Line can be received.
- The calls which reaches through the CO1 Line, CO2 Line, CO6 Line through CO8 Line can not be received.

The CO Line which is not assigned to the CO Button cannot be dialed or received.

Case 2

If you connect KX-T30820 at Extension 105 (Jack No. 05) and set the CO button of KX-T30820 as shown in Fig. 2, Outgoing calls and Incoming calls in Extension 105 (Jack No. 05) are operated as followings.

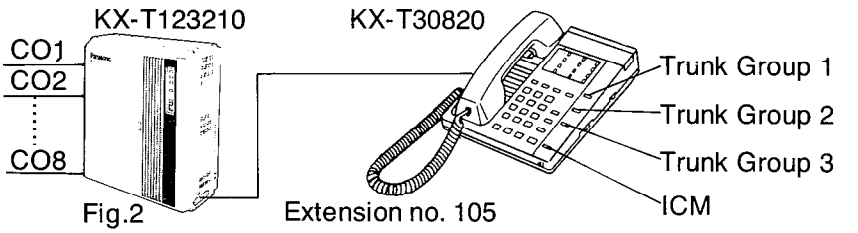


Fig.2

CO Button on which "CO1" is printed —Change→ CO Button which can access to Trunk group 1
CO Button on which "CO2" is printed → CO Button which can access to Trunk group 2
CO Button on which "CO3" is printed → CO Button which can access to Trunk group 3

● See page "To assign into trunk group access number" on page 4-53.

Outgoing calls:

- Pressing CO Button which can access to Trunk group 1 → Access CO1 Line through CO3 Line
- Pressing CO Button which can access to Trunk group 2 → Access CO4 Line through CO6 Line
- Pressing CO Button which can access to Trunk group 3 → Access only CO7 Line
- Dialing [8] [1] (Trunk Group 1) → Access CO1 Line through CO3 Line
- Dialing [8] [2] (Trunk Group 2) → Access CO4 Line through CO6 Line
- Dialing [8] [3] (Trunk Group 3) → Access only CO7 Line
- You cannot dial through CO8 Line

Incoming calls:

- The calls which reaches through the CO1 Line through CO7 Line can be received.
- The calls which reaches the CO8 Line can not be received.

Case 3

If you connect KX-T30820 at Extension 105 (Jack No. 05) and set the CO Button of KX-T30820 as shown in Fig. 3, Outgoing calls and Incoming calls in Extension 105 (Jack No. 05) are operated as followings.

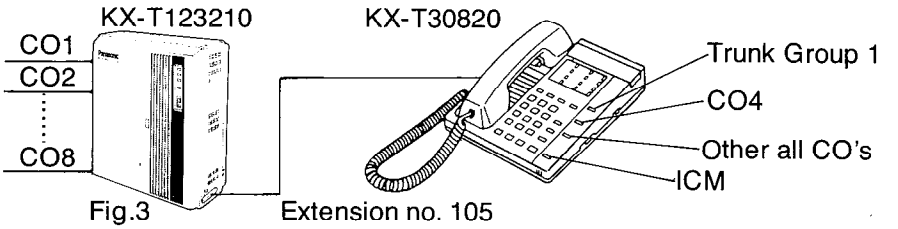


Fig.3

CO Button on which "CO1" is printed —Change→ CO Button which can access to Trunk group 1
CO Button on which "CO2" is printed → CO4 Button
CO Button on which "CO3" is printed → CO Button which can access to other all CO Line (which are not assigned to CO button)

● See page "To change into other all CO numbers" on page 4-55.

Outgoing calls

- Pressing CO Button which can access to Trunk group 1 → Access CO1 Line through CO3 Line
- Pressing CO4 Button → Access CO4 Line
- Pressing CO Button which can access to other all CO Line → Access CO5 Line through CO7 Line
- Dialing [8] [1] (Trunk Group 1) → Access CO1 Line through CO3 Line
- Dialing [8] [2] (Trunk Group 2) → Access CO4 Line through CO6 Line
- Dialing [8] [3] (Trunk Group 3) → Access only CO7 Line
- You cannot dial through CO8 Line

Incoming calls:

- The calls which reaches through the CO1 Line through CO7 Line can be received.
- The calls which reaches the CO8 Line can not be received.

OPERATION FOR EMSS PROPRIETARY TELEPHONE

(KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630, KX-T61620, KX-T61650, KX-T30830, KX-T30820, KX-T30850)

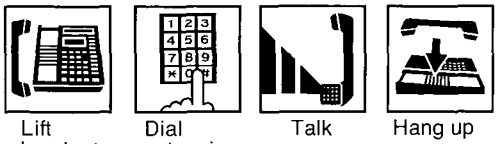
To operate this system, after making program changes, set the System Program Switch located on the KX-T123210 (Electronic Modular Switching System) to the SET position.

Making Calls

When the unit is unused, Liquid Crystal Display will show the month, day and the present time.

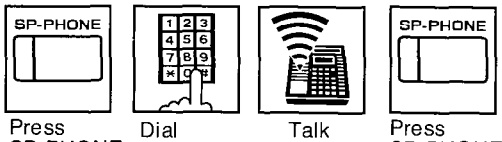
Inter Office Calling (Intercom)

Using the Handset



Lift handset | Dial extension number (100 through 199) | Talk | Hang up

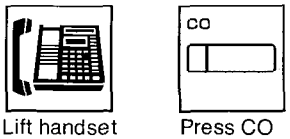
Hands-free



Press SP-PHONE | Dial extension number (100 through 199) | Talk | Press SP-PHONE

- You may press the ICM (Intercom) button instead of the first SP-PHONE button.

When changing CO button into DSS (Direct Station Selection) button ;



Lift handset or press SP-PHONE | Press CO which has been changed into DSS

- For changing, see "Flexible CO Button" on page 4-54.

Description

Station to station dialing within the KX-T123210 system.

Operation

Using the handset

1. Lift the handset.
2. Dial the extension number (100 through 199).
3. Start talking
4. Hang up upon completion of the conversation.

Hands-free

1. Press the SP-PHONE or ICM button.
2. Dial the extension number (100 through 199).
3. Start talking
4. Press the SP-PHONE button again after completion of the conversation.

When changing CO button into DSS (Direct Station Selection) button ;

1. Lift the handset or press the SP-PHONE button.
2. Press the CO button which has be changed into DSS.

Conditions

- The extension number is set below. Through programming, you may change the extension number to other number.See the page 3-8.

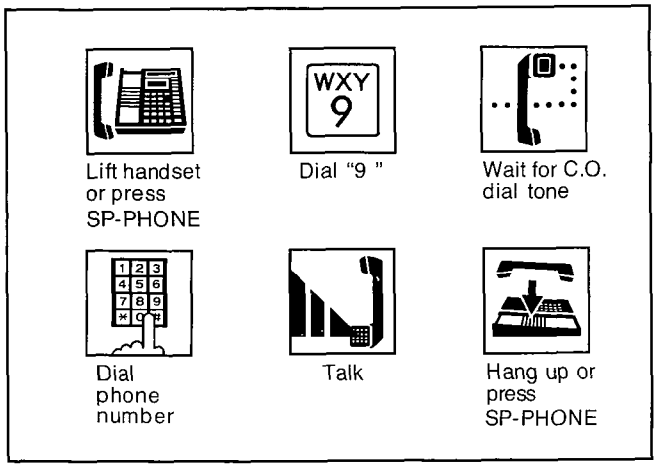
Default;

101 : is assigned to extension of jack number 01
⋮
132 : is assigned to extension of jack number 32

- When a called party has the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830 equipped with an LCD, the extension number of the calling party will be displayed on the LCD of the called party.
- The extension number of the calling party will be displayed on the LCD of the KX-T123230 / KX-T61630 / KX-T30830 / KX-T61631.
- The ICM indicator will be lit green while using the unit.
- The KX-T123250, KX-T61650 or KX-T30850 will not function for hands-free mode but can hear the other party's voice in the on-hook mode.

Outward Dialing

■ Automatic Line Access



Description

Each extension can automatically select an idle CO (Central Office) line within the KX-T123210.

Operation

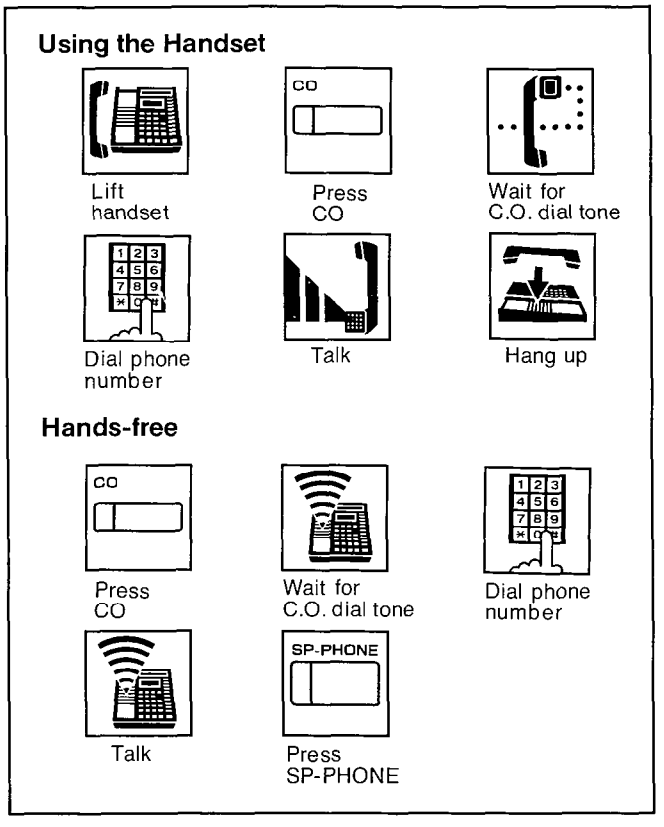
1. Lift the handset or press the SP-PHONE button.
2. Dial (9).
   Dial tone from CO (Central Office) will be heard.
   - The CO indicator will be lit green at your extension and lit red at other extensions.
3. Dial the phone number.
4. Start talking.
5. Hang up or press the SP-PHONE button upon completion of the conversation.

Conditions

■ The 9 dialed, will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830 and you will hear following.

- Dial tone from the CO : indicates that the CO line is captured.
- Busy tone : indicates that the all CO lines are busy.
- Reorder tone : indicates that the extension is denied access to an outside line.

■ Individual Line Access



Description

Any of the 12 CO's may be directly selected.

Operation

Using the handset

1. Lift the handset.
2. Press the CO button.
   Dial tone from CO will be heard.
3. Dial the phone number.
4. Start talking.
5. Hang up.

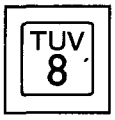
Hands-free

1. Press the CO button.
   Dial tone from CO will be heard.
2. Dial the phone number.
3. Start talking.
4. Press the SP-PHONE button.
   - The phone number dialed will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830.
   - You can not use the CO button whose indicator is lit (red) as this CO line is use.
   - The KX-T123250, KX-T61650 or KX-T30850 will not function for hands-free mode but can hear the other party's voice in the on-hook mode.

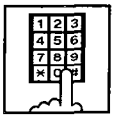
Outward Dialing (cont.)

■ Individual Trunk Group Access

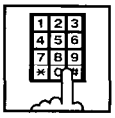
Lift handset or press SP-PHONE



Dial "8 "


Dial trunk group number (1 through 8)

Wait for C.O. dial tone


Dial phone number

Talk

Hang up handset or press SP-PHONE

●You may press the CO button instead of dialing 8 and trunk group number (1 through 8). In this case, you must assign the trunk group access number to the CO button.
To assign, see "Flexible CO button" on page 4-53.

Description

Each extension can automatically select an idle CO line within the same trunk group. Through programming, 12 CO lines can be divided up to 8 groups. See the page 3-46.

Operation

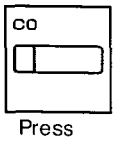
1. Lift the handset or press the SP-PHONE button.
2. Dial (8) and the trunk group number (1 through 8) or press the CO button which is changed into trunk group access number.
   Dial tone from the CO (Central Office) will be heard.
3. Dial the phone number.
4. Start talking.
5. Hang up or press the SP-PHONE button.

Conditions

- The CO line which is not assigned to the CO Button cannot be dialed.
- The CO lines that is assigned to the trunk group are set below.
  Default;
  CO 1 is assigned to Trunk group 1.
  CO 2 is assigned to Trunk group 2.
  CO 3 is assigned to Trunk group 3.
  CO 4 is assigned to Trunk group 4.
  CO 5 is assigned to Trunk group 5.
  CO 6 is assigned to Trunk group 6.
  CO 7 is assigned to Trunk group 7.
  CO 8 through CO 12 is assigned to Trunk group 8.

■ Each extension can access a new CO line without hanging up.

While having a conversation,

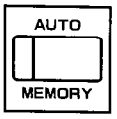


Press another CO

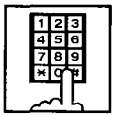
- The original conversation will be terminated and a new CO line will be accessed.

Speed Dialing

Lift handset or press SP-PHONE



Press AUTO


Dial speed access code (00 through 99)

Description

There are 100 memory locations of system speed dialing available. A maximun of each memory location is 32 digits.
For programming, refer to "System Speed Dialing Entry" on page 3-5.

Operation

1. Lift the handset or press the SP-PHONE button.
2. Press the AUTO button.
3. Dial the speed access code (00 through 99).
   - You may press the CO button to select the CO line directly after lifting the handset or press the SP-PHONE button.

Conditions

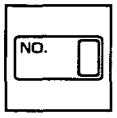
- The dialed number will be displayed on the LCD of the KX-T123230 / KX-T61631 / KX-T61630 / KX-T30830.
- Continuous use of speed dialing is possible.
  ex. [AUTO] [0] [0] [AUTO] [0] [1]
  Chaining together two or more memory locations.
- Combinations of speed dialing, one touch dialing and manual dialing is possible.

One Touch Dialing

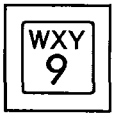
Programming

- Be sure the handset is in the cradle and the SP-PHONE or MONITOR button is OFF.
- Set the MEMORY switch of the Proprietary telephone to "PROGRAM".

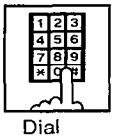
■ Storage



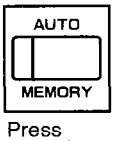
Press PROGRAMMABLE FEATURE



Dial "9"



Dial phone number



Press MEMORY

- You may dial 81 through 88 instead of 9 .
  9 - - - Each extension can automatically select an idle CO line.
  81 through 88 - - - Each extension can select a trunk group designated.

9 or 81 through 88 must be dialed for storage.

■ To Correct an Error while Programming

Press CLEAR (TRANSFER) instead of MEMORY

- After pressing the CLEAR button, reprogram the correct number.
- The TRANSFER button is used as the CLEAR button.

■ To Change a Stored Number

Repeat "Storage" above.

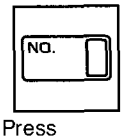
■ To Confirm a Stored Number

Repeat programming the same number into the same station.

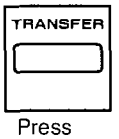
When the MEMORY button is pressed, a beep will be heard.

- two beeps ····· The entry is the same as what was previously stored.
- one beep ····· The entry is different from the one that was previously stored. Repeat the procedure of programming.

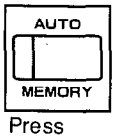
■ To Erase after Programming



Press PROGRAMMABLE FEATURE



Press CLEAR (TRANSFER)



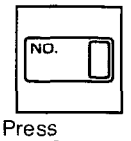
Press MEMORY

- The TRANSFER button is used as the CLEAR button.

After programming all the numbers, return the MEMORY switch to the "SET" position.

Dialing

Lift handset or press SP-PHONE



Press PROGRAMMABLE FEATURE

■ You may press the CO button to select the CO line directly after lifting the handset or pressing the SP-PHONE button.

Description

There are 12 memory locations for automatic dialing available.(KX-T123230, KX-T123220, KX-T61631, KX-T61630, KX-T61620, KX-T30830, KX-T30820)
There are 3 memory locations for automatic dialing available. (KX-T123250,KX-T61650, KX-T30850)
Up to 16 digits can be stored into each of the 12 or 3 memory locations. Pushing the "*", "#", "−", "FLASH", "PAUSE" or "ICM (Secret)" button counts as 1 digit.

- For your convenience, program private phone numbers into the KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630,KX-T61620, KX-T61650, KX-T30830, KX-T30820 or KX-T30850.

Programming

Be sure the handset is in the cradle and the SP-PHONE or MONITOR button is OFF.

1. Set the MEMORY switch to "PROGRAM".
   "PITS-PGM NO ? →" will be displayed.
2. Press a programmable feature button.
   The LCD will show "M01/P : Not Stored" when nothing is stored in the programmable feature button "1".

   When automatic line access number 9 and the phone number 123-456-7890 has been stored, "M01/P : 9-123-456-" will be displayed.
3. Enter the line access number.
   9 : automatic line access number
   81: access number of trunk group 1
   82: access number of trunk group 2
   83: access number of trunk group 3
   84: access number of trunk group 4
   85: access number of trunk group 5
   86: access number of trunk group 6
   87: access number of trunk group 7
   88: access number of trunk group 8
4. Enter the phone number.
   - You may enter punctuations during a phone number.
     The SAVE button is used as the "-" button.
   - To erase a wrong entry, press the CLEAR button.
     The TRANSFER button is used as the CLEAR button.
   - When you don't want to display the dialed phone number on the LCD in OneTouch Dialing, press the ICM button before and after dialing the phone number that you want to keep secret. Do not press the ICM button before line access number (9 or 81 through 88).

   Example:

   9-123 [ICM] 456 [ICM]
   press the ICM button

   The display shows the following when programming.

   M01/P : 9-123[456]

   The display shows the following when dialing.

   -123 ···
5. Press the MEMORY button.
   The MEMORY indicator will be lit.
6. Repeat steps 2 to 5, to program on other programmable feature button.
7. After programming all the numbers, return the MEMORY switch to the "SET" position.
   The MEMORY indicator will go out.

Dialing

1. Lift the handset or press the SP-PHONE button.
2. Press a programmable feature button.
   - You may press the CO button to select the CO line directly after lifting the handset or press the SP-PHONE button.

Conditions

- Use the "→(FWD/DND)", or "←(CONF)" button for scrolling the display from side to side.
- The dialed phone number will be displayed on the LCD of the KX-T123230 / KX-T61631 KX-T61630 / KX-T30830. The dialed phone number can be kept secret by not being displayed also.
- The combinations of speed dialing, one-touch dialing and manual dialing is possible.
- The line access number (9) or trunk group access number (81 through 88) should be stored.
- Continuous use of one touch dialing is possible.

  Example :
  [PROGRAMMABLE FEATURE 1]
  [PROGRAMMABLE FEATURE 2]
  In this case, programmable feature button "2" should not include the line access number or trunk group access number.
- When dialing, the pause is automatically entered after line access number (9) or trunk group access number (81 through 88) should be stored.
- Features that can be accessed by using the dialing button also can be programmed into memory.
  Refer to "One Touch Access for System Features" page 4-48.

Examples:

Automatic line access number 9 and phone number 123-4567 into the programmable feature button "1".

Programming:

Set the MEMORY switch to "PROGRAM" position.
Press [PROGRAMMABLE FEATURE 1]
Dial [9] [123-4567]
Press [MEMORY]
Return the MEMORY switch to "SET" position.

Dialing

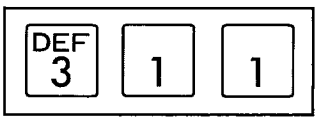
Lift the handset.
Press [PROGRAMMABLE FEATURE 1]

- You may press the CO button to select the CO line directly after lifting the handset.

Calling Doorphone

Calling doorphone 1

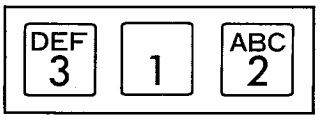
Lift handset or press SP-PHONE



Dial "311"

Calling doorphone 2

Lift handset or press SP-PHONE



Dial "312"

Description

Up to two doorphones (KX-T30865) can be connected to the KX-T123210.

Operation

Dialing to the doorphones

1. Lift the handset or press the SP-PHONE button.
2. Dial (311) for calling doorphone 1.
   Dial (312) for calling doorphone 2.
   "Door Phone-1" or "Door Phone-2" will be displayed.
3. Wait for the confirmation tone and then start talking.
4. Hang up or press the SP-PHONE button upon completion of the conversation.

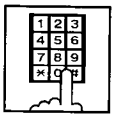
Conditions

- The features, for instance, hold, transfer and so on, can not be activated by the doorphone.

Operator Call

Lift handset or press SP-PHONE

Dial "0"



Dial "0" or "1"
["0": for Operator 1
"1": for Operator 2]

Description

You can call the operator within the KX-T123210 system.
This feature is required to be set beforehand in the KX-T123210.
For programming, see page 3-9.

Operation

1. Lift the handset or press the SP-PHONE button.
2. Dial (0).
3. Dial (0) for calling the operator 1.
   Dial (1) for calling the operator 2.

- In case one operator is programmed, you have only to dial 0.

Distinctive Dial Tone

Description

A distinctive dial tone will be heard form the handset if the extension user has previously activated a special feature.

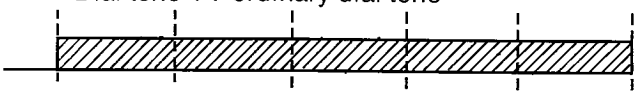
Operation

None

Conditions

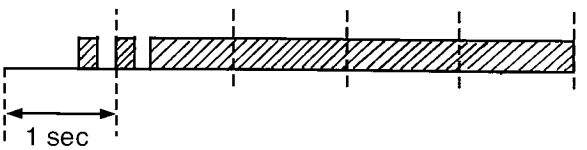
There are two types of dial tones.

Dial tone 1 : ordinary dial tone



Dial tone 2 : when any of the following features are activated:

Pickup Dial
(only a standard telephone)
Data Line Security
Absent Message Capability
Do not Disturb.
Dial Call Pickup Deny
Call Forwarding.

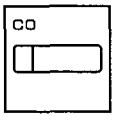


When a Line is Busy

Automatic Call Back Busy (Camp-on)

Setting

For outside (trunk) calls

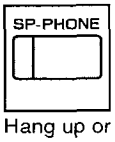


Press CO

If you will hear a busy tone

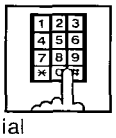
Dial "6"

Confirmation tone of 2 beeps will be heard



Hang up or press SP-PHONE

For intercom calls



Dial extension number (100 through 199)

If you will hear a busy tone

Dial "6"

Confirmation tone of 2 beeps will be heard

Hang up or press SP-PHONE

When hearing a recall for camp-on

When outside calls

Lift handset or press SP-PHONE

You will hear CO dial tone

When intercom calls

Lift handset or press SP-PHONE

You will hear ring back tone

Description

If the intercom extension or the outside line (CO line) you have dialed is busy, you will be automatically called back when the extension or the outside line (CO line) becomes free using this function.

This feature is also known as camp-on.

Operation

Setting

1. Lift the handset or press the SP-PHONE button.
2. For intercom calls, dial the extension number. For outside calls, press the CO button or dial (9 or 81 through 88).
3. Dial (6) after a busy tone is heard.
4. Wait for the confirmation tone. "Call back CO 01" or "Call back Ext 105" will be displayed.
5. Hang up or press the SP-PHONE button.

When hearing a recall for camp-on ;

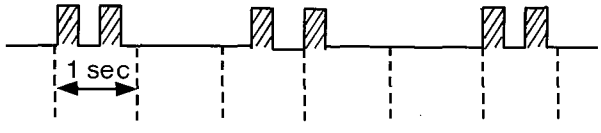
Lift the handset or press the SP-PHONE button.

- When using an intercom call, you will hear the ring back tone.
- When using an outside call, you will hear the CO dial tone.

Conditions

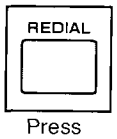
- Lifting the handset (or pressing the SP-PHONE button) during the camp-on mode will cause the camp-on feature to be cancelled.
- An extension may be the recipient of more than one call back busy, the call backs will be executed in the order of their arrival.
- If a call back is not answered at the originating extension within 10 seconds, the call back will be cancelled.

Recall for camp - on



Last Number Redial

Lift handset or press SP-PHONE



Press REDIAL

Description

The last phone number dialed on an outgoing call (CO line) can be redialed.

Operation

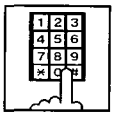
1. Lift the handset or press the SP-PHONE button.
2. Press the REDIAL button.

- You may press the CO button to select the CO line directly after lifting the handset or pressing the SP-PHONE button.
- You may dial 8 and the trunk group number (1 through 8) to select the trunk group directly after lifting the handset or pressing the SP-PHONE button.

Conditions

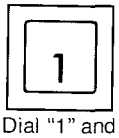
- Up to 32 digits can be stored and redialed. Pushing the "*" "#" or "PAUSE" button counts as 1 digit.
- When calling or while in the conversation mode, pressing the REDIAL button will cause the redial to operate after about 3 seconds.

Busy Station Signaling



Dial extension number (100 through 199)

You will hear a busy tone



Dial "1" and wait for an answer

Description

If the extension you have dialed is busy, you can inform the extension that another intercom call is waiting by three beeps.

Operation

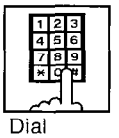
1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number.
3. When you will hear a busy tone, dial (1) and wait for an answer.

Conditions

- To answer your signal, see "Call Waiting" on page 4-20.
- If the other party is setting "Call Waiting Tone-From Extension Deny" on page 4-42 or is using data equipment, you may not be able to use this feature. A reorder tone is heard after dialing 1.

Executive Override (Barge-In)

Lift handset or press SP-PHONE


Dial extension number (100 through 199)

You will hear a busy tone

Dial "2"

[A 3-party conference is now established]

Description

Allows an extension user to intrude into another extension that is in conversation with an outside or inside party.

For the use of this feature, the extension is required to be set for this feature beforehand in the KX-T123210. For programming, see page 3-73.

Operation

1. Lift the handset or press the SP- PHONE button.
2. Dial the extension number.
3. When you hear a busy tone, dial (2).
   A 3-party conference will now be established.

To terminate conference

Replace the handset back on hook or press the SP-PHONE button.

- The other two parties will be directly connected together and can converse with each other. (Intercom calls and intercom to outside are OK.)

To terminate one caller and talk to the other caller.

- If the conference parties are one outside caller and one extension:
  To talk to the outside party, press the CO button.
  To talk to the extension party, press the ICM button.

Conditions

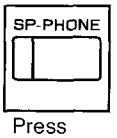
- If the other party is using data equipment or is set for "Executive Override Deny" on page 4-32, you can not intrude into the other party that is in conversation. A reorder tone is heard after dialing 2.

Receiving Calls

Answer

Lift handset

or



Press SP-PHONE

Operation

Lift the handset or press the SP-PHONE button.

- When receiving an intercom call, you may press the ICM button whose indicator is flashing quickly and talk. (Hands-free mode)
- When receiving an outside call, you may press the CO button whose indicator is flashing red quickly and talk.(Hands-free mode)
- When the "Automatic Answering Selection" feature (on page 4-52) is selected "No Line Preference-Incoming" in the extension and outside call reaches, lift the handset and then press the CO button whose indicator is flashing (red color) quickly.
- When the "Automatic Answering Selection" feature (on page 4-51) is selected "Prime Line Preference-Incoming" in the extension and any incoming calls from the Central Office are received at the same time except preferred CO line, you must lift the handset and then press the CO button whose indicator is flashing (red color) quickly.

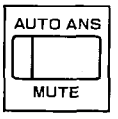
Conditions

If a call is received through the CO line which is not assigned to the CO button of an extension, the extension can not receive the CO call. Therefore, if the extension user wants to receive the CO call, the CO line is required to be assigned to the CO button. To assign the CO button to the CO line, there are 3 ways as follows.

- Way to change into other CO numbers (on page 4-53)
- Way to assign to trunk group access number (on page 4-53)
- Way to change into other all CO numbers which are not assigned to CO button.(on page 4-55)

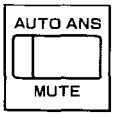
Automatic Answer-Intercom

Setting



Press AUTO ANS (Indicator will be lit)

To cancel



Press AUTO ANS (Indicator will go out)

Description

Allows an extension user to answer an intercom call in the automatic hands-free mode without any operation when receiving an intercom call.

Operation

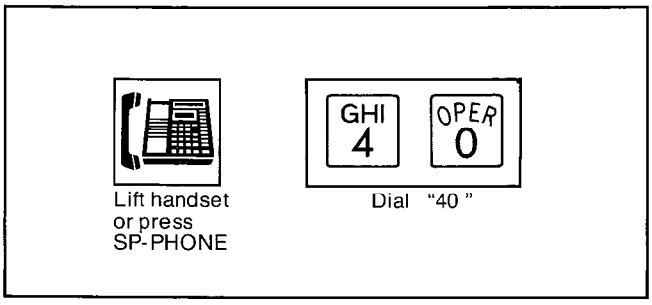
1. For setting, press the AUTO ANS button.
   The AUTO ANS indicator will be lit.

2. For cancellation, press the AUTO ANS button again.
   The AUTO ANS indicator will go out.

Description

- This feature is required to be set beforehand while the unit is not in use.
- The KX-T123250, KX-T61650 or KX-T30850 will not function for Automatic Answer.

Dial Call Pickup



Description

An extension user can answer any ringing extension within their own extension group.

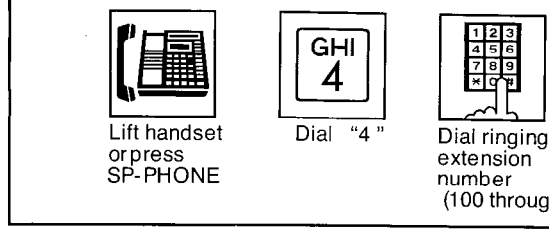
Operation

1. Lift the handset or press the SP-PHONE button.
2. Dial (40) and wait for the confirmation tone.
3. Start talking.

Conditions

- Dial Call Pickup will work for incoming calls (intercom, outside and doorphone) but will not work for camp-on recall and hold recall.
- If a ringing extension is outside the extension group or is in the dial call pickup denied mode, then a reorder tone will be heard through the use of this feature.
- Refer to "Extension Group Assignment" on page 3-63.
- Dial Call Pickup can use with the present call placed on hold.

Directed Call Pickup



Description

An extension may answer an incoming call that is ringing at another extension regardless of the extension group.

Operation

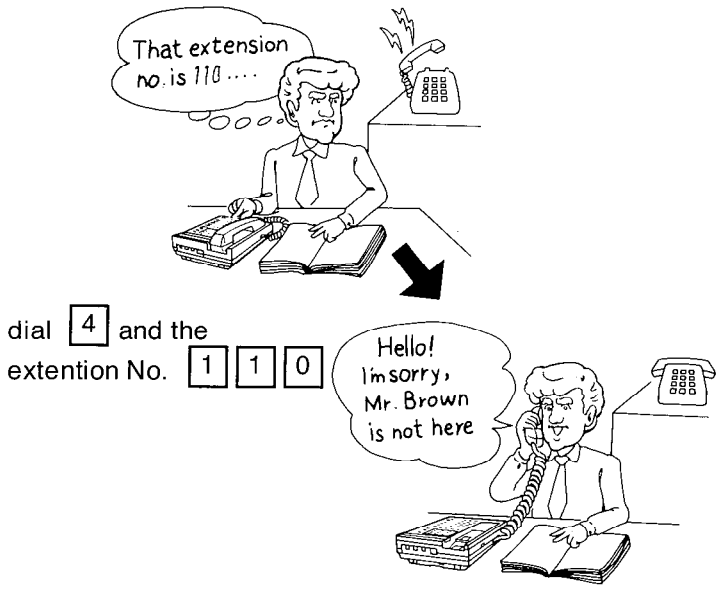
1. Lift the handset or press the SP-PHONE button.
2. Dial (4) and then the extension number (100 through 199) at which call is ringing.
3. Wait for confirmation tone and then start talking.

Conditions

- It is possible to answer calls outside your assigned extension group.
- Directed Call Pickup can be used with the present call placed on hold.

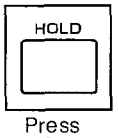
Example:

Mr Brown's extension number is 110.
He is now out of the office.
Mark receives the call instead of Mr Brown with the telephone on his desk (extension 120).

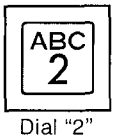


Call Park

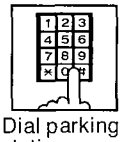
To park a call

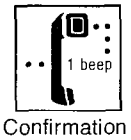


Press HOLD



Dial "2"


Dial parking station number (20 through 29)



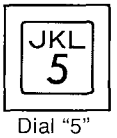
Confirmation tone

Hang up or press SP-PHONE

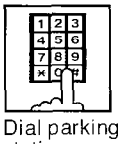
If a busy tone is heard after the parking station number is dialed, dial only last 1 digit of the other parking station number (0 through 9).

To retrieve a parked call at any extension

Lift handset or press SP-PHONE



Dial "5"


Dial parking station number (20 through 29)

Description

Extension user can place up to ten calls in the park zones. Allows any extension user to retrieve a parked call (intercom or outside) on hold at any extension.

Operation

To park a call

1. You are in conversation with an internal or outside party.
2. Press the HOLD button.
3. Dial (2).
4. Dial the parking station number (20 through 29).
   - When dialing (20). "Call Prked at 20" will be displayed.
   - A confirmation tone will be heard.
   - If a busy tone is heard, dial only last 1 digit of the other parking station number (0 through 9).
5. Hang up or press the SP-PHONE button.

To retrieve a parked call at any extension.

1. Lift the handset or press the SP-PHONE button at any extension.
2. Dial (5).
3. Dial the parking station number (20 through 29) on which the call is placed on hold.
4. Wait for the confirmation tone and then start talking.

Conditions

- Up to ten calls can be parked.
- If a parked call is not retrieved by an extension within 3 minutes, a hold time reminder will be sounded at the extension who placed the call on hold.
  There are 9 choices ranging from 1 to 9 minutes for the hold time reminder.
  For programming, see the page 3-25.

Example:

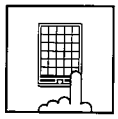
Mark is talking with extension 130 on his desk, and then moves to another room placing the call park.
He resumes the conversation using another extension.

Press the HOLD button, dial [2], dial [20] (parking station number), hang up and then go to Mr. Jay's office.

Dial [5] and the parked station number [20] at Mr. Jay's office.

Doorphone

Calling from Doorphone



Press doorphone button 1 second

Confirmation tone

Talk

To answer a doorphone

Lift handset

or

Press SP-PHONE

Operation

Calling from the doorphone.

1. Press the doorphone button 1 second.
2. Wait for the other party's voice after hearing the confirmation tone and then start talking.

To answer a doorphone

Lift the handset or press the SP-PHONE button.

Conditions

- If calls from doorphones are not answered within 15 seconds, the calls will be cancelled.
- Ring from doorphone.

- Each extension has been programmed beforehand for receiving from doorphones. See "Ringing Assignment from Doorphone" on page 3-75.

Distinctive Ring Tone

Description

A different ringing pattern is used to distinguish intercom calls from incoming outside calls.

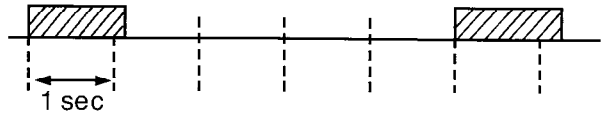
Operation

None

Conditions

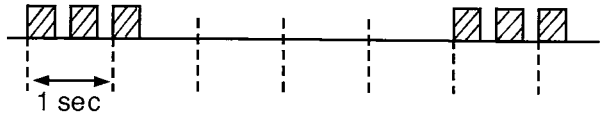
Automatic ring back for "Camp On" feature will ring differently from the intercom, outside, and doorphone calls.

Incoming outside calls (including outside hold recall)



Intercom calls (including intercom hold recall)

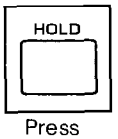
Doorphone calls



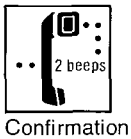
While Having a Conversation

Call on Hold

To place a call on hold:



Press HOLD

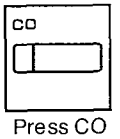


Confirmation tone of 2 beeps will be heard

To retrieve:

(Outside calls on hold)

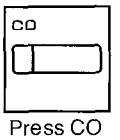
- at the holding extension



flashing slowly in green

Press CO

- from another extension

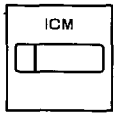


flashing slowly in red

Press CO

(Intercom call on hold)

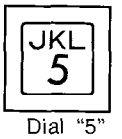
- at the holding extension



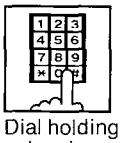
(flashing slowly)

Press ICM

- from another extension



Dial "5"



Dial holding extension number

Description

If you wish to leave your phone unattended but want the caller you are in conversation with to wait, call hold may be used. Outside or intercom calls may be placed on hold. Calls on hold can be released by other extensions.

Operation

1. You are in conversation with an outside or internal party.
2. Press the HOLD button.
   The indicator of CO or ICM button which is on hold will flash slowly (green color). The confirmation tone of 2 beeps will be heard.

To Retrieve at the holding extension,
press the CO or ICM button (flashing green).
The indicator light will return to a steady green.

To Retrieve from another extension,

- press the CO button (flashing slowly in red).

or

- dial (5) and then the extension (100 through 199) or CO (301 through 312) number of the phone on which the call was placed on hold.
  [5] [ABC]
  ⋮···ABC··· 100 through 199 (extension)
  or
  ABC··· 301 through 312 (CO)

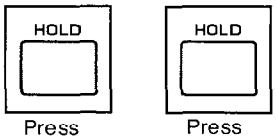
- The green flashing indicator at the held extension will turn to red.

Conditions

- An Intercom hold can be activated on one extension only.
- Outside Call holds can be activated on all CO's.
- Calls on hold will be recalled either after 30 seconds, 1 minute, 1 minute and 30 seconds or 2 minutes, once handset is replaced (or the SP- PHONE button is pressed).
  If hold recall time is set to "Disable", it will not be recalled.
  Refer to "Hold Recall Time Set" on page 3-26.
- If a call is placed on hold for more than 3 minutes, a hold time reminder will be sounded and the call will be terminated automatically after 30 minutes.
  A hold time reminder is sounded through the built-in speaker of the extension.
  There are 9 choices ranging from 1 minute to 9 minutes in the hold time reminder.
  For programming, see the page 3-25.
- The hold time reminder is activated, even if the hold recall time set is programmed to "Disable".
- When lifting the handset (or press the SP-PHONE button):
  before recalling - - - - A dial tone will be heard with the call on hold. You may dial another phone number.
  while recalling - - Only the first call on hold will be released and entered into the conversation mode.

Call on Exclusive Hold

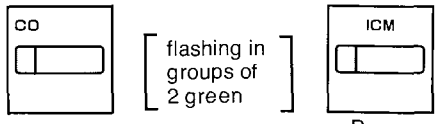
To place a call on exclusive hold:



Press HOLD — Press again

To retrieve:

(Outside calls on hold) (Intercom call on hold)



Press CO — Press ICM

Description

Intercom or outside calls placed on exclusive hold can not be released by any extension other than the phone which has placed the call on hold.

Operation

1. You are in conversation with an outside or internal party.

2. Press the HOLD button.
   The indicator of CO or ICM button which is on hold will flash slowly (green color).
   A confirmation tone of 2 beeps will be heard.

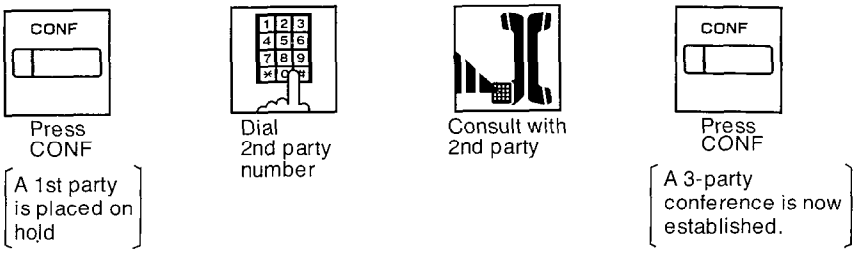
3. Press the HOLD button, again.
   The indicator will flash in groups of 2 (green color).

4. To retrieve, press the ICM button or the CO button whose indicator is flashing in groups of 2 (green color).
   The indicator on the ICM or CO button will return to a steady green.

Conditions

- An Intercom hold can be activated on one extension only.
- Outside Call holds can be activated on all CO's.
- Calls on hold will be recalled either after 30 seconds, 1 minute, 1 minute and 30 seconds or 2 minutes, once handset is replaced (or the SP- PHONE button is pressed). If hold recall time set is set to "Disable", will not be recalled. Refer to "Hold Recall Time Set" on page 3-26.
- If a call is placed on hold for more than 3 minutes,a hold time reminder will be sounded, and the call will be terminated automatically after 30 minutes.
  A hold time reminder is sounded through the built-in speaker of the extension.
  There are 9 choices ranging from 1 to 9 minutes for the hold time reminder.
  For programming, see the page 3-25.
- The hold time reminder is activated, even if the hold recall time set is programmed to "Disable".
- When lifting the handset (or press the SP-PHONE button):
  before recalling ··· A dial tone will be heard with the call on hold. You may dial another phone number.
  while recalling ··· Only the first call on hold will be released and entered into the conversation mode.

Conference



Description

Allows for up to a three party conference, (2-outside / 1- inside) (1- outside / 2- inside) or (3-inside).

Operation

1. Press the CONF button, to place the first party on hold.

2. Dial the number of the second party.
   If second party does not answer, press the CO button of the outside party concerned, or the ICM button to return to the first party.

3. Press the CONF button.
   A confirmation tone will be heard.
   3 party conference is now established.
   "Ext 102 & CO 02" will be displayed.

- You may press the HOLD button instead of the first CONF button.

To terminate conference

Replace the handset or press the SP-PHONE button.

- The other two parties will be directly connected together and can converse with each other. (Intercom calls and intercom to outside are OK, outside to outside is not possible.)

To terminate one caller and talk to the other caller.

- If both the conference parties are on an outside line:
  Press the CO button to talk to the desired party.

- If the conference parties are an outside caller and an extension caller:
  To talk to the outside party, press the CO button.
  To talk to the extension party, press the ICM button.

To place the other two parties on hold at the same time.

Press the HOLD button.

- In case the other two parties are on the extension, the other two parties can not be placed on hold.

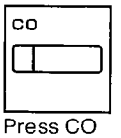
Conditions

- Pressing a CO button which is out of conference, allows you to exit from the conference and to access an outside party and the other parties to be connected together.
  If the other parties are outside ones, they are disconnected.
  If the other parties are on the outside and extension, they are connected.
- When both the conference parties are on the extension, even if anyone of the conference parties press the ICM button, a three party conference is gone on.

Privacy Release (Manual)

While you are speaking on a CO line,

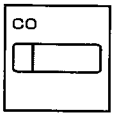
- Before pressing the CO button, inform another extension user to join into the conversation by word of mouth.



Press CO already in use

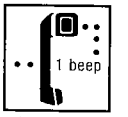
[quickly flashing in green for 5 seconds]

At another extension that want to join into the conversation;



Press CO within 5 seconds

[quickly flashing in green for 5 seconds]



Confirmation tone of 1 beeps will be heard

[A3-party conference is now established (1-outside / 2-inside)]

Description

Allows an extension user that is in conversation with an outside party to make a three party conference by having another extension join into the conversation.

Operation

1. You are in conversation with an outside party.
2. Inform another extension user to join into the conversation by word of mouth.
3. Press the CO button that you are using, and the CO indicator of the other extensions will quickly flash (green color) for 5 seconds.
4. When another extension user that want to join into the conversation presses the CO button whose indicator is quickly flashing (green color) within 5 seconds, a confirmation tone will be heard at another extension.
   3 party conference is now established.
   (1-outside / 2- inside)

To terminate conference. (1-outside/2-inside)

Replace the handset back on hook or press the SP-PHONE button.

- The other two parties will be directly connected together and can converse with each other.

To terminate one caller and talk to the other caller.

To talk to the outside party, press the CO button.

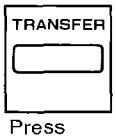
To talk to the extension party, press the ICM button.

Conditions

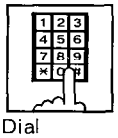
- After an extension user presses the CO button, the indicator of the other extension will flash for only 5 seconds.
  Pressing of the CO button again will add another 5 seconds.

Call Transfer - To Extension

To transfer a call after the other extension answers



Press TRANSFER

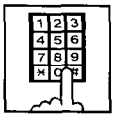

Dial extension number (100 through 199)

Announce and wait for an answer

Hang up or press SP-PHONE

To transfer a call without announcing to the other extension

Press TRANSFER


Dial extension number (100 through 199)

Hang up or press SP-PHONE

To retrieve the Call

If the other extension dose not answer the transferred call within 30 seconds after the call has been transferred, the call will return to you. In this case:

While the ring back is heard,

Lift handset to return to the calling party

Description

Outside or intercom calls may be transferred to any extension manually.

Operation

1. You are engaged in a call (outside or intercom).
2. Press the TRANSFER button.
3. Dial number of extension (100 through 199) to which the call is transferred.
4. For Unscreened call transfer, replace the handset or press the SP-PHONE button. For Screened call transfer, wait for new party to answer and announce call, then replace the handset or press the SP- PHONE button.

To retrieve the Call

If the other extension dose not answer the transferred call within 30 seconds after the call has been transferred, the call will return to you.

In this case:

While the ring back is hearing, lift the handset to return to the calling party.

To change the party to whom a call is transferred before hanging up

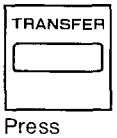
Press the CO or ICM button whose indicator is flashing slowly to retrieve the call, then repeat the procedure of Call Transfer.

Conditions

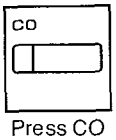
- Upon recall to the transferring extension, if call is not answered whitin 30 minutes it will be terminated.
- When busy, you may access the other extension by dialing 1 (Busy station signaling) or dialing 2 (Executive Override) and hang up. Also you may return to the calling party by pressing the CO or ICM button whose indicator is flashing slowly (green color).
- The time that the call returns to you when the transferred call is not answered can be changed from 30 seconds to 15 seconds. For changing, see page 3-27.

Call Transfer - To Outside Line

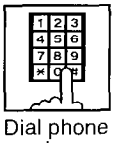
To transfer a call after the outside party answers.



Press TRANSFER



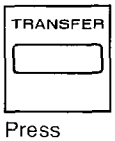
Press CO


Dial phone number

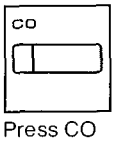
Announce and wait for an answer

Hang up or press SP-PHONE

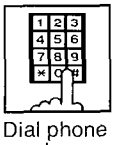
To transfer a call without announcing to the outside party.



Press TRANSFER



Press CO


Dial phone number

Hang up or press SP-PHONE

Description

Outside or intercom calls may be transferred to any outside line manually.

This feature is required to be set beforehand in the KX-T123210.

For programming, see page 3-71.

Operation

1. You are engaged in a call (outside or intercom).
2. Press the TRANSFER button.
3. Press the CO button to which the call is transferred.
4. Dial the phone number to which the call is transferred.
5. For Unscreened call transfer, replace the handset back on hook or press the SP-PHONE button.
   For Screened call transfer, wait for new party to answer and announce call, then replace the handset back on hook or press the SP-PHONE button.

To change the party to whom a call is transferred before hanging up

Press the CO button whose indicator is flashing slowly to retrieve the call, then repeat the procedure of Call Transfer.

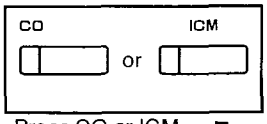
Conditions

- Even if you dial the incorrect phone number to which the call is transferred, it is possible to redial the correct phone number after pressing the FLASH button.
- If outside call is transferred to any outside line, the KX-T123210 will disconnect the call from the line after 10 minutes. For changing the time, see "CO to CO Duration Time Limit" on page 3-30.
  3 beeps tone will be heard every 5 seconds for 15 seconds before the call is disconnected from the line.
- If the outside call is transferred to another outside line through the KX-T123210, the KX-T123210 may not disconnect both lines after the calling party hangs up if the calling parties line (central office exchange) does not release a CPC (Calling Party Control) signal to the line.
  However the KX-T123210 will disconnect the line after the time that you have programmed. (See page 3-30.)

Call Waiting

To terminate the original call and talk to the new caller.

Will hear a call waiting tone



Press CO or ICM whose indicator is flashing quickly

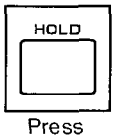
[The original call is now terminated.]

Talk

To place the original call on hold and talk to the new caller.

- If both original call and new call are intercom calls:
  (The ICM indicator will change into quickly flashing when the new call is reached.)

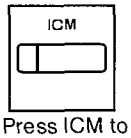
Will hear a call waiting tone



Press HOLD

[Dial tone is not heard.]

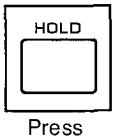
Consult with the new caller while the original call is on hold



Press ICM to terminate the 2nd call and to return to the original call

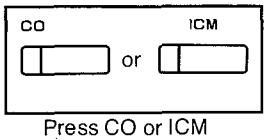
- If original call is CO call, and new call is CO call or intercom call:
  or
  If original call is intercom call and new call is CO call:

Will hear a call waiting tone



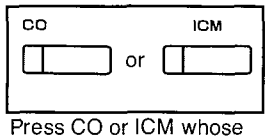
Press HOLD

[The dial tone is heard.]



Press CO or ICM whose indicator is flashing quickly

Consult with the new caller while the original call is on hold



Press CO or ICM whose indicator is flashing slowly to terminate the 2nd call and to return to the original call

Description

Call waiting tone during a conversation indicates there is a new incoming CO line call or Intercom call.
This feature has been set beforehand in the extension. See page 4-42.
There are Tone 1 and Tone 2 in the Call Waiting Tone.
For changing Tone 1 into Tone 2, see "Call Waiting Tone Selection" on page 4-61.

Operation

To terminate the original call and talk to the new caller.

1. You will hear a call waiting tone (3 beeps).
2. Press the CO or ICM button whose indicator is quickly flashing. The original call is now terminated.
3. Start talking.

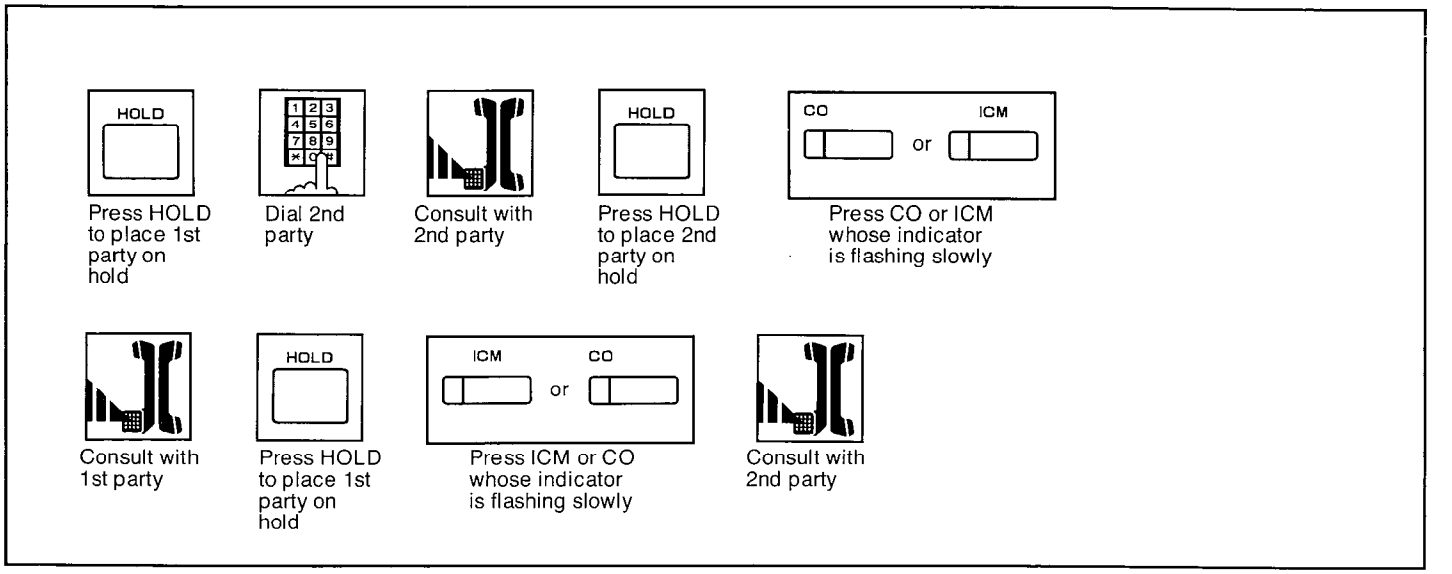
To place the original call on hold and talk to the new caller.

- If both original call and new call are intercom calls:
  (The ICM indicator will change lighting into quickly flashing when new call reaches.)
  1. You will hear a call waiting tone (3 beeps).
  2. Press the HOLD button for placing a conversation on hold.
  3. Consult with the new caller.
  4. Press the ICM button to terminate the second call and to return to the original call.
- If original call is CO call, and new call is CO call or intercom call:
  or
  If original call is intercom call and new call is CO call:
  1. You will hear a call waiting tone.
  2. Press the HOLD button for placing a conversation on hold.
  3. Press the CO or ICM button whose indicator is quickly flashing .
  4. Consult with the new caller.
  5. Press the CO or ICM button whose indicator is flashing slowly to terminate the second call and to return to the original call.

Conditions

- If a call waiting tone is heard and the CO or ICM indicator does not flash, this tone indicates a call waiting tone by your telephone company.
  In this case, see "Call Waiting-Outside Line" on page 4-38.

Call Splitting — Between CO and Intercom



Description

Allows an extention user to alternate between a CO party and an intercom party.

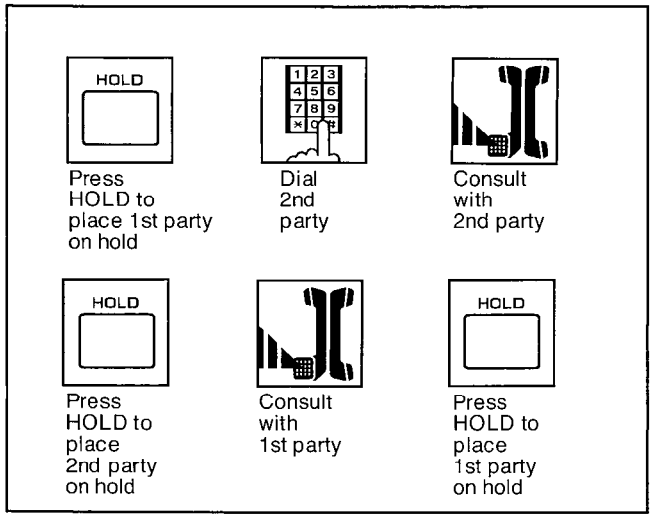
Operation

1. Press the HOLD button to place the first party on hold.
2. Dial the second party.
3. Consult with the second party.
4. Press the HOLD button to place the second party on hold.
5. Press the CO or ICM button whose indicator is flashing slowly.
6. Consult with the first party.
7. Press the HOLD button to place the first party on hold.
8. Press the ICM or CO button whose indicator is flashing slowly.
9. Consult with the second party.
10. Repeat step 4 to 9.

Conditions

- To release the call splitting mode,press the CO or ICM button without pressing the HOLD button.
  Conversation will be terminated and call on hold will be returned into conversation.

Call Splitting —Intercom



Description

Allows an extension user to alternate between two intercom parties.

Operation

1. Press the HOLD button to place the first party on hold.
2. Dial the second party.
3. Consult with the second party.
4. Press the HOLD button to place the second party on hold.
5. Consult with the first party.
6. Press the HOLD button to place the first party on hold.
7. Repeat step 3 to 6.

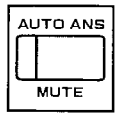
Conditions

- To release the call splitting mode,press the ICM button instead of the HOLD button. Conversation will be terminated and call on hold will be returned into conversation.

Mute Operation

To enable

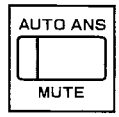
Be sure the SP-PHONE indicator is on.



Press MUTE

- The MUTE indicator will flash.

To cancel



Press again

- The MUTE indicator will go out.

Description

Use when you do not want your voice to be heard by the other party.

Operation

To enable

Be sure the SP-PHONE indicator is on.
Press the MUTE button.
●The MUTE indicator will flash.

To cancel

Press the MUTE button again.
●The MUTE indicator will go out.

Conditions

- This feature can be activated only in the speakerphone mode.

Paging

Switching between Using Handset and Hands-free

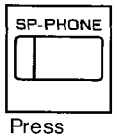
To Use the Handset

While having a conversation using speakerphone

Lift handset

To Use the Hands-free

While having a conversation using the handset



Press SP-PHONE

Hang up handset

Description

You may choose the handset or hands-free.

Operation

To use the handset

While having a conversation using speakerphone;

lift the handset.

To use hands-free

While having a conversation using the handset;

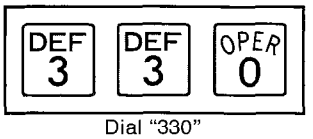
1. Press the SP-PHONE button.
2. Hang up the handset.

- When the other party finds it difficult to hear your voice:
  Lower the sound level using the SPEAKER VOLUME CONTROL or speak louder.
- Absorbing echoes:
  Use in a room which has curtains or carpeting.
- To avoid lost conversations:
  If some part of the conversation is lost while talking, speak alternately.

Paging All Extensions

To access

Lift handset or press SP-PHONE



Dial "330"

Confirmation tone of 1 beep will be heard

Page

Wait for an answer and talk

■ Paging will be heard only from the built-in speaker of proprietary telephone.

Description

Allows paging to all extensions.
The page can only be heard from either proprietary telephones (KX-T123230, KX-T123220, or KX-T123250, etc).

Operation

To access paging;

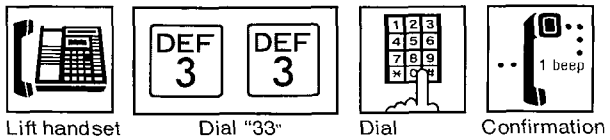
1. Lift the handset or press the SP-PHONE button.
2. Dial (330) and wait for confirmation tone (one beep).
   "Paging All Ext" will be displayed.
   - You may dial (33*) instead of (330).
3. Start paging.
4. Wait for an answer and talk.

Conditions

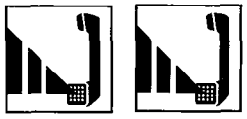
- When an extension is in use, that extension cannot gain access to paging.
- When any extension is using the paging (all extensions or group), you cannot access to paging.

Paging Group

To access



Lift handset or press SP-PHONE | Dial "33" | Dial extension group number (1 through 8) | Confirmation tone



Page | Wait for an answer and talk

■Paging will be heard only from the built-in speaker of proprietary telephone.

Description

Allows paging to one of eight extension groups. The page can only be heard from either proprietary telephones (KX-T123230, KX-T123220 or KX-T123250 etc).

Operation

To access paging;

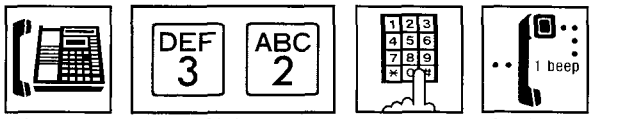
1. Lift the handset or press the SP-PHONE button.
2. Dial (33).
3. Dial the extension group number (1 through 8).
   A confirmation tone (one beep) will be heard.
   "Paging Group 1" , "Paging Group 2",
   "Paging Group 3" , "Paging Group 4",
   "Paging Group 5" , "Paging Group 6",
   "Paging Group 7" or "Paging Group 8",
   will be displayed.
4. Start paging.
5. Wait for an answer and talk.

Conditions

- If an extension is in use,that extension will not gain access to paging.
- Refer to "Extension Group Assignment" on page 3-63.

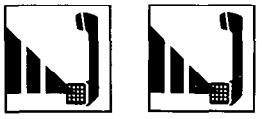
Paging — External

To access



Lift handset or press SP-PHONE | Dial "32" | Dial external paging number | Confirmation tone

"0":for external paging equipment 1 and 2
"1":for equipment 1
"2":for equipment 2



Page | Wait for answer and talk

■Paging will be heard from external paging equipment (1 and / or 2).

Description

Allows access to external paging equipment.

Operation

To access external paging;

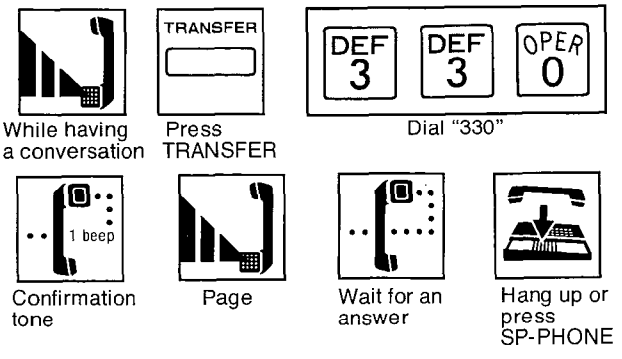
1. Lift the handset or press the SP-PHONE button.
2. Dial (32).
3. Dial the external paging number (0 through 2) and wait for confirmation tone (one beep).
   0: for external paging 1 and 2
   "Extrnl Page 1 & 2" will be displayed.
   1: for external paging 1
   "Extrnl Page 1" will be displayed.
   2: for external paging 2
   "Extrnl Page 2" will be displayed.
4. Start paging.
   When the page is answered, one beep will be heard. Start talking.

Conditions

- If external paging access tone is set to "Disable", confirmation tone from external paging equipment will not be heard after accessing the external paging.
  Refer to "External Paging Access Tone" on page 3-41.

Paging And Transfer

To transfer a call to the paged person



While having a conversation | Press TRANSFER | Dial "330" | Confirmation tone | Page | Wait for an answer | Hang up or press SP-PHONE

- You may dial 331 through 338 or 320 through 322 instead of 330.

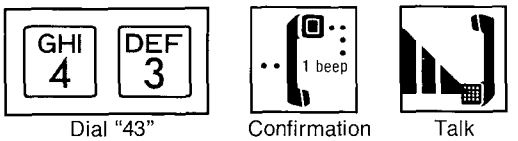
Operation

To transfer a call to the paged person;

1. You are in conversation.
2. Press the TRANSFER button.
3. Dial (330) for paging all extensions.
   Dial (331) for paging extension group 1.
   Dial (332) for paging extension group 2.
   Dial (333) for paging extension group 3.
   Dial (334) for paging extension group 4.
   Dial (335) for paging extension group 5.
   Dial (336) for paging extension group 6.
   Dial (337) for paging extension group 7.
   Dial (338) for paging extension group 8.
   Dial (320) for external paging 1 and 2.
   Dial (321) for external paging 1.
   Dial (322) for external paging 2.
   - Wait for confirmation tone.
4. Start paging.
5. Wait for an answer.
6. Hang up or press the SP-PHONE button.

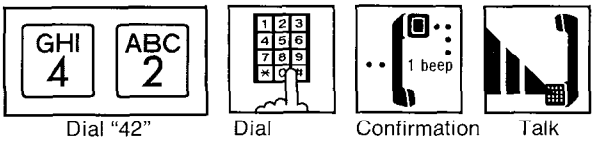
Paging — Answer

To page from built-in speaker.



Dial "43" | Confirmation tone | Talk

To paging from External Equipment.



Dial "42" | Dial external paging number | Confirmation tone | Talk

["1":for external paging equipment 1
"2":for external paging equipment 2]

Description

A page from the built-in speaker or external paging equipment can be answered from any extension.

Operation

To answer a page through the built-in speaker;

1. Lift the handset or press the SP-PHONE button.
2. Dial (43) and wait for confirmation tone (one beep).
3. Start talking.

To answer an external page

1. Lift the handset or press the SP-PHONE button.
2. Dial (42).
3. Dial the external paging number (1 or 2) and wait for confirmation tone (one beep).
   "1":for external paging 1.
   "2":for external paging 2.

Conditions

- If a call and CO number has been paged and transferred, you may answer by pressing the CO button whose number has been paged and indicator is flashing slowly (red color), instead of dialing 43, 421 or 422.

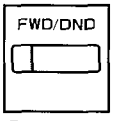
Use of Other Features

Call Forwarding — All Calls / Busy or No Answer

Setting

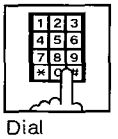
All Calls

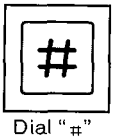
Lift handset or press SP-PHONE



Press FWD/DND (F3)

Dial "1"


Dial extension number to whom the call is forwarded

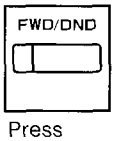


Dial "#"

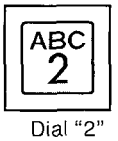
Hang up or press SP-PHONE

Busy or No Answer

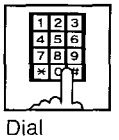
Lift handset or press SP-PHONE

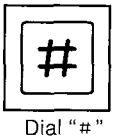


Press FWD/DND (F3)



Dial "2"


Dial extension number to whom the call is forwarded

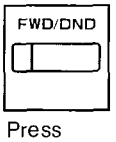


Dial "#"

Hang up or press SP-PHONE

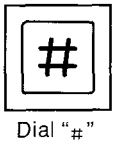
To cancel

Lift handset or press SP-PHONE



Press FWD/DND (F3)

Dial "0"



Dial "#"

Hang up or press SP-PHONE

Description

All Calls

All intercom calls to your extension can be automatically forwarded to any extension within the system.
For outside calls to your extension, if your extension is set to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.
For programming to the DIL mode, see page 3-54.

Busy or No Answer

If your extension is busy or does not answer the call within 3 rings ("Call Forwarding Starting Time" on page 3-28 can change from 3 rings to 1 ring, 2 rings or 4 rings.), Intercom calls to your extension can be automatically forwarded to any extension within the system.
For outside calls to your extension, if your extension is set to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.

- The programmable feature (F3 only) button of the KX-T123250, KX-T61650 or KX-T30850 can also be used for "Call Forwarding" if programming is done beforehand in the extension. For programming, see page 4-60.

Operation

Setting

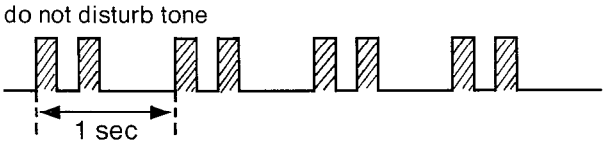
1. Lift the handset or press the SP-PHONE button.
2. Press the FWD/DND (or F3) button.
3. To forward all calls, dial (1).
   To forward the calls when your extension is busy or do not receive, dial (2).
4. Dial the number of the extension to which the calls are to be forwarded (100 through 199).
5. Dial the (#) button.
   A confirmation tone will be heard .
   "FWD (All) Ext 102" or "FWD (B/NA) Ext 102" will be displayed.
6. Hang up or press the SP-PHONE button.
   The FWD/DND indicator will flash.

To cancel

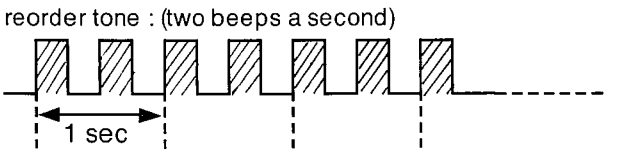
1. Lift the handset or press the SP-PHONE button.
   The indicator light of the FWD/DND button will be off.
2. Press the FWD/DND (or F3) button.
3. Dial (0).
4. Dial the (#) button.
   A confirmation tone will be heard.
   "FWD/DND Cancel" will be displayed.
5. Hang up or press the SP-PHONE button.

Conditions

- Do Not Disturb is cancelled when call forwarding is established.
- Recall for camp-on and Hold recall are not forwarded.
- The tone (busy tone or do not disturb tone etc.) the caller receives depends on the condition of the forwarded extension.

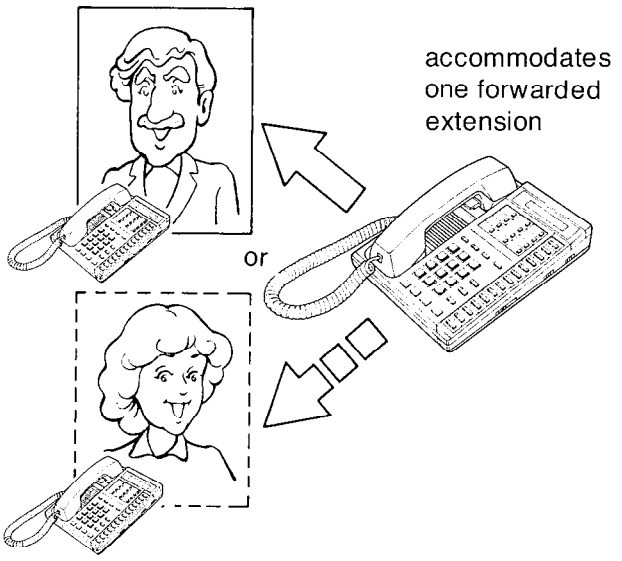


- When an intercom call to the forwarding extension is originated from the forwarded extension, the forwarded extension user will hear a reorder tone.

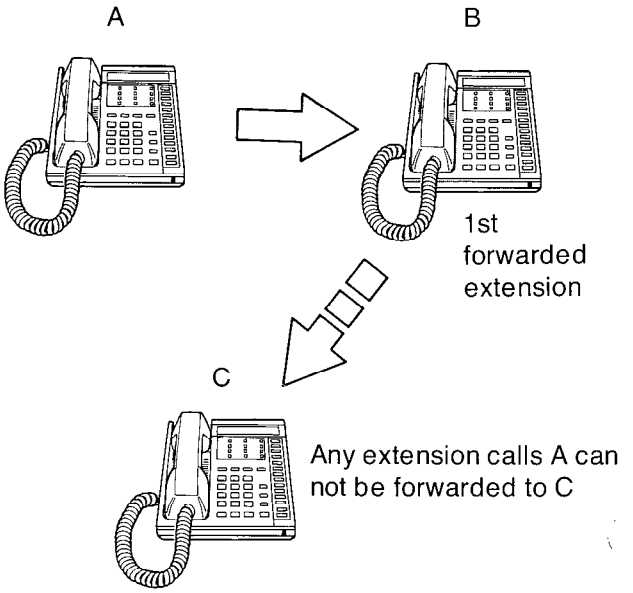


- This feature will not function in "Automatic Answer" mode on page 4-10 and "Intercom Voice Alerting" mode on page 4-56.

- An extension can not accommodate more than one forwarded extension.
  At each time of newly setting "Call Forwarding",a destination (forwarded extension code) will be renewed.
  Old entry will be canceled.

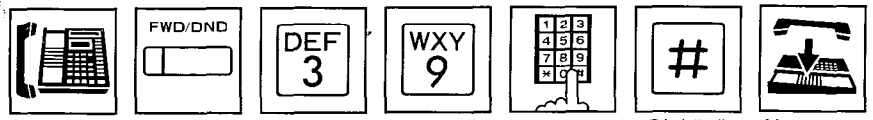


- If extension A is forwarding all calls to extension B and B is forwarding all calls to C,
  if any extension calls A, they will be connected to B and can not be connected to C.
  Call Forwarding can be connected to only 1st fowarded extension.



Call Forwarding-To Outside Line

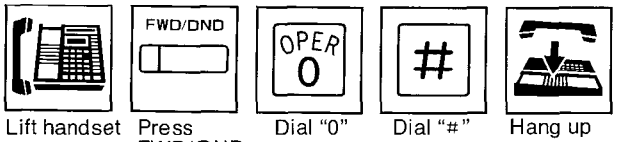
Setting



Lift handset or press SP-PHONE | Press FWD/DND (F3) | Dial "3" | Dial "9" | Dial phone number to whom the call is forwarded | Dial "#" | Hang up or press SP-PHONE

■ You may dial 81 through 88 instead of 9.
9 ..... Each extension can automatically select an idle CO line.
81 through 88 ..... Each extension can select a trunk group designated.

To cancel



Lift handset or press SP-PHONE | Press FWD/DND (F3) | Dial "0" | Dial "#" | Hang up or press SP-PHONE

Description

Intercom calls to your extension can be automatically forwarded to any outside line.
For outside calls to your extension, if your extension is set to the Direct In Line (DIL) mode the outside calls can be automatically forwarded to any outside line.
For programming to the DIL mode, see page 3-54.
This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-72.
The programmable feature (F3 only) button of the KX-T123250, KX-T61650 or KX-T30850 can also be used for "Call Forwarding" if programming is done beforehand in the extension. For programming, see page 4-60.

Operation

Setting

1. Lift the handset or press the SP-PHONE button.
2. Press the FWD/DND (or F3) button.
3. Dial (3).
4. Dial (9).
- You may dial 81 through 88 instead of 9.
  9 ..... Each extension can automatically select an idle CO line.
  81 through 88 ..... Each extension can select a trunk group designated.
5. Dial the phone number of the outside line to which the calls are to be forwarded.
6. Dial (#).
   A confirmation tone will be heard.
   "FWD (All) All COs" or "FWD (All) CO G1" will be displayed.
7. Hang up or press the SP-PHONE button.
   The FWD/DND indicator will flash.

To cancel

1. Lift the handset or press the SP-PHONE button.
   The indicator light of the FWD/DND button will be off.
2. Press the FWD/DND (or F3) button.
3. Dial (0).
4. Dial (#).
   A confirmation tone will be heard.
   "FWD/DND Cancel" will be displayed.
5. Hang up or press the SP-PHONE button.

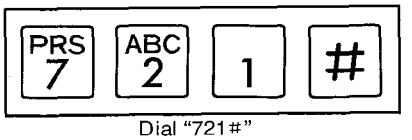
Conditions

- Do Not Disturb is cancelled when call forwarding is established.
- Recall for camp-on and Hold recall are not forwarded.
- The phone number to whom the call is forwarded is used from 0 to 9 and pause except and #. A maximum of phone number is 32 digits (Automatic line access number 9 or trunk group access number 81 through 88 is included).
- If outside call is forwarded to any outside line, the KX-T123210 will disconnected the call from the line after 10 minutes. For changing the time, "CO to CO Duration Time Limit" on page 3-30. 3 beeps tone will be heard every 5 seconds for 15 seconds before the call is disconnected from the line.
- If the outside call is forwarded to another outside line through the KX-T123210, the KX-T123210 may not disconnect both lines after the calling party hangs up if the calling parties line (central office exchange) does not release a CPC (Calling Party Control) signal to the line.
  However the KX-T123210 will disconnect the line after the time that you have programmed. (See page 3-30.)

Dial Call Pickup Deny

Setting

Lift handset or press SP-PHONE

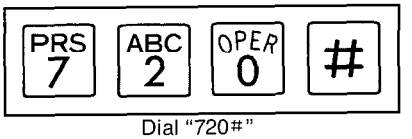


Dial "721#"

Hang up or press SP-PHONE

To cancel

Lift handset or press SP-PHONE



Dial "720#"

Hang up or press SP-PHONE

Description

Allows you to prohibit any other extension user from answering calls directed to you.

Conditions

While your extension is in the "Dial Call Pickup Deny" mode, you can place or receive outside or intercom calls.

Operation

Setting

1. Lift the handset or press the SP-PHONE button.
2. Dial (721#).
   Wait for a confirmation tone.
   "C.Pickup Deny" will be displayed.
3. Hang up or press the SP-PHONE button.

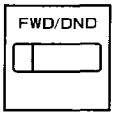
To cancel,

1. Lift the handset or press the SP-PHONE button.
2. Dial (720#).
   Wait for a confirmation tone.
   "C.Pickup Allow" will be displayed.
3. Hang up or press the SP-PHONE button.

Do Not Disturb

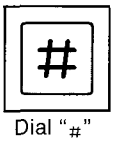
Setting

Lift handset or press SP-PHONE



Press FWD/DND (F3)

Dial "4"

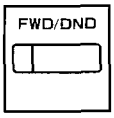


Dial "#"

Hang up or press SP-PHONE

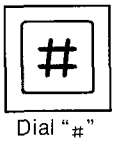
To cancel

Lift handset or press SP-PHONE



Press FWD/DND (F3)

Dial "0"



Dial "#"

Hang up or press SP-PHONE

Description

Each extension can be individually programmed for not receiving intercom call or outside calls.

The programmable feature (F3 only) button of the KX-T123250, KX-T61650 or KX-T30850 can also be used for "Do Not Disturb" if programming is done beforehand in the extension.

For programming, see page 4-60.

Operation

Setting

1. Lift the handset or press the SP-PHONE button.
2. Press the FWD/DND (or F3) button.
3. Dial (4).
4. Dial (#).
   "Do Not Disturb" will be displayed.
   Wait for a confirmation tone.
5. Hang up or press the SP-PHONE button.
   The indicator of FWD/DND button will be lit.

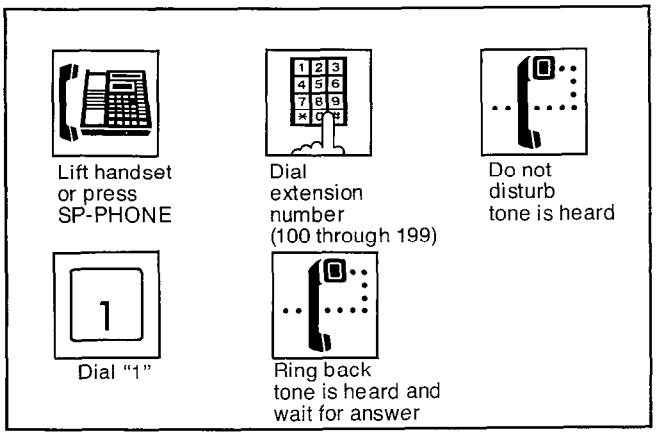
To cancel

1. Lift the handset or press the SP-PHONE button.
   The indicator of FWD/DND button will go out.
2. Press the FWD/DND (or F3) button.
3. Dial (0).
4. Dial (#).
   "FWD/DND Cancel" will be displayed.
   Wait for a confirmation tone.
5. Hang up or press the SP-PHONE button.

Conditions

- When "Do Not Disturb" is entered, "Call Forwarding" will be canceled, if entered.
- "Do Not Disturb" does not prevent the extension from recalling for on-hold and camp-on.
- If calling party use the "Do Not Disturb Override" feature, the call will receive to the extension that is setting the "Do Not Disturb".
  See the "Do Not Disturb Override" on page 4-31.

Do Not Disturb Override



Description

This feature can dial to the extension that is set for the Do Not Disturb.

This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-74.

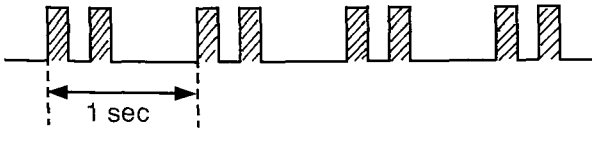
Operation

1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number (100 through 199).
3. Do not disturb tone is heard.
4. Dial (1) and after a ring back tone is heard, wait for an answer.

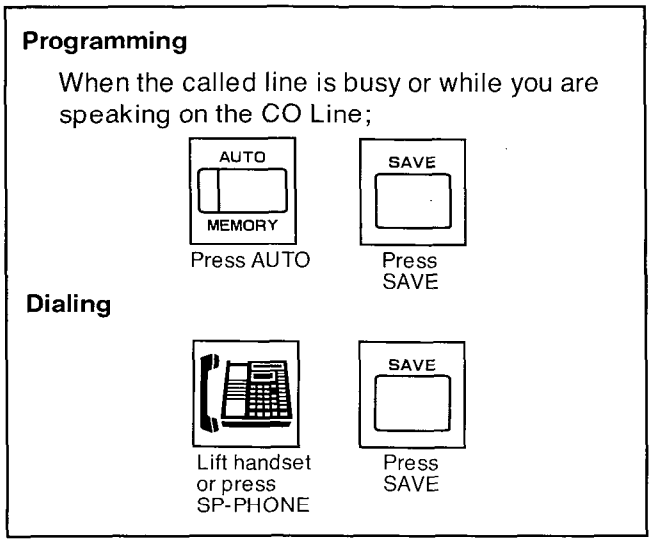
Conditions

- When the line is busy after dialing (1), busy tone will be heard. In this case, the extension user can use Camp-on (Automatic Call Back Busy) mode.

Do not disturb tone



Saved Number Redial



Description

The desired phone number on an outgoing call to CO line can be stored and then redialed.

Programming

While you are speaking on the CO line or when the called party is busy.

1. Press the AUTO button.
2. Press the SAVE button.

- The phone number can not be stored even if you press the AUTO and SAVE buttons after you hang up.

Dialing

1. Lift the handset or press the SP-PHONE button.
2. Press the SAVE button.
   You may press the CO button to select the CO line directly after lifting the handset or press the SP-PHONE button.

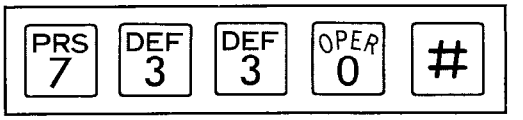
Conditions

- Up to 32 digits can be stored and redialed.
- The KX-T123250, KX-T61650 or KX-T30850 will not function for Saved Number Redial.

Executive Override Deny

To Deny Executive Override

Lift handset or press SP-PHONE

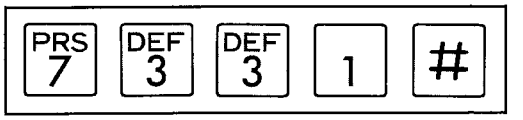


Dial "7330#"

Hang up or press SP-PHONE

To Allow Executive Override

Lift handset or press SP-PHONE



Dial "7331#"

Hang up or press SP-PHONE

Description

Allows you to prohibit another extension user from intruding into your conversation with an outside or inside party.
Default is "Allow" mode .
For programming of the intrusive extension, see "Executive Override" on page 3-73.

Operation

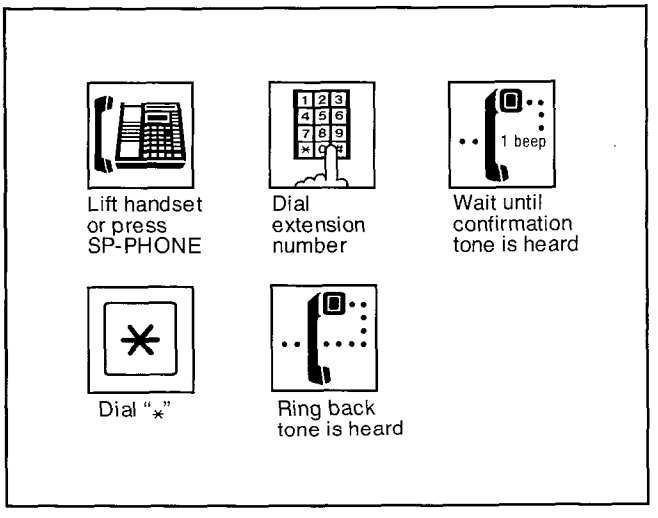
To deny Executive Override

1. Lift the handset or press the SP-PHONE button.
2. Dial (7330#).
   "Busy Ovrde Deny" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

To Allow Executive Override

1. Lift the handset or press the SP-PHONE button.
2. Dial (7331#).
   "Busy Ovrde Allow" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

Switching to Tone Alerting



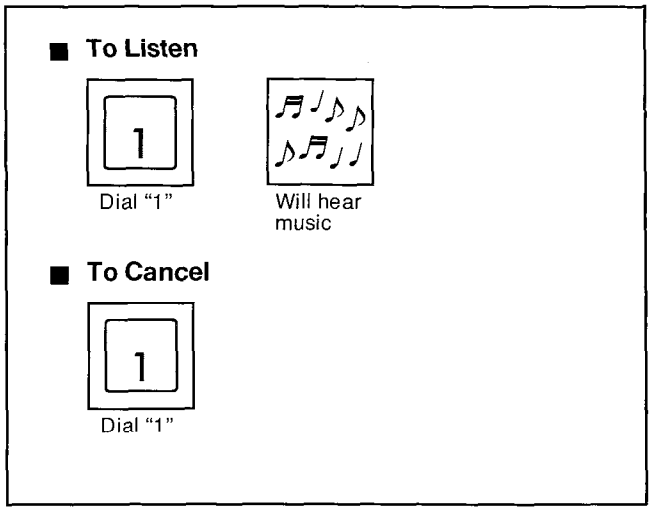
Description

"Voice alerting" (through built-in speaker) that is established at the called party's extension, can be switched to "Tone alerting" (ringing). This feature is required to be set beforehand at the called party's extension. For programming, see page 4-56.

Operation

1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number.
3. Wait for a confirmation tone after inter office calling.
4. Dial (*).
   The ring back tone will be heard.
   Tone Ringer on the called party's extension will be ready to be activated.

Background Music



Description

Music from an external source (e.g. radio) can be listened to on the built-in speaker of the proprietary telephone.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.

To listen

Dial (1).
"BGM on" will be displayed.
Music will be heard from the speaker.

To cancel

Dial (1).
"BGM off" will be displayed.

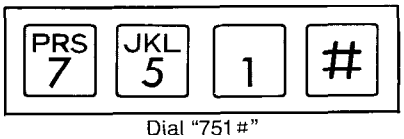
Conditions

- When listening to the background music, the music will be interrupted by incoming calls, lifting handset or pressing the SP-PHONE button. After completion of the conversation replacing the handset back on the cradle or be pressing of the SP-PHONE button, will resume the background music.

Setting

Message 1. "Will Return Soon"

Lift handset or press SP-PHONE

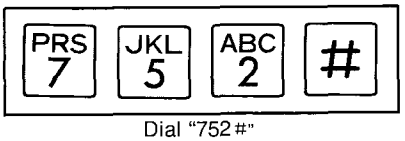


Dial "751#"

Hang up or press SP-PHONE

Message 2. "Gone Home"

Lift handset or press SP-PHONE



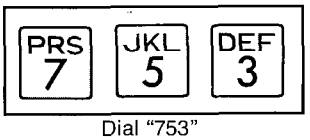
Dial "752#"

Hang up or press SP-PHONE

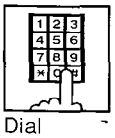
Message 3. "At Ext 1 2 3 "

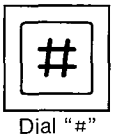
1 2 3 — extension number

Lift handset or press SP-PHONE



Dial "753"


Dial extension number (100 through 199)



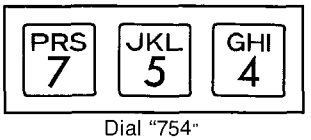
Dial "#"

Hang up or press SP-PHONE

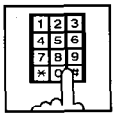
Message 4. "Back at 10:23 AM"

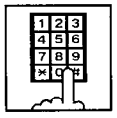
10:23 AM — hour / minute / AM/PM

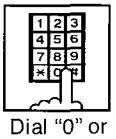
Lift handset or press SP-PHONE

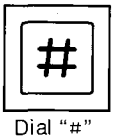


Dial "754"


Enter hour (01 through 12)


Enter minute (00 through 59)


Dial "0" or "1" "0":for AM "1":for PM



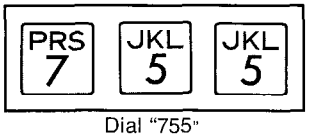
Dial "#"

Hang up or press SP-PHONE

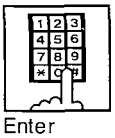
Message 5. "Out Until 10/23 "

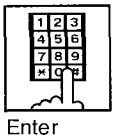
10/23 — month / day

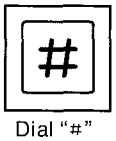
Lift handset or press SP-PHONE



Dial "755"


Enter month (01 though 12)


Enter day (01 though 31)

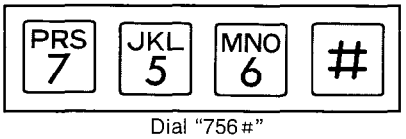


Dial "#"

Hang up or press SP-PHONE

Message 6. "In a Meeting"

Lift handset or press SP-PHONE

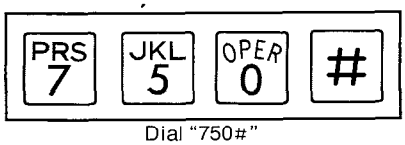


Dial "756#"

Hang up or press SP-PHONE

To cancel the message

Lift handset or press SP-PHONE



Dial "750#"

Hang up or press SP-PHONE

Description

Absent messages (Message 1 through 6) which are programmed can be informed to calling party. Programming can be done at any telephone (either proprietary telephones or standard telephones).
When a caller using the proprietary telephone with LCD dials the extension in which the message is programmed, it will be displayed on the LCD.

Operation

Setting

Message 1. "Will Return Soon"

1. Lift the handset or press the SP-PHONE button.
2. Dial (751#)
3. Hang up or press the SP-PHONE button.

Message 2. "Gone Home"

1. Lift the handset or press the SP-PHONE button.
2. Dial (752#)
3. Hang up or press the SP-PHONE button.

Message 3. "At Ext. 123"

1. Lift the handset or press the SP-PHONE button.
2. Dial (753)
3. Dial the extention number. (100 through 199)
4. Dial (#)
5. Hang up or press the SP-PHONE button.

Message 4. "Back at 10:23 AM"

1. Lift the handset or press the SP-PHONE button.
2. Dial (754)
3. Enter the hour (01 though 12)
4. Enter the minute (00 though 59)
5. Dial (0) or (1).
   Dial (0) for AM.
   Dial (1) for PM.
6. Dial (#)
7. Hang up or press the SP-PHONE button.

Message 5. "Out Until 10/23 "

1. Lift the handset or press the SP-PHONE button.
2. Dial (755)
3. Enter the month. (01 though 12)
4. Enter the day. (01 though 31)
5. Dial (#)
6. Hang up or press the SP-PHONE button.

Message 6. "In a Meeting"

1. Lift the handset or press the SP-PHONE button.
2. Dial (756#)
3. Hang up or press the SP-PHONE button.

■ Those Absent Messages will be displayed on the LCD of the calling party.

To cancel

1. Lift the handset or press the SP-PHONE button.
2. Dial (750#)
   "Message Cancel" will be displayed.
3. Hang up or press the SP-PHONE button.

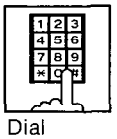
Conditions

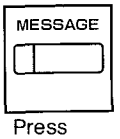
- When a calling party dials an extension that is programmed for absent Message by using the proprietary telephone with an LCD,if the extension is idle, a ring back tone will be heard and the absent message will be displayed on the LCD of the calling party. If the extension is busy, a busy tone will be heard and the absent message will be displayed on the LCD of he calling party. If the extension is set the do not disturb, a do not disturb tone will be heard and the absent massage will be displayed on the LCD of the calling party.

Message Waiting

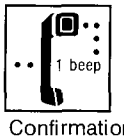
Setting (operator only)

Lift handset or press SP-PHONE


Dial extension number (100 Through 199)



Press MESSAGE

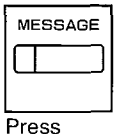


Confirmation tone

Hang up or press SP-PHONE

To call the operator from the extension where the message is left.

Lift handset or press SP-PHONE

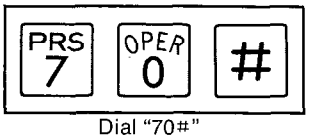


Press MESSAGE

Talk

To cancel the message at the extension where the message is left.

Lift handset or press SP-PHONE

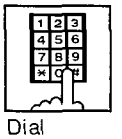


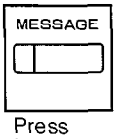
Dial "70#"

Hang up or press SP-PHONE

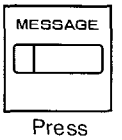
To cancel the message which is left at the extension from the operator.

Lift handset or press SP-PHONE

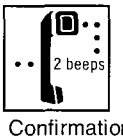

Dial extension number (100 Through 199)



Press MESSAGE



Press again



Confirmation tone

Hang up or press SP-PHONE

Description

If the intercom extension operator has dialed is busy or does not answer, operator can inform the called extension that there is a message which have to be informed. It will be indicated by the MESSAGE indicator.Only the operator can leave the message to each extension.

If the called extension is not provided with the MESSAGE button, the operator can not leave the message. To change the CO, or DSS button into the message waiting button, see page 4-55 or 4-58.

Operation

Setting

1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number (100 through 199).
3. Press the MESSAGE button.
   A confirmation tone (one beep) will be heard.
   The MESSAGE Indicator of the called party will be lit.
4. Hang up or press the SP-PHONE button.

To call the operator from the extension where the message is left.

1. Lift the handset or press the SP-PHONE button
2. Press the MESSAGE button.
   The MESSAGE Indicator will go out.
3. Start talking

To cancel the message at the extension where the message is left.

1. Lift the handset or press the SP-PHONE button
2. Dial (70#)
   The MESSAGE Indicator will go out.
3. Hang up or press the SP-PHONE button.

To cancel the message which is left at the extension from the operator.

1. Lift the handset or press the SP-PHONE button.
2. Dial the extension number (100 through 199).
3. Press the MESSAGE button.
4. Press the MESSAGE button, again.
   A confirmation tone (two beeps) will be heard.
   The MESSAGE Indicator of the called extension will go out.
5. Hang up or press the SP-PHONE button.

Conditions

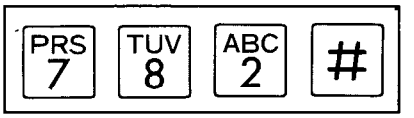
- This feature will not function with use of a standard telephone.
- Each extension can be received up to two messages.
- If the MESSAGE Indicator does not go out after calling the operator, it means that another message is left from another operator.

Flexible Night Service

(Extension jack number 01 only)

To enable night service: (To disable day service)

Lift handset or press SP-PHONE

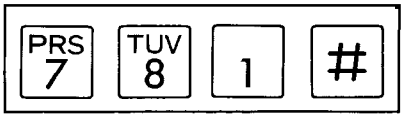


Dial "782#"

Hang up or press SP-PHONE

To disable night service: (To disable night service)

Lift handset or press SP-PHONE



Dial "781#"

Hang up or press SP-PHONE

Description

Normal system operation is set for day time mode. Night service allows for outward dialing and incoming ringing assignments etc. to be rearranged via programming.

Night service is enabled or disabled through extension jack number 01 using this feature, at any time.

Without activating this feature, the day/night services are automatically switched at predetermined time (9:00 AM and 5:00 PM for default time) by the internal clock if the "Switching of Service Mode" in Day/Night Service Mode is selected to the "AUTO" mode in the KX-T123210. Refer to "Switching of Service Mode" on page 3-12 and "Starting Time" on page 3-13 in Day/Night Service Mode.

The following features will be switched "Day Mode" or "Night Mode".

- "Day Mode" on page 3-47 and "Night Mode" on page 3-48 Flexible Outward Dialing Assignment.
- "Day Mode" on page 3-49 and "Night Mode" on page 3-51 Flexible Ringing Assignment.
- "Day Mode" on page 3-54 and "Night Mode" on page 3-57 CO Direct In Line Assignment.
- "Day Mode" on page 3-52 and "Night Mode" on page 3-53 Delayed Ringing Assignment.
- "Day Mode" on page 3-64 and "Night Mode" on page 3-66 Service Class Assignment of Toll Restriction.
- "Day Mode" on page 3-75 and "Night Mode" on page 3-76 Ringing Assignment from Doorphone.

Operation

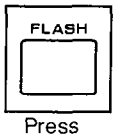
1. Lift the handset or press the SP-PHONE button of extension of jack number 01.
2. Dial (782#) and wait for a confirmation tone. Night service is enabled. "Night Mode" will be displayed.
3. To return to day service, dial (781#) and wait for a confirmation tone. "Day Mode" will be displayed.
4. Hang up or press the SP-PHONE button.

When the unit is not use, the present mode selected will be shown by pressing the "#" button.

External Feature Access

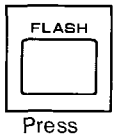
Call Waiting - Outside Line

Will hear a call waiting tone



Press FLASH

Consult with new caller while original call is on hold



Press FLASH

Consult with original caller while 2nd call is on hold

[If the calling party on hold hangs up, the line is terminated.]

Description

Allows an extension user to access features of the central office or host PBX. (example: call waiting feature can be supplied by central office.)
The external feature (e.g. call waiting feature) can only be accessed when engaged on an outside call.

Operation

The following example shows you one of the procedures.

Call Waiting - Outside Line

1. While having a conversation, another party calls and a call waiting tone is heard.

2. Press the FLASH button.
   - The original call is placed on hold and the new call can be answered.

3. Press the FLASH button again.
   - The original caller can be spoken to again and the new call is placed on hold.
   - If the calling party on hold hangs up, the line is terminated.

Condition

- "Flash" can be stored into memory in the same way as "Storage" on page 4-4.

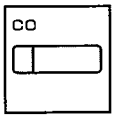
- You may access some features of host PBX using the Flash button. If KX-T123210 is connected to host PBX and flash operation is required, follow the procedure of flash operation which is required in the host PBX.

Account Code

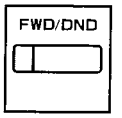
Forced Mode

Making a Call

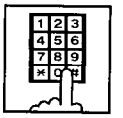
Lift handset or press SP-PHONE



Press CO

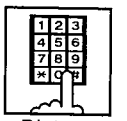


Press FWD/DND (F3)


Dial account code

[Account code is 4 digits.]

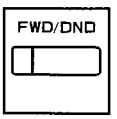
Wait for C.O. dial tone


Dial phone number

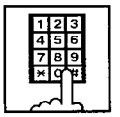
Receiving a Call

If you want to record a calling party's account code in the SMDR, follow the below - mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation,



Press FWD/DND (F3)


Dial account code

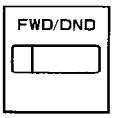
- Dialing the account code must be done before hanging up.

Option Mode

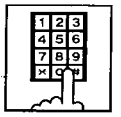
■ Making or Receiving a Call

If you want to record a calling or called party's account code in the SMDR, follow the below - mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation,



Press FWD/DND (F3)


Dial account code

[Account code is 4 digits.]

- Dialing the account code must be done before hanging up.

Description

This feature gives each message of the SMDR an account code of the called or calling party.

[Station Message Detail Recording (SMDR) is cost saving feature that records all incoming and outgoing calls through the CO line.]

This feature has two modes "Forced" and "Option".

In the "Forced" mode, the account code must be entered every time the extension user dials.

In the "Option" mode, the account code may be entered when a record of the account code is needed.

When setting to the "Forced" mode, see page 3-70.

The programmable feature (F3 only) button of the KX-T123250, KX-T61650 or KX-T30850 can also be used for "Account Code" if programming is done beforehand in the extension.

For programming, see page 4-60.

Operation

Forced mode

■ **Making a Call**

1. Lift the handset or press the SP-PHONE button.
2. Press the CO button.
   The FWD/DND Indicator will flash.
3. Press the FWD/DND (or F3) button.
   "Enter ACCNT Code" will be displayed.
   The FWD/DND Indicator will light.
   Intermittent tone is heard.
4. Dial the account code.
   Account code must be 4 digits.
   CO dial tone will be heard.
5. Dial the phone number.

- You may dial 9 or 81 through 88 instead of pressing the CO button.

■ **Receiving a call**

If you want to record a calling party's account code in the SMDR, follow the below-mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation,

The FWD/DND Indicator will flash.

1. Press the FWD/DND (or F3) button.
   "Enter ACCNT Code" will be displayed.
   The FWD/DND Indicator will light.
2. Dial the account code.
   Account code must be 4 digits.
   - Dialing the account code must be done before hanging up.

Option Mode

■ **Making or Receiving a Call**

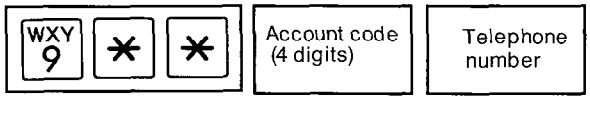
If you want to record a calling or called party's account code in the SMDR, follow the below-mentioned procedure.

Within 30 seconds of finishing your conversation or while having a conversation,

1. Press the FWD/DND (or F3) button.
   "Enter ACCNT Code" will be displayed.
   The FWD/DND Indicator will light.
2. Dial the account code.
   Account code must be 4 digits.
   - Dialing the account code must be done before hanging up.

Conditions

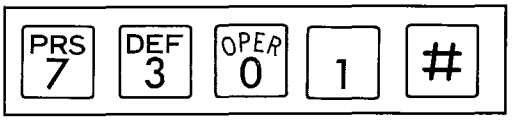
- Account code must be 4 numerical digits except for the "#" and "*" button.
- If you enter the wrong account code, press the FWD/DND button and enter the correct code.
- ■ If account codes are programmed with telephone numbers for one touch dialing or system speed dialing, you need not to dial an account code when making a call.
  Program as follows.



Data Line Security

Setting

Lift handset or press SP-PHONE

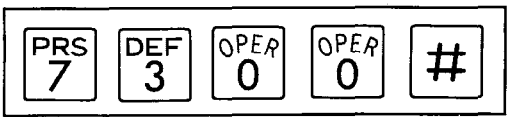


Dial "7301#"

Hang up or press SP-PHONE

To Cancel

Lift handset or press SP-PHONE



Dial "7300#"

Hang up or press SP-PHONE

Description

This feature provides security when transmitting data through an extension of the KX-T123210. Executive override, call waiting tone and hold time reminder tone from the KX-T123210 are prohibited in this mode.

Conditions

- The parallel connection of the proprietary telephone and a data terminal equipment is impossible.

Operation

Setting

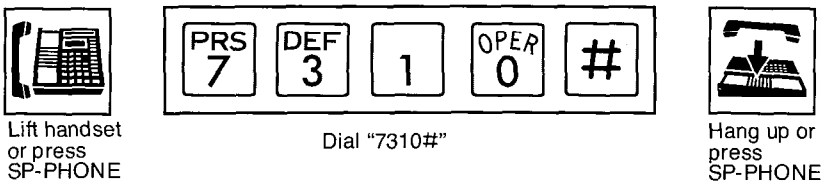
1. Lift the handset or press the SP-PHONE button.
2. Dial (7301#)
   "Data Mode On" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

To cancel

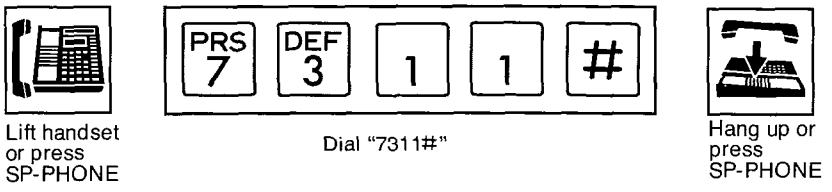
1. Lift the handset or press the SP-PHONE button.
2. Dial(7300#).
   "Data Mode Off" will displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

Call Waiting Tone — From CO / Extension Deny

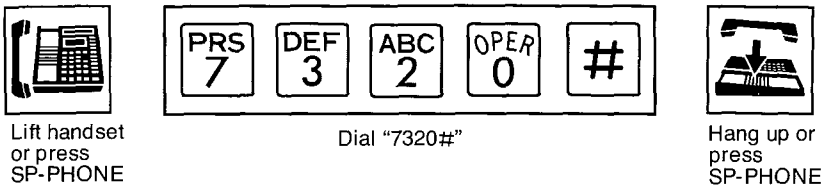
To deny CO call waiting tone



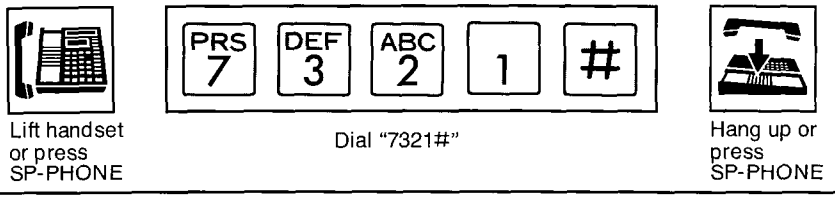
To allow CO call waiting tone



To deny extension call waiting tone



To allow extension call waiting tone



Description

During a conversation, a call waiting tone will be heard when a third party on an outside line or intercom calls you.Call waiting tone can be removed at customer's request.
Default is "Allow" mode.
Refer to "Call Waiting" on page 4-20.

Operation

To deny CO call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7310#).
   "CW (CO) Off" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

To allow CO call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7311#).
   "CW (CO) On" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

To deny extension call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7320#).
   "CW (EXT) Off" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

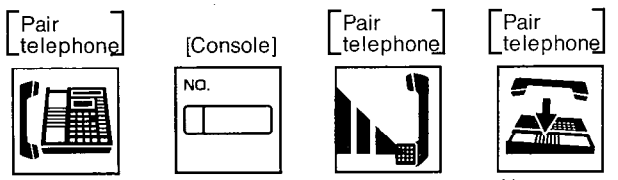
To allow extension call waiting tone

1. Lift the handset or press the SP-PHONE button.
2. Dial (7321#).
   "CW (EXT) On" will be displayed.
   A confirmation tone will be heard.
3. Hang up or press the SP-PHONE button.

DSS Console(KX-T123240 or KX-T61640)

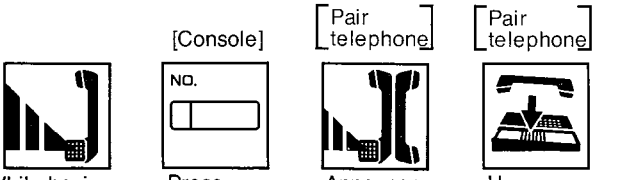
DSS(Direct Station Select)Button

Inter Office Calling(Intercom)



Lift handset or press SP-PHONE — Press DSS — Talk — Hang up or press SP-PHONE

Transfer of Outside Calls to any Extension



While having a conversation — Press DSS — Announce and wait for an answer — Hang up or press SP-PHONE

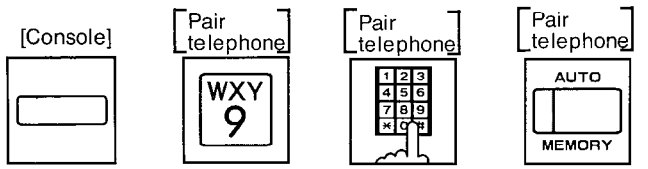
Programmable Feature Button

Programming

- Be sure the handset is in the cradle and the SP-PHONE button is OFF.
- Set the MEMORY switch of a pair telephone (Proprietary telephone) to "PROGRAM".

■Storage

One Touch Dialing



Press PROGRAMMABLE FEATURE — Dial "9" — Dial phone number — Press MEMORY

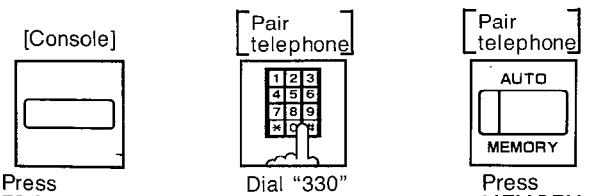
- You may dial 81 through 88 instead of 9.
  - 9 ..... The extension can automatically select an idle CO line.
  - 81 through 88 ... The extension can select a trunk group designated.

9 or 81 through 88 must be dialed for storage.

One Touch Access for System Features

Example:

Paging All Extensions (Dial 330).



Press PROGRAMMABLE FEATURE — Dial "330" — Press MEMORY

■To Correct an Error while Programming

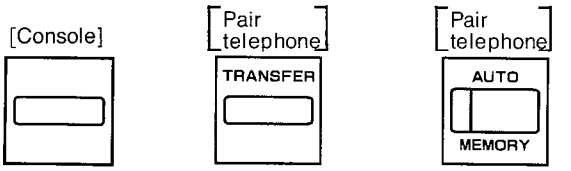
Press CLEAR(TRANSFER) instead of MEMORY

- After pressing the CLEAR button, reprogram the correct number.
- The TRANSFER button is used as the CLEAR button.

■To Change a Stored Number

Repeat "Storage" left side.

■To Erase after Programming

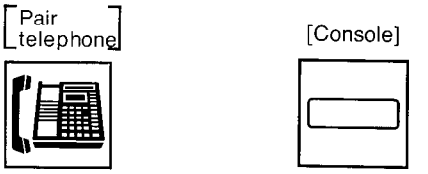


Press PROGRAMMABLE FEATURE — Press CLEAR (TRANSFER) — Press MEMORY

- The TRANSFER button is used as the CLEAR button.

After programming all the numbers,return the MEMORY switch to "SET".

Dialing



Lift handset or press SP-PHONE — Press PROGRAMMABLE FEATURE

Description

■ DSS (Direct Station Select) Button:
makes the dialing to the extensions very easy.
You can reach the extension party by simply pushing the DSS Button.

■ Programmable Feature Button:
let you access various features of KX-T123210 and speed dialing using the CO line in addition to the numbers programmed into the KX-T123210's memory.

Operation

DSS (Direct Station Select) Button

Inter office Calling (Intercom)

1. Lift the handset or press the SP-PHONE button of pair telephone.
2. Press the DSS button of Console.
3. Start talking.
4. Hang up or press the SP-PHONE button upon completion of the conversation.

Transfer of Outside Calls to any Extension

1. You are in conversation.
2. Press the DSS button (Console) to which the call is transferred.
3. Wait for Intercom party to answer and announce call, then replace the handset or press the SP-PHONE button.

Programmable Feature Button

Programming

- Be sure the handset is in the cradle and the SP-PHONE button is OFF.
- Set the MEMORY switch of a pair telephone (Proprietary telephone) to "PROGRAM".

One Touch Dialing

1. Press a programmable feature button of Console.
2. Enter the line access number.
   9:automatic line access number.
   81: access number of trunk group 1
   ⋮
   88: access number of trunk group 8
3. Enter the phone number.
4. Press the MEMORY button.
5. Repeat steps 1 to 4, to program on other programmable feature button.

■ **To Confirm a Stored Number**

Repeat programming the same number into the same station.

When the MEMORY button is pressed, a beep will be heard.

- two beeps ··· The entry is the same as what was previously stored.
- one beep ··· The entry is different from the one that was previously stored. Repeat the procedure of programming.

One Touch Access for System Features

Example:

Paging All Extensions (Dial 330)

1. Press a programmable feature button of Console.
2. Dial (330).
3. Press the MEMORY button of pair telephone.

After programming all the numbers, return the MEMORY switch to "SET".

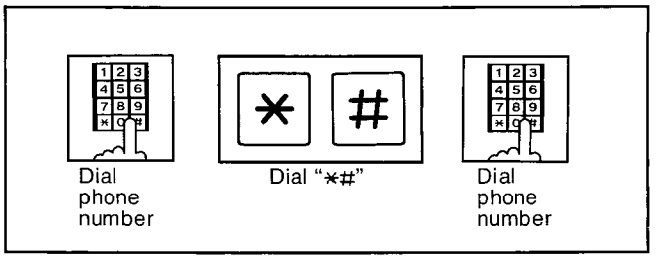
Dialing

1. Lift the handset or press the SP-PHONE button of pair telephone.
2. Press the programmable feature button of Console.

Conditions

Refer to "One Touch Dialing" page 4-4 and "One Touch Access for System Features" page 4-48.

Pulse/Tone Conversion



Description

When the dialing mode is required to change a pulse mode to a tone mode in one dialing sequence, this feature is used.
(e.g.computer-accessed long distance service)

Operation

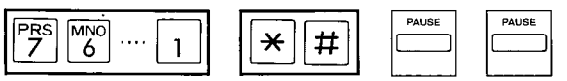
1. Dial the phone number. (pulse mode)
2. Dial (*#)
3. Dial the phone number. (tone mode)

Conditions

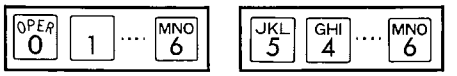
- When you dial using this feature,you must use the line set to a pulse mode.
  Phone number after dialing "* # " will change to tone mode.

Example:Computer - accessed long distance service

- Local access telephone number of the alternate long distance service company
  765 - 4321,
  Authorization no.0123456.
  Long distance no. 543 - 210 - 9876
- Pulse mode is required by local access telephone number of the alternate long distance service company.
- Service of MCI, SPRINT, METRO or other systems is used.

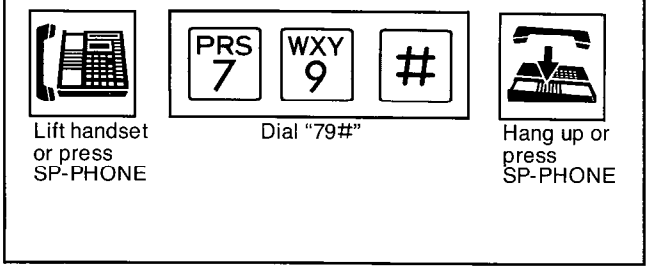


Long distance service company no.



Authorization no. Long distance no.

Station Feature Clear



Description

Dialing (79#) will reset the following station features on an extension to the default data.

Absent Message Capability
Call Forwarding
Data Line Security
Dial Call Pickup Deny
Do Not Disturb
Call Waiting Tone Deny
Background Music
Executive Override Deny
Message Waiting

Operation

1. Lift the handset or press the SP-PHONE button.
2. Dial (79#) and wait for a confirmation tone. "Ext Data Clear" will be displayed.
3. Hang up or press the SP-PHONE button.

Busy Lamp Field

Description

Lamp indicators corresponding to the status of the CO (Central Office), the ICM (Intercom) and DSS (Direct Station Selection) buttons.

Explanation

- ICM indicator light

Light	Status
off	idle
on	● in use for intercom ● in use for CO line to which the CO line number is not assigned.
slow flashing	on hold
flashing in groups of 2	on exclusive hold
quick flashing	● receiving an incoming intercom call

- Indicator of CO button which has been changed into DSS button.

Light	Status (another extension)
off	idle
on (red color)	in use

- CO indicator light

Light	Status
off	idle
on (green color)	in use
slow flashing (green color)	on hold
slow flashing in groups of 2 (green color)	on exclusive hold
quick flashing (green color)	privacy release
on (red color)	in use at another extension
slow flashing (red color)	on hold at another extension
quick flashing (red color)	receiving an incoming outside call

- DSS Console (KX-T123240, KX-T61640) indicator light

Light	Status
off	idle
on	in use
flashing in groups of 2	in setting Do Not Disturb
slow flashing	in setting Call Forwarding

Power Failure Transfer

Description

In the event of a power failure each CO will be connected to assigned extension.

CO1 will be assigned to extension of jack number 01.
CO2 will be assigned to extension of jack number 02.
CO5 will be assigned to extension of jack number 09.
CO6 will be assigned to extension of jack number 10.
CO9 will be assigned to extension of jack number 17.
CO10 will be assigned to extension of jack number 18.

Operation

- If extension of jack number 01, 02, 09, 10, 17 and 18 is connected with a KX-T123230, KX-T61631, KX-T61630 or KX-T30830, the Power failure switch on the KX-T123230, KX-T61631, KX-T61630 or KX-T30830 must be set to the "ON" position.If dialing cannot be done, set the Dialing mode switch to other position (TONE or PULSE).

Conditions

- During power failure, all features are lost except for incoming and outgoing CO calls from extensions of jack number 01, 02, 09, 10, 17 and 18.

- If extensions of jack number 01, 02, 09, 10, 17 and 18 are connected with a KX-T123220, KX-T123250, KX-T61620, KX-T61650, KX-T30820 or KX-T30850, disconnect the KX-T123220, KX-T123250, KX-T61620, KX-T61650, KX-T30820 or KX-T30850 and connect a KX-T123230, KX-T61631, KX-T61630, KX-T30830 or a standard telephone.

- There is no memory loss except for the camp-on, saved number redial, the last number redial, Call park and Message Waiting during power failure, memory is protected by 21 day rechargeable battery.
  Rechargeable battery is good for 5 years.

- Automobile type batteries which are customer supplied is available as a back up power supply to the KX-T123210 to operate all the features in the event of power failure. Refer to page 2-17.

  Automobile type batteries
  [Consisting of two 12 VDC (24 VDC)
  L 16 amp / hour maximum rating]

Duration Time of Call Display

Description

The elapsed time (from dialing to replacing the handset) on originating an outside call will be displayed.

Operation

None

Conditions

- When intercom calls, the duration time of conversation is not displayed.

- Refer to "Duration Time Count Start Mode" on page 3-40.

Lockout

Description

If a handset remains off hook or is disconnected at the other end, a reorder tone will be heard. When "Calling Party Control (CPC) Signal" mode is set to "Disable", the reorder tone will not be heard. (see page 3-61)

Operation

None

Conditions

- The party whose handset remains off- hook will hear a reorder tone to indicate that the call is disconnected.

Mixed Station Dialing

Description

Any telephone instrument, whether (KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630, KX-T61620, KX-T61650, KX-T30820, KX-T30830, KX-T30850 for exclusive use), standard rotary phone (10 pps, 20pps), or standard touch tone phone, may be used as an extension of the KX-T123210.

Operation

None

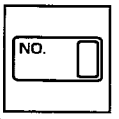
One Touch Access for System Features

To Program

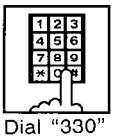
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Example:

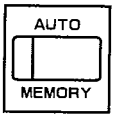
Paging All Extensions (Dial 330).



Press PROGRAMMABLE FEATURE



Dial "330"

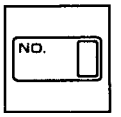


Press MEMORY

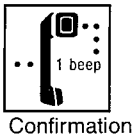
After programming all the system features, return the MEMORY switch to the **"SET"** position.

To Access

Lift handset or press SP-PHONE



Press PROGRAMMABLE FEATURE



Confirmation tone of 1 beep will be heard

Page

Description

Features that can be accessed by using the dialing button also can be programmed into memory.
(e.g. Paging All Extensions.)

Operation

To Program

Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.
"PITS-PGM NO ?→" will be displayed.

Example:

Paging All Extensions (Dial 330).

1. Press the PROGRAMMABLE FEATURE button.
2. Dial (330).
3. Press MEMORY button.

- System feature described in the table on page 6-5 can be programmed into memory.
  After programming all the numbers, return the MEMORY switch to the **"SET"** position.

To Access

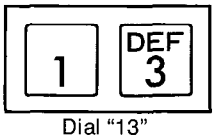
1. Lift the handset or press the "SP-PHONE" button.
2. Press the PROGRAMMABLE FEATURE button and wait for confirmation tone (one beep).
3. Start paging.

Auto CO Hunting

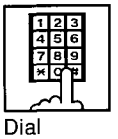
Prime Line Preference-Outgoing

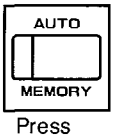
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting



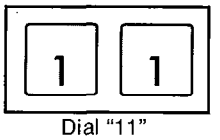
Dial "13"


Dial
CO number
(01 through 12)

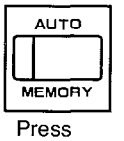


Press
MEMORY

To cancel



Dial "11"



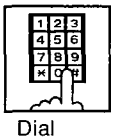
Press
MEMORY

- After programming "Prime Line Preference-Outgoing" mode, return the MEMORY switch to the **"SET"** position.

Dialing through CO line

Lift handset
or press
SP-PHONE

Wait for
CO. dial tone


Dial
phone
number

Description

You can access the prime CO line directly by picking up the handset or pressing the SP-PHONE button.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting

1. Dial (13).
   "Pref. Out : CO-" will be displayed.
2. Dial the CO number (01 through 12).
3. Press the MEMORY button.

To cancel

1. Dial (11).
   "Pref. Out : No" will be displayed.
2. Press the MEMORY button.

- After programming, return the MEMORY switch to the **"SET"** position.

Dialing through CO line

1. Lift the handset or press the SP-PHONE button.
   The CO indicator will be lit green.
   Dial tone from CO will be heard.
2. Dial the phone number.
   - When you access an extension in the Auto CO Hunting mode, press the ICM button and then dial the extension number.

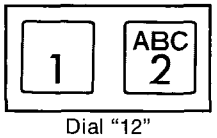
Conditions

This feature will not function with use of a standard telephone.

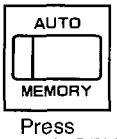
Idle Line Preference-Outgoing

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting

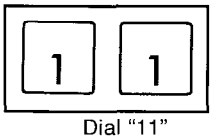


Dial "12"

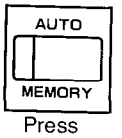


Press MEMORY

To cancel



Dial "11"



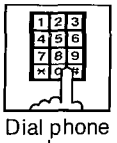
Press MEMORY

- After programming "Idle Line Preference-Outgoing" mode, return the MEMORY switch to the **"SET"** position.

Dialing through CO line

Lift handset or press SP-PHONE

Wait for CO. dial tone



Dial phone number

Description

You can access any CO line which is not in use directly by picking up the handset or pressing the SP-PHONE button.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting

1. Dial (12).
   "Pref. Out : Idle" will be displayed.
2. Press the MEMORY button.

To cancel

1. Dial (11).
   "Pref. Out : No" will be displayed.
2. Press the MEMORY button.

- After programming, return the MEMORY switch to the **"SET"** position.

Dialing through CO line

1. Lift the handset or press the SP-PHONE button.
   The CO indicator will be lit green.
   Dial tone from CO will be heard.
2. Dial the phone number.
   - When you access an extension in the Auto CO Hunting mode, press the ICM button and then dial the extension number.

Conditions

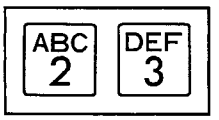
This feature will not function with use of a standard telephone.

Automatic Answering Selection

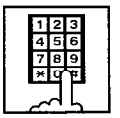
Prime Line Preference-Incoming

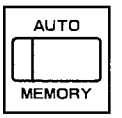
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting



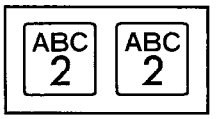
Dial "23"


Dial
CO number
(01 through 12)

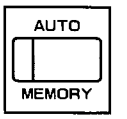


Press
MEMORY

To cancel



Dial "22"



Press
MEMORY

- After programming "Prime Line Preference-Incoming" mode, return the MEMORY switch to the **"SET"** position.

To answer

Lift handset
or press
SP-PHONE

Description

When incoming calls from the Central Office are received at the same time, you can receive the call on the preferred CO line first by only lifting the handset or pressing the SP-PHONE button.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting

1. Dial (23).
   "Pref. In : CO-" will be displayed.
2. Dial the CO number (01 through 12).
3. Press the MEMORY button.

To cancel

1. Dial (22).
   "Pref. In : Ring" will be displayed.
2. Press the MEMORY button.

- After programming, return the MEMORY switch to the **"SET"** position.

To answer

Lift the handset or press the SP-PHONE button.

- If any incoming calls from the Central Office are received at the same time except for the preferred CO line, you must lift the handset or press the SP-PHONE button and then press the CO button whose indicator is quickly flashing (red color).

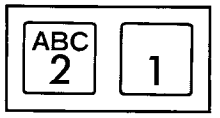
Conditions

This feature will not function with use of a standard telephone.

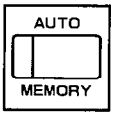
No Line Preference-Incoming

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting

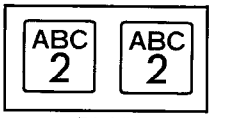


Dial "21"

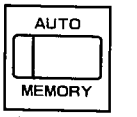


Press MEMORY

To cancel



Dial "22"

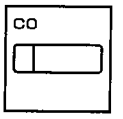


Press MEMORY

- After programming "No Line Preference-Incoming", return the MEMORY switch to the **"SET"** position.

To answer

Lift handset or press SP-PHONE



Press CO whose indicator is quickly flashing

Description

If programmed for the No Line Preference-Incoming mode, the extension user must lift the handset or press the SP-PHONE button and then press the flashing CO button.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting

1. Dial (21).
   "Pref. In : No" will be displayed.
2. Press the MEMORY button.

To cancel

1. Dial (22).
   "Pref. In : Ring" will be displayed.
2. Press the MEMORY button.

- After programming, return the MEMORY switch to the **"SET"** position.

To answer

1. Lift the handset or press the SP-PHONE button.
2. Press the CO button whose indicator is quickly flashing.

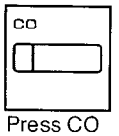
Conditions

This feature will not function with use of a standard telephone.

Flexible CO Button

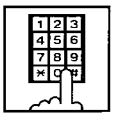
To Change into Other CO Number

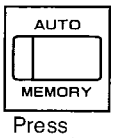
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.



Press CO which you want to change into different CO number

Dial "0"


Dial CO number which is set newly (01 through 12)



Press MEMORY

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

Description

Allows each CO button to change into CO number which is different from printed CO number.

Operation

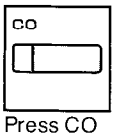
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

1. Press CO button which you want to change into different CO number.
   When pressing CO 1 button,
   "CO-01" will be displayed.
2. Dial (0).
   "CO- " will be displayed.
3. Dial the CO number which is set newly (01 through 12).
   When dialing (02),
   "CO-02" will be displayed.
4. Press the MEMORY button.

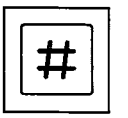
- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

To Assign into Trunk Group Access Number

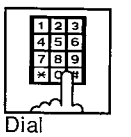
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

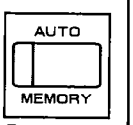


Press CO which you want to change into trunk group number



Dial "#"


Dial trunk group number (1 through 8)



Press MEMORY

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

Description

Allows each CO button to change into the trunk group access number (81 through 88).

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

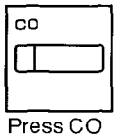
1. Press the CO button which you want to change into trunk group access number.
2. Dial (#).
3. Dial the trunk group number (1 through 8).
4. Press the MEMORY button.

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

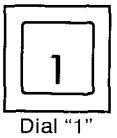
To Change into DSS Button

Setting

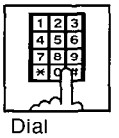
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

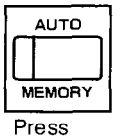


Press CO which you want to change into DSS button



Dial "1"


Dial extension number (100 through199)

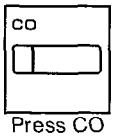


Press MEMORY

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

Dialing (Inter Office Calling)

Lift handset or press SP-PHONE



Press CO which has been changed into DSS

Description

Allows each CO button to change into the DSS (Direct Station Selection) button.
DSS button can be used instead of dialing a extension number.

Operation

Setting

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

1. Press the CO button which you want to change into DSS button.
   When pressing CO 1 button, "CO-01" will be displayed.
2. Dial (1).
   "EXT- " will be displayed.
3. Dial the extension number (100 through 199).
   When dialing (120), "EXT-120" will be displayed.
4. Press the MEMORY button.

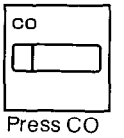
- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

Dialing (Inter Office Calling)

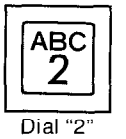
1. Lift the handset or press the SP-PHONE button.
2. Press the CO button which has been changed into DSS.

To Change into One Touch Dialing Button

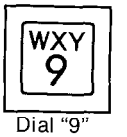
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.



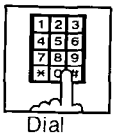
Press CO which you want to change into one touch dialing

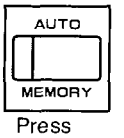


Dial "2"



Dial "9"


Dial phone number



Press MEMORY

- You may dial 81 through 88 instead of 9.

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

Description

Allows each CO button to change into the one touch dialing button.
Up to 16 digits can be stored into each of the 12 CO buttons.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

1. Press the CO button which you want to change into one touch dialing .
   When pressing CO 1 button, "CO-01" will be displayed.
2. Dial (2).
3. Dial (9).

- You may dial 81 through 88 instead of 9.
  9··· Each extension can automatically select an idle CO line.
  81 through 88··· Each extension can select a trunk group designated.

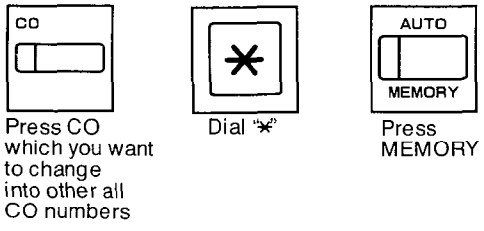
4. Dial the phone number.
5. Press the MEMORY button.

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.
- For dialing, refer to "One Touch Dialing" on page 4-4.

Flexible CO Button (cont)

To Change into Other All CO Numbers

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.



Press CO which you want to change into other all CO numbers. Dial "*". Press MEMORY.

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

Description

Allows CO button to change into all CO numbers which are not assigned to CO button.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

1. Press the CO button which you want to change into other all CO numbers.
   When pressing CO 1 button, "CO-01" will be displayed.
2. Dial (*).
   "Other CO key" will be displayed.
3. Press the MEMORY button.

- After programming all CO buttons, return the MEMORY switch to the **"SET"** position.

To Change into Message Waiting Button

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Press CO 1. Dial "3". Press MEMORY.

- After programming CO 1 button, return the MEMORY switch to the **"SET"** position.

Description

Allows only CO 1 button to change into the message waiting button except the KX-T123230, KX-T123220, KX-T123250 and KX-T30830.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

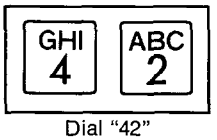
1. Press CO 1 button.
2. Dial (3).
3. Press the MEMORY button.

- After programming CO 1 button, return the MEMORY switch to the **"SET"** position.
- For operation, refer to "Message Waiting" on page 4-36.

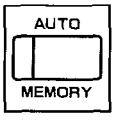
Intercom Voice Alerting Mode

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting (Voice Alerting Mode)

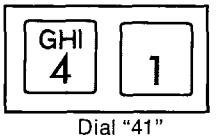


Dial "42"

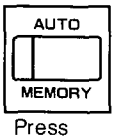


Press MEMORY

To cancel (Setting Tone Alerting Mode)



Dial "41"



Press MEMORY

- After programming "Intercom Voice Alerting Mode", return the MEMORY switch to the **"SET"** position.

To answer

When an intercom call reaches

Voice alerting is heard

Lift handset or press SP-PHONE

Talk

Description

The intercom alerting mode (tone/voice) at a receiving extension can be selected through programming.

VOICE··· Voice alerting instead of Tone alerting is heard through the speaker on the receiving extension.

TONE ··· Tone alerting (ringing) sound at the receiving extension.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Setting (Voice Alerting Mode)

1. Dial (42).
   "Voice Call" will be displayed.
2. Press the MEMORY button.

To cancel (Setting Tone Alerting Mode)

1. Dial (41).
   "Tone Call" will be displayed.
2. Press the MEMORY button.

- After programming, return the MEMORY switch to the **"SET"** position.

To answer

1. When an intercom call reaches, voice alerting is heard.
2. Lift the handset or press the SP-PHONE button.
3. Start talking.

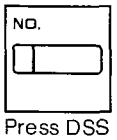
Conditions

This feature will not function with use of a standard telephone.

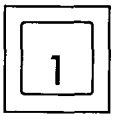
Flexible DSS Button

To Change into Other DSS Number

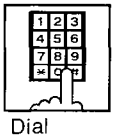
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to **"PROGRAM"**.

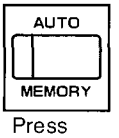


Press DSS which you want to change into different extension number



Dial "1"


Dial extension number which is set newly (100 through 199)



Press MEMORY

- After programming all DSS buttons, return the MEMORY switch to the **"SET"** position.

Description

Allows each DSS button to change into extension number which is different from default extension number.
KX-T30830, KX-T123240 or KX-T61640 only is available.

Operation

Setting

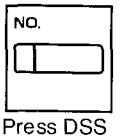
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to **"PROGRAM"**.

1. Press DSS button which you want to change into different extension number.
2. Dial (1).
3. Dial the extension number which is set newly (100 through 199).
4. Press the MEMORY button.

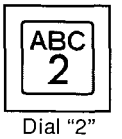
- After programming all DSS buttons, return the MEMORY switch to the **"SET"** position.

To Change into One Touch Dialing Button

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to **"PROGRAM"**.

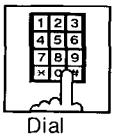


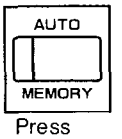
Press DSS which you want to change into one touch dialing



Dial "2"

Dial "9"


Dial phone number



Press MEMORY

- You may dial 81 through 88 instead of 9.

- After programming all DSS buttons, return the MEMORY switch to the **"SET"** position.

Description

Allows each DSS button to change into the one touch dialing button.
Up to 16 digits KX-T30830, KX-T123240 or KX-T61640 only is available.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone paired with the DSS console or KX-T30830 to **"PROGRAM"**.

1. Press the DSS button which you want to change into one touch dialing.
2. Dial (2).
3. Dial (9).

- You may dial 81 through 88 instead of 9.
  9··· Each extension can automatically select an idle CO line.
  81 through 88··· Each extension can select a trunk group designated.

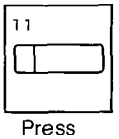
4. Dial the phone number.
5. Press the MEMORY button.

- After programming all DSS buttons, return the MEMORY switch to the **"SET"** position.
- For dialing, refer to "One Touch Dialing" on page 4-4.

Flexible DSS Button (cont.)

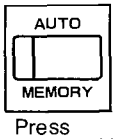
To Change into Message Waiting Button

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the KX-T30830 to **"PROGRAM"**.



Press DSS 11

Dial "3"



Press MEMORY

- After programming DSS 11 button, return the MEMORY switch to the **"SET"** position.

Description

Allows only DSS 11 button of the KX-T30830 to change into the message waiting button.
The KX-T30830 only is available.

Operation

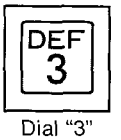
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the KX-T30830 to **"PROGRAM"**.

1. Press the DSS 11 button of the KX-T30830.
2. Dial (3).
3. Press the MEMORY button.

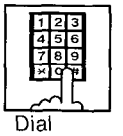
- After programming DSS 11 button, return the MEMORY switch to the **"SET"** position.
- For operation, refer to "Message Waiting" on page 4-36.

CO Line Ringing Selection

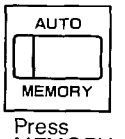
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.



Dial "3"



Dial CO numbers which you want to ring (01 through 12)



Press MEMORY

- After programming "CO Line Ringing Selection",return the MEMORY switch to the **"SET"** position.

Description

Through programming the CO numbers, you can select whether the extension ring or not when an outside call reaches through the CO line.
Program the CO numbers which you want to ring. "Flexible Ringing Assignment" on page 3-49 should be set to "Enable".

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

1. Dial (3).
2. Dial the CO numbers want to ring (01 through 12).
3. Press the MEMORY button.

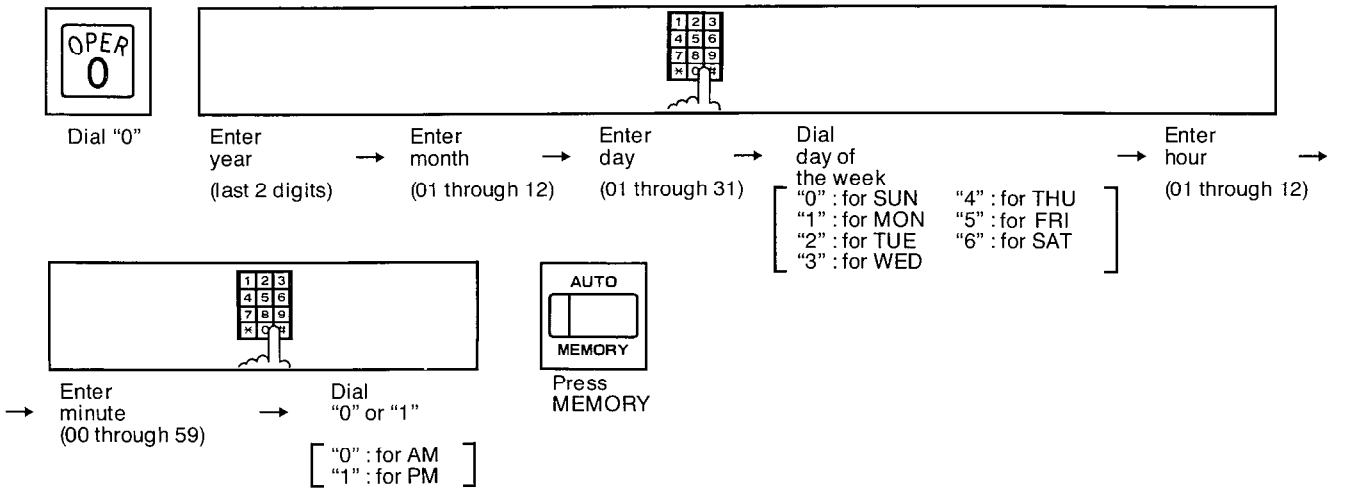
- After programming "CO Line Ringing Selection", return the MEMORY switch to the **"SET"** position.

Conditions

- As all programmed CO numbers are not displayed, press the "→" (FWD/DND) or ← (CONF) button for scrolling the Display.
- When an outside call reaches through the CO line not to ring, the CO indicator will flash. If you want to answer the outside call, press the flashing CO button.

Date and Time Setting (extension of jack number 01 only)

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM".**



After setting "Date and Time Setting", return the MEMORY switch to the **"SET"** position.

Description

When the present time is out of order, you can adjust by following procedure.

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the KX-T123230 to **"PROGRAM".**

1. Dial (0).
2. Enter the year (last 2 digits).
3. Enter the month with 2 digits (01 through 12).
4. Enter the day with 2 digits (01 through 31).
5. Dial the day of the week (0 through 6).
   - 0 : for Sunday
   - 1 : for Monday
   - 2 : for Tuesday
   - 3 : for Wednesday
   - 4 : for Thursday
   - 5 : for Friday
   - 6 : for Saturday

6. Enter the hour with 2 digits (01 through 12).
7. Enter the minute (00 through 59).
8. Dial the "0" or "1".
   - 0 : for AM
   - 1 : for PM

9. Press the MEMORY button.

- After setting, return the MEMORY switch to the **"SET"**position.

Station Number Check

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

Dial "6"

- The LCD will show your extension number and jack number.
- After confirming, return the MEMORY switch to the **"SET"** position.

Description

You can confirm your extension number and jack number by the LCD .

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to **"PROGRAM"**.

1. Dial (6)

- The LC Display will show your extension number and jack number.
- After confirming, return the MEMORY switch to the **"SET"** position.

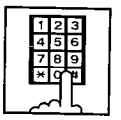
Conditions

- This feature can be used only by proprietary telephone equipped with an LCD.

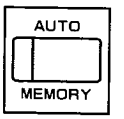
F3-One Touch Button Mode Selection (for KX-T30850, KX-T61650, KX-T123250)

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone (KX-T123250, KX-T61650 or KX-T30850) to **"PROGRAM"**.

Dial "7"



Dial "1" or "2"



Press MEMORY

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

- After programming the F3 button, return the MEMORY switch to the **"SET"** position

Description

3 programmable feature (F1, F2, F3) buttons are provided with the proprietary telephones, KX-T123250, KX-T61650 and KX-T30850, and only "F3" button can be changed from programmable feature button to call forwarding (see page 4-26 for operation)/do not disturb (see page 4-30)/account code (see page 4-39) button.

dial 1 mode .....
programmable feature function
dial 2 mode .....
call forwarding / do not disturb / account code function

Programming

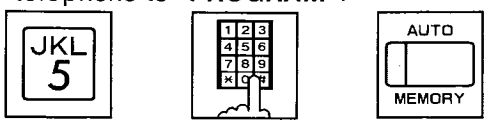
- Be sure the handset is in the cradle and the SP-PHONE button is OFF.
- Set the MEMORY switch of the proprietary telephone (KX-T123250, KX-T61650 or KX-T30850) to **"PROGRAM"**.

1. Dial (7).
2. Dial (1) for programmable feature function or dial (2) for call forwarding /do not disturb/account code function.
3. Press the MEMORY button.

- After programming the F3 button, return the MEMORY Switch to the **"SET"** position.

Call Waiting Tone Selection

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "**PROGRAM**".



Dial "5" | Dial "1" or "2" | Press MEMORY

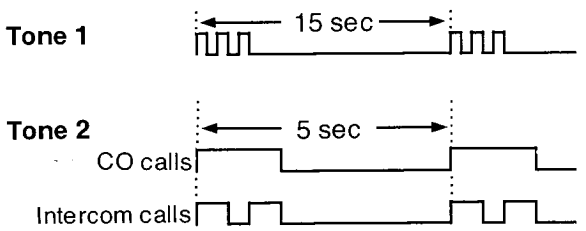
["1" : for Tone 1
"2" : for Tone 2]

- After programming the "Call Waiting Tone Selection", return the MEMORY switch to the "**SET**" position.

Description

You can change the call waiting tone from Tone 1 to Tone 2 shown below to prevent the user from missing the tone.

Tone 2 feature will not function for a standard telephone.



Operation

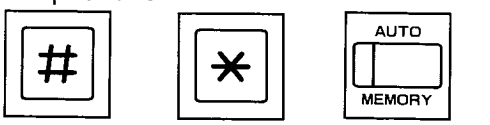
- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "**PROGRAM**".

1. Dial (5).
2. Dial "1" or "2".
   "1" : for Call Waiting Tone 1.
   "2" : for Call Waiting Tone 2.
3. Press the MEMORY button.

- After programming, return the MEMORY switch to the "**SET**" position.

Station Program Clear

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "**PROGRAM**".



Dial "#" | Dial "*" | Press MEMORY

- After clearing, return the MEMORY switch to the "**SET**" position.

Description

- Pressing (# * MEMORY) will reset station programs on an extension to the default data.
  - Auto CO Hunting
    Prime Line Preference-Outgoing
    Idle Line Preference-Outgoing
  - Automatic Answering Selection
    Prime Line Preference-Incoming
    No Line Preference-Incoming
  - Intercom Voice Alerting Mode
  - CO Line Ringing Selection
  - Call Waiting Tone Selection
  - F3-One Touch Button Mode Selection

Operation

- Be sure the handset is in the cradle and the SP-PHONE button is off.
- Set the MEMORY switch of the proprietary telephone to "**PROGRAM**".

1. Dial (#).
2. Dial (*).
3. Press the MEMORY button.

- After clearing, return the MEMORY switch to the "**SET**" position.

OPERATION FOR A STANDARD TELEPHONE (rotary and touch tone phones)

Making Calls

Inter Office Calling (Intercom) (see page 4-1)

Description

Station to station dialing within the KX-T123210 system.

Operation

Lift handset

Dial extension number (100 through 199)

Outward Dialing (see page 4-2)

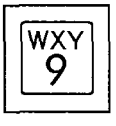
Automatic Line Access

Description

Each extension can automatically select an idle CO (Central Office) line within the KX-T123210.

Operation

Lift handset



Dial "9"

Wait for C.O. dial tone

Dial phone number

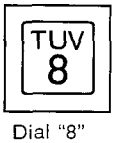
Individual Trunk Group Access

Description

Each extension can automatically select an idle CO line within the same trunk group. Through programming, 12 CO lines can be divided up to 8 groups. See the page 3-46.

Operation

Lift handset



Dial "8"

Dial trunk group number (1 through 8)

Wait for C.O. dial tone

Dial phone number

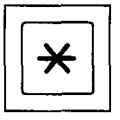
Speed Dialing (see page 4-3)

Description

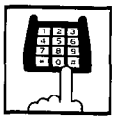
There are 100 memory locations of system speed dialing available.

Operation

Lift handset



Dial "*"


Dial speed access code (00 through 99)

- There is no need to access a CO line.
- A rotary phone will not function for speed dialing.
- Continuous use of speed dialing is impossible.

Calling Doorphone (see page 4-6)

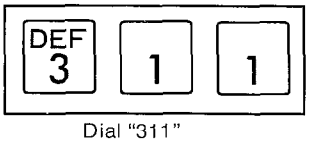
Description

Up to two doorphones (KX-T30865) can be connected to the KX-T123210.

Operation

Doorphone 1

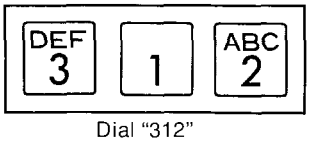
Lift handset



Dial "311"

Doorphone 2

Lift handset



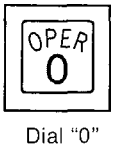
Dial "312"

Operator Call (see page 4-6)

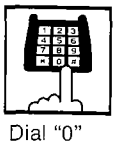
Description

You can call the operator within the KX-T123210 system.
This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-9.

Lift handset



Dial "0"


Dial "0" or "1"

"0": for Operator 1
"1": for Operator 2

- In case one operator is programmed, you have only to dial 0.

When a Line is Busy

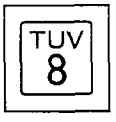
Automatic Call Back Busy
(Camp-on) (see page 4-7)

Description

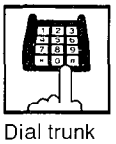
If the intercom extension or the outside line (CO line) you have dialed is busy, you will be automatically called back when the extension or the outside line becomes free using this function.
This feature is also known as camp-on.

Operation

For Outside Calls

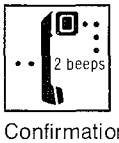


Dial "8"


Dial trunk group number (1 through 8)

You will Hear a busy tone

Dial "6"



Confirmation tone

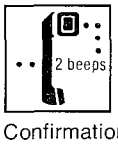
Hang up

For Intercom Calls

Dial extension number (100 through 199)

You will hear a busy tone

Dial "6"



Confirmation tone

Hang up

When hearing a ring back

Lift handset

- When using an intercom call, you will hear a ring back tone.
- When using an outside call, you will hear the dial tone from the CO.

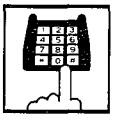
- A call back busy cannot be activated on an extension which has a call on hold.

Busy Station Signaling
(see page 4-8)

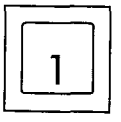
Description

If the extension you have dialed is busy, you can inform the extension that another intercom call is reaching by three beeps.

Operation


Dial extension number (100 through 199)

You will hear a busy tone



Dial "1" and wait for an answer

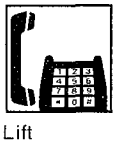
- To answer your signal, see "Call Waiting" on page 5-5.
- While the other party is set for "Call Waiting Tone-From Extension Deny" on page 5-15 or is using a data terminal equipment, you may not be able to use this feature. (A reorder tone is heard after dialing 1.)

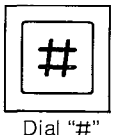
Last Number Redial
(see page 4-8)

Description

The last phone number dialed on an outside line (CO line) can be redialed.

Operation


Lift handset



Dial "#"

- You may dial "80" instead of pressing the "#" button.

When a Line is Busy (cont.)

Executive Override (Barge-In) (see page 4-9)

Description

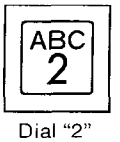
Allows an extension user to intrude into another extension that is in conversation with an outside or inside party.
This feature is required to be set beforehand in the KX-T123210.
For programming see page 3-73 .

Operation

Lift handset

Dial extension number (100 through 199)

You will hear a busy tone



Dial "2"

[A 3-party Conference is now established]

- If the other party is using data equipment or is set for "Executive Override Deny" on page 5-15, you can not intrude into the other party that is in conversation.
(A reorder tone is heard after dialing 2.)

Receiving Calls

Answer (see page 4-10)

Operation

Lift handset

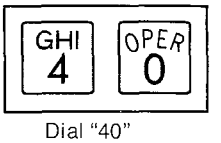
Dial Call Pickup (see page 4-11)

Description

An extension user can answer any ringing extension within their own extension group.

Operation

Lift handset



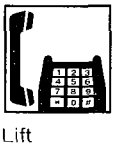
Dial "40"

Directed Call Pickup (see page 4-11)

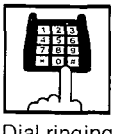
Description

An extension may answer an incoming call that is ringing at another extension regardless of the extension group.

Operation


Lift handset

Dial "4"


Dial ringing extension number (100 through 199)

Receiving Calls (cont.)

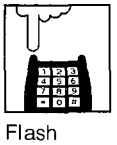
Call Park (see page 4-12)

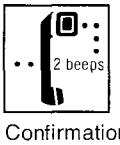
Description

Extension user can place up to ten calls in the park zones.
Allows any extension user to retrieve a parked call (intercom or outside) at any extension.

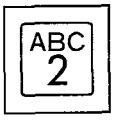
Operation

To Park a Call


Flash hookswitch

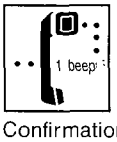


Confirmation tone



Dial "2"

Dial parking station number (20 through 29)



Confirmation tone

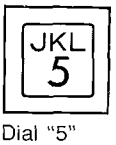
Hang up

- If a busy tone is heard after the parking station number is dialed, dial only last 1 digit of the other parking station number (0 through 9).
- Do not depress the hookswitch for more than one second, or party will be disconnected.

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the party will be disconnected.

To Retrieve a Parked Call at Any Other Extension

Lift handset



Dial "5"

Dial parking station number (20 through 29)

Doorphone (see page 4-13)

Operation

Lift handset

- This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-75.

While Having a Conversation

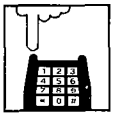
Call on Hold (see page 4-14)

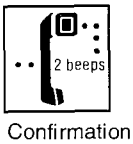
Description

If you wish to leave your phone unattended but want the caller you are in conversation with to wait, call on hold may be used.
Intercom or outside calls may be placed on hold.

Operation

To Place a Call on Hold


Flash hookswitch

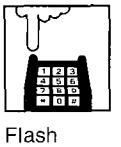


Confirmation tone of 2 beeps will be heard

- Do not depress the hookswitch for more than one second, or the party will be disconnected.

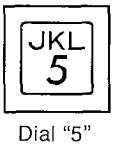
When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch. If the number except "20" is dialed, the party will be disconnected.

To Cancel


Flash hookswitch

To Retrieve a Call on Hold from Another Extension

Lift handset



Dial "5"

Dial holding extension number (100 through 199)

- In case held call is outside call, you may dial "53" and then held CO line number (01 through 12).

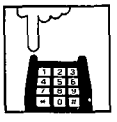
While Having a conversation (cont.)

Conference (see page 4-16)

Description

Allows for up to a three party conference, (2-outside/1-inside) (1-outside/2-inside) or (3-inside).

Operation

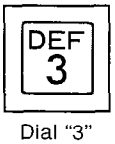


Flash hookswitch places 1st party on hold

Dial 2nd party number

Consult with 2nd Party

Flash hookswitch

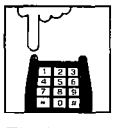


Dial "3"

[3-party conference is now established.]

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after the first flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the first party will be disconnected.

To Place one Caller on Hold and Talk to the Other Caller



Flash hookswitch

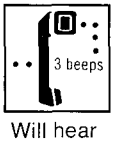
2nd party on hold 1st party in consultation

Call Waiting (see page 4-20)

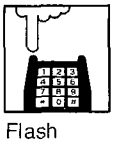
Description

Call Waiting tones during a conversation indicates there is a new incoming outside call or Intercom call.
This feature has been set beforehand in the extension.

Operation



Will hear a call waiting tone



Flash hookswitch places 1st party on hold

Hang up

Lift handset

Consult with new caller while 1st party is on hold

- If you use the hold button of a standard telephone, the above-mentioned feature will not function.
- To terminate the original call and return to the 2nd call, hang up and then lift the handset. (You need not flash the hookswitch.)

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the first party will be disconnected.

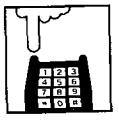
While Having a Conversation (cont.)

Call Splitting (see page 4-21)

Description

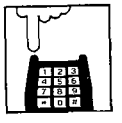
Allows the station user to alternate between two parties, either intercom or outside.

Operation

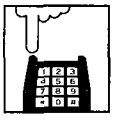

Flash hookswitch

Dial second party

Consult with 2nd party while 1st party is on hold


Flash hookswitch

2nd party on hold 1st party in consultation


Flash hookswitch

1st party on hold 2nd party in consultation

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after the first flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the first party will be disconnected.

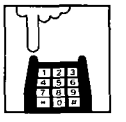
Call Transfer (see page 4-18)

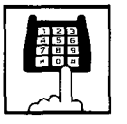
Description

Outside or intercom calls may be transferred to any extension manually. A call can not be transferred to outside line.

Operation

To Transfer After the Other Extension Answers

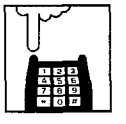

Flash hookswitch

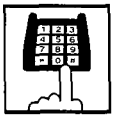

Dial extension number

Announce and wait for an answer

Hang up

To Transfer without Announcing the Other Extension


Flash hookswitch


Dial extension number

Hang up

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the party will be disconnected.

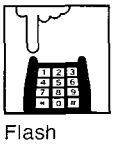
To Retrieve the Call

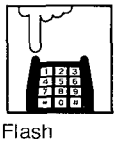
If the other extension did not answer the transferred call within 30 seconds after the call has been transferred, the call will return to you. In this case:
While the ring back is hearing,

Lift handset

- The time that the call returns to you when the transferred call is not answered can be changed from 30 seconds to 15 seconds. For changing, see page 3-27.

To change the party to whom a call is transferred before hanging up


Flash hookswitch to retrieve call


Flash hookswitch

Dial extension number

Paging

Paging All Extensions (see page 4-23)

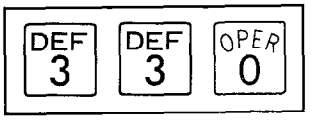
Description

Allows paging to all extensions.

Operation

To Access

Lift handset



Dial "330"

Confirmation tone of 1 beep will be heard

Page

Wait for an answer and talk

- Paging will be heard only from the built-in speaker of KX-T123230, KX-T123220, KX-T123250, KX-T61631, KX-T61630, KX-T61620, KX-T61650, KX-T30830, KX-T30820 or KX-T30850. It will not be heard from the built-in speaker of a standard telephone.

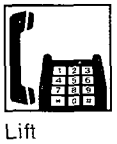
Paging Group (see page 4-24)

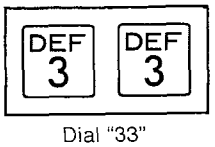
Description

Allows paging to one of eight extension groups.

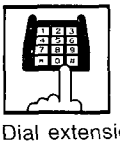
Operation

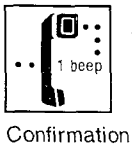
To Access


Lift handset



Dial "33"


Dial extension group number (1 through 8)



Confirmation tone

Page

Wait for an answer and talk

Paging-External (see page 4-24)

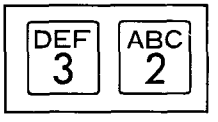
Description

Allows access to external paging equipment.

Operation

To Access

Lift handset



Dial "32"

Dial external paging number

Confirmation tone

Page

Wait for an answer and talk

- External paging number
  "0": for external paging equipments 1 and 2.
  "1": for equipment 1.
  "2": for equipment 2.

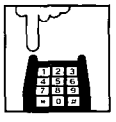
- Paging will be heard from external paging equipment.
- Up to two external paging equipment can be connected to the KX-T123210.

OPERATION

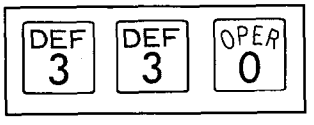
Paging And Transfer (see page 4-25)

Operation

To Transfer a Call to the Paged Person



Flash hookswitch to place a call on hold



Dial "330"

Confirmation tone

Page

Wait for an answer and hang up

- You may dial 331 through 338 or 320 through 332 instead of 330.

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the party will be disconnected.

Paging-Answer (see page 4-25)

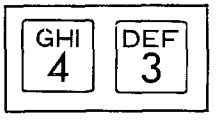
Description

A page from the built-in speaker or external paging equipment can be answered from any extension.

Operation

To Paging from Built-in Speaker

Lift handset



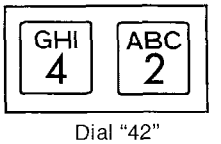
Dial "43"

Confirmation tone of 1 beep will be heard

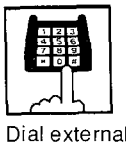
Talk

To Paging from External Equipment

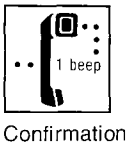
Lift handset



Dial "42"



Dial external paging number



Confirmation tone

Talk

- External paging number
  "1": for external paging 1.
  "2": for external paging 2.

Use of Other Features

Do Not Disturb Override
(see page 4-31)

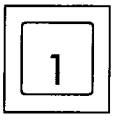
Description

Allow you to dial to the extension on which is set the Do Not Disturb.
This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-74.

Lift handset

Dial extension number (100 through 199)

Do not disturb tone is heard



Dial "1"

Ring back tone is heard and wait for answer

Switching to Tone Alerting
(see page 4-33)

Description

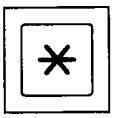
"Voice alerting" (through built-in speaker) that is established at the called party's extension, can be switched to "Tone alerting" (ringing).

- This feature is required to be set beforehand at the called party,s extension. For programing, see page 4-56.
- A rotary phone will not function.

Operation

Switching to Tone Alerting

Wait until a confirmation tone is heard


Press "*"

Ring back tone

- You should press "*" button within 10 seconds after the dialing.

External Feature Access
(see page 4-38)

Description

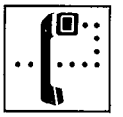
Allows extension user to access features of the central office or host PBX. (example: call waiting feature can be supplied by the central office.)

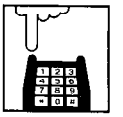
- The external feature (call waiting) can only be accessed when engaged on an outside call.
- The following example shows you one of the procedures.

Operation

Call Waiting-Outside Line

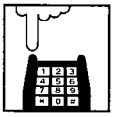
While in conversation


Will hear a call waiting tone


Flash hookswitch

Dial "6"

Consult with new caller while original call is placed on hold


Flash hookswitch

Dial "6"

Consult with original caller while 2nd call is placed on hold

[If the calling party on hold hangs up, the line is terminated.]

- Flashing the hookswitch and dialing "6" means flash operation.
- If the KX-T123210 is connected to a host PBX and a flash operation is required, follow the procedure of flash operation which is required for the host PBX.

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after the first flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the original call will be disconnected.

Account Code (see page 4-39)

Description

This feature gives each message of the SMDR an account code of the called or calling party.

[Station Message Detail Recording (SMDR) is cost saving feature that records all incoming and outgoing calls through the CO line.]

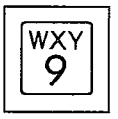
This feature has two modes "Forced" and "Option". In the "Forced" mode, the account code must be entered every time the extension user dials. In the "Option" mode, account code may be entered when a record of the account code is needed. When setting to the "Forced" mode, see page 3-70.

Operation

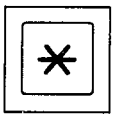
Forced Mode

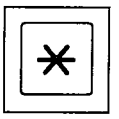
■ Making a Call

Lift handset



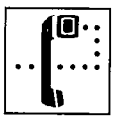
Dial "9"

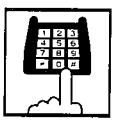

Dial "✱"


Again

[Intermittent tone is heard.]

Dial account code


Wait for C.O. dial tone

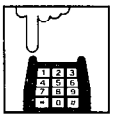

Dial telephone number

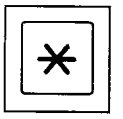
[Account code is 4 digits.]

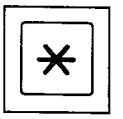
- You may dial 81 through 88 instead of dialing 9.

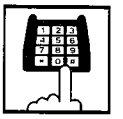
■ Receiving a Call

If you want to record a calling party's account code in the SMDR, follow the below-mentioned procedure.
Within 30 seconds after calling party hangs up,


Flash hookswitch


Dial "✱"


Again


Dial account code

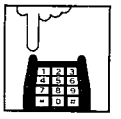
- Dialing the account code must be done before hanging up.

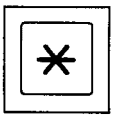
When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the party will be disconnected.

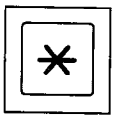
Option Mode

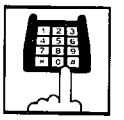
■ Making or Receiving a Call

If you want to record a calling or called party's account code in the SMDR, follow the below-mentioned procedure.
Within 30 seconds after calling or called party hangs up,


Flash hookswitch


Dial "✱"


Again


Dial account code

[Account code is 4 digits.]

- Dialing the account code must be done before hanging up.

When the "Call on Hold for Standard Telephone" on page 3-77 is selected to the "Hold-2" mode, dial "20" after flashing the hookswitch in addition to the above procedure. If the number except "20" is dialed, the party will be disconnected.

- You may dial 49 instead of pressing the "✱" "✱" button.
- Account code must be 4 numerical digits except for the "#" and "✱" buttons.
- If you enter a wrong account code, press the "✱" "✱" button and enter the correct code.

■ You may dial "0" instead of pressing the "#" button.

Do Not Disturb (see page 4-30)

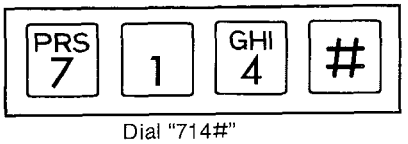
Description

Each extension can be individually prohibited from receiving intercom and outside calls.

Operation

Setting

Lift handset

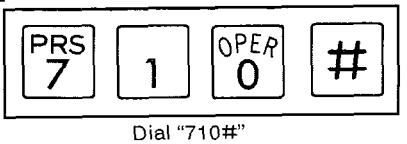


Dial "714#"

Hang up

To Cancel

Lift handset



Dial "710#"

Hang up

Dial Call Pickup Deny (see page 4-29)

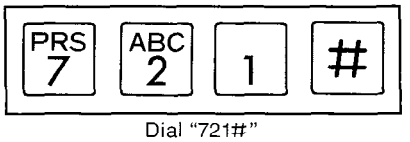
Description

Allows you to prohibit any other extension user from answering calls directed to you.

Operation

Setting

Lift handset

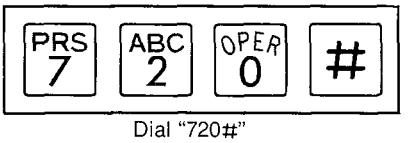


Dial "721#"

Hang up

To Cancel

Lift handset



Dial "720#"

Hang up

Use of Other Features (cont.)

Call Forwarding-All Calls (see page 4-26)

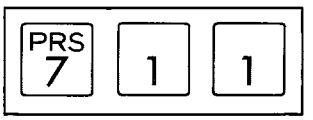
Description

All intercom calls to your extension can be automatically forwarded to any extension within the system.
For outside calls to your extension, if your extension is programmed to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.
For programming to the DIL mode, see page 3-54.

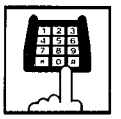
Operation

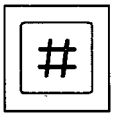
Setting

Lift handset



Dial "711"


Dial extension number (100 through 199)

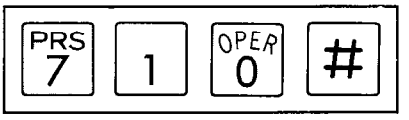


Dial "#"

Hang up

To Cancel

Lift handset



Dial "710#"

Hang up

Call Forwarding-Busy/No Answer (see page 4-26)

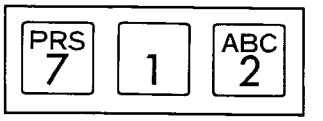
Description

If your extension is busy or do not answer a call within 3 rings, all intercom calls to your extension can be automatically forwarded to any extension within the system.
For outside calls to your extension, if your extension is programmed to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any extension within the system.
For programming to the DIL mode, see page 3-54.
The 3 rings may be changed to 1 ring, 2 rings or 4 rings by programming (see page 3-28).

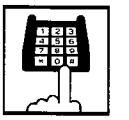
Operation

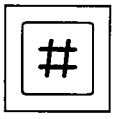
Setting

Lift handset



Dial "712"


Dial extension number

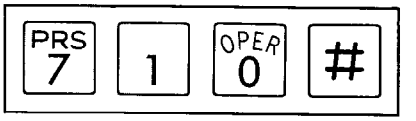


Dial "#"

Hang up

To Cancel

Lift handset



Dial "710#"

Hang up

Call Forwarding-To Outside Line (see page 4-28)

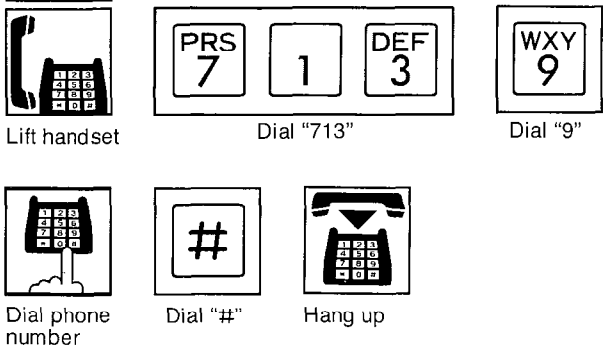
Description

Intercom calls to your extension can be automatically forwarded to any outside line. For outside calls to your extension, if your extension is programmed to the Direct In Line (DIL) mode, the outside calls can be automatically forwarded to any outside line. For programming to the DIL mode, see page 3-54.

This feature is required to be set beforehand in the KX-T123210. For programming, see page 3-72.

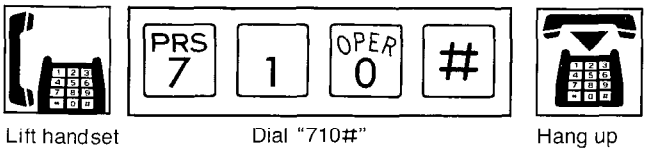
Operation

Setting



- You may dial 81 through 88 instead of 9.
  - 9: Each extension can automatically select an idle CO line.
  - 81 through 88: Each extension can select a trunk group designated.
- You can not dial "0" instead of pressing the "#" button.

To Cancel



If outside call is forwarded to any outside line, the KX-T123210 will disconnect the call from the line after 10 minutes. For changing the time, see "CO to CO Duration Time Limit" on page 3-30.
3 beeps tone will be heard every 5 seconds for 15 seconds before the call is disconnected from the line.

Absent Message Capability (see page 4-34)

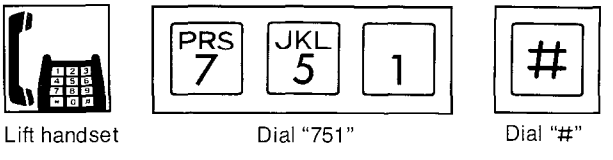
Description

Absent message (Message 1 through 6) which are programmed can be informed to calling party.
Programming can be done at any telephone (either proprietary telephones or standard telephones).
When a caller using the proprietary telephone with LCD dials the extension in which the message is programmed, it will be displayed on the LCD.

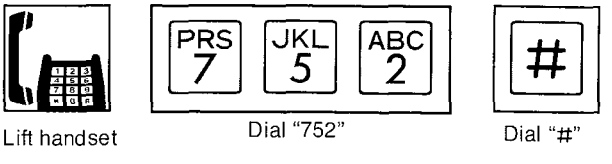
Operation

Setting

■ Message 1. "**Will Return Soon**"



■ Message 2. "**Gone Home**"



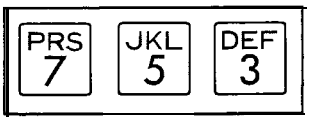
Use of Other Features (cont.)

Absent Message Capability (cont.)

❑ Message 3. **"At Ext. 123"**

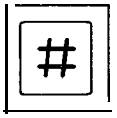
extension number

Lift handset



Dial " 753"

Dial extension number

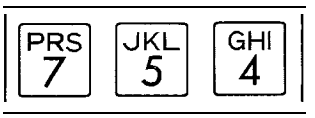

Dial "#"

Hang up

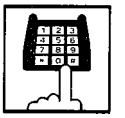
■ Message **4. "Back at 10:23 AM"**

AM/ PM
minute
hour

Lift handset



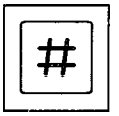
Dial " 754"


Enter hour (01 through 12)

Enter minute (00 through 59)

Dial "0" or "1"

["0": for AM
"1": for PM]

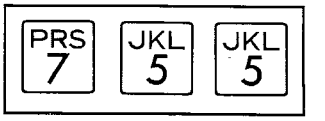

Dial "#"

Hang up

❑ Message **5. "Out Until 10/23"**

day
month

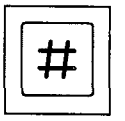
Lift handset



Dial " 755"

Enter month (01through 12)

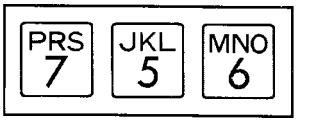
Enter day (01 through 31)


Dial "#"

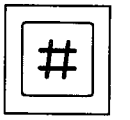
Hang up

■ Message 6. **"In a Meeting"**

Lift handset



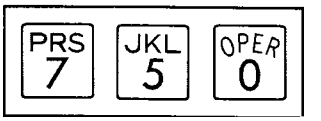
Dial " 756"


Dial "#"

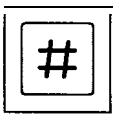
Hang up

To Cancel the message

Lift handset



Dial " 7.50"


Dial "#"

Hang up

Call Waiting Tone-From CO/ Extension Deny (see page 4-42)

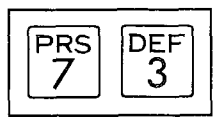
Description

During a conversation, a call waiting tone will be heard when a third party on an outside line or intercom calls you.
Call waiting tone can be removed at customer' s request.
Default is " Allow" .

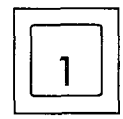
Operation

To Denv CO Call Waiting Tone

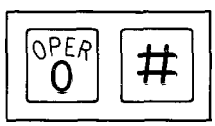
Lift handset



Dial "73"



Dial " 1 "

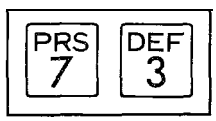


Dial "0#"

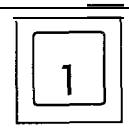
Hang up

To Allow CO Call Waiting Tone

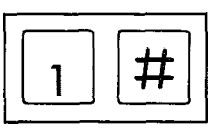
Lift handset



Dial " 73"



Dial " 1"

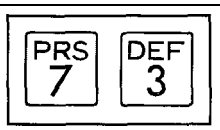


Dial "1#"

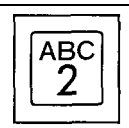
Hang up

To Deny Extension Call Waiting Tone

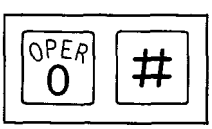
Lift handset



Dial " 73"



Dial "2"

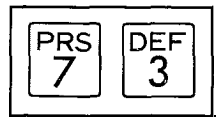


Dial "0#"

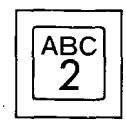
Hang up

To Allow Extension Call Waiting Tone

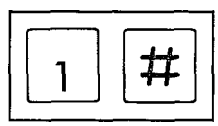
Lift handset



Dial " 73"



Dial " 2"



Dial "1#"

Hang up

Executive Override Deny (see page 4-32)

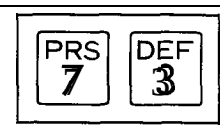
Description

Allows you to prohibit another extension user from intruding into your conversation with an outside or inside party.
For programming of the intrusive extension, see " Executive Override" on page 3-73.
Default is " Allow" .

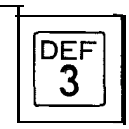
Operation

To Deny Executive Override

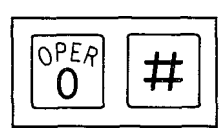
Lift handset



Dial " 73"



Dial " 3"

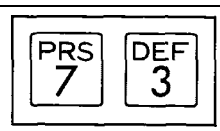


Dial "0#"

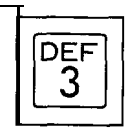
Hang up

To Allow Executive Override

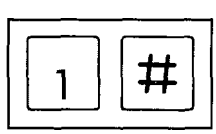
Lift handset



Dial " 73"



Dial " 3"



Dial "1#"

Hang up

Use of Other Features (cont.)

Data Line Security
(see page 4-41)

Description

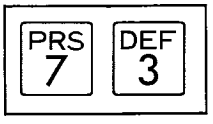
This feature provides security when transmitting data through an extension of the KX-T123210.

Executive override, Call waiting tone and Hold time reminder tone from the KX-T123210 are prohibited in this mode.

Operation

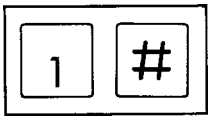
Setting

Lift handset



Dial "73"

Dial "0"

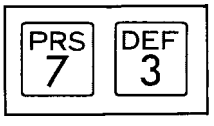


Dial "1#"

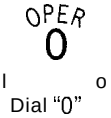
Hang up

To Cancel

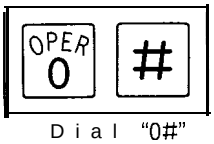
Lift handset



Dial "73"



Dial "0"



Dial "0#"

Hang up

Station Feature Clear
(see page 4-45)

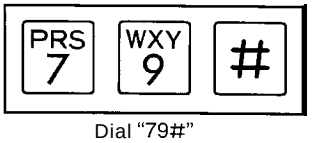
Description

Dialing (79#) will clear the following station Features on an extension to default data.

- Call Forwarding
- Data Line Security
- Dial Call Pickup Deny
- Do not Disturb
- Call Waiting Tone From CO / Extension Deny
- Pick up Dial
- Absent Message Capability
- Executive Override Deny

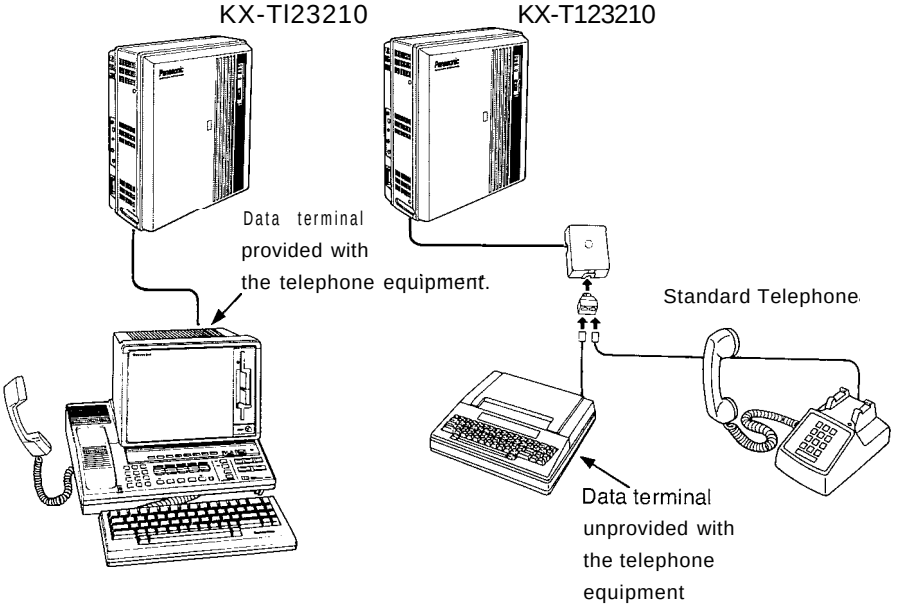
Operation

Lift handset



Dial "79#"

Hang up



- This mode cannot prevent external call waiting tone from coming into KX-T123210 system. We recommend that this mode is established on a line which has no special telephone company services.

Pickup Dial

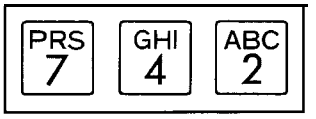
Description

Picking up the handset automatically dials a programmed phone number.

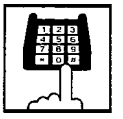
Operation

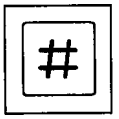
To Program

Lift handset



Dial " 742"


Dial extension number


Dial "#"

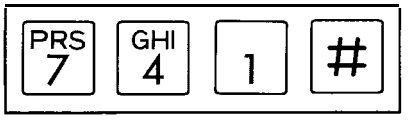
Hang up

- You may dial 9 or 81 through 88 and phone number instead of extension number.

To Enable or Disable

To enable pickup dial

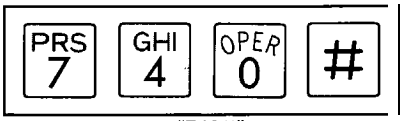
Lift handset



Dial "741#"

To disable pickup dial

Lift handset



Dial "740#"

To Dial

Pickup handset for 3-seconds

If the " Pickup Dial" feature did not work, hang up for 2 seconds, and lift the handset again.

- The 3 seconds may be changed to 1 second, 2 seconds or 4 seconds by programming. (See page 3-29)
- A rotary phone will not function for Pickup Dial.
- Dialing (speed dialing and manual dialing) is possible within 3 (1, 2 or 4) seconds. When you program for an outside call, enter the line access number,@] [*],account code),and then the desired number.
- The pickup dial will not be activated by picking up the handset during a hold or when receiving a call.
- You can not dial "0" instead of pressing the "#" button.
- Up to 32 digits can be stored.
- The "*" button is used as the PAUSE.

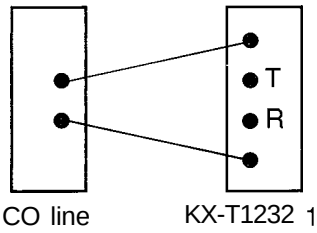
TROUBLESHOOTING

During Installation

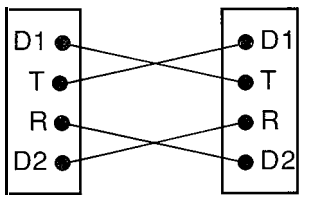
PROBLEM	PROBABLE CAUSE	POSSIBLE SOLUTION
Extension does not operate.	Bad printed circuit board (LC-Card)	Exchange printed circuit board for another printed circuit board.
	Bad connection between the system and extension	Take that extension and plug it into the same extension port using a short telephone cord. If telephone does not work, connection between the system and the extension must be repaired.
	A telephone with an A-Al relay is connected.	Use a 2 wires cord. Set the A-Al relay switch of the telephone to "OUT" or "OFF" position.
	Bad extension	Take that extension and plug it into another extension port that is working. If the telephone does not work, replace the phone.
Improper reset operation		Press the Reset Button.
Noise in external paging	Induced noise on the wire between the System and the Amplifier.	Use a shielded cable as the connection wire between the System and Amplifier. A short shielded cable is recommended.
Volume distortion from external music source	Excessive input level from external music source	Decrease the Output level of the external music source by using the Volume Control on the music source.
Speed dialing or One Touch Dialing dose not function.	Bad programming	Enter the line access code (9) or trunk group access code (81 through 88) into programming.
A dial tone (short tone continuously) was heard and telephone line hung up at once when accessing an outsi' de during the speakerphone mode.	The host PBX may have caused the line to hang up when the KX-T123210 was connected to it.	Use the handset instead of the speakerphone.

During Connection

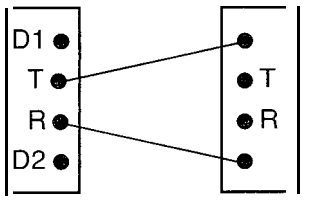
1. Connection between the Central Office and the KX-T123210

PROBLEM	CAUSE	SOLUTION
Cannot make or receive calls on the CO lines.	CO lines are connected to the D1/D2. 	Reconnect the CO lines to the T/R of the telephone jack using 2-conductor wiring.

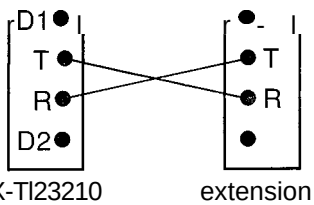
2. Connection between the KX-T123210 and the extensions. (KX-T123230, KX-1123220, KX-T61630, KX-T61631, KX-T61620, KX-T30820 and KX-130830)

PROBLEM	CAUSE	SOLUTION
Cannot make calls when the SP- Phone button on the KX-Tl23230 (or KX-Tl23220, KX-T61620, KX-T61630, KX-T61631, KX-T30820, KX-T30830) is pressed. The SP-Phone indicator , does not light.	The T/R is connected to the D1/D2. 	Use the correct cord (inner 2 wires are for T/R and the outer 2 wires are for D1/ D2).

3. Connection between the KX-T123210 and a standard telephone (with no polarity)

-PROBLEM	CAUSE	SOLUTION
When the handset is lifted nothing is heard.	The T/R is connected to the D1/D2. 	Use the correct cord (inner 2 wires are for T/R). elf a telephone equipped with an A-Al relay is connected to the KX-T123210, set the A-Al relay switch of the telephone to OFF.

4. Connection between the KX-T123210 and a standard telephone that is polarity sensitive

PROBLEM	CAUSE	SOLUTION
Dial tone cannot be heard when the handset is lifted.	The " T" is connected to the "R". 	Reverse the connections of the T/R.

During Operation

PROBLEM	PROBABLE CAUSE	POSSIBLE SOLUTION
Extension does not operate.	The Power failure switch of the KX-TI23230, KX-T61631, KX-T61630 or KX-T30830 is set to ON.	Set the Power failure switch to OFF.
When using the speakerphone mode, nothing is heard.	The HANDSET/HEADSET selector of the KX-TI23230, KX-T61631, KX-T61630 or KX-T30830 is set to the "HEADSET" position.	When the headset is not used, set the HANDSET/ HEADSET selector to the "HANDSET" position.
The unit does not ring.	● Ringer Volume Selector is set to "OFF". ● The CO numbers are not programmed.	● Set to "HIGH" or "LOW". ● See "CO Line Ringing Selection" on page 4-58.
During a power interruption, extensions connected to jack number 1, 2, 9, 10, 17 and 18 do not operate.	● The Power failure switch of the KX-TI23230, KX-T61631, KX-T61630 or KX-T30830 is set to OFF. ● The dialing mode (tone or pulse) is improper. ● KX-T123220, KX-T123250, KX-T61620, KX-T616.50, KX-T30820 or KX-T30850 is connected.	● Set the Power failure switch to ON. ● Set the Tone/Pulse switch to the other position. ● Disconnect KX-TI23220, KX-TI23250, KX-T61620, KX-T61650, KX-T30820 or KX-T30850 and connect the KX-T123230, KX-T61631, KX-T61630, KX-T30830 or a standard telephone.

Reset Button

If the system is not operating properly, use the Reset Button.

- Before using the Reset Button, try the system feature again which does not work several times to confirm there definitely is a problem.
- Pressing the Reset button will cause the followings.

1. Camp-on to be cleared.
2. Last number redial to be cleared.
3. Saved number redial to be cleared.
4. Calls on hold are terminated.
5. Calls on exclusive hold are terminated.
6. Calls in progress are terminated.
7. Call park to be cleared.
8. Message Waiting to be cleared.

Data that are stored in memory other than above mentioned will not be cleared by use of the Reset Button.

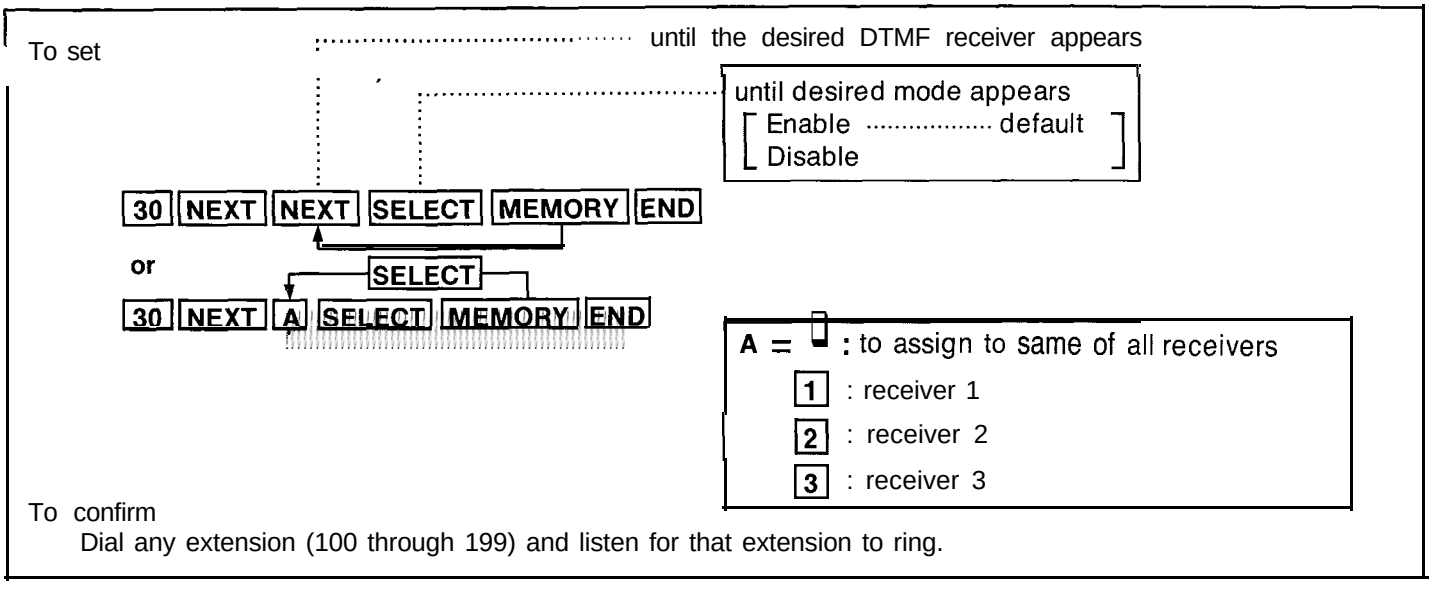
Note

If the system does not operate properly, push the Reset Button.
If there still is no difference, switch the power off and on again after 5 minutes. If the system still does not work, switch the power off.
The following extensions will be directly connected to each of the central office lines (C.O.).

Extension connected to jack number01 . . . CO 1
Extension connected to jack number02 . . . . CO 2
Extension connected to jack number09 . . . . . CO 5
Extension connected to jack number10 . . . . . CO 6
Extension connected to jack number17 . . CO 9
Extension connected to jack number18 . . . . . CO1 0

If the automobile type battery is connected to the system, disconnect it.

DTMF Receiver Check



Description

DTMF (Dual Tone Multi Frequency) Receiver enables tone telephones to dial within the system. To check the DTMF Receivers, activate the DTMF Receivers one at a time and confirm if the receiver can receive tone signals.

Operation at Extension Connected to Jack Number 1.

To Remove DTMF Receive 2 and 3:

1. Set-the System Program Switch on the KX-I123210 to the "PITS" position.
2. Dial (30) to enter the DTMF mode.
   "DTM F Receiver" will be displayed.
3. Press the NEXT button.
   "DTMF-R NO?→" will be displayed.
4. Press the NEXT button, twice, or dial (2).
   "DTMF-R2 : Enable" will be displayed.
5. Press the SELECT button to change to "Disable".
   "DTMF-R2 : Disable" will be displayed.
6. Press the MEMORY button.
7. Press the NEXT button, or press the SELECT button and then dial (3).
   "DTMF-R3 : Enable" will be displayed.
8. Press the SELECT button to change to "Disable".
9. Press the MEMORY button.
10. Press the END button to return to the initial program mode.
11. Set the System Program Switch to the "SET" position.

Confirmation of DTMF Receiver 1:

1. Set the DIALING MODE (located on the rear of KX-T123230) switch to the TONE position.
2. Set the POWER FAILURE (located on the rear of KX-T123230) switch to the ON position.
3. Dial the extension number (100 through 199).
4. If DTM F Receiver is bad, do the following procedure for removing the DTMF Receiver after the next step on this section.
5. Set the POWER FAILURE Switch to the OFF position.

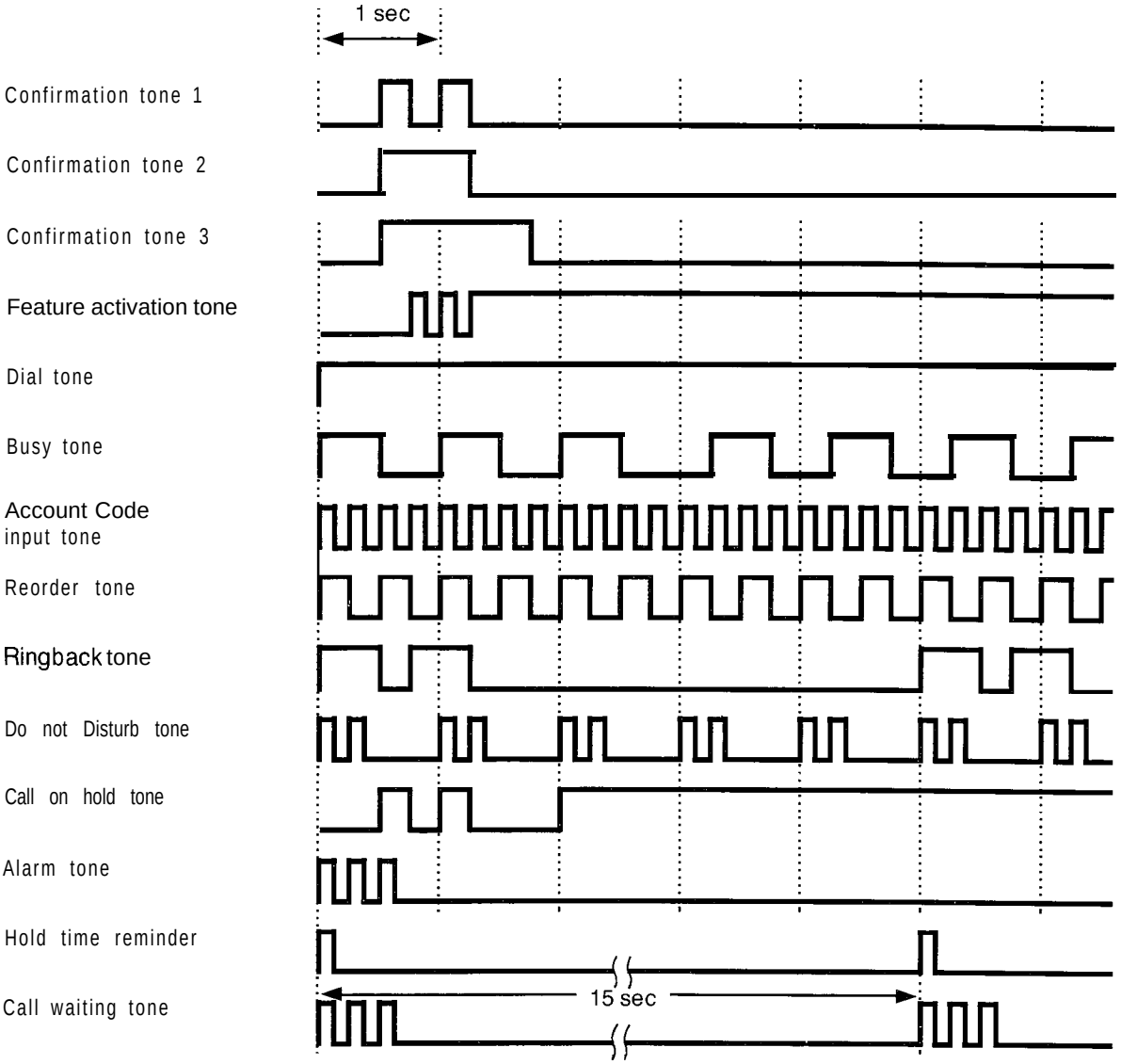
- To check DTMF Receiver 2, remove DTMF Receiver 1 and confirm that DTMF Receiver 2 is good by the procedures of "To Remove DTMF Receiver 1 and 3" and "Confirmation of DTMF Receiver 2".
- To check DTMF Receiver 3, remove DTMF Receiver 1 and confirm that DTMF Receiver 3 is good by the procedures of "To Remove DTMF Receiver 1 and 2" and "Confirmation of DTMF Receiver 3".

Table of System Features

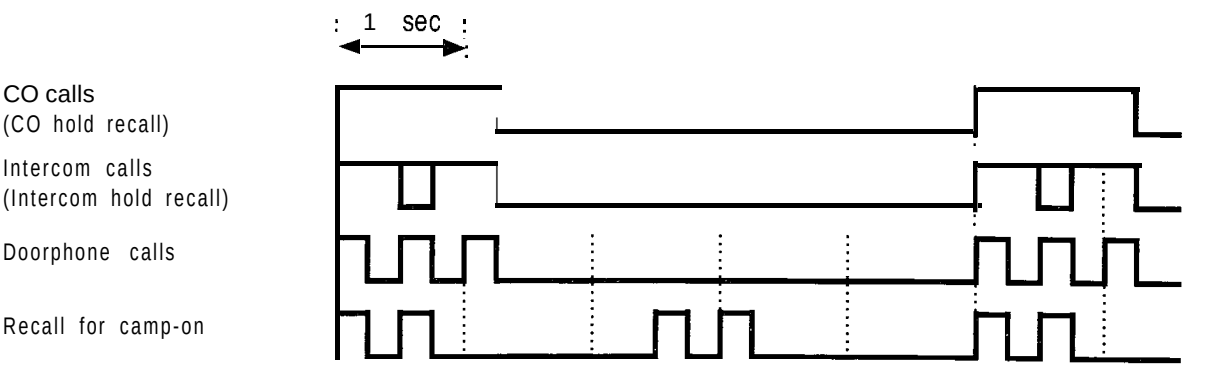
The following system features can be programmed into memory.

Dial Plan Code	System Features
Extension no. (100 through 199)	Individual Inter Office Calling
1	Busy Station Signaling
3 1 Doorphone number (1 or 2)	Calling Doorphone 1 or 2
3 2 0	Paging-External Equipments 1 and 2
3 2 1	Paging-External Equipment 1
3 2 2	Paging-External Equipment 2
3 3 Group no. (1 through 8)	Paging Group
3 3 0	Paging All Extensions
4 2 External paging no. (1 or 2)	Paging Answer-External Equipment 1or 2
4 3	Paging Answer-Group-All Extensions
4 0	Dial Call Pickup
5 Parking Station no. (20 through 29)	Call Park Retrieve
6	Camp-on
7 0 #	Cancelling Message Waiting
7 1 0 #	Cancelling Call Forwarding or Do Not Disturb
7 1 1 Extension no. (100 through 199) #	Call Forwarding-All Calls
7 1 2 Extension no. (100 through 199) #	Call Forwarding-Busy or No Answer
7 1 3 9 Phone no. #	Call Forwarding-To Outside Line
7 1 4 #	Do Not Disturb
7 2 0 #	Cancelling Dial Call Pickup Deny
7 2 1 #	Dial Call Pickup Deny
7 3 0 1 #	Data line Security
7 3 0 0 #	Cancelling_ Data line Securitty
7 3 0 3 #	Exeutive Override Deny
7 3 3 1 #	Cancelling Exeutive Override Deny
7 5 0 #	Cancelling Absent Message
7 5 1 #	Message "Will Return Soon"
7 5 2 #	Message "Gone Home"
7 5 3 Extension no. #	Message " At Ext. 101 " (101 = extension no.)
7 5 4 Hour (01 through 12) Minute (00 through 59) 0: for AM or 1: for PM #	Message " Back at 10:00 AM ."
7 5 5 Month (01 through 12) Day (01 through 31) #	Message " Out Until 10/23"
7 5 6 #	Message "In a Meeting"
7 8 1 #	Flexible Night Service-Day Mode
7 8 2 #	Flexible Night Service-Night Mode
7 9 #	Station Program Clear

LIST OF TONES



LIST OF RING TONES



SPECIFICATION

General Description

1. Capacity	Outsides(CO)	Max 12	
	Stations	Max 32	
2. Control Method	Stored Program CPU: 8 bits CPU Control ROM: 192 KB, Control RAM : 64KB		
3. Switching	Space Division CMOS Crosspoint Switch		
4. Power Supplies	Primary	AC 120V 60Hz	
	Secondary	Station Supply Volt : 26V Circuit Volt : +5V, +12V, -14V, -16V, ±7V	
	Power Failure	● Max 6 outsides assigned to stations . . . . ..power failure transfer ●System operation for several hours by recommended battery (car type batteries - consisting of two 12 VDC, 16 amp / hour maximum rating).	
5. Dialing	Outward	Dial Pulse 10PPS, 20PPS Tone Dial	
	Internal	Dial Pulse 10PPS, 20PPS Tone Dial	
	Mode Conversion	DP-DTMF, DTMF-DP	
6. Intercom paths	5		
7. Outside (CO)-Outside (CO) paths	2		
8. Connector	Outsid(CO)	Modular Jack (RJ-11)	
	Station	Amphenol Connector	
	Paging Output	Pin Jack (RCA JACK)	
	External Music Input	two-conductors Jack (MINIJACK 9/64 inch diameter)	
9. EXT Connection	Cable	1 pair wire (Standard Telephone) 2 pair wire (KX-T123230/ KX-T123220/ KX-T123250/ KX-T61630/ KX-T61620/KX-T61631/ KX-T61650/ KX-T30830/ KX-T30820/ KX-T30850)	
10. SMDR	Interface	RS-232C	
[Station Message Detail Recording]	Output Equipment	Printer, Data Terminal	
	Detail Recording	Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code	

Characteristics

1. Station Loop Limit	KX-T123230/KX-T123220/KX-T123250/ KX-T61630/ KX-T61620/ KX-T61650/ KX-T61631/ KX-T30830/ KX-T30820/ KX-T30850	40 ohms
	Standard Telephone	600 ohms including set
	Doorp hone	20 ohms
2. Minimum Leak Resistance	15,000 ohms	
3. Maximum Number of Station Instruments per Line	1 (KX-T123230, KX-T123220, KX-T123250, KX-T61630, KX-T61631, KX-T61620, KX-T61650, KX-T30830, KX-T30820, KX-T30850 or Standard telephone)	
4. Ring Voltage	70 Vrms at 20 Hz depends on Ringing Load	
5. Primary Power	120Vac, 60 Hz, 1.4 A maximum	
6. Central Office Loop Limit	1600 ohms maximum	
7. Environmental Requirements	0-40 C, 10%-90%	
8. Hookswitch Flash Timing Range	204-1000 msec	

TELEPHONE COMPANY and F.C.C. REQUIREMENTS AND RESPONSIBILITIES

In compliance with the requirements of Part 68 of the F.C.C.Rules and Regulations for connection of terminal system (this device is classified as terminal system) to the telephone network and for your convenience, the following information is presented :

1. Notification to the Telephone Company

Customers, before connecting terminal equipment to the telephone network, shall upon request of the Telephone Company, inform the Telephone Company of the particular line(s) to which such connection is made, the F.C.C. registration number and (see label on side of unit.) ringer equivalence number of the registered terminal equipment. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine rhe maximum REN for your calling area.

2. Direct connection to A Party-line or Coin-operated Telephone Line is Prohibited

3. Incidence of Harm to The Telephone lines

Should Terminal Equipment cause harm to the Telephone Network, the Telephone Company shall, where practical, notify the customer that temporary discontinuance of service may be required. However, where prior notice is not practical, the Telephone Company may temporarily discontinue service forthwith, if such action is reasonable in the circumstances. In case of such unnotified temporary discontinuance of service, the Telephone Company shall:

(a) Promptly notify the customer of such temporary discontinuance of service.

(b) Afford the customer the opportunity to correct the situation which gave rise to the temporary discontinuance.

(c) Inform the customer of the right to bring a complaint to the Commission pursuant to the procedures set out in Subpart E of Part 68 of FCC Telephone Equipment Rules.

4. Compatibility of The Telephone Network and Terminal Equipment

(a) Availability of telephone interface information.

Technical information concerning interface parameters and specifications not specified in FCC Rules, including the number of Ringers which may be connected to a particular telephone line, which is needed to permit Terminal Equipment to operate in a manner compatible with Telephone Company communications facilities, shall be provided by the Telephone Company upon customer' s request.

(b) Changes in Telephone Company Communications Facilities, Equipment, Operations and Procedures.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68 of the FCC Rules and Regulations. If such changes can be reasonably expected to render any customer Terminal Equipment incompatible with Telephone Company Communications Facilities,or require modification or alteration of such Terminal Equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

OTHERS

- Keep the unit away from heating appliances and electrical noise generating devices such as fluorescent lamps, motors and television. These noise sources can interfere with the performance of the EASA-PHONE.

- This unit should be kept free of dust, moisture, high temperature and vibration, and should not be exposed to direct sunlight.

- Never attempt to insert wires, pins, etc . into the vents or other holes of this unit

- If there is trouble, disconnect the unit from the telephone line. Plug the telephone directly into the telephone line. If the telephone operates properly, do not reconnect the unit to the line until the trouble has been repaired by an authorized Panasonic Factory Service Center. If the telephone does not operate properly, chances are that the trouble is in the telephone system, and not in the unit.

- Do not use benzine, thinner, or similar solvents. Do not use abrasive powder to clean the cabinet. Wipe it with a soft cloth.

" WARNING -This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference."

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

LIMITED WARRANTY

Panasonic Company, PHI or PSC will repair this product with new or rebuilt parts, free of charge, in the U.S.A. or Puerto Rico for one (1) year from the date of original purchase in the event of a defect in materials or workmanship.

Batteries (if included) — New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days from the date of original purchase. Non-rechargeable batteries are not warranted.

Carry-in or mail-in service in the continental U.S.A. can be obtained during the warranty period from a Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory. Or call l-800-447-4700, toll free, to locate an authorized MSC Servicenter. Carry-in or mail-in service in Puerto Rico or Hawaii can be obtained during the warranty period by calling the telephone numbers listed in the Servicenter Directory (see page 6-11) .

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which are caused by products not supplied by Panasonic Company, PHI or PSC or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, or service by anyone other than a MSC Factory Servicenter or authorized MSC Servicenter or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

PANASONIC COMPANY, PHI AND PSC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the company address indicated on the back cover.

SERVICENTER LIST

To locate an Authorized Servicenter in Your Area within the Continental U.S.A. PARTS

DIAL TOLL FREE : I-800-447-4700'

24 Hours a Day, 7 Days a Week

INFO. -922-0028

Requests for assistance in obtaining repairs or technical information...contact any one of the following Service Administration offices:

EASTERN
2250 Cabot Boulevard
West Lang horne, PA1 9047
215-741-0676

MIDWEST
425 East Algonquin Road
Arlington Heights, IL 60005
312-981-4842

WESTERN
6550 Katella Avenue
Cypress, CA90630
714-895-7438
1-714-373-7438
1-714-373-7440

SOUTHERN
1854 Shackleford Court
Norcross, GA30093
404-925-6860

Correspondence requesting product information should be sent to :
Panasonic Consumer Affairs, Matsushita Services Company, Division of Matsushita Electric Corporation of America, 50 Meadowland Parkway, Secaucus, NJ 07094

Service in Puerto Rico
MATSUSHITA ELECTRIC OF PUERTO RICO, INC.
Panasonic Sales Company
Factory Servicenter
Calle Rosarito, Edif D
Ceramica Industrial Park
Carolina, Puerto Rico 00630
809-750-5135.809-750-5235

Service in Hawaii
PANASONIC HAWAII, INC.
91-238 Kauhi Street, Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774
808-682-1521

Service in the Continental U.S.A.... Factory Servicenters
1575 NORTHSIDE DRIVE SUITE 325
ATLANTA, GA 30318
(404) 351-8978

MATSUSHITASERVICESCOMPANY
Division of Matsushita Electric Corporation of America 50 Meadowland Parkway, Secaucus, New Jersey 07094

Phone Number Directory

▶ TELEPHONE NUMBER ◀

CO	TEL NO. ,	CO	TEL NO.	c o	TEL NO.	c o	TEL NO.
1		4		7		10	
2		5		8		11	
3		6		9		12	

▶ EXTENSION NUMBER ◀

JACK NO.	EXTENSION NUMBER	NAME	JACK NO.	EXTENSION NUMBER	NAME
1			17		
2			18		
3			19		
4			20		
5			21		
6			22		
7			23		
8			24		
9			25		
10			26		
11			27		
12			28		
13			29		
14			30		
15			31		
16			32		

▶ SPEED DIALING ◀

CODE	NAME	TEL NO.	CODE	NAME	TEL NO.
00			12		
01			13		
02			14		
03			15		
04			16		
05			17		
06			18		
07			19		
08			20		
09			21		
10			22		
11			23		

▶ SPEED DIALING ◀

CODE	NAME	TEL NO.	CODE	NAME	TEL NO.
24			62		
25			63		
26			64		
27			65		
28			66		
29			67		
30			68		
31			69		
32			70		
33			71		
34			72		
35			73		
36			74		
37			75		
38			76		
39			77		
40			78		
41			79		
42			80		
43			81		
44			82		
45			83		
46			84		
47			85		
48			86		
49			87		
50			88		
51			89		
52			90		
53			91		
54			92		
55			93		
56			94		
57			95		
58			96		
59			97		
60			98		
61			99		

PROGRAMMING TABLE

Date and Time Setting

Program address: 00

NEXT → AB → SELECT → CD → SELECT → E F → GH → SELECT → MEMORY → END

- AB: year
- CD: month
- SELECT: day
- SELECT: day of the week
- E F: hour
- GH: minute
- SELECT: AM / PM

System Speed Dialing Entry

Program address: 01 OR AUTO

NEXT → AB → CD → phone number → SELECT → MEMORY → END

- phone number: 9 automatic line access number
- phone number: 8 ❑ through ❑ ❑ : access number of Trunk Group
- phone number: Speed access code (00 through 99)

● There is the phone number directory on page 7-1.

Extension Number Assignment

Program address: 02

NEXT → NEXT → CDE → MEMORY → END

- NEXT: dial the extension number (100 through 199)
- NEXT: until the desired jack number (01 through 32)appears

Jack NO	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
EXT NO (default)	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116
EXT NO (change)																

Jack NO	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
EXT NO (default)	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132
EXT NO (change)																

Operator Assignment

Program address: 03

NEXT → NEXT → AB → MEMORY → END

- NEXT: dial 01 or 02
- AB: dial the jack number set operator (01 through 32)
- NEXT: until the desired operator number (1 or 2) appears

	Jack number set operator
Operator 1	
	Jack number set operator
Operator 2	

Paired Telephone Assignment for DSS Console

Program address: 04

NEXT → NEXT → AB → MEMORY → NEXT → CD → MEMORY → END

- AB: dial the jack number paired with console 1 (01 through 32)
- CD: dial the jack number paired with console 2 (01 through 32)

	Jack number paired with Console 1
Default	01
To make program change	
	Jack number paired with Console 2
Default	07
To make program change	

Automatic CO Hold Using DSS Button

Program address: 05

NEXT → SELECT → MEMORY → END

- SELECT: With Transfer / Without Transfer

	Default	To make program change
With Transfer	X	
Without Transfer		

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM

Day/Night Service Mode

Switching of Service Mode

06

NEXT SELECT MEMORY END

Manual / Automatic

	Default	To make program change
Manual	X	
Automatic		

Starting Time

07

NEXT AB ⇨ CD ⇨ SELECT MEMORY NEXT E F ⇨ GH ⇨ SELECT MEMORY END

minute AM / PM

starting time for day service (hour)

minute AM / PM

starting time for night service (hour)

	Default	To make program change
Day Service	9:00 AM	
Night Service	5:00 PM	

Call Hunting Setting

08

NEXT NEXT SELECT MEMORY END

Disable / Enable

until the desired extension group number (1 through 8)appears

	Default	To make program change							
	all 8 extension groups	Extension group							
		group 1	group 2	group 3	group 4	group5	group 6	group 7	group 8
Disable	X								
Enable									

Hunting Type

09

NEXT NEXT SELECT MEMORY END

Terminate / Circular

until the desired extension group number (1 through 8) appears

	Default	To make program change							
	all 8 extension groups	Extension group							
		group 1	group2	group3	group4	group5	group6	group7	group8
Terminate	X								
Circular									

Toll Restriction

Area Type Selection

10

NEXT SELECT MEMORY END

Type A/ Type B / Type C

	Default	To make program change
Type A	X	
Type B		
Type C		

CO Operator Call-Boundary Class

11

NEXT A MEMORY END

dial the boundary class number (1 through 8)

	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
Default	X							
To make program change								

TO SET

Toll Restriction (cont.) / Toll Restriction of Speed Dialing

PROGRAM ADDRESS: 12

NEXT SELECT MEMORY END

: ..... Restriction / No restriction

	Default	To make program change
Restriction	X	
No restriction		

Exchange Code Selection

PROGRAM ADDRESS: 13

NEXT NEXT CDE MEMORY I END

: ..... exchange code with 3 digits

. . . until the desired memory code number (01 through 20) appears

	Memory code number							
	01	02	03	04	05	06	07	08
exchange code entry								

Memory code number											
09	10	11	12	13	14	15	16	17	18	19	20

Area Code Entry for class 3

PROGRAM ADDRESS: 14

NEXT NEXT CDE MEMORY I END

: ..... area code with 3 digits

: ..... until the desired memory code number (01 through 20)appears

	Memory code number							
	01	02	03	04	05	06	07	08
Area code entry								

Memory code number											
09	10	11	12	13	14	15	16	17	18	19	20

Exchange Code Entry for Class 5

PROGRAM ADDRESS: 15

NEXT NEXT CDE MEMORY I END

: ..... exchange code with 3 digits

: ..... until the desired memory code number (01 through 20) appears

	Memory code number							
	01	02	03	04	05	06	07	08
exchange code entry								

Memory code number											
09	10	11	12	13	14	15	16	17	18	19	20

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Toll Restriction (cont) Exchange Code Entry for Class 7	16	NEXT NEXT CDE MEMORY END :.....exchange code with 3 digits · · until the desired memory number (01 through 20) appears

	Memory code number							
	01	02	03	04	05	06	07	08
Exchange code entry								

Memory code number											
09	10	11	12	13	14	15	16	17	18	19	20

Hold Time Reminder	17	NEXT A MEMORY END :.....dial the time (1 minute through 9 minutes)

	minutes								
	1	2	3	4	5	6	7	8	9
Default			X						
To make program change									

Hold Recall Time Set	18	NEXT SELECT MEMORY END :.....30 sec / 1 min / 1.5 min / 2 min / Disable

	30seconds	1 minute	1 minute 30 seconds	2 minutes	disable
Default	X				
To make program change					

Transfer Recall Time	19	NEXT SELECT MEMORY END :.....30 sec / 15 sec

	Default	To make program change
30 sec	X	
15 sec		

Call Forwarding Starting Time	20	NEXT SELECT MEMORY END :.....1 ring delay / 2 rings delay/ 3 rings delay / 4 rings delay

	Default	To make program change
1 ring delay		
2 rings delay		
3 rings delay	X	
4 rings delay		

Pickup Dial Delay Time	21	NEXT SELECT MEMORY END :.....1 sec / 2 sec / 3 sec / 4 sec

	Default	To make program change
1 sec		
2 sec		
3 sec	X	
4 sec		

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
CO-to-CO Duration Time Limit	22	NEXT AB MEMORY END ..... dial the time (1 minute through 32 minutes)

	Default	To make program change
minute	10	

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
SMDR RS-232C Communication Parameters	23	(Carriage return for a new line) NEXT SELECT MEMORY .....CR + LF / CR

	Default	To make program change
CR + LF	X	
CR		

(Baud rate)

NEXT SELECT MEMORY

.....110B / 150B / 300B / 600B / 1200B / 2400B / 4800B / 96008

	1108	150B	3008	600B	1200B	24008	48008	96008
Default					X			
To make program change								

(Word length)

NEXT SELECT MEMORY

.....7 bits / 8 bits

	Default	To make program change
7 bits	X	
8 bits		

(Parity)

NEXT SELECT MEMORY END

""" None/ Mark / Space / Even / Odd

	None	Mark	Space	O Even d	d
Default		X			
To make program change					

(Stop bit length)

NEXT SELECT MEMORY END

.....1 bit / 2 bits

	Default	To make program change
1 bit	X	
2 bits		

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
SM DR (cont.) SMDR Parameters	24	(Page length) NEXT AB MEMORY 4 through 99 lines

	Default	To make program change
Lines per page	66	

(Skip perforation)

NEXT AB MEMORY END

0 through 95 lines

	Default	To make program change
Skipping lines	0	

Incoming/ Outgoing Call Selection for printing	25	NEXT SELECT MEMORY NEXT SELECT MEMORY END Outgoing : On/Off Incoming : On/Off

	Outgoing		Incoming	
	ON	OFF	ON	OFF
Default	X		X	
To make program change				

Secret Speed Dial / One Touch Dial Printing	26	NEXT SELECT MEMORY END No Printing / Printing

	Default	To make program change
No Printing	X	
Printing		

System Data Dump	27	● All Parameters ● System Parameter ● Speed Call ● stop output NEXT SELECT MEMORY END All Para / System Para / CO Para / EXT Para / DSS Para / Speed Call / Stop Output ● CO Parameter NEXT SELECT MEMORY AB MEMORY END dial the CO number (01 through 12) until the CO Para appears ● Extension Parameter NEXT SELECT MEMORY AB MEMORY END dial jack number (01 through 32) until the EXT Para appears ● DSS Parameter NEXT SELECT MEMORY A MEMORY END dial DSS number (1 or 2) until the DSS Para appears

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Duration Time Count Start Mode	28	NEXT SELECT MEMORY END Instantly / 5s after dial / 10s after dial / 15s after dial

	Default	To make program change
Instantly		
5s after dial	X	
10s after dial		
15s after dial		

External Paging Access Tone — 29

NEXT NEXT SELECT MEMORY END
Enable / Disable
until the desired external paging equipment number (1 or 2) appears

	Default	To make program change	
	External paging 1 and 2	External paging equipment	
		1	2
Enable	×		
Disable			

CO Connection Assignment — 40

NEXT NEXT SELECT MEMORY END
Connect / Not Connect
until the desired CO number (01 through 12) appears

	Default	To make program change											
	all CO's	CO number											
		01	02	03	04	05	06	07	08	09	10	11	12
Connect	×												
Not connect													

Dial Mode (DTMF/ Pulse) — 41

DTM F / Pulse Selection

NEXT NEXT SELECT MEMORY END
DTMF Mode / Pulse Mode
until the desired CO number (01 through 12) appears

	Default	To make program change											
	all CO's	CO number											
		01	02	03	04	05	06	07	08	09	10	11	12
Tone (DTMF) Mode	×												
Pulse Mode													

Pulse Speed Selection — 42

NEXT NEXT SELECT MEMORY END
Low Speed / High Speed
until the desired CO number (01 through 12) appears

	Default	To make program change											
	all CO's	CO number											
		01	02	03	04	05	06	07	08	09	10	11	12
Low Speed	×												
High Speed													

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Host PBX Access Codes Assignment	43	NEXT NEXT A...D MEMORY END A...D: up to 8 outside access codes each with a maximum of 2 digits NEXT: until the desired CO number (01 through 12) appears

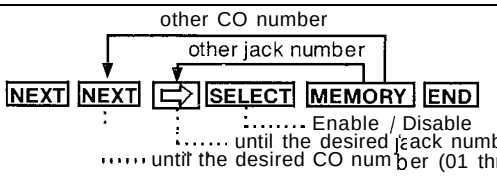
CO	Outside access codes of the host PBX							
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								

Trunk Group Assignment	44	NEXT NEXT A MEMORY END A: dial the trunk group number (1 through 8) NEXT: until the desired CO number (01 through 12) appears

	Default											
	CO number											
	01	02	03	04	05	06	07	08	09	10	11	12
Trunk group 1	×											
Trunk group 2		×										
Trunk group 3			×									
Trunk group 4				×								
Trunk group 5					×							
Trunk group 6						×						
Trunk group 7							×					
Trunk group 8								×	×	×	×	×

	To make program change											
	CO number											
	01	02	03	04	05	06	07	08	09	10	11	12
Trunk group 1												
Trunk group 2												
Trunk group 3												
Trunk group 4												
Trunk group 5												
Trunk group 6												
Trunk group 7												
Trunk group 8												

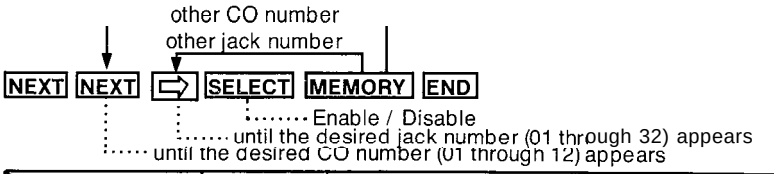
TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Flexible Outward Dialing Assignment Day Mode	45	



		Default	To make program change															
		all jack numbers	Jack number															
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
CO 1	Enable	×																
	Disable																	
CO 2	Enable	×																
	Disable																	
CO 3	Enable	×																
	Disable																	
CO 4	Enable	×																
	Disable																	
CO 5	Enable	×																
	Disable																	
CO 6	Enable	×																
	Disable																	
CO 7	Enable	×																
	Disable																	
CO 8	Enable	×																
	Disable																	
CO 9	Enable	×																
	Disable																	
CO10	Enable	×																
	Disable																	
CO11	Enable	×																
	Disable																	
CO12	Enable	×																
	Disable																	

		To make program change															
		Jack number															
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CO 1	Enable																
	Disable																
CO 2	Enable																
	Disable																
CO 3	Enable																
	Disable																
CO 4	Enable																
	Disable																
CO 5	Enable																
	Disable																
CO 6	Enable																
	Disable																
CO 7	Enable																
	Disable																
CO 8	Enable																
	Disable																
CO 9	Enable																
	Disable																
CO 10	Enable																
	Disable																
CO 11	Enable																
	Disable																
CO 12	Enable																
	Disable																

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Flexible Outward Dialing Assignment (cont.) Night Mode	46	



		Default	To make program change															
		all jack numbers	Jack number															
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
CO 1	Enable	×																
	Disable																	
CO 2	Enable	×																
	Disable																	
CO 3	Enable	×																
	Disable																	
CO 4	Enable	×																
	Disable																	
CO 5	Enable	×																
	Disable																	
CO 6	Enable	×																
	Disable																	
CO 7	Enable	×																
	Disable																	
CO 8	Enable	×																
	Disable																	
CO 9	Enable	×																
	Disable																	
CO10	Enable	×																
	Disable																	
CO11	Enable	×																
	Disable																	
CO12	Enable	×																
	Disable																	

		To make program change															
		Jack number															
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CO 1	Enable																
	Disable																
CO 2	Enable																
	Disable																
CO 3	Enable																
	Disable																
CO 4	Enable																
	Disable																
CO 5	Enable																
	Disable																
CO 6	Enable																
	Disable																
CO 7	Enable																
	Disable																
CO 8	Enable																
	Disable																
CO 9	Enable																
	Disable																
CO 10	Enable																
	Disable																
CO 11	Enable																
	Disable																
CO 12	Enable																
	Disable																

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Flexible Ringing Assignment Day Mode	47	

other CO number
other jack number

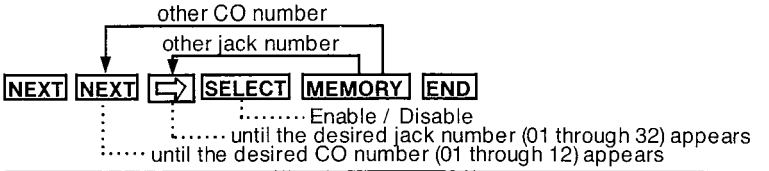
NEXT NEXT ⇨ SELECT MEMORY END

SELECT ..... Enable / Disable
⇨ ..... until the desired jack number (01 through 32) appears
NEXT ..... until the desired CO number (01 through 12) appears

		Default all jack numbers	To make program change Jack number 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
CO 1	Enable	×																
	Disable																	
CO 2	Enable	×																
	Disable																	
CO 3	Enable	×																
	Disable																	
CO 4	Enable	×																
	Disable																	
CO 5	Enable	×																
	Disable																	
CO 6	Enable	×																
	Disable																	
CO 7	Enable	×																
	Disable																	
CO 8	Enable	×																
	Disable																	
CO 9	Enable	×																
	Disable																	
CO10	Enable	×																
	Disable																	
CO11	Enable	×																
	Disable																	
CO12	Enable	×																
	Disable																	

		To make program change Jack number 17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CO 1	Enable																
	Disable																
CO 2	Enable																
	Disable																
CO 3	Enable																
	Disable																
CO 4	Enable																
	Disable																
CO 5	Enable																
	Disable																
CO 6	Enable																
	Disable																
CO 7	Enable																
	Disable																
CO 8	Enable																
	Disable																
CO 9	Enable																
	Disable																
CO 10	Enable																
	Disable																
CO 11	Enable																
	Disable																
CO 12	Enable																
	Disable																

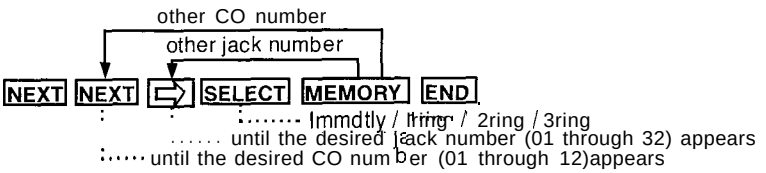
TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Flexible Ringing Assignment (cont.) Night Mode	48	



		Default	To make program change															
		all jack numbers	Jack number															
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
CO 1	Enable	×																
	Disable																	
CO 2	Enable	×																
	Disable																	
CO 3	Enable	×																
	Disable																	
CO 4	Enable	×																
	Disable																	
CO 5	Enable	×																
	Disable																	
CO 6	Enable	×																
	Disable																	
CO 7	Enable	×																
	Disable																	
CO 8	Enable	×																
	Disable																	
CO 9	Enable	×																
	Disable																	
CO10	Enable	×																
	Disable																	
CO11	Enable	×																
	Disable																	
CO12	Enable	×																
	Disable																	

		To make program change															
		Jack number															
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CO 1	Enable																
	Disable																
CO 2	Enable																
	Disable																
CO 3	Enable																
	Disable																
CO 4	Enable																
	Disable																
CO 5	Enable																
	Disable																
CO 6	Enable																
	Disable																
CO 7	Enable																
	Disable																
CO 8	Enable																
	Disable																
CO 9	Enable																
	Disable																
CO 10	Enable																
	Disable																
CO 11	Enable																
	Disable																
CO 12	Enable																
	Disable																

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Delayed Ringing Assignment Day Mode	49	

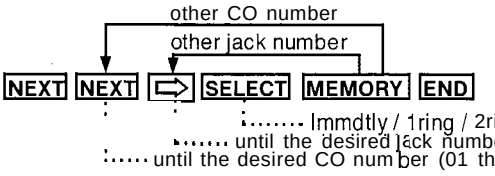


		Default	To make program change														
		all jack numbers	Jack number														
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
CO 1	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 2	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 3	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 4	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 5	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 6	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 7	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 8	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 9	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO10	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO11	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO12	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
)elayed Ringing ksignment Day Mode (cont.)		

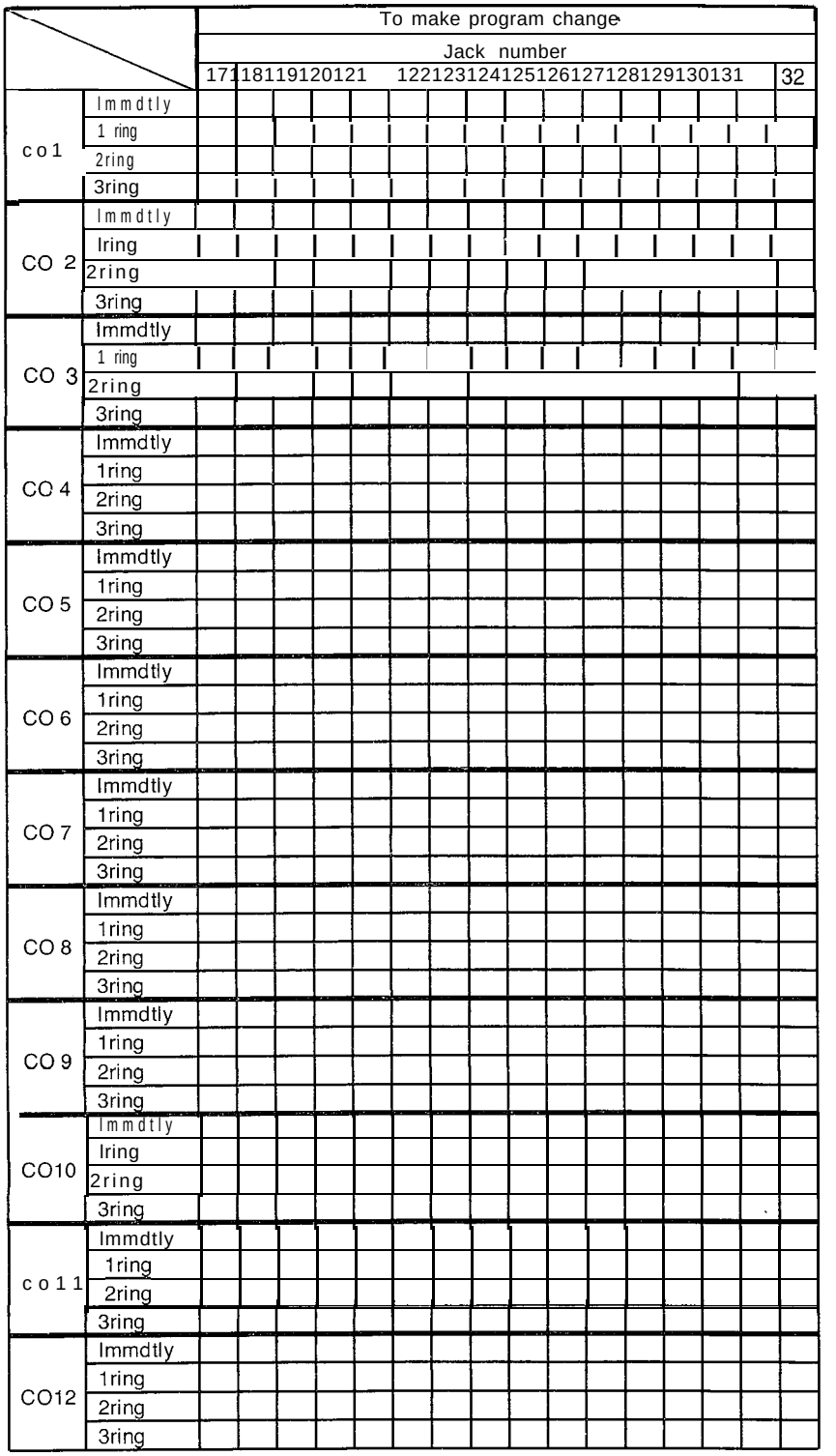
		To make program change															
		Jack number															
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CO 1	Immdtly																
	1ring																
	2ring																
	3ring																
CO 2	Immdtly																
	1ring																
	2ring																
	3ring																
CO 3	Immdtly																
	1ring																
	2ring																
	3ring																
CO 4	Immdtly																
	1ring																
	2ring																
	3ring																
CO 5	Immdtly																
	1ring																
	2ring																
	3ring																
CO 6	Immdtly																
	1ring																
	2ring																
	3ring																
CO 7	Immdtly																
	1ring																
	2ring																
	3ring																
CO 8	Immdtly																
	1ring																
	2ring																
	3ring																
CO 9	Immdtly																
	1ring																
	2ring																
	3ring																
CO10	Immdtly																
	1ring																
	2ring																
	3ring																
CO11	Immdtly																
	1ring																
	2ring																
	3ring																
CO12	Immdtly																
	1ring																
	2ring																
	3ring																

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Delayed Ringing Assignment (cont.) Night Mode	50	



		Default	To make program change															
		all jack numbers	Jack number															
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
CO 1	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 2	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 3	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 4	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 5	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 6	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 7	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 8	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO 9	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO10	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO11	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	
CO12	Immdtly	×																
	1ring																	
	2ring																	
	3ring																	

TO SET	ROGRAM DORESS	STEPS REQUIRED TO CHANGE PROGRAM
)elayed Ringing Assignment Night Mode (cont.)		



TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
CO Direct In Line Assignment Day Mode	51	

- Selecting the " Normal" mode

NEXT NEXT SELECT MEMORY END

Normal

until the desired CO number (01 through 12)appears

- Selecting the "DIL" mode

NEXT NEXT SELECT CD MEMORY END

DIL Dial jack number (01 through 32)

until the desired CO number (01 through 12)appears

	Default	To make program change											
	all CO's	CO number											
		01	02	03	04	05	06	07	08	09	10	11	12
Normal	×												
DIL													

When "DIL" mode

	CO number											
	01	02	03	04	05	06	07	08	09	lo	11	12
Jack number												

Night Mode	52	

- Selecting the " Normal" mode

NEXT NEXT SELECT MEMORY END

Normal

until the desired CO number (01 through 12)appears

- Selecting the "DIL" mode

NEXT NEXT SELECT CD MEMORY END

DIL Dial jack number (01 through 32)

until the desired CO number (01 through 12)appears

	Default	To make program change											
	all CO's	CO number											
		01	02	03	04	05	06	07	08	09	10	11	12
Normal	×												
DIL													

When "DIL" mode

	CO number											
	01	02	03	04	05	06	07	08	09	lo	11	12
Jack number												

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Pause Time Assignment	53	NEXT NEXT SELECT MEMORY END ..... 1.5sec / 2.5sec / 3.5sec / 4.5sec ..... until the desired CO number (01 through 12)appears

	Default	To make program change											
		CO number											
	all CO's	01	02	03	04	05	06	07	08	09	10	11	12
1.5sec													
2.5sec													
3.5sec	×												
4.5sec													

Hookswitch Flash Timing	54

NEXT NEXT SELECT MEMORY END
..... 300ms / 600ms / 900ms / 1200ms
..... until the desired CO number (01 through 12) appears

	Default	To make program change											
		CO number											
	all CO's	01	02	03	04	05	06	07	08	09	10	11	12
300ms													
600ms	×												
900ms													
1200ms													

Calling Party Control (CPC) Signal	55

NEXT NEXT SELECT MEMORY END
..... Disable / 6.5ms / 400ms
..... until the desired CO number (01 through 12) appears

	Default	To make program change											
		CO number											
	all CO's	01	02	03	04	05	06	07	08	09	10	11	12
Disable													
6.5ms													
400ms	×												

Disconnect Time	56

NEXT NEXT SELECT MEMORY END
..... 1.5 sec / 4.0 sec
..... until the desired CO number (01 through 12)appears

	Default	To make program change											
		CO number											
	all CO's	01	02	03	04	05	06	07	08	09	10	11	12
1.5 sec	×												
4.0 sec													

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Extension Group Assignment	60	NEXT → NEXT → A → MEMORY → END A: dial the extension group number (1 through 8) NEXT: until the desired jack number (01 through 32) appears
Service Class Assignment of Toll Restriction Day Mode	61	NEXT → NEXT → C → MEMORY → END C: dial the service class number (1 through 8) NEXT: until the desired jack number (01 through 32) appears

60 — Extension Group Assignment

	Default: all jack numbers	To make program change: Jack number 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
EXT GRP-1	×																
EXT GRP-2																	
EXT GRP-3																	
EXT GRP-4																	
EXT GRP-5																	
EXT GRP-6																	
EXT GRP-7																	
EXT GRP-8																	

	To make program change: Jack number 17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
EXT GRP-1																
EXT GRP-2																
EXT GRP-3																
EXT GRP-4																
EXT GRP-5																
EXT GRP-6																
EXT GRP-7																
EXT GRP-8																

61 — Service Class Assignment of Toll Restriction (Day Mode)

	Default: all jack numbers	To make program change: Jack number 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Class 1	×																
Class 2																	
Class 3																	
Class 4																	
Class 5																	
Class 6																	
Class 7																	
Class 8																	

	To make program change: Jack number 17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Class 1																
Class 2																
Class 3																
Class 4																
Class 5																
Class 6																
Class 7																
Class 8																

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Service Class Assignment of Toll Restriction (cont.) Night Mode	62	NEXT NEXT C MEMORY END ……dial the service class number (1 through 8) ……until the desired jack number (01 through 32)appears

	Default	To make program change														
	all jack numbers	Jack number														
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Class 1	×																
Class 2																	
Class 3																	
Class 4																	
Class 5																	
Class 6																	
Class 7																	
Class 8																	

	To make program change															
	Jack number															
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Class 1																
Class 2																
Class 3																
Class 4																
Class 5																
Class 6																
Class 7																
Class 8																

Extension Name	63	NEXT NEXT D SELECT MEMORY END ……until the desired letter appears ……dial (0 through 9, ✱ , or #) ……until the desired jack number (01 through 32) appears ● There is the phone number directory on page 7-1.
Account Code Input Mode	64	NEXT NEXT SELECT MEMORY END *-Option / Forced ……until the desired jack number (01 through 32)appears

	Default	To make program change														
	all jack numbers	Jack number														
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Option	×																
Forced																	

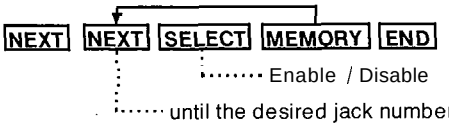
	To make program change															
	Jack number															
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Option																
Forced																

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Call Transfer To Outside Line	65	NEXT NEXT SELECT MEMORY END Enable / Disable until the desired jack number (01 through 32) appears
Call Forwarding To Outside Line	66	NEXT NEXT SELECT MEMORY END Enable / Disable until the desired jack number (01 through 32) appears
Executive Override	67	NEXT NEXT SELECT MEMORY END Enable / Disable until the desired jack number (01 through 32) appears

	Default	To make program change															
	all jack numbers	Jack number															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Enable																	
Disable	×																

	To make program change															
	Jack number															
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Enable																
Disable																

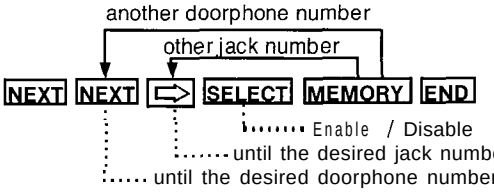
TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Do not Disturb Override	68	NEXT NEXT SELECT MEMORY END Enable / Disable until the desired jack number (01 through 32) appears



	Default	To make program change															
	all jack numbers	Jack number															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Enable																	
Disable	×																

	To make program change															
	Jack number															
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Enable																
Disable																

Ringing Assignment from Doorphone Day Mode	70	another doorphone number other jack number NEXT NEXT ⇨ SELECT MEMORY END Enable / Disable until the desired jack number (01 through 32) appears until the desired doorphone number (1 or 2)appears



		Default	To make program change															
		all jack numbers	Jack number															
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Doorphone 1	Enable	×																
	Disable																	
Doorphone 2	Enable	×																
	Disable																	

		To make program change															
		Jack number															
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Doorphone 1	Enable																
	Disable																
Doorphone 2	Enable																
	Disable																

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM
Ringing Assignment from Doorphone (cont.) Night Mode	71	another doorphone number other jack number NEXT NEXT ⇨ SELECT MEMORY END Enable / Disable until the desired jack number (01 through 32) appears until the desired doorphone number (1 or 2) appears

		Default	To make program change														
		all jack numbers	Jack number														
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Doorphone 1	Enable	×																
	Disable																	
Doorphone 2	Enable	×																
	Disable																	

		To make program change															
		Jack number															
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Doorphone 1	Enable																
	Disable																
Doorphone 2	Enable																
	Disable																

		NEXT SELECT MEMORY END Hold-1/Hold-2	
Call on Hold for Standard Telephone	91		

	Default	To make program change
Hold-i	X	
Hold-2		

System Data Clear	99	• All Parameters • System Parameter • Speed Call NEXT SELECT MEMORY END All Para / System Para / CO Para / EXT Para / DSS Para / Speed Call • CO Parameter NEXT SELECT MEMORY AB MEMORY END dial CO number (01 through 12) until the CO Para appears • Extension Parameter NEXT SELECT MEMORY AB MEMORY END dial jack number (01 through 32) until the EXT Paraappears • DSS Parameter NEXT SELECT MEMORY A MEMORY END dial DSS number (1 or2) until the DSS Para appears

KTS

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