Panasonic

MODEL NO. KX-A271

EIA / REMOTE PROGRAMMING

&

DIAGNOSIS MANUAL (Version 2)

Please read this manual before using the KX-A271.

Foreword

This manual describes how to use the KX-A271 software package which is used to assist in programming the Digital Super Hybrid Systems (abbreviated to "DSHS" in this manual) KX-TD1232 and KX-TD816. The KX-A271 enables you to confirm, change, load and save the System Data. It can also diagnose DSHS lines and cards, and edit files in a floppy disk (FD) or a hard disk (HD) in which the System Data is stored. For KX-TD1232, this version is applicable to ROM version P011J and ROM versions from P011N. However, the Batch files of inapplicable ROM versions can be saved in PC and they are converted to the new version automatically. The converted version can be loaded into the DSHS of applicable ROM versions.

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*: Available for KX-TD1232 only.

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Chapter 1 Introduction

1-1 The System

The Digital Super Hybrid System (abbreviated to "DSHS" in this manual) works under PC-DOS in IBM-PC. The system and data can be stored either in FD or HD.

1-2 System Configuration

The configuration of the system is as explained below.

1. Master Computer

The DSHS works with an IBM-PC XT/AT or compatible personal computers.

2. OS

Version 3.1 or later versions of PC-DOS (MS-DOS) is required.

3. Connection Cable

To connect the DSHS with an IBM-PC in the EIA mode, use an RS-232C cross cable. When you connect IBM-PC through the RS-232C interface port, the following sample chart should be used as a guide.

	DSHS		IBM-PC (9 pins)						
Circuit type (EIA)	Signal Name	Pin NO. (25 pins)		Pin NO.	Signal Name	Circuit type (EIA)			
AA	FG	1			a that a store in the second s				
BB	RXD	3	<	3	TXD	BA			
BA	TXD	2	>	2	RXD	BB			
CB	CTS	5	←	7	RTS	CA			
CA	RTS	. 4	>	statisti 8 . – 1	CTS	CB			
CD	DTR	20	>	6	DSR	CC			
AB	SG		$\langle \rangle$. 5	SG	AB			
CC	DSR	6	←	4	DTR	CD			

IBM-PC (25 pins)

Circuit type (EIA)	Signal Name	Pin NO. (25 pins)		Pin NO.	Signal Name	Circuit type (EIA)
AA	FG	1		1	FG	AA
BB	RXD	3	←───	2	TXD	BA
BA	TXD	2]>	3	RXD	BB
СВ	CTS	5	←───	4	RTS	CA
CĄ	RTS	4	$ \longrightarrow $	5	CTS	CB
CD	DTR	20	Ì>	6	DSR	CC
AB	SG	7		7	SG	AB
CC	DSR	6	<	20	DTR	CD

4. Modem

To connect the DSHS with an IBM-PC from a remote site, use a Hayes compatible modem (AT command). The RS-232C straight cable is necessary to connect the DSHS with an external modem.

(1) The modem which is used to connect with the DSHS must be able to use one of the following standards :

CCITT V.21, CCITT V.22, Bell 103, Bell 212A.

(2) The modem must be also able to use the following AT commands to assign the modem from the IBM-PC :

Z=Reset E=Echo back V=Result code B=Communication standard S=Register assignment D=Dial H=Line hook F=Full Duplex Mode +++=Escape

<Note>

If the modem cannot use the commands mentioned above, it may work improperly.

5. Hardware Requirement

The IBM-PC requires the following items.

• The KX-A271 floppy disk

- A communication adaptor
- CRT adaptor (CGA, EGA, MCGA, VGA, MDA)
- Two single-sided disk drives or a hard disk drive plus a single-sided disk drive
- Minimum of 640K of memory.
- 6. System Configuration

The configuration of the system is as illustrated below.



Select one of three methods to connect your IBM-PC with your DSHS.

1-3 File Configuration

The KX-A271 software is provided on a 3.5- inch FD, 2DD(720K byte) format. It contains the following file :

E1232A.EXE --Execution file

You may make the following files if desired.

*.DBE	Database file of Version 2.xx (for KX-TD1232 of ROM version P011J and of ROM versions from P011N)
*.DBD	Database file of Version 1.xx
*.DBA	ASC II file
	· · · · · · · · · · · · · · · · · · ·

1-4 Starting the System

- (1) Insert the KX-A271 disk into drive A.
- (2) Change the current directory to drive A.
- (3) Enter the command, "E1232A" after the prompt sign ">" and press Enter key.
- (4) The initial screen appears.

<Condition>

(1) You can exchange the original disk into the disk in which the database file is stored after the initial screen appears.

(2) You can copy the KX-A271 disk into a hard disk or a floppy disk.

(3) If your CRT adaptor is MDA, enter the command "E1232A /MDA".

Chapter 2 Before You Begin

This chapter provides you the basic operation which is common to all System Data Program including the layout of the screen, function keys, various messages, and the operating flow chart.

2-1 Page Organization

The figure below is a sample screen of CO Line Setting.

							•			-	
	CO Line Setting	 .		-(1)		Off-lir	ne(2)	KX-TD	232 Both-	(3)
										and shared a	is _{no} see lit
		ם י	D	р	C	CP	~	DII.	1.1	· .	
		I	т	p	T	Detect	ion	EX	ΓNo ⁻		— —(6)
			M	2 2	D	Mode	Out	Dav	Night		
	N O	L	F	0	D	mode	Out	Duj			
	· · · · · · · · · · · · · · · · · · ·								19.17 · · · · ·	1	
	01 🕅 [1] D	80	10	Ν	Disable I	Disable	EXT[109]	EXT[109]		en internet i ser
	02 N [2] P	160	20	Ν	100ms H	Enable	Disable	Disable		
	03 Y [3	D	80	10	Ν	200ms I	Enable	Disable	Disable		
	04 Y 14) P	80	10	N	300ms H	Enable	Disable	Disable		
	05 Y 15) P	80	10	Ν	400ms H	Enable	Disable	Disable		1 ÷
	06 Y [6) P	80	10	N	500ms E	Enable	Disable	Disable		(7)
	07 Y [7] P	80	10	Y	600ms H	Enable	Disable	Disable	алан (1998) С	u de Coja
	08 Y [8) P	80	10	Ν	400ms E	Enable	Disable	Disable		
	09 Y [8) P	80	10	N	400ms_ E	Enable	Disable	Disable		
	10 Y [8] P	80	10	N	400ms E	Enable	Disable	Disable	n an shi	
	11 Y [8] P	80	10	Ν	400ms E	Enable	Disable	Disable		
	12 Y [8	-] P	80	10	Ν	400ms E	Enable	Disable	Disable		
	L								<u> </u>		
							•				
	Hit spacebar to se	elect p	aram	eter				(4)			
		γ		4	HE	LP SP-PA	AGEGN	-PAGE7	SAVE 8	EXIT —	— — (5)
L		<u> </u>		1000	,		- <u>1013</u>		1.72		
(1)	Title Name:		Th	e tit	le of	the progra	m is dis	played he	ere.		
(2)	DSHS Connecti	ing									
	Status:		Th	e co	nditi	on of conn	ecting v	with the D	SHS is d	isplayed he	re.
			-	_							
(3)	Batch File Type	:	Or	ne of	the	following	Batch fil	le types is	s displaye	d.	
			• E	mpt	y:		No Ba	tch files a	are saved	in the syste	m.
			• K	X-T	D12	32 Both:	The B	atch files	of the K	x-TD1232 I	Master &
							Slave	are saved	in the sy	stem.	- ·
			• K	X-T	D12	32 Master:	: The B	atch file (of the KX	-TD1232 N	laster is
							saved	in the sys	stem.		

- KX-TD1232 Slave: The Batch file of the KX-TD1232 Slave is saved in the system.
- KX-TD816:
- 16: The Batch file of the KX-TD816 is saved in the system.

(4) Message:

Error Message, Status Message, and Operation Guide Message are displayed here.
Error Message: Appears when an error occurs.
Status Message: Appears when it is necessary to show the proceeding

job.

•Operation Guide Message: Shows the way of operation.

The order priority of the message is as following:

● Error Message ❷ Status Message ❸ Operation Guide Message .

- (5) Function Keys: Appear when it is possible to operate them. (For further information see "2-4 Function Keys")
- (6) Items: The names of items to be assigned.

(7) Fields:

Parameters are entered into them.

2-2



2-3

2-3 Assigning Items

This section provides you the basic operation of programming the assigning items.

- 1. Change the screens
 - (1) The initial screen

Press ENTER key to advance to the next screen.

② The menu screens

Press ENTER key to advance to the next screen. Press EXIT key to return to the initial screen.

③ The editing screens

Press F5 (P-PAGE) key to return to the previous page. Press F6 (N-PAGE) key to advance to the next page. Press EXIT key to return to the menu screen.

For further information about function keys, see "2-4 Function Keys"

2. Types of fields

There are two types of the fields. You can distinguish the type by a display of the cursor or a message.

(1) Selecting type

A parameter is highlighted. (Example A message "Hit spacebar to select......" appears. Disable)

② Entering directly type

The cursor is displayed as an underline in a field. (Example EXT[_]) A message "Enter......" appears.

⁻ 3. Move the cursor

You can use TAB key, ENTER key, or cursor keys to move the cursor to the next or the previous items.

•TAB key:	Moves the cursor to the right or lower item.
•SHIFT+TAB:	Moves the cursor to the left or upper item.
•ENTER key:	Moves the cursor to the right or lower item.
•T key:	Moves the cursor to the upper item.
•↓ key:	Moves the cursor to the lower item.
•→key:	Moves the cursor to one figure right or the right item.
•←key:	Moves the cursor to one figure left or the first character of the left item.

- 3. Enter, correct and change parameters
 - () Selecting type

•Press the spacebar a few times until you find the parameter you need.

•Press BS key, which displays the parameters in the inverted order of the spacebar until you find the parameter you need.

•F4 (HELP) provides you the explanation of assigned items and a list of parameters.

② Entering directly type

•Enter dialing numbers, numerals, alphabets and punctuation marks etc. directly.

•You must enter parameters from a left end.

•Correcting Move the cursor to the parameter you want to correct and enter a new parameter.

•Deleting Press BS key and the cursor moves to one figure left and delete one letter. Move the cursor to the letter you want to delete, and press DEL key. Press Ctl + Home to delete the parameter in which the cursor is placed.

•Inserting Move the cursor to the letter before which you want to insert letters. Press INS key needed times, and enter a parameter there.

•Press F4 (HELP) key so that you can see the explanation of assigned items and also characters, numbers, and the range of numbers you can enter.

2-4 Function Keys

						• Alternation and a second			
	2 COI	Y 3	4 HE	LP SP-P	AGE <mark>6</mark> N-P	AGE SAVE 8 H	EXIT		
					G	CONNECT 8			
F2 (COPY) :	Copi (For	ies parame further in	eters by CC formation) lines, ex see "2-5 L	tensions, (Jse of F2 (CO linc groups or j COPY) Key")	ack numbe	:rs.	
F4 (HELP) :	Expl	ains assig	ned items.	an an Arrana Arrana					
F5 (P-PAGE)	: Retu	ms to the	previous p	age. The M			i derta i Alexa		
F7 (SAVE) :	Save	s the data	displayed	on the scr	een.				
F7 (CONNEC	CT) :Coni	nects your	IBM- PC	with the L	OSHS.				
F8 (EXIT) :	Retu	ms to the	Menu scre	en.		a Nobel and Nobel Alexandra			
<condition></condition>							and da an An An Ai		
(1) When yo	n press	F5 (P-PA(JE), F6 (N	-PAGE) o	r F8 (EXI	T) without pressing	9 F7 (SAV	E) to save	e the

- (1) When you press F5 (P-PAGE), F6 (N-PAGE) or F8 (EXIT) without pressing F7 (SAVE) to save the changed data, a message "Screen will be changed without saving new data. OK?(Y/N) ⇒" appears. Press "Y" or "y" to carry out or press "N" or "n" to cancel.
- (2) If your IBM-PC is disconnected from the DSHS while saving the data, you should save it again after reconnecting the PC.

2-5 Use of F2 (COPY) Key

F2 (COPY) is used to copy parameters of items (by CO lines, extensions, CO line groups or jack numbers).

<Operation>

- (1) Move the cursor to one of the parameters of the group you want to copy from.
- (2) After pressing F2 (COPY), the group turns highlighted and a message "Enter start range xxxx No.
 []" appears. "Xxxx" can be Jack, CO, TRG etc.
- (3) Enter the number of the first group you want to copy from. When you press ENTER key a message "Enter end range xxxx No. []" appears. "Xxxx" can be Jack, CO, TRG etc.
- (4) Enter the number of the last group you want to copy the data to. Press ENTER key, and the data are copied to the assigned groups.
- (5) Press ESC to quit.

<Example>

In CO Line Setting, copy the data of CO No.02 to CO No.05 and 06.

											the second s	
	CO	С	Т	D	D	Р	С	CPC	DIL	.1:1		
	No.	0	R	Ι	Т	Р	Ι	Detection .	EX	T No		
		Ν	G	Α	Μ	S	D	Mode Out	Day	Night		
				Ľ	F			in an that share	e suite	an an tha an	n yang d	
											adean ann	
	01	Y	[1]	D	80	10	Ν	Disable Disable	EXT[109]	EXT[109]		
	02		[2]	Ρ	160	20	Ν	100ms Enable	Disable	Disable		
t in	03	Y [[3]	D	80	10	N	200ms Enable	Disable	Disable		
											·	
	2	CC)PY	3		4	HE	LP 5P-PAGE6N	-PAGE7	SAVE 8	EXIT	

() Move the cursor to the line of CO 02.

COCT D D Ρ C CPC DIL 1:1 No. O R EXT No I Т Ρ I Detection N G Night Α Μ S D Mode Out Day L F 80 10 N Disable Disable EXT[109] EXT[109] 01 Y [1] D 02 N [2] P 60 20 N 100ms Enable Disable Disable 200ms Enable Disable Disable 03 Y [3] D 80 10 N Enter start range CO No. [4 HELP 5 P-PAGE6 N-PAGE7 SAVE 8 EXIT 2 COPY 3 1

Press F2 (COPY) and the all data of CO No.02 turn highlighted.
 A message "Enter start range CO No. []" appears. Press F2 again if you want to return to the previous stage(①).

		andar ar t	CO No.	C O N	T R G	D I A L	D T M F	P P S	C I D	C Dete Mode	PC ction Out	DIL EX Day	1 : 1 Γ No Night		
			01	Y	[1]	D	80	10	N	Disable	Disable	EXT[109]	EXT[109]		
			02	Ń	[2]	Р	160	20	N	100ms	Enable	Disable	Disable		
			03	Y	[3]	D	80	10	N	200ms	Enable	Disable	Disable		
			04	Y	[4]	Ρ	80	10	Ν	300ms	Enable	Disable	Disable		
			05	Y	[5]	Р	80	10	N	400ms	Enable	Disable	Disable		
		х. Х.	06	Y	[6]	Р	80	10	Ν	500ms	Enable	Disable	Disable		
		Enter	start	rar C	ige C OPY	CO N	lo. [0	5	}	P-P	AGE 6 N	-PAGE	SAVE	EXIT	
3	Eı	nter CO	No.C)5.	Pres	ss F2	agai	n if y	/ou 1	want to re	eturn to th	ne previou	is stage (①).	
			CO	Ċ	т	D	D	Р	С	C	PC	DIL	1:1	des filmer	
			No.	0	R	I	T	P	Ĩ	Dete	ction	EX	Г No	ter en	
				N	G	A L	M F	S	D	Mode	Out	Day	Night		
			01	Y	[1]	D	80	10	N	Disable	Disable	EXT[109]	EXT[109]	e e stiget	
			02	N	[2]	P	160	20	N	100ms	Enable	Disable	Disable		
	•		03	Y	[3]	D	80	10	N	200ms	Enable	Disable	Disable	an adam an	
			04	Y	[4]	Р	80	10	Ν	300ms	Enable	Disable	Disable		
			05	Y	[5]	Р	80	10	Ν	400ms	Enable	Disable	Disable		
			06	Y-	[6]	Р	80	10	Ν	500ms	Enable	Disable	Disable		
		Enter	end r	ang	ge C	O No	o. []	·						
		1	2]C(OPY	3		4		SP-P	AGE6N	-PAGE	SAVE 8	EXIT	
4	Pr	ess EN	TER I	key	and	a m	essag	çe "E	nter	end rang	e CO No	.[]] ap	pears.		

СОСТ CPC С DIL 1:1 D D \mathbf{P}_{ℓ} No. O R Ý I EXT No I Т Detection N G S Day A М D Mode Out Night L F 01 Y [1] D 80 10 N Disable Disable EXT[109] EXT[109] 02 N [2] P 160 20 N 100ms Enable Disable Disable 03 Y [3] 10 200ms Enable Disable Disable D 80 Ν 04 Y [4] 10 300ms Enable Disable Disable P 80 Ν 05 Y [5] 400ms Enable Disable Disable P 80 10 Ν 06 Y [6] P 80 10 Ν 500ms Enable Disable Disable Enter end range CO No. [06] SP-PAGEON-PAGE SAVE 8 EXIT 4 2 COPY 3

СОСТ CPC С D D Ρ DIL 1:1 No. O R I Т Ρ Ι Detection EXT No NG S Mode Α Μ D Out Night Day L F 10 N Disable Disable EXT[109] EXT[109] 01 Y [1] D 80 02 N [2] 100ms Enable 160 20 Ρ N **Disable Disable** 03 Y [3] 200ms Enable D 80 10 N **Disable Disable** 300ms Enable 04 Y [4] Ρ 80 10 N Disable Disable 100ms Enable 05 N [2] Ρ 160 20 Ν **Disable Disable** 06 N [2] P 160 20 N 100ms Enable **Disable** Disable 2 COPY 3 SP-PAGE6N-PAGE7 SAVE 8 EXIT 4

Press ENTER key and the data of CO No.05 and No.06 turn to the same as CO No.02. The data are saved and the screen returns to the previous stage(①).

<Note>

- (1) Press ESC key at any stage to quit the copy mode.
- (2) When you copy the data of Flexible Keys or DSS, the data of the whole screen are copied to another. You cannot copy a part of them.

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2-6 Help Option

If you need the explanation of the item on which the cursor is placed, press F4 (HELP). Help screen illustrated below appears.

<ex< th=""><th>am</th><th>pl</th><th>e></th></ex<>	am	pl	e>

(

Station Set	ting 4	:	Off-line	KX-TD1232 Both
Jack			DIL 1:N	a and a second
	Da	ау	Nig	ht
	00000000111	1111111222	22 00000000111	111111122222
	123456789012	3456789012	34 123456789012	345678901234
01-1	00000000000000000	000000000	00 000000000000000000000000000000000000	0000000000
01-2	000000000000	000000000	DO DDDDDDDDDDDD	0000000000
02-1	000000000000	000000000	000000000000000000000000000000000000000	00000000000
02-2	000000000000	000000000	0000000000 00	0000000000
03-1	000000000000000000000000000000000000000	000000000	0000000000 00	0000000000
03-2	000000000000000000000000000000000000000	000000000	0000000000 00	00000000000
04-1	0000000000000	000000000	0000000000 00	00000000000
04-2	00000000000	000000000	0000000000 00	00000000000
05-1	003000DDDDDD	000000000	0000000000 00	00000000000
05-2	000000000000000000000000000000000000000	000000000	0000000000 00	0000000000
06-1	D600DDDDDDDDD	000000000	00000000000 00	00000000000
06-2	D600DDDDDDDDD	0000000000	0000000000 00	00000000000
07-1	000000000000000000000000000000000000000	000000000	0000000000 00	00000000000
07-2	000000000000000000000000000000000000000	0000000000	00 0000000000 00	00000000000
08-1	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	00000000000
08-2	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	00000000000
Enter nume	rric code	4 HELP	SP-PAGE N-PAGE	SAVE BEXIT
Press F4	(HELP) key		<u></u> 个	Press F8(EXIT) ke
Evolopoti		Doloy Ding T		
Ехріанац		Delay King 1	nincs)	
DIT 1.N	Der Altaha			
DIL I : N	Ling 1 + N Exten	cion and Dala	ved Ringing Day /	Night)
Dieterm	LINE I. IN EXTEN	SION AND DER	iyeu Kinging —Day /	ingin)
A coime +	a state of DIL 1	N to each av	tension in day mode (or in night mode
D · Dienh	le A: Immediate	1 • 1 Ringe (1. 3 Ringe 6.6 Ring	s. N · No Rings
J. JISAU	ie, e i mineuiale,	r . r reings, .		o,

2-7 Mode Structure

There are two types of editing modes.

1. Batch Editing Mode

This is the way to program the DSHS by editing the PC database(DB). To use this mode, you must first load Disk File DB or save DSHS DB into PC DB.



2. Interactive Editing Mode

This is the way to program the DSHS directly from the PC terminal connected by the RS-232C or the MODEM.



Single system or System Connection

<Note>

When the single system is operating, parameters of some items cannot be assigned to the system which is not operating. They are not displayed in the screens.

2-11







2-14

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3-1 Intial Screen

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The screen below is displayed when you start the DSHS program.

Main Menu	Off-line	KX-TD1232 Both
Par Digital Super Operating & Main (C) COPYRIGHT 1993 KYUSHU	aasonic r Hybrid System tenance Tool Ver 2.xx MATSUSHITA ELEC	TRIC CO., LTD.
 System Data I System Data I Disk File Man DSHS Manag DSHS Conne Quit Select the nur 	Programming (Batch) Programming (Interact nagement cement ct / Disconnect nber :[_]	ive)
Enter the number, and hit ENTER key	5 6	7 8
	• • • •	
<pre>kplanation></pre>		
System Data Programming (Batch) Edits System Data in Batch Editing Mode.		
System Data Programming (Interactive) Edits System Data in Interactive Editing M	ode.	
Disk File Management Loads the data from the disk and saves the	n into the disk in Batc	h Editing Mode.
DSHS Management Saves the data from DSHS and loads them DSHS in Interactive Editing Mode.	into DSHS in Batch E	diting Mode and also diagno

- [5] DSHS Connect / Disconnect Connects the PC terminal with the DSHS by RS-232C or MODEM and disconnects from the DSHS.
- [6] Quit Returns to MS-DOS System.

<Operation>

- (1) Enter the number of the program, and press ENTER key.
- (2) When you select "1. System Data Programming (Batch)", you must choose "3. Disk File Management" or "4. DSHS Management" first to load or save the system data into PC DB.
- (3) When you select "2. System Data Programming (Interactive)" or "4. DSHS Management", you must choose "5. DSHS Connect / Disconnect" first to connect the PC terminal with the DSHS.

(4) Select "6. Quit" to return to MS-DOS.

<Condition>

When you select "2. System Data Programming (Interactive)" or "4. DSHS Management" without connecting the PC terminal with the DSHS, a message "Please connect with the DSHS by 5. DSHS Connect / Disconnect".

4-1 Main Menu

The screen below appears first when you select "1. System Data Programming (Batch)".

System Data Programming Main Menu	Off-line	KX-TD1232 Both
2. Station		
3. System		
4. Toll Re	striction	an a
5. ARS		
6. Aux. P	orts	
7. Additic	onal Function	
8. Caller 1	D	
Select the	number : [_]	
Enter the number, and hit ENTER key	5 · 6 [7 8 EXIT

<Operation>

(1) Enter the number of the program, and press ENTER key.

(2) Press F8 (EXIT) to return to the initial screen.

4-2 Line

The screen illustrated below appears when you select "1. Line".

Line Menu	Off-line	KX-TD1232 Both		
		an a		
	•			
		and and a second se		
	n in the second s	ha an thair go an tha an tao an ta		
1. CO Lin	Setting			
	Crowne (TDC)			
	Groups (TKG)	2.95 2.95		
Select the	number : [_]			
		an a far e group a said		
Enter the number, and hit ENTER key	1 (22) 1 (22)			
		N EXIT		

<Operation>

(1) Enter the number of the program, and press ENTER key.

(2) Press F8 (EXIT) to return to Main Menu screen.

CO Line Setting 1.

	CO Line Setting	Off-line	KX-TD816
		CPC DIL	1:1 Reverse
	No. O R I T P I D N G A M S D Mod L F	etection EXT e Out Day	No. Circuit Night
	01 1 D 80 10 N Disate 02 N [2] P 160 20 N 100m 03 Y [3] D 80 10 N 200m 04 Y [4] P 80 10 N 300m 05 Y [5] P 80 10 N 400m 06 Y [6] T 30 10 N 400m 06 Y [6] T 30 10 N 400m 06 Y [7] P 80 10 N 400m 07 Y [7] P 80 10 N 400m 08 Y [8] P 80 10 N 400m	le Disable EXT[109] as Enable Disable as Enable Disable as Enable Disable as Enable Disable as Enable Disable as Enable Disable as Enable Disable bis Enable Disable as Enable Disable	EXT[109] Reverse Disable Regular Disable Regular Disable Regular Disable Regular Disable Regular Disable Regular Disable Regular
			SAVE & LAII
<ex< td=""><td>planation></td><td></td><td></td></ex<>	planation>		
[1]	CON (CO Line Connection Assignment) Assigns connecting states of CO lines.		[400]
[2]	TRG (CO Line Group Assignment) Assigns individual CO lines to one CO line g	roup.	[401]
[3]	DIAL (Dial Mode Selection) Assigns the dial mode to each CO line.		[402]
[4]	DTMF (DTMF Time) Sets the DTMF time of CO lines. It is availa	ble when the dial mod	[404] e is assigned DTMF.
[5]	PULSE PPS (Pulse Speed Selection) Sets the pulse speed of CO lines. It is available	ble when the dial mode	[403] e is assigned PULSE.
[6]	CID (Caller ID Assignment) Assigns to identify calling parties.		[406]

(8)

4-3

[7] CPC Detection Mode (CPC Signal Detection Incoming Set) Sets the CPC signal detection time when either calling or called party goes on hook	[405]
[8] CPC Detection Out (CPC Signal Detection Outgoing Set) Assigns to enable or disable to detect the CPC signal while calling .	[415]
 [9] DIL 1 : 1 EXT No. Day / Night (Direct In Line Extension — Day / Night) Assigns an extension for a DIL 1:1 destination during day time or night time. 	[407, 408]
 [10] Reverse Circuit (Reverse Circuit Assignment) Enables or disables to detect Reverse Circuit. This feature is available for KX-TD816 only. 	[416]
<operation></operation>	•; · · · · · · · · · · · · · · · · · · ·
 For KX-TD1232, this program consists of two pages. One displays CO No.01 througother displays CO No.13 through 24. For KX-TD816, this program consists of one page. It displays CO No.01 through 04 	gh 12 and the 8.
(2) Move the cursor to the field in which you want to set a parameter.	
(3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.	
(4) Use F2 (COPY) if you want to copy the data of one CO No. in another.	
(5) Press F8 (EXIT) to return to Line Menu screen.	
<condition></condition>	
(1) It is possible to assign Floating Extension Number as an extension number in DIL 1	: 1.
(2) When the single system is operating, the data of DIL 1 : 1 of the system which is not cannot be assigned and they are not displayed in the screen.	operating
(3) When you copy the data of DIL 1:1, it is invalid to copy in or from the data which ar	e not displayed.
<pre> Note></pre>	
The numbers beside the items are program addresses which are used when you program the proprietary telephones.	ne system by

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TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default
CON	Selecting	Y : Connect or N : Disconnect	Y AND
TRG	Direct	1 through 8 1 digit Storages 4 and a storage a Storage 4 and 4 a	CO01=1, CO02=2 CO03=3, CO04=4 CO05=5, CO06=6 CO07=7, CO08=8 CO09=8 through CO24=8 (KX-TD1232)
DIAL	Selecting	D : DTMF, P : Pulse, C : Call Block	D
DTMF	Selecting	80 or 160	80
PULSE (PPS)	Selecting	10 or 20 and all and a second se	10 10 2012
CID	Selecting	Y : Identify or N: Not identify	N
CPC Detection Mode	Selecting	Disable, 100ms, 200ms, 300ms, 400ms, 500ms, 600ms	400ms
CPC Detection Out	Selecting	Disable or Enable	Disable
DIL1 : 1 EXT No. Day / Night	Selecting and Direct	Disable or EXT [] (After selecting EXT []) 0 through 9 · 2, 3 or 4 digits	Disable
Reverse Circuit	Selecting	Reverse (detection) or Regular (no detection)	Regular

60

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CO Line Groups (TRG) 2.

1. e e

T Intercept R Flash Pause Time DSC Time R EXT No. Time Time Time G Day Night (msec) (sec) (sec) 1 EXT [100] EXT [100] NO 1.5 1.5 2 Disable Disable 80 1.5 1.5 3 Disable Disable 96 1.5 1.5 4 Disable Disable 112 1.5 1.5 5 Disable Disable 200 1.5 1.5 6 Disable Disable 300 1.5 1.5 7 Disable Disable 400 1.5 1.5 8 Disable Disable 1200 1.5 1.5 8 Disable Disable 1200 1.5 1.5	PBX Acc 1 2 3 [01] [08] [10	ess 4
1 EXT [100] EXT[100] NO 1.5 1.5 2 Disable Disable 80 1.5 1.5 3 Disable Disable 96 1.5 1.5 4 Disable Disable 112 1.5 1.5 5 Disable Disable 200 1.5 1.5 6 Disable Disable 300 1.5 1.5 7 Disable Disable 1200 1.5 1.5 8 Disable Disable 1200 1.5 1.5	[01] [08] [10	
Hit spacebar to select parameter	[01] [08] [[01] [08] [12 [01] [] [12 [02] [32] [[02] [22] [32 [02] [] [12 [] [] [)] [22]] []] []] [82]] []] []] [2]] [2]] []
Hit spacebar to select parameter		
		VE 🕈 EXIT
lanation>	SA	

- . [2] Flash Time (Flash Time) [413] Sets the length of the Flash Time. [3] Pause Time (Pause Time) [412] Sets the length of the Pause Time. [4] DSC Time (Disconnect Time) [414]
 - [5] PBX Access (Host PBX Access Codes) [411] Assigns the Host PBX access codes.

Sets the length of the disconnecting time.

4-6

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Use F2 (COPY) if you want to copy the data of one CO line group in another.
- (4) Press F8 (EXIT) to return to Line Menu screen.

<Condition>

- (1) It is possible to assign Floating Extension Number of Pager and DISA as an Intercept Extension number.
- (2) In case of the redundant storage of PBX Access No., 1 digit entry is valid. EXAMPLE; 8 is more valid than 81.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Sclection of parameter	Default
Intercept EXT No. Day / Night	Selecting and Direct	Disable or EXT [] (After selecting EXT []) 0 through 9 2,3 or 4 digits	Disable
Flash Time	Selecting	NO, 80, 96, 112, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200	600
Pause Time	Selecting	1.5, 2.5, 3.5, 4.5	1.5
DSC Time	Selecting	1.5 or 4.0	1.5
PBX Access No.	Direct	0 through 9 Maximum 2 digits *(a wild card character)	Not Stored

TABLE of ITEMS

(a wild card character) is used as any number.

For example:

 $0 \times$ applies to numbers which begin with 0.

 $9 \times$ applies to numbers which begin with 9.

4-3 Station

The screen illustrated below appears when you select "2. Station."

【1946年1月1日)。 [1

Statior	n Menu		Off-line	KX-TD1232 Both		
	in the second	, L	1. 18 ⁶ .		na an a	
		1. Station Se	etting 1			
		2. Station Se	etting 2 And the N			
		3. Station Se	etting 3			
		4. Station Se	ettnig 4			
		5. Flexible k	Keys 1	114		
		6. Flexible k	Ceys 2 Consult Constant Constant			
		7. DSS				
				•		
		Select the nu	mber : [_]			
nter ti	he number, and hit ENT	ER key				
	2 3	4 HELP S	6	7	8 EXIT	

<Operation>

. (1) Enter the number of the program, and press ENTER key. The result of the new theorem the return of the return

(2) Press F8 (EXIT) to return to Main Menu screen.

<Condition>

When you assign "Station Setting 2", "Flexible Keys 1", "FlexibleKeys 2", or "DSS" in Interactive Editing mode, the data are not loaded into DB of the DSHS by pressing only F7 (SAVE) key. They are only saved in DB of the IBM-PC. If you want to load the data into DB of the DSHS, you must press F7 (SAVE) and then F8 (EXIT) key.

Station Setting 1 1.

[4]

[5]

Station S	Off-line			KX-TD1232 Both					
	dia kaominin'	a sa	e system of the second	-				:	an ta' nye
	Jack	EXT	Name	X	E]	Door	phone	
				D	Х	Da	ay	Nigh	t
				Р	G	12	34	121	34
					•				
	01.1	(101)	· · · · · · · · · · · · · · · · · · ·	henne stracki V	r17	vv	vv	vvv	<i></i>
	01-1	[101]	[Operator-1]	I		I I NV	I I NINI	I I I I	L L ATNT
	01-2	[201]	[Operator-2]	lanti Teste V	[4]: [1]			NNN	N IN A DA
	02-1	[102]	[Manager]	L	[1]		vv		
	02-2	[202]		I NI	[1]	NN	NN	NNN	I I J NJ
	03-1	[202]			[1]	NN	NN	NNN	JN
	03-2	[205]		I N	i. [1] [1]	NN	NN	NNN	N IN
	04-1	[104]		14	[1]	NN	NN	NNN	JN
	04-2	[204]	(Rose 1	\mathbf{v}	[1]	NV	NN	NNN	JN
	05-2	[205]	[Doss 1]		[2]	NN	NN	NNN	JN
	05-2	[205]		V	[2]	NN	NN	NNN	JN
	06-1	[206]	i j		[2]	NN	NN	NNN	JN
	07-1	[107]	[Boss 2]	N	[2]	NN	NN	NNN	JN
	07-1	[207]	[Secretary 2]		[3]	NN	NN	NNN	JN
	07-2	[108]		Y	[3]	NN	NN	NNN	JN
	08-2	[208]	í J	_	[3]	NN	NN	NNN	JN
	00 2	[200]	L J		[2]				
Enternu	meric cov	io							
		v B		DDACE	GN D		CA.		EVIT
	<u>zcor</u>	1 (2)		Jr-FAOL	0:14-1	KOL	JSA	V L [0] I	
								·	
Janations									
nanación>									
EXT (Exten	sion Nun	ber Set)	I					ſ	0031
Assigns an e	extension	number	to each extension	n. 1997 - 1993				t. Na in the	
			ý l						-
Name (Exter	nsion Na	me Sct)	1					. [004]
Assigns a us	er's nam	e to each	extension.						
XDP (Extra	Device F	'on)						[600]
Assigns eacl	h extensi	on port (jack) to be conne	ected with	n a sta	ndard	telep	hone o	r a propr
telephone in	parallel	or not.							
EXG (Exten	sion Gro	up Assig	nment)					[602]
Assigns indi	vidual ex	tensions	to one extensior	ı group.					
•									
Doorphume I	Jay / Nig	ht (Dooi	phone Ringing A	Assignme	ent —- l	Day / I	Night	l) [607,608
Assigns exte	ensions to	answer	a doorphone dur	ing day r	node (or nig	nt mo	ode.	

<Operation>

- For KX-TD1232, this program consists of 8 pages. The first page displays Jack No.01-1 through 08-2. The second page displays Jack No.09-1 through 16-2. The third page displays Jack No.17-1 through 24-2. The forth page displays Jack No.25-1 through 32-2. The fifth page displays Jack No.33-1 through 40-2. The sixth page displays Jack No.41-1 through 48-2. The seventh page displays Jack No.49-1 through 56-2. The last page displays Jack No.57-1 through 64-2. For KX-TD816, this program consists of 2 pages. The first page displays Jack No.01-1 through 08-2. The last page displays Jack No.09-1 through 08-2.
- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Use F2 (COPY) if you want to copy the data of one Jack No. in another.
- (7) Press F8 (EXIT) to return to Station Menu screen.

<Condition>

- (1) A maximum of two doorphones are available for KX-TD816.
- (2) The extension numbers must be assigned.
- (3) The extension numbers and the extension names are unable to be copied.
- (4) The XDP feature cannot be assigned to Jack xx-2.
- (5) When you copy the data, those of Jack xx-1 and Jack xx-2 are regarded as one and they are copied together.
- (6) Immediately after changing your assignment of XDP, changed setting may not work for a maximum of eight seconds.
- (7) The XDP feature must be assigned "Disable" for DSS ports.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Table of Items

Assigning Items	Type of Field	Selection of parameter	Default
EXT	Direct	O through 9	For KX-TD1232 Jack01-1=101 Jack02-1=102 Jack64-1=164 Jack01-2=201 Jack02-2=202 Jack 64-2=264 For KX-TD816 Jack01-1=101 Jack02-1=102 Jack16-1=116 Jack01-2=201 Jack02-2=202
Name	Direct	0 through 9, A through Z, a through z, Maximum * # ! ? Space . , ':; / +- = <> \$ % & @() 10 characters	Not Stored
XDP .	Selecting	Y : Enable or N : Disable and a state of the	N
EXG	Direct	1 through 8 1 digit	1
Doorphone Day/ Night	Select	Y : Enable or N : Disable	Jack 01-1=Y Other Jacks=N

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4-11

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2. Station Setting 2

Station Setting	2		Off-line	KX-TD1232 Both
<u>en en e</u>				
Jack	С	Mailbox		
	0	ID		
	S			
				$(X_{ij}) = (1 + 1)^{-1} (1 + $
01-1	[1]	[123456789012345	56]	and the second sec
01-2	[1]	[10]]	
02-1	[1]	[102	j ago a como	
02-2	[1]	[103]	
03-1	[1]	[104]	an an Article and Article a Article and Article and
03-2	[1]	[105]	
04-1	[1]	[106] (*	each deal anns an tha anns an t
04-2	[1]	[107]	
05-1	[2]	[110]	
05-2	[3]	[11]]	
06-1	[3]	[112]	
06-2	[3]	[113]	•
07-1	[2]	[114]	
07-2	[3]	[115] '	
08-1	[3]	[116	j	
08-2	[3]	[117]	
Enter numeric c	ode	www.comerce.com		and the second
	3	HELP	5 P-PAGE6 N-PAG	E7 SAVE 8 EXIT

<Explanation>

[1] COS (Class of Service) Assigns the Class of Service number to each extension. [601]

- [2] Mailbox ID (Voice Mail Access Codes) Assigns the access codes for Voice Processing System.

<Operation>

 For KX-TD1232, this program consists of 8 pages. The first page displays Jack No.01-1 through 08-2. The second page displays Jack No.09-1 through 16-2. The third page displays Jack No.17-1 through 24-2. The forth page displays Jack No.25-1 through 32-2. The fifth page displays Jack No.33-1 through 40-2. The sixth page displays Jack No.41-1 through 48-2. The seventh page displays Jack No.49-1 through 56-2. The last page displays Jack No.57-1 through 64-2. [609]

For KX-TD816, this program consists of 2 pages. The first page displays Jack No.01-1 through 08-2. The last page displays Jack No.09-1 through 16-2.

- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Press F2 (COPY) to copy the data of one jack number in another.
- (7) Press F8 (EXIT) to return to Station Menu screen.

<Condition>

The Mailbox ID numbers are usually extension numbers, but the number you assigned here becomes valid when SYS2 Bit8 is assigned "free" in Additional Functions. (See 4-8 Additional Functions.)

<Note>

- (1) The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.
- (2) When the single system is operating, the data of all items in the screen of the system which is not operating cannot be assigned and they are not displayed in the screen.
- (3) It is invalid to copy to and from the data which are not displayed.

Assigning -Items	Type of Field		Selection of parameter	ta an Na Cara	Default
COS	Direct	1 through 8	1 digit		1 1 100 (1)00
Mailbox ID	Direct	0 through 9	★ # P or p (PAUSE)Maximum16 digits		Not Stored

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TABLE of ITEMS

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3. Station Setting 3

Stati	ion Setti	ng 3	Off-line	KX-TD1232 Both
	Iack		CO line OG	
	Jack	Dav	N	ght
		00000000111 111111222	222 00000000111	111111122222
		123456789012 3456789012	234 123456789012	345678901234
	01-1	ΜΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	ΥΥΥ ΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥ	YYYYYYYYYYYY
	01-2	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	ΥΥΥ ΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥ	YYYYYYYYYYYYY
	02-1	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	YYY YYYYYYYYYYYYYY	YYYYYYYYYYYY
	02-2	YYYYYYYYYYY YYYYYYYY	<u> </u>	ΥΥΥΥΥΥΥΥΥΥΥΥ
	03-1	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥΥ	γ γγγγγγγγγγ	ΥΥΥΥΥΥΥΥΥΥΥΥ
	03-2	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	<u> </u>	YYYYYYYYYYYY
	04-1	ΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	יזי זיזיזיזיזיזיזיזי	YYYYYYYYYYYY
	04-2	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	<u> </u>	YYYYYYYYYYYY
	05-1	ΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	<u> </u>	YYYYYYYYYYYY
	05-2	ΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	YYY YYYYYYYYYYYYYY	YYYYYYYYYYYY
	06-1	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	YY YYYYYYYYYYYYYY	YYYYYYYYYYYY
	06-2	NNNNNNNNNN YYYYYYYY	YY NNNNNNNNNNNN	YYYYYYYYYYYY
	07-1	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	γγγ γγγγγγγγγγ	ΥΥΥΥΥΥΥΥΥΥΥΥ
	07-2	ΥΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥ	γγγ γγγγγγγγγγγ	NNNNNNNNN
	08-1	YYYYYYYYYYY YYYYYYNNN	NN YYYYYYYYYYY	ΥΥΥΥΥΥΥΥΥΥΥΥ
	08-2	ΥΥΥΥΥΥΥΥΥΥΥΥ ΥΥΥΥΥΥΥΥΥΥ	γγγ γγγγγγγγγγ	YYYYYYYYYYY
TT:4 -				
nit S	pacedar 2		P-PAGEON-PAGE	SAVE 8 EXIT

<Explanation>

CO line OG (Outgoing Permitted CO line Assignment — Day / Night) [605,606] Assigns a CO line with which extension users can make outside calls in day mode or in night mode.

<Operation>

 For KX-TD1232, this program consists of 8 pages. The first page displays Jack No.01-1 through 08-2. The second page displays Jack No.09-1 through 16-2. The third page displays Jack No.17-1 through 24-2. The forth page displays Jack No.25-1 through 32-2. The fifth page displays Jack No.33-1 through 40-2. The sixth page displays Jack No.41-1 through 48-2. The seventh page displays Jack No.49-1 through 56-2. The last page displays Jack No.57-1 through 64-2. For KX-TD816, this program consists of 2 pages. The first page displays Jack No.01-1 through 08-2. The last page displays Jack No.09-1 through 16-2.

- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Press F2 (COPY) to copy the data of one jack number in another.
- (7) Press F8 (EXIT) to return to Station Menu screen

<Condition>

- (1) A maximum of 8 CO lines are available for KX-TD816.
- (2) When the single system is operating, the data of CO line OG of the system which is not operating cannot be assigned and they are not displayed in the screen.
- (3) When you copy the data of CO line OG, it is invalid to copy to or from the data which are not displayed.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter	Default
CO line OG	Selecting	Y : Enable or N : Disable of the gate at the difference of the construction of the second of the sec	nga tinin X alawan Manazarta Kagada A

TABLE of ITEMS

Station Setting 4

4.

Station Set	ting 4		Off-line	KX-TD1232 Both
		21 A		in the second se
Jack		DIL	.1:N	
	Day		Ni	ght
	00000000111 1	11111122222	00000000111	111111122222
	123456789012 3	45678901234	123456789012	345678901234
01-1	0 00000000000 0	00000000000	000000000000000000000000000000000000000	00000000000
01-2	000000000000000000000000000000000000000	00000000000	DDDDDDDDDDDD	0000000000
02-1	00000000000000000	00000000000	000000000000000000000000000000000000000	0000000000
02-2	000000000000000000000000000000000000000	0000000000	00000000000	00000000000
03-1	000000000000000000000000000000000000000	00000000000	00000000000	00000000000
03-2	· 0000000000 0	00000000000	0000000000000	00000000000
04-1	00000000000 0	00000000000	000000000000000000000000000000000000000	00000000000
04-2	000000000000000000000000000000000000000	00000000000	00000000000	00000000000
05-1	003000DDDDDD 0	0000000000000	0000000000000	00000000000
05-2	00000000000000000	00000000000	000000000000	00000000000
06-1	D600DDDDDDDD 0	0000000000000	000000000000	00000000000
06-2	D600DDDDDDDD 0	00000000000000	000000000000	00000000000
07-1	00000000000 0	0000000000000	000000000000	00000000000
07-2	000000000000000000	00000000000000	000000000000	000000000000
08-1	00000000000000000	0000000000	000000000000	00000000000
08-2	00000000000 0	0000000000	00000000000000	00000000000
Enter nume	ric code			
		HEID SD	PACERN.PACE	
		meer pr-	TAULUINTAUL	JAVE OF EAH

<Explanation>

[1] DIL 1 : N Day/Night

[603,604]

(Direct In Line 1 : N Extension and Delayed Ringing — Day / Night) Assigns the state of DIL 1 : N to each extension in day mode or in night mode.

<Operation>

(1) For KX-TD1232, this program consists of 8 pages. The first page displays Jack No.01-1 through 08-2. The second page displays Jack No.09-1 through 16-2. The third page displays Jack No.17-1 through 24-2. The forth page displays Jack No.25-1 through 32-2. The fifth page displays Jack No.33-1 through 40-2. The sixth page displays Jack No.41-1 through 48-2. The seventh page displays Jack No.49-1 through 56-2. The last page displays Jack No.57-1 through 64-2. For KX-TD816, this program consists of 2 pages. The first page displays Jack No.01-1 through 08-2. The last page displays Jack No.09-1 through 16-2.

- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Press F2 (COPY) to copy the data of one jack number in another.
- (7) Press F8 (EXIT) to return to Station Menu screen.

<Condition>

- (1) A maximum of 8 CO lines are available for the KX-TD816.
- (2) In the case of KX-TD1232, the Batch files of inapplicable versions are converted to the new version automatically.

<Note>

- (1) The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.
- (2) When the single system is operating, the data of all items in the screen of the system which is not operating cannot be assigned and they are not displayed in the screen.
- (3) It is invalid to copy to and from the data which are not displayed.

TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default
DIL 1 : N Dây / Night	Selecting	D : Disable, 0 : Immediate, 1 : 1 Ring, 3 : 3 Rings, 6 : 6 Rings N : No Rings	0

5. Flexible Keys 1

Flexible Keys 1	Off-line	KX-TD1232 Both
	· · · · · · · · · · · · · · · · · · ·	and a state of the
		a series and a series of the s
		Anne en la 12 Nagen - N
		Name (Kana) (
	•	
	,	
Enter jack no.=[]		
1 2 3 4	5 6	8 EXIT

<Explanation>

Flexible Keys (Flexible CO Button Assignment)[005]Assigns the use of the flexible CO buttons of the extension telephones within the system.

_<Operation>

(1) Enter the Jack number and press Enter key. The data screen appears.

(2) Press F8 (EXIT) to return to Station Menu Screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter		Default
jack no.	Direct	01 through 64 (for KX-TD1232) 01 through 16 (for KX-TD816)	2 digits	Not Stored

and a second second of the second second second second

4-19

	Flexible K	eys I		Oll-linc	KX-TD1232 Both		
	Jack No.	. 01					
	5. 1910 - 1					oran di	
		CO01	5100 [01] : TONE[1	1 CO13 S-CO[02] :	TONE[1]		
		CO02	G-CO[1] : TONE[1] CO14 S-CO[03]:	TONE[1] A CONTRACT OF CONTRACT	Alan at Alan Angla	
		CO03	L-CO : TONE[1] CO15 S-CO[04]:	TONE[1]		
		CO04	DSS : EXT[100)] CO16 S-CO[05]:	TONE[1]		
		CO05(DSS1)	[092-431-2111] CO17 S-CO[06]:	TONE[1]		
		CO06(DSS2)	MSG WAIT	CO18 S-CO[07]:	TONE[1]		
		CO07(DSS3)	FWD/DND	CO19 [092-234-1	234]		
4. H	έν,	CO08(DSS4)	SAVE	CO20 [092-234-2	345]		
	х 	CO09(DSS5)	ACCOUNT	CO21 [092-234-3	456]	n in the second se	
		CO10(DSS6)] CO22 [092-234-4	567]	den en	
		CO11(DSS7)] CO23 [092-234-5	678 J		
ine Standie	1	CO12(DSS8)	L and	CO24 [092-234-6	/89]	e enere pe	
				2 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
n - Anno Anno Anno Anno Anno Anno Anno Anno							
na na Sale Sales an	Hit spaceb	ar to select par	ameter	• •			
	Hit spaceb	ar to select par 2 COPY 3	ameler HELP 5	P-PAGE6N-PAGE	SAVE 🛿 EXIT		
	Hit spaceb	ar to select par 2 COPY 3	ameter 4 HELP 5	P-PAGE N-PAGE	🕼 SAVE 🛞 EXIT		
	Hit spaceb	ar to select par 2 COPY 3	amcter HELP 5	P-PAGE6N-PAGE	SAVE 🕃 EXIT		
<opera< td=""><td>Hit spaceb</td><td>ar to select par 2 COPY 3</td><td>ameter</td><td>P-PAGE N-PAGE</td><td>SAVE 🛿 EXIT</td><td></td><td></td></opera<>	Hit spaceb	ar to select par 2 COPY 3	ameter	P-PAGE N-PAGE	SAVE 🛿 EXIT		
<opera< td=""><td>Hit spaceb</td><td>ar to select par 2 COPY 3</td><td>ameter HELP 5</td><td>P-PAGE N-PAGE</td><td>I SAVE BEXIT</td><td></td><td></td></opera<>	Hit spaceb	ar to select par 2 COPY 3	ameter HELP 5	P-PAGE N-PAGE	I SAVE BEXIT		
<opera (1) Th</opera 	Hit spaceb	ar to select par 2 COPY 3	ameter HELP 5 every jack numbe	P-PAGE6 N-PAGE	SAVE SEXIT		
<0pera (1) Tr (2) M	Hit spaceb JACK	ar to select par 2 COPY 3 is displayed at for to the field	ameter HELP S every jack numb in which you wan	P-PAGE N-PAGE er. ht to set a parameter	T. You must select the f	feature first	
<opera (1) Th (2) Ma an</opera 	Hit spaceb JACK	ar to select par 2 COPY 3 is displayed at for to the field abers.	amcter HELP 5 every jack numb in which you wan	P-PAGEON-PAGE er. ht to set a parameter	SAVE EXIT		
<opera (1) Th (2) M an</opera 	Hit spaceb JACK	ar to select par COPY 3 is displayed at for to the field obers.	ameter HELP S every jack numb in which you wan	P-PAGE N-PAGE er.	T. You must select the f	feature first	
<0pera (1) Tr (2) M an (3) Af	Hit spaceb JACK his program ove the curs d enter num fter editing t	ar to select par 2 COPY 3 is displayed at or to the field abers. he data, press	amcter HELP S every jack numb in which you wan F7 (SAVE) to sav	P-PAGEON-PAGE er. at to set a parameter re them on the scree	AVE EXIT r. You must select the f	feature first	
<0pera (1) Th (2) M(an (3) Af (4) Pro	Hit spaceb JACK his program ove the curs d enter num fter editing t	ar to select par 2 COPY 3 is displayed at for to the field abers. he data, press AGE) to return	ameter HELP S every jack number in which you wan F7 (SAVE) to sav	P-PAGE N-PAGE er. at to set a parameter we them on the scree bage.	T. You must select the f	feature first	
<0pera (1) Tr (2) M(an (3) Af (4) Pr(Hit spaceb JACK Ation> his program ove the curs d enter num fter editing t ress F5 (P-PA	ar to select par 2 COPY 3 is displayed at or to the field abers. he data, press AGE) to return	every jack number in which you wan F7 (SAVE) to sav	P-PAGE N-PAGE er. at to set a parameter to them on the scree age.	AVE EXIT T. You must select the f en into DB file.	feature first	
<0pera (1) Th (2) M(an (3) Af (4) Pro (5) Pro	Hit spaceb JACK Ation> his program ove the curs of enter num fter editing t ress F5 (P-P) ress F6 (N-P)	ar to select par 2 COPY 3 is displayed at or to the field obers. he data, press AGE) to returr AGE) to advan	HELP S every jack number in which you wan F7 (SAVE) to sav to the previous p nee to the next page	P-PAGE N-PAGE er. at to set a parameter we them on the scree age. gc.	T. You must select the f en into DB file.	feature first	
<0pera (1) Th (2) M(an (3) Af (4) Pro (5) Pro (6) Us	Hit spaceb JACK Ation> his program ove the curs of enter num fter editing t ress F5 (P-P) ress F6 (N-P) se F2 (COP)	ar to select par 2 COPY 3 is displayed at or to the field abers. he data, press AGE) to returr AGE) to advan () if you want	HELP HELP F every jack number in which you wan F7 (SAVE) to save to the previous p face to the next page to copy the data of	P-PAGEON-PAGE er. at to set a parameter re them on the scree age. gc. of one Flexible butt	T. You must select the f en into DB file. on in another.	feature first	
<0pera (1) Th (2) M(an (3) Af (4) Pro (5) Pro (6) Us (7) Pro	Hit spaceb JACK JACK ation> his program ove the curs d enter num fter editing t ress F5 (P-P/ ress F6 (N-P) se F2 (COP) ress F1 (JAC	ar to select par COPY is displayed at for to the field abers. he data, press AGE) to return AGE) to advan () if you want	every jack number in which you wan F7 (SAVE) to save to the previous p nee to the next page to copy the data of the screen to enter	P-PAGEON-PAGE er. at to set a parameter re them on the scree page. gc. of one Flexible butt er Jack number.	T. You must select the f en into DB file.	feature first	

 \cdot

<Condition>

- (1) If the number assigned for Single CO key or DSS key is redundant, an error message appears.
- (2) An assignable number of One Touch key is fixed beforehand. You cannot exceed it.
- (3) When a single system is operating, you cannot assign the features of Flexible keys of the system which is not operating and they are not displayed in the screen.
- (4) It is invalid to copy to or from the data which are not displayed.

Assigning Items	Type of Field	Selection of parameter	Default
Flexible Keys	Selecting	S-CO, G-CO, L-CO, DSS, [](means One Touch Key), MSG WAIT, FWD/DND, SAVE, ACCOUNT, CONF, VTR	For KX-TD1232 CO01 : S-CO[01] : TONE[1]
S-CO	Direct	CO=01 through 24 Tone=1 though 8	CO02 : S-CO[02] : TONE[1]
G-CO	Direct	TRG=1 through 8 Tone=1 though 8	CO24 : S-CO[24] : TONE[1]
L-CO	Direct	Tone=1 through 8	For KX-TD816 CO01 : S-CO[01] : TONE[1] CO02 : S-CO[02]
DSS	Direct	EXT=0 through 9 2, 3 or 4 digits	: TONE[1]
[] (One Touch)	Direct	0 through 9 * # –, P or p (PAUSE), F or f (FLASH), S or s (SECRET)	: TONE[1]
VTR	Direct	EXT=0 through 9 2, 3 or 4 digits	e sela de la com

TABLE of ITEMS

The table illustrated below shows all features assignable to Flexible Keys.

	Flexible Keys Features	СО	DSS	PF	
	Single CO Key	~		_	• Features marked 🗸 can
	Group CO Key	V	-	_	Flexible key.
	Loop CO Key	2 V 1	_	-	
	DSS Key	V	1	-	
	One Touch Key	V	~	~	
	MESSAGE WAIT Key	V	٢	-	
	FWD / DND Key	V	~	V	
	SAVE Key	~	r	~	
	ACCOUNT Key	6	V	V	
	CONF Key	~	4	2	
. *	VTR Key	V	1	1	

(b) and a stage set of CE also and the set of the CE also apply provide the set of the set of the CE also apply and the CE also apply provide the set of the SE also apply apply

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5.

Flexible Keys 2

Flexible Keys 2		Off-line KX-TD1232 Both
		$\left\ f_{i} - f_{i} \right\ _{2} \leq \left\ S_{i} - C_{i} \right\ _{2}^{2} + \left\ f_{i} - C_{i} \right\ _{2}^{2} + \left\ f_{i} \right\ _{2}^{2} + $
		- An Angelon and Angelon and Angelon (日本語) - Angelon (日本語) - Angelon (日本語) - Angelon (日本語)
		$\sum_{i=1}^{n} (1 - i) \sum_{i=1}^{n} (1 - i) \sum_{i$
Enter jack no.=[_]	5 6 7 8 EXIT

<Explanation>

[1] Flexible Keys (Flexible Button Assignment) [005] Assigns the use of the flexible buttons of the extension telephones within the system.

<Operation>

- (1) Enter the Jack number and press Enter key. The data screen appears.
- (2) Press F8 (EXIT) to return to Station Menu Screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

	Assigning Items	Type of Field	Selection of parameter	Default
-	jack no.	Direct	01 through 64 (for KX-TD1232)2 digits01 through 16 (for KX-TD816)	Not Stored
			r san e strander de la service de la serv Service de la service de la	
	٠		and the second	

•

4-24

Flexible Keys 2			19 ^{- 1}	Off-line		кх	-TD12	232 Bo	oth
Jack No. 0)1-1	•							
PF01(F1)	[<u>0</u> 92-321-9876]	Name(F1)	[KME-4DIV]				
PF02(F2)	[092-321-8765]	Name(F2)	[Jim Kopp]				
PF03(F3)	[092-321-7654]	Name(F3)	I.]				
PF04(F4)	[092-321-6543]	Name(F4)	[]				
PF05(F5)	[092-321-5432]	Name(F5)	[]				
PF06(F6)	[092-321-4321]	Name(F6)	[]				
PF07(F7)	[092-321-3210]	Name(F7)	[`]				
PF08(F8)	[092-321-2109]	Name(F8)	[]				
PF09(F9)	[092-321-1098]	Name(F9)	[]				
PF10(F10)	[092-321-0987]	Name(F10)	[]				
PF11	[092-321-0876]							
PF12	[092-321-0765]							
Jack No. 01-2									
SPD0	[]	SPD4 [] S	SPD8	[]
SPD1	[]	SPD5 [] S	SPD9	[]
SPD2	[]	SPD6 [) P	-DL	[]
SPD3	[]	SPD7 []				-
Enter numer	ric code COPY 3	4	HELP SP	-PAGEON-PA	GE7	SAV	E 8 I	EXIT	

<Operation>

- (1) This program is displayed at every jack number.
- (2) Move the cursor to the field in which you want to set a parameter. You must select the feature first and enter numbers.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Use F2 (COPY) if you want to copy the data of one Flexible button in another.
- (7) Press F1 (JACK) to return to the screen to enter Jack number.
- (8) Press F8 (EXIT) to return to Station Menu screen.

<Condition>

- (1) An assignable number of One Touch key is fixed beforehand. You cannot exceed it.
- (2) When you copy the data, those of Jack xx-1 and Jack xx-2 are regarded as one and they are copied together.
- (3) When a single system is operating, you cannot assign the features of Flexible keys of the system which is not operating and they are not displayed in the screen.
- (4) It is invalid to copy in or from the data which are not displayed.

Assigning Items	Type of Field	Selection of parameter	Default
Flexible Keys	Selecting	[](means One Touch Key), FWD/DND, SAVE, ACCOUNT, CONF, VTR	PF01 : [] PF02 : []
[] (One Touch)	Direct	0 through 9 * # –, P or p (PAUSE), F or f (FLASH), S or s (SECRET)	: PF12:[]
VTR	Direct	EXT=0 through 9 2, 3 or 4 digits	
Name	Direct	0 through 9 A through Z a through z Maximum * # ! ? Space . , ' : ; / + - = < > $\% \& @ ()$ 10 characters	Not Stored
SPD	Direct	0 through 9 * # –, P or p (PAUSE), F or f (FLASH), S or s (SECRET)	Not Stored
P-DL	Direct	0 through 9 * # –, P or p (PAUSE), F or f (FLASH), S or s (SECRET)	Not Stored

TABLE of ITEMS

<Note>

For assignable features, refer to page 4-20.

		-
		ann Meissen Feinge
- M. Robert - M. Ley A. Margarita - Antonia - Linguita - Antonia - Linguita - Antonia	n an	ng atabé ng té Ng taoping ng té A
ta dana ing panganan sa		
		an a
	n an	an a
		• • • • • • • • • •
5 6 [2 8 EXIT	

<Explanation>

DSS (DSS Console Assignment)

Assigns the feature of DSS buttons of DSS consoles.

<Operation>

(1) Enter DSS number and press ENTER key. The data screen appears.

(2) Press F8 (EXIT) to return to Station Menu screen.

TABLE of ITEMS

Assigning Items Type of Field		Selection of parameter	Default	
DSS No.	Direct	1 through 8 (for KX-TD1232) 1 through 4 (for KX-TD816)	1 digit	Not Stored

DSS	-		Off-line		KX-TD1232 Both
DSS N	o. 1				
DSS Pair	Jack No. \Rightarrow Jack [02] Jack No. \Rightarrow Jack [01]				al second and a second and as second and a
DSS01	DSS: EXT[100]	DSS17 [092-2	34-1234]	PF01	[092-321-9876]
DSS02	[092-431-2111]	DSS18 [092-2	34-2345]	PF02	[092-321-8765]
DSS03	MSG WAIT	DSS19 [092-2	34-3456]	PF03	[092-321-7654]
DSS04	FWD/DND	DSS20 [092-2	34-4567	PF04	[092-321-6543]
DSS05	SAVE	DSS21 [092-2	34-5678	PF05	[092-321-5432]
DSS06	ACCOUNT	DSS22 [092-2	34-6789]	PF06	[092-321-4321]
DSS07	[]	DSS23]	PF07	[092-321-3210]
DSS08	[]	DSS24	and an and and	PF08	[092-321-2109]
DSS09	[]	DSS25	1	PF09	[092-321-1098]
DSS10	[····]	DSS26	- Maria da 🚹	PF10	[092-321-0987]
DSS11	1	DSS27 [1	PF11	[092-321-0876]
DSS12	- [· · · ·] ·	DSS28		PF12	[092-321-0765]
DSS13	[3.] ·	DSS29 [PF13	[
DSS14	[]	DSS30 [1	PF14	[]
DSS15	1	DSS31 [PF14	[where a superior of] a
DSS16	í í	DSS32	· · · · · · · · · · · · · · · · · · ·	PF16	[]
	- /	•	• •		
Enter m	umeric code				
I DSS	2 COPY 3	A HELP	SP-PAGE6N-I	PAGE7	SAVE 8 EXIT

<Explanation>

- [1] DSS Jack No. [007] Assigns the Jack numbers connected with a DSS console.
- [2] Pair Jack No. Assigns the paired extension's Jack number. [007]
- <Operation>
- (1) This program is displayed at every DSS number.
- (2) Move the cursor to the field in which you want to set a parameter. You must select the feature first and enter numbers.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Use F2 (COPY) if you want to copy the data of one DSS button in another.

- (7) Press F1 (DSS) to return to the screen to enter DSS number.
- (8) Press F8 (EXIT) to return to Station Menu screen.

<Condition>

- (1) If the number assigned for DSS key is redundant, the previous assignment is cancelled and the new entry becomes effective.
- (2) An assignable number of One Touch key is fixed beforehand. You cannot exceed it.
- (3) For KX-TD1232, when you assign extensions connected to DSS consoles and paired telephones, DSS No.1 through 4 must be connected to one of Jack No. 02 through 32 and DSS No.5 through 8 must be connected to one of Jack No.33 through 64. (When System Connection is executed, you must connect DSS consoles and paired telephones to the same system.)
- (4) Multiple DSS consoles cannot be connected to the same extension.
- (5) The multiple paired telephones can be connected to the same extension.
- (6) When a single system is operating, you cannot assign the features of DSS consoles connected to the system unoperating. If you try to assign the features, an error massage appears.
- (7) You cannot assign the jack 01 or the jack number of Manager to a DSS jack.
- (8) The XDP feature must be assigned "Disable" for DSS ports.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default
DSS Jack No.	Selecting and Direct	Disable or [] (After selecting []) 02 through 64 (for KX-TD1232) 2 digits 02 through 16 (for KX-TD816)	Disable
Pair Jack No.	Selecting and Direct	Disable or [] (After selecting []) 01 through 64 (for KX-TD1232) 2 digits 01 through 16 (for KX-TD816)	Disable
Flexible Keys	Direct	DSS, [](means One Touch Key), MSG WAIT, FWD/DND, SAVE, ACCOUNT, CONF, VTR	DSS 01 : DSS : EXT [101] DSS 02 : DSS : EXT[102]
DSS	Selecting	EXT=0 through 9 2, 3 or 4 digits	DSS32 : DSS : EXT[132] PF01 : []
[] (One Touch)	Direct	0 through 9 * # –, P or p (PAUSE), F or f (FLASH), S or s (SECRET)	PF02:[] : PF16:[]

The table illustrated below shows all features assignable to Flexible Keys.

Flexible Keys Features	DSS	PF	
DSS Key	~		
One Touch Key	~	~	
MESSAGE WAIT Key			
FWD / DND Key	~		
SAVE Key	~	~	
ACCOUNT Key	V	~	
CONF Key	1	~	
VTR Key	r	~	

10

• Features marked & can be assigned to each Flexible key.

System 4-4

The screen illustrated below appears when you select "3. System".

System Menu		Off-line	KX-TD12	32 Both	
		and an and a second		an ana ang sa	
				an a	
01	. Day / Night			1997 - 19	
02	2. Class of Service				
14 July 14 July 16 July 10 Jul	8. Speed Dial				
04	Absent Message			1. A. A.	
05	5. Flexible Numberi	ng			
06	6. Account Code / S	pecial Carrier	•		
07	7. Timer				
80	3. Voice Mail			a service and the service of the ser	
09	. Miscellancous				
- 10). System Time				
11	. Version				
	· · · ·				
S.	loct the number : [1			
50		_]			
Enter the number, and hit E	NTER key				
	A HELP S	0		SXII	
ration>					
		•			
Enter the number of the progra	m, and press ENTE	ER key.			

<Condition>

An error message appears when you select "10. System Time" or "11. Version" in Batch Editing Mode.

01.	Day/Night
-----	-----------

Day / Night			Off-line	KX-TD12	232 Both
n. Antije od server nastrije i serve					
1997 - A. 1997 - A. 1997 - A.					
	Mode	≥⇒}Manual			
a a Maria da Antonio de Carto		Day	Night		
	Sun	09:00 AM	05:00 PM		
	Mon	09:00 AM	05:00 PM		
	Tue	09:00 AM	05:00 PM		
	Wed	09:00 AM	05:00 PM		
	Thu	09:00 AM	05:00 PM		
	Fri	09 : 00 AM	05:00 PM		
	Sat	09 : 00 AM	05:00 PM		
			•		
Hit spacebar to so	elect paramete	r			
			6	7 SAVE	EVIT

<Explanation>

[1] Mode (Day / Night Service Switching Mode)

Assigns the method to alternate with the day and night modes.

[2] Time (Day / Night Service Starting Time)

[102]

[101]

Sets the starting time when you select the automatic switching mode for day / night service.

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to System Menu screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones. 4-32

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TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default
Mode	Selecting	Manual or Auto	Manual
Time	Selecting	Disable or []AM / PM	Day=09:00 AM
Hour	Direct	01 through 12 100 100 100 100 100 2 digits	Night =05:00 PM
Minute	Direct	00 through 59 and the second s	
AM / PM	Selecting	AM or PM	

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States and the second second parts of the

4-33

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(0

Class	s of Se	rvice		<u></u>		Off-line	KX-TE	01232 Both
C O S	TRS-	Level	Durat Limit	TRNSF to CO	Call FWD	Busy Busy OVRIDOVRI	DND D OVRID	Account Code
1 2 3 4 5 6	[1] [1] [1] [2] [2]	[1] [2] [2] [2] [3] [3]	Disable Enable Disable Disable Disable Disable	Disable Enable Disable Disable Disable Disable	Disable Enable Disable Disable Disable	Disable Disab Enable Enabl Disable Disab Disable Disab Disable Disab Disable Disab	le Disable le Enable le Disable le Disable le Disable le Disable le Disable	Option Verify-All Verify-Toll Option Option Option
7 8	[3] [3]	[4] [4]	Disable Disable	Disable Disable	Disable Disable	Disable Disab Disable Disab	le Disable le Disable	Option Option
Enter	numer	ric code COPY	3	4 HE	LP 5	6	SAVE	EXIT

<Explanation>

[1]	TRS-Level Day/Night (Toll Restriction Level — Day / Night) Assigns the level of Toll Restriction during day or night mode.	[500, 501]
[2]	Durat Limit (Extension-to-CO Line Call Duration Limit) Assigns the duration time of an originated outside call to be limited or not.	[502]
[3]	TRNSF to CO (Call Transfer to CO Line) Assigns transferring to CO to be made or not.	[503]
[4]	Call FWD to CO (Call Forwarding to CO Line) Assigns the Call Forwarding to outside to be made or not.	[504]
[5]	Busy OVRID (Executive Busy Override) Assigns Busy Override Service to be valid or not.	[505]
[6]	Busy OVRID Deny (Executive Busy Override Deny) Assigns the Busy Override to be denied or not.	[506]

[7] DND OVRID (Do Not Disturb Override) [507]
[8] Account Code (Account Code Entry Mode) [508]
[9] Assigns the mode of entering the account codes.

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Use F2 (COPY) if you want to copy the data of one COS No. in another.
- (4) Press F8 (EXIT) to return to System Menu screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

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TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default
TRS-Level Day / Night	Direct	1 through 8 1 digit	1
Durat Limit	Selecting	Disable or Enable	Disable
TRNSF to CO	Selecting	Disable or Enable	Enable
Call FWD to CO	Selecting	Disable or Enable	Disable
Busy OVRID	Selecting	Disable or Enable	Disable
Busy OVRID Deny	Selecting	Disable or Enable	Enable
DND OVRID	Selecting	Disable or Enable	Disable
Account Code	Selecting	Option, Vcrify-All, Vcrify-Toll	Option

New State

Block of the set of

TRS-Level

•Level 1 ... Not restricted

•Level 7 ... All outgoing calls are prohibited.

•Level 8 ... All outgoing and extension calls except calling to the operator are prohibited. •Level 2 through 6 are assigned in Toll Restriction Menu. 03. Speed Dial

Speed Dial				Off-line	KX-TD1232 Both
	SPDN	Name		Nun	nber .
	00	[<u>O</u> pe-1]	[100	
	01	[Ope-2]	[10]	
	02	[MNGer]	[102	
	03	[KME4DIV]	[0p011]p81-92-47	77-1430
	04	[]	ſ	1
	05]	ſ	n apræsings s
	06	[]	The second se	end 🗍 al 🖓 🖓
	07	[]	Ĩ]
	08	[Sheriff]	[109	and the second second
	09	[EMG]	[0p911	
	10	[]		
	11	l]	ſ	
	12	[]	[
	13	[]	ſ	
	14	l]	[Augusta and a
	15	[]	[[]
	16	[·]	í ·	en diverse van dij in dit die ee
	17	[]	[
	18	[]	[]
	19	l]	[]
Hit spacebar to	select pai	ameter			
	ġ	4 HELP	5 P-	PAGE6 N-PAGE	SAVE 8 EXIT

<Explanation>

[1]	Name (System Speed Dialing Name Set)	[002]	
	Assigns names of destinations stored as the speed dial	ing numbers.	
		South and the second	
[2]	Number (System Speed Dialing Number Sct)	e na si ja na se Marin y si (001) si s	
	Assigns telephone numbers for system speed dialing.		
<0Į	peration>		
(1)	This program consists of five pages.		
(1)	The first page displays SPDN 00 through 19.		
	The second page displays SPDN 20 through 39		
	The third page displays SPDN 40 through 59.		
	The forth page displays SPDN 60 through 79.		
	The last nage displays SPDN 80 through 99.		
	The mot pube dispinge of Divide model set		

(2) Move $\frac{1}{1-2}$ cursor to the field in which you want to set a parameter.

(3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Press F8 (EXIT) to return to System Menu screen.

<Condition>

You must enter numbers from a left end. If you make a space in a field and try to move the cursor to the next item, an error message appears and the cursor does not move to the next.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter	Default	
Name	Direct	0 through 9 A through Z a through z * # ! ? Space . , ' : ; / + $- = < > $ % & @ ()	Maximum 10 characters	Not Stored
Number	Direct	0 through 9 * # – P or p (PAUSE) F or f (FLASH) S or s (SECRET)	Maximum 24 digits	Not Stored

TABLE of ITEMS

landerska har star en star en seder i

Absent Message		Off-line	KX-TD1232 Both	
	,	e dati ne dati		
	MSGN	Message		
	1- [<u>W</u> ill 2- [3- [A	Return soon]Gone Home]At Ext %%%]bt at %%*%%]	na an an an an an an an an an Articlean an an Articlean an Articlean an Articlean an Articlean an Articlean an Articlean an Articlean an Articlean an Articlean an Articlean Articlean Articlean Articlean Articlean Articlean A	
	4- [Bac 5- [Out 6- [7- [8- [In a Meeting]]]]]]]]]]]]]]]		an the Second Second Second Second Second
	9- (
				en Alexandre and and an Alexandre and an Alexandre and an
Enter alphanumeric (Code	> 5 6	7 SAVE 8 EXIT	

<Explanation>

Message (Absent Messages) Assigns the Absent Messages. [008]

- <Operation>

(1) Move the cursor to the field in which you want to set a parameter.

(2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

(3) Press F8 (EXIT) to return to System Menu screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default		
Message	Direct	0 through 9 A through Z a through z * # ! ? Space . , ' : ; / + - = <> \$ % & @ ()	Maximum 16 characters	1-[Will Return Soon] 2-[Gone Home]	
				3-[At Ext %%%]	
,				4-[Back at %% !%%] 5-[Out Until %%/%%]	
				6-[In a Meeting]	
				8-[]	
				9-[]	

.

.

% means a Flexible character. You can enter up to 7 characters in one message.

05. Flexible Numbering

Flex	ible Numbering	g			Off-	line	KX-TD1232 Both
an sa	No. (Feature)	Di	al	No (Feature)	Dial	No (Featur	e) Dial
		0.			Ditti	110. (1 catur	
	01(1-EXT BLK)	⇒[]]	21(Speed STA) ⇒[3*]	41(OMG P	/Rec) ⇒[36]
	02(2-EXT BLK)	⇒[2]	22(Speed PRG) ⇒[30]	42(FWD/I	DND) ⇒[710]
	03(3-EXT BLK)	⇒[]	23(Door Call) ⇒[31]	43(Pick De	ny) ⇒[720]
	04(4-EXT BLK)	⇒[]	24(Extr Page) ⇒[32]	44(Data Lir	ne) ⇒[730]
	05(5-EXT BLK)	⇒[]	25(E-Pag Ans) ⇒[42]	45(Call Wa	it) ⇒[731]
	06(6-EXT BLK)	⇒[]	26(STA Page) ⇒[33]	46(Over De	ny) ⇒[733]
	07(7-EXT BLK)	⇒[]	27(S-Pag Ans) ⇒[43]	47(Pickup I	DL) ⇒[74]
	08(8-EXT BLK)	⇒[]	28(CO Pick) ⇒[4*]	48(Absnt M	ISG) ⇒[750]
	09(9-EXT BLK)	⇒[]	29(GRP Pick) ⇒[40]	49(T-Remin	nder) ⇒[76]
	10(10-EXT BLK))⇒[]	30(Call Pick) ⇒[41]	50(STA Lo	ck) ⇒[77]
	11(11-EXT BLK))⇒[]	31(Hold) ⇒[50]	51(Night M	od) ⇒[78]
	12(12-EXT BLK))⇒[]	32(H-Ret STA) ⇒[51]	52(Para Mo	d) ⇒[39]
	13(13-EXT BLK)	⇒[]	33(H-Ret TRK) ⇒[53]	53(Extr BG	M) ⇒[35]
	14(14-EXT BLK)	⇒[]	34(Redial) ⇒[#]		
	15(15-EXT BLK)	⇒[].	35(Call Park) ⇒[52]		
	16(16-EXT BLK)	⇒]	36(ACCT Code) ⇒[49]		
	17(Oper Call)	⇒[0]	37(Door Open) ⇒[55]		
	18(Locl Call)	⇒ 9]	38(E-Feature) ⇒[6]		
	19(TRG Call)	⇒[8]	39(STA Clcar) ⇒[790]	•	
	20(Speed SYS)	⇒[*]	40(MSG Wait) ⇒[70]		
Enter	numeric code						
	2	3		A HELP 5	6	7	SAVE 8 EXIT

<Explanation>

Dial (Flexible Numbering) Assigns dialing numbers of each feature.

[100]

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to System Menu screen.

<Condition>

- (1) For KX-TD816, "No.41(OMG P/Rec) \Rightarrow [36]" is changed to "41(Reverse) \Rightarrow []".
- (2) You must enter numbers from a left end. If you make a space in a field and try to move the cursor to the next item, an error message appears and it does not move to the next.

A CONTRACTION OF THE REAL OF THE R

- (3) When you press F7 (SAVE), it is checked whether the double storage is done or not.
- (4) An error message appears when you press F7 (SAVE) if you changed the numbers of extension block which are used in extension numbers or Floating extension numbers.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field		Default			
Dial	Direct	0 through 9	× #		0, 1, 2 or 3 digits	Same as the screen on the previous page

TABLE of ITEMS

Fig. A Contract Contraction on the Contraction of the Harden Contraction of the Mathematical Contraction of the Mathematical Contraction of the Contraction of the

and the second secon

 $(A_{1},A_{2},A_{3},A_{$

06. Account Code / Special Carrier

Account Code / Special Carrier			Off-line	KX-TD1232 Both	
and the second se	- LOC-	Account Code	LOC Speci	al Carrier	
a a second for the second	Ôi	[3230001]	01 [1028	800]	
	02	[]	02]	
	03	[]	03 []	
	04	[]	04 []	
	05	ີ ເຊັ່ງ ເຊັ່ງ	05 • [n a la la compacta Nacional da	
	06	[]	06 [and the second	
	07	í j	07 []	
	08	[]	08 []	
	09	[]	09 []	
ан н.	10	[]	10 []	
	<u>selly</u> e	··[11 =[]	. *
	12	[]	12 []	
•	13	[]	13 []	
	14	[]	14 []	
	15	[]	15 [·]	
	16	[]	16 []	
	17	[]	17 []	
	18	[]	18 []	
	19	[]	19 []	
	20	[]	20 []	
_					
Enter numeric	code				
	3	HELP	5 6	· SAVE 8 EXIT	

<Explanation>

[1]	Account Code (Account Codes) Assigns the Account Codes for Verified mode.	[105]
[2]	Special Carrier (Special Carrier Access Codes) Assigns the Special Carrier numbers.	[311]

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to System Menu screen.

<Condition

- (1) Special Carrier Assignment is unavailable in countries except USA, Canada and New Zealand.
- (2) Account Codes including "99" in any part or ending with "9" are invalid.

<Note>

A see a second

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field		Selection of parameter	Default
Account Code	Direct	0 through 9	Maximum 10 digits	Not Stored
Special Carrier	Direct	0 through 9	Maximum *(a wild card character) 7 digits	Not Stored

TABLE of ITEMS

and the second second

(b) Example W = W = 1 arts with the state beast states with a state beast states with a state

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- al de la carrecte a casil anrier de la casil le model de la casil. Le casil de la casil de la casel de la casil
- (a) Building and Building and Building and Building and States and State And States and Stat And States and
- (2008) Statements of the second seco second se

1

07. Timer

	Timer		Off-line	KX-TD1232 Both	
			er i deve en er		- N S
		Name (Ran	gc)	Data	
		Hold Recall Time Transfer Recall Time No Answer Time Intercept Time Pickup Dial Waiting Time CO Call Duration Time CO–CO Call Duration Time 1st Digit Time Inter Digit Time Automatic Redial Repeat Ti Automatic Redial Interval T CO Dial Starting Time Call Duration Count Start T DISA Delayed Answer Tim DISA Prolong Time	($0-240 \sec$ ($3-48 \operatorname{rings}$ ($1-\cdot 12 \operatorname{rings}$ ($3-48 \operatorname{rings}$ ($1-5 \sec$ ($1-64 \min$ ($5-120 \sec$ ($5-30 \sec$) ($5-30 \sec$) ($5-30 \sec$) ($1-30 \operatorname{Attem}$) ($30-1200 \sec$ ($0-4000 \operatorname{msec}$) ($0-60 \sec$) ($0-6 \operatorname{rings}$ ($0-7 \min$	$) \Rightarrow [060]$ $) \Rightarrow [12]$ $) \Rightarrow [03]$ $) \Rightarrow [12]$ $) \Rightarrow [10]$ $pts) \Rightarrow [15]$ $) \Rightarrow [004]0$ $) \Rightarrow [00]00$ $) \Rightarrow [00]$ $) \Rightarrow [11]$ $) \Rightarrow [3]$	
	Enter numeric	: code			
L	2	3 4 HELP 5	6 7	SAVE 8 EXIT	

(3)

<Explanation>

[1]	Hold Recall Time (Hold Recall Time) Sets the Hold Recall Time.	[200]
[2]	Transfer Recall Time (Transfer Recall Time) Sets the Transfer Recall Time.	[201]
[3]	No Answer Time (Call Forwarding — No Answer Time) Sets the Call Forwarding No Answer Time.	[202]
[4]	Intercept Time (Intercept Time) Sets the time out for the Intercept Routing No Answer.	[203]
[5]	Pickup Dial Waiting Time (Pickup Dial Waiting Time) Sets the waiting time for Pickup Dial.	[204]
[6]	CO Call Duration Time (Extension-to-CO Line Call Duration Time) Sets the duration time allowed for a conversation with an outside party.	[205]

[7]	CO–CO Call Duration Time (CO-to-CO Call Duration Time) Assigns the duration time allowed for a conversation between two outside particular	[206] rtics.
[8]	1st Digit Time (First Digit Time) Sets the maximum time allowed between the dial tone and the first digit dialle	[207] cd.
[9]	Inter Digit Time (Inter Digit Time) Sets the maximum time allowed between digits on an outside call.	[208]
[10]	Automatic Redial Repeat Times (Automatic Redial Repeat Times) Sets the repeated time of Automatic Redial.	[209]
[11]	Automatic Redial Interval Time (Automatic Redial Interval Time) Sets the interval time for Automatic Redial.	[210]
[12]	CO Dial Starting Time (Dial Start Time) Sets the time taken for the system to start dialing after an outside line is seized	[211] d.
[13]	Call Duration Count Start Time (Call Duration Count Start Time) Sets the time taken to start counting the outgoing call duration.	[212]
[14]	DISA Delayed Answer Time (DISA Delayed Answer Time)Sets the time taken to answer incoming calls by DISA feature.The feature is available for KX-TD1232 only.	[213]
[15]	DISA Prolong Time (DISA Prolong Time)Sets the prolonged time for a conversation between two outside parties by DISThe feature is available for KX-TD1232 only.	[214] SA feature.
<op< td=""><td>eration></td><td></td></op<>	eration>	
(1)	Move the cursor to the field in which you want to set a parameter.	
(2)	After editing the data, press F7 (SAVE) to save them on the screen into DB fil	le.
(3)	Press F8 (EXIT) to return to System Menu screen.	

<Condition>

(1) If you make a space in a field and press F7 (SAVE), an error message appears.

(2) An error message appears when you set a parameter beyond a range and press F7 (SAVE).

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

Assigning Items	Type of Field		Selection of	parameter	Default
All items	Direct	0 through 9	• •	1, 2 or 3 digits	Same as the screen on the previous pag
				 a 2nd - y_y a 2 a 2nd - y_y a 2 a 2nd - y_y a 2 	na sel desse se da Salespa esta se
					n a Ceologi. Marinte acción
				nter di Korad 1990 - Alexan 1990 - Alexan	
					 Constantia
		аł	• 		
*		i i			
				an a	
08. Voice Mail

Voice Mail	Off-line	KX-TD1232 Both	
			and a start of the second s
Extension Status			
Ringback Tone	[1]	and the second
Busy Tone	[2]	
Reorder Tone	• [3]	n de la companya de l La companya de la comp
DND Tone	[4]	
Extension Answer	[5]	
Extension Disconnect	[#9	•••••••••	and the second second second
Confirmation Tone	[9	1	
FWD to VM Ringback Ton	c [6		
FWD to VM Busy Tone	7		:
FWD to Extension Ringbac	k Tonc [8	La companya di Angelera	and a second second
Voice Mail Command			
Leave Message	IH]	
Get Message	[≁] H		 A state of the sta
AA Service	· #8]	
VM Service	[#6]	N 4
Enter numeric code			
HELP 5	6	SAVE & EXIT	

<Explanation>

- [1] Extension Status (VM Status DTMF Set) [113] Assigns the DTMF signal to allow the Voice Processing System to recognize it as the tone.
- [2] Voice Mail Command (VM Command DTMF Sct) [114] Assigns the features which the Voice Processing System executes.

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data. press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to System Menu screen.

<Condition>

(1) "H" can be assigned to Leave Message and Get Message. The ID is inserted in the place of "H".

(2) The FWD to VM Ringback Tone and FWD to Extension Ringback Tone are not available now, but they are assignable for further use.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter	Default
Extension Status	Direct	Maximum 0 through 9 + # P or p (PAUSE) 3 digits	Same as the screen on the previous page
Voice Mail Command	Direct	0 through 9 # P or p (PAUSE) Maximum H or h (Home Position) 16 digits	Same as the screen on the previous page

TABLE of ITEMS

4-49

Miscellancous Off-line KX-TD1232 Both Expansion Card Type (Master) \Rightarrow **EXPI-EXT1 EXP2-EXT2 EXP3-COT1** (Slave) \Rightarrow EXP1-EXT1 EXP2-EXT2 EXP3-COT1 Password \Rightarrow [1234567] Operator-1 \Rightarrow Jack[01] Operator- $2 \Rightarrow$ Disable Manager \Rightarrow Disable Local Access \Rightarrow Priority = 1 2 3 4 5 6 7 8 TRG No.= [1] [2] [3] [4] [5] [6] [7] [8] Call Hunting \Rightarrow EXG No.= 1 2 3 4 5 6 7 8 D Т С DDDDD SPD TRS Override \Rightarrow Disable CO Auto-Hold By Push DSS-Key \Rightarrow Enable \Rightarrow [01:00] AM Adjust Time Hit spacebar to select parameter 1 4 HELP 5 6 7 SAVE 8 EXIT 2 3

<Explanation>

[1]	Expansion Card Type Master / Slave (Expansion Card Type) Assigns the type of Expansion Card for Master or Slave DSHS.	* [109] and * Aragenetic for a state
. [2]	Password (System Password) Assigns a password for communicating with DSHS from a remote terminal.	[107]
[3]	Operator-1/-2 (Operator Extension Assignment) Assigns Jack No. connected with Operator-1 or Operator-2.	[006]
[4]	Manager (Manager Extension Assignment) Assigns Jack No. connected with Manager.	[006]
[5]	Local Access (Automatic Access CO Line Group Assignment) Assigns CO line groups in the preferential order for Automatic Access.	[103]
[6]	Call Hunting (Station Hunting Type) Assigns the Station Hunting type on an extension group basis.	[106]

- [7] SPD TRS Override (TRS Override for System Speed Dialing) [300] Assigns to enable or disable to restrict calls made by SPD.
- [8] CO Auto-Hold by Push DSS-Key (One-Touch Transfer by DSS Button) [108] Assigns to enable or disable to hold an outside call automatically by pressing a DSS button on the DSS Console during the outside call.
- [9] Adjust Time (Adjust Time) [115] Sets the time to adjust the data between the system of Master DSHS and Slave DSHS.

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to System Menu screen.

<Condition>

- (1) Operator-1, Operator-2 and Manager can be connected to the same jack.
- (2) The manager cannot be assigned the jack number of the DSS Console.
- (3) For KX-TD1232, the type of expansion cards installed in the system which is not operating is displayed as the following : Expansion Card Type (Master or Slave) ⇒ -------
- (4) After changing the setting of Expansion Card Type, to make your setting effective, turn the Power Switch of the DSHS off and on once. Otherwise the previous setting will be maintained.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

9		TABLE of ITEMS		
Assigning Items	Type of Field	Selection of param	neter	Default
Expansion Card Type	Selecting	For KX-TD1232 EXP1-COT1 EXP2-EXT1 EXP3-EXT EXP1-COT1 EXP2-EXT2 EXP3-EXT EXP1-EXT1 EXP2-EXT2 EXP3-COT EXP1-EXT1 EXP2-COT1 EXP3-EXT	F2 F1 F1 F2	For KX-TD1232 EXP1-COT1 EXP2-EXT1 EXP3-EXT2
		EXPI-EXT2 EXP2-EXT1 EXP3-COT EXPI-EXT2 EXP2-COT1 EXP3-EXT	71 71	For KX-TD816 EXP1-COT1 EXP2-EXT1
	N.	For KX-TD816 EXP1-COT1 EXP2-EXT1 EXP1-EXT1 EXP2-COT1		
Password	Direct	0 through 9	4, 5, 6 or 7 digits	1234
Operator / Manager	Selecting and Direct	Disable or Jack (After selecting Jack]) 01 through 64 (for KX-TD1232) 01 through 16 (for KX-TD816)	2 digits	Same as the screen on the previous page
Local Access	Direct	1 through 8	1 digit	Same as the screen on the previous page
Call Hunting	Selecting	D : Disable, T : Terminate, C : Circula A : Automated Attendant, V : Voice M	r,A lail	D D
SPD TRS Override	Selecting	Disable or Enable		Disable
CO Auto-Hold by Push DSS-Key	Selecting	Disable or Enable		Enable
Adjust Time Hour	Direct	01 through 12	2 digits	
Minute	Direct	00 through 59	2 digits	01:00 AM
AM / PM	Selecting	AM or PM		

(

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10. System Time

System Time		(Dn-line (RS-232C)	KX-TD1232 N	Aaster	(
		a and a second	an san an San	۰. ۵.		
					s da station	
			an an Alain 🗸 an Alain			
	102	Ion 1 EDI	13.00 ANA			
	<u>9</u> 5.	Jan. I FKI	12:00 AM			
	lay a second					
and a second						
			i statistica i s		ang tanta s	
					Aler stall	
		•"			de l'herañ de la	
and and a second se					ser s	
Enter alphanumer	ic Code					
	3	4 HELP 5	6 7	SAVE 8 EXI	Т	
		1. · · · · · · ·				
.						
explanation>						
vstem Time (Date and Ti	ime Set)			IOOC	1	
ets the time of DSHS.			•	Toor	ן נייי גריי נ י	
- - -						
)peration>						
Move the cursor and	set the time.					
) After editing the data	press F7 (S.	AVE) to save 1	hem on the screen	nto DB file.		
	•					
) Press F8 (EXIT) to re	tum to Syste	m Menu seree	n.			
Condition>						
his screen is only availab	le in Interacti	ve Editing Mo	ode.			

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter		Default
Year	Direct	0 through 9	2 digits	93
Month	Selecting	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep	, Oct, Nov, Dec	Jan
Date	Direct	1 through 31	2 digits	1
Day of the week	Selecting	SUN. MON. TUE, WED, THU, FRI ,SAT		FRI
Hour	Direct	01 through 12	2 digits	12
Minute	Direct	00 through 59	2 digits	00
AM / PM	Selecting	AM or PM		AM

TABLE of ITEMS

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1 7

11. Version



<Explanation>

Version (ROM Version Display) Confirms the version of ROM of the DSHS.

[116]

<Operation>

(1) This parameter is only displayed and cannot be changed.

(2) Press F8 (EXIT) to return to System Menu screen.

<Condition>

(1) The KX-TD816 does not make a distinction between master and slave.

(2) This screen is only available in Interactive Editing Mode.

(3) When the single system is operating, the version of the system which is not operating is not displayed in the screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

4-5 Toll Restriction

Toll Restriction Menu		Off-line	KX-TD1232 Both
	- '+ #*', '''' -, 'i'''''''''''''''''''''''''''	<u> </u>	
		•	
	1. TRS De	eny	
	2. TRS Ex	ception	
	Select the n	umber: []	
Enter the number, and hit E	ENTER key		
	HELP	1 6 7	EXIT

<Operation>

.

(1) Enter the number of the program and press ENTER key.

1

(2) Press F8 (EXIT) to return to Main Menu screen.

TRS Deny		Off-lin	e	KX-TD1232 Both
LOC LVL2	LVL3	LVLA L	.VL5	LVL6
01 [Q11****] [120923*] [] []	[]
02 [1916***] [] [¹] []	[]
03 [] [] [] []	[]
04 [] [] [] []	[]
05 [] [] [][]	[]
06 [] [] [] []	[]
07 [] [] [] []	[]
08 [] [][] []	[]
09 [] [] [] []	[]
10 [] [][] []	[]
11 [] [] [.] []	[]
12 [] [] [] []	[]
13 [] [] [] []	[]
14 [] [] [] []	[]
15 [] [] [] []	[]
16 [] [] [] []	[]
17 [] [] [] []	[]
18 [] [] [] · []	[]
19 [] [][] []	[]
20 [] [] [] []	[]
Enter numeric code				
	4 HELP		7	SAVE SEXIT

<Explanation>

TRS Deny (Toll Restriction Denied Code Entry)[301, 302, 303, 304, 305]Assigns telephone numbers prohibited for each Toll Restriction level.

. < Operation>

(1) Move the cursor to the field in which you want to set a parameter.

(2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

(3) Press F8 (EXIT) to return to Toll Restriction Menu screen.

<Condition>

You must enter a number from a left end and fill in the blank with (a wild card character).

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

4-58

Assigning Items	Type of Field		Selection of parameter	Γ	Default
TRS Deny	Direct	0 through 9	*(a wild card character)	7 digits	Not Stored
			······································		
			· ·		
				•	
			· .		
					· •
			e da ser en la ser en		
		đ			
		į			
		1			
				183 de Marstelle Altre.	
				,	
11					
				·	
			4-59		

TABLE of ITEMS

(

2. TRS Exception

TRS Exception	Off-line	KX-TD1232 Both	
LOC LVL2 LVL3 01 $[911^{\times\times\times\times}]$ [] [02 $[611^{\times\times\times\times}]$ [] [03 [] [] [] [04 [] [] [] [05 [] [] [] [LVLA LVL5] [] [] [] [] [LVL6	
Enter numeric codes	· ·		
	5 6 7	SAVE 8 EXIT	

<Explanation>

TRS Exception (Toll Restriction Excepted Code Entry)[306, 307, 308, 309, 310]Assigns telephone numbers not prohibited for each Toll Restriction level.

. < Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to Toll Restriction Menu screen.

<Condition>

- (1) You must enter a number from a left end and fill in the blank with (a wild card character).
- (2) Store your emergency numbers in Level 6.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field		Selection of parameter		Default
TRS Exception	Direct	0 through 9	*(a wild card character)	7 digits	Not Stored

TABLE of ITEMS

and the second sec

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4-6 ARS (Automatic Route Selection)

ARS Menu	Off-line	KX-TD1232 Both	1
na na serie de la composition de la com La composition de la co		in the second of the second	
1. ARS 1	Mode/Time/Modify I	Data	
			·.
	Douting Dian		
2. ARS I	couing Plan		
			e systemeter
3. ARS I	eading Digit		
	00		
	1		
Select th	e number : [_]		
inter the number, and hit ENTER key			
2 3 4 HELP	5 6	7 8 EXIT	

Record to select where A new Clark

<Operation>

(1) Enter the number of the program and press ENTER key.

(2) Press F8 (EXIT) to return to Main Menu screen.

		ne/Modify Data	Off-line	KX-TD1232 Bot
		Modern OV		
		Time-A⇒ [08]:00 AM	<i>1</i> í	
		Time-B \Rightarrow [05]:00 PM	1	
		Time-C⇒ [09]:00 PM	Л	
		Time-D \Rightarrow Disable		
		Mod 1 \Rightarrow Remove[1] A	dd[]
		$Mod \ 2 \Rightarrow Remove[1] \ A$	dd[10288]
		$Mod 3 \Rightarrow Remove[0] A$.dd[]
		$Mod 4 \Rightarrow Remove[0] A$.dd[]
		Mod $5 \Rightarrow \text{Remove}[0]$ A	.dd[]
		$Mod \ 6 \Rightarrow Remove[0] \ A$.dd[]
		Mod $7 \Rightarrow \text{Remove}[0] A$	dd[J
		Mod $8 \Rightarrow \text{Remove}[0] A$	lap	
1				
		· ·		
Hit sp	bacebar to	select parameter		
Hit sp	bacebar to	select parameter	5 6	🛛 SAVE 🛿 EXIT
Hit sp	pacebar to	select parameter	5 6	SAVE 8 EXIT
Hit sp	pacebar to	select parameter	5 6	SAVE 8 EXIT
Hit sp	oacebar to	select parameter	5 6	SAVE 8 EXIT
Hit sp Hit sp lanation: Mode (A	oacebar to	select parameter		SAVE 8 EXIT [312]
Hit sp Hit sp lanation: Mode (A Assigns	sacebar to	select parameter HELP Route Selection Mode) or disable the ARS feature.	in the second seco	SAVE 8 EXIT [312]
Hit sp Hit sp lanation: Mode (A Assigns Fime (A	soutomatic la to enable of RS Time)	select parameter HELP Route Selection Mode) or disable the ARS feature	in a second de la companya de la company	SAVE 8 EXIT [312]
Hit sp lanation: Mode (A Assigns Fime (A Sets the	starting tir	select parameter HELP Route Selection Mode) or disable the ARS feature ne of 4 time zones.	 A provide the second sec	312] [313]
Hit sp Hit sp lanation Mode (A Assigns Fime (A Sets the s Mod Ren	Second to the second	select parameter HELP Route Selection Mode) or disable the ARS feature ne of 4 time zones. d (ARS Modify Removed	Digit and Added	SAVE 8 EXIT [312] [313] Number) [330, 32
Hit sp Hit sp lanation Mode (A Assigns Fime (A Sets the Sets the Mod Ren Assigns	Automatic I to enable of RS Time) starting tir nove / Ado the remove	select parameter HELP Route Selection Mode) or disable the ARS feature. ne of 4 time zones. d (ARS Modify Removed ed numbers and/or the add	Digit and Added led numbers for A	[312] [313] Number) [330, 33 ARS modification.
Hit sp Hit sp lanation: Mode (A Assigns Fime (A Sets the Assigns Assigns ration>	excebar to acebar to 2 2 2 2 2 2 2 2 2 2 2 2 2	select parameter HELP Route Selection Mode) or disable the ARS feature ne of 4 time zones. d (ARS Modify Removed ed numbers and/or the add	Digit and Added ded numbers for A	[312] [313] Number) [330, 33 NRS modification.
Hit sp Hit sp lanation: Mode (A Assigns Fime (A Sets the Assigns ration>	conceptor to	select parameter HELP Route Selection Mode) or disable the ARS feature ne of 4 time zones. d (ARS Modify Removed ed numbers and/or the add the field in which you way	Digit and Added ded numbers for A	SAVE EXIT [312] [313] Number) [330, 33] NRS modification. Eter.

- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to ARS Menu screen.

<Condition>

- (1) Time or Disable appears by turns every time you press the spacebar to set the time.
- (2) Time zones should be as follows : Time-A<Time-B<Time-C< Time-D.
- (3) Disable must be set from Time-D.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

.

Assigning Items	Type of Field	Selection of parameter	Default
Mode	Selecting	On or Off	o ra ^{tta} Off
Time	Selecting	Disable or []AM/PM	Same as the
Hour	Direct	01 through 12 2 digits	screen on the previous page
AM / PM	Selecting	AM or PM	
Remove	Direct	0 through 9 contract of the second finance o	alan an a
Add	Direct	0 through 9 * # P or p (PAUSE) Maximum 20 digits	Not Stored

TABLE of ITEMS

ARS Routing Plan		Off-line		KX-TD1232	Both	
				·		
Routing Plan == 1 Priority == 1 2 3	2 3 123 123	4 5 123 123	6 123	7 8 123 123		
Time-A : TRG \Rightarrow 123 : Mod \Rightarrow 111	123 12- 111 11-	1			-	
Time-B: TRG \Rightarrow 123 : Mod \Rightarrow 111	123 1 111 1	2 1				
Time-C: TRG \Rightarrow 123 : Mod \Rightarrow 111	12 - 1	3 1		·	-	
Time-D: TRG \Rightarrow : Mod \Rightarrow	 	· · · · · · · · · · · · · · · · · · ·			- - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19	
Enter numeric code				SAVE	synten fri se synten frifer synten frifer	

<Explanation>

ARS Routing Plan (ARS Routing Plans)[322, 323, 324, 325, 326, 327, 328, 329]Assigns the order of priority of CO line groups and modification numbers which cost least in each time zone.

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen.
- (3) Press F8 (EXIT) to return to ARS Menu screen.

<Condition>

- (1) You must enter a CO line group number and a modification number in a pair.
- (2) When you press F7 (SAVE), it is checked that a CO line group number and a modification number are entered in a pair.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field		Selection of parameter	Default
TRG	Direct	1 through 8	Space (displayed as-)	Space (–)
Mod	Direct	1 through 8	Space (displayed as-)	Space ()

TABLE of ITEMS

요구, 2011년 등 관광을 수준 위한 고수가 있다. 이가 가지 요구, 400년 동안 가는 2012년 1월 2012년

는 가슴을 즐길려요? 한다는 것은 것 같은 것 같다. 한 번 한 가을 받는 것은 가지 않고 있는 것 같다. 한 것 같은 것 같은 것 같은 것 같은 것 같다.

Market Republic

4-66

3. ARS Leading Digit

ARS Leading Digit	Off-line	KX-TD1232 Both	
Routing Plan No.1 [] [_] []]			
Routing Plan No.2 [] [] [] [] [] []]]]]]]] </td <td></td> <td>Image: Second second</td> <td></td>		Image: Second	
Enter numeric code	SP-PAGE6N-PAGE	SAVE 🕃 EXIT	

<Explanation>

ARS Leading Digit (ARS Leading Digit Entry) [314, 315, 316, 317, 318, 319, 320, 321] Assigns dialing numbers for each ARS Routing Plan.

<Operation>

- This program consists of 4 pages. The first page displays Routing Plan No.1 and No.2. The second page displays Routing Plan No.3 and No.4. The third page displays Routing Plan No.5 and No.6. The last page displays Routing Plan No.7 and No.8.
- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.

(6) Press F8 (EXIT) to return to ARS Menu screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field		Default		
ARS Leading Digit	Direct	0 through 9	*(a wild card character)	Maximum 7 digits	Not Stored

TABLE of ITEMS

Aux. Ports Menu		Off-line	КХ-Т	D1232 Both	
					a Na Sta
an Na San Angelan (San Angelan) ang kasara Na San Angelan (San Angelan) ang kasara					
	1. Music &	Paging			
	2. Adminis	tration & SMDR &	& MODEN	1	3
	3. DISA				
	Select the r	umber · []			
Enter the number, and hit ENTE	R key				
] 5	6	2	8 EXIT	

<Operation>

- (1) Select the number of the program and press ENTER key.
- (2) Press F8 (EXIT) to return to Main Menu screen.

<Condition>

(1) For KX-TD816, the menu changes as follows:

1. Music & Paging

2. Administration & SMDR

Music & Paging

1.

 \bigcirc

Music	& Paging		Off-line	KX-TE	1232 Both	
		North and the			sa s	
					all controls	
		Hold Musi	c No. [1]			
		BGM No.	[1]			
	de la de	Pager Ton	e On			
		Ex-Pager 1 E Ex-Pager 2 E	XT No. BGM XT [196] Off XT [197] Off			
		Ex-Pager 3 E Ex-Pager 4 E	XT [296] Off XT [297] Off			
				an An an _{an a} na	1 -	
Enter	numeric code	3 4 HELP	5 6	SAVE	EXIT	
olanation>		· · · · · · · · · · · · · · · · · · ·	المنظنة المنظنية الم المنظنية المنظنية الم منظنية المنظنية المنظ	n ann an 19 19 Airt Airt 19 Airt Airt Airt 20 Airt Airt Airt		
Music on Assigns n	Hold No. (Mu nusic sources f	isic Source Use for H for Music on Hold.	old Music)		[803]	
BGM No. Assigns n	(Music Sourc	e Use for BGM)			[803]	
Pager Tor Assigns th	ne (External Pa ne confirmatio	ager Confirmation To n tone for external pa	ne) gers to be sent or n	ot.	[805]	
Ex-Pager Assigns F or for Ext	EXT No. (Flo loating Extens emal Pager 1 f	ating Number Assign ion numbers for Exte for KX-TD816.	ment) emal Pager 1 throug	h 4 for KX-'	[813] TD1232	
BGM (Ex Assigns B or for Exte	ternal Pager B GM to be sent ernal Pager 1 f	GM) t or not for External F for KX-TD816.	Pager 1 through 4 fc	or KX-TD12	[804] 32	

<Operation>

(1) Move the cursor to the field in which you want to set a parameter.

(2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

(3) Press F8 (EXIT) to return to Aux. Ports Menu screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Items	Type of Field	Selection of parameter	Default
Hold Music No.	Direct	For KX-TD1232 1 : Music Source 1 of Master DSHS 2 : Music Source 2 of Master DSHS 3 : Music Source 1 of Slave DSHS 4 : Music Source 2 of Slave DSHS - : No music	1
		For KX-TD816 1 : Music Source 1 of DSHS – : No music	
BGM No.	Direct	For KX-TD1232 1 : Music Source 1 of Master DSHS 2 : Music Source 2 of Master DSHS 3 : Music Source 1 of Slave DSHS 4 : Music Source 2 of Slave DSHS - : No BGM	ан сайдаан 1 29 - Сайдаан 29 - Сайдаан 29 - Сайдаан
-		For KX-TD816 1 : Music Source 1 of DSHS – : No BGM	
Pager Tone	Selecting	On or Off	on sea ann an Aonaichtean ann an Ao Ann an Aonaichtean ann an Aonaichtean
EXT No.	Direct	0 through 9 2, 3 or 4 digits	Same as the screen on the previous page
BGM	S. cting	On or Off	Off

TABLE of ITEMS

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2. Administration & SMDR & MODEM

Administration	& SMDR & MODEM	Off-line	KX-TD1232 Both
		e e constante de la constante d	
MODEM E	XT No. EXT [299]		a di seria da seria Referencia da seria d Referencia da seria d
MODEM T	'ype Bell		
RS-232C In	terface Port - 1	Port - 2	
	Parity Mark	Mark	
	NL Code CR+LF	CR+LF	2 ¹⁰ - 111
	Word Length 7 bits	7 bits	
•	Stop Bit 1 Bit	1 Bit	and share to be a first
	Baud Rate 1200	1200	
SMDR			
OMDR			an an an an air an
	Duration Log (Outgoing)	All	
	Duration Log (Incoming)	On	nan Alemande Marjanako
	Format-Page Length	[66]	· · ·
	Format-Skip Perforation	[00]	
		n an	
and space par to	select parameter		
X	HELP S	6	7 SAVE 8 EXIT

[813]

[814]

<Explanation>

- MODEM EXT No. (Floating Number Assignment) Assigns Floating Extension number for MODEM.
 The feature is available for KX-TD1232 only.
- [2] MODEM TYPE (MODEM Standard) Assigns the type of a modem.
 The feature is available for KX-TD1232 only.
- [3] RS-232C Interface (EIA (RS-232C) Parameters) [806, 807] Assigns communication parameters for RS-232C. Prot-1 indicates Master DSHS and Port-2 indicates Slave DSHS for KX-TD1232. The KX-TD816 does not make a distinction between master and slave.
- [4] SMDR Duration Log Outgoing (SMDR Outgoing Call Log Printout)[800]Assigns the type of SMDR outgoing calls being printed out.[800]
- [5] SMDR Duration Log Incoming (SMDR Incoming Call Log Printout) [800] Assigns to print out SMDR incoming calls.

[6] Format-Page Length (SMDR Format) Assigns the number of lines per page when the record is printed out.

[801]

[801]

[7] Format-Skip Perforation (SMDR Format) Assigns the number of lines to be skipped at the end of every page.

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to Aux. Ports Menu screen.

<Condition>

- (1) Page Length must be longer than Skip Perforation by 4 or more lines.
- (2) The following combinations are invalid.

Parity	Word Length	Stop Bit
Mark	8	2
Space	8	1
Space	8	2

(3) In the case of KX-TD1232, the parameters of RS-232C Interface of the system which is not operating are displayed as the following.

Port-1 or -2 Parity ----NL Code ----Word Length ----Stop Bit ----Baud Rate ----

(4) The formats of SMDR are not available unless a printer is connected with the DSHS by RS-232C cable. If a printer is already connected, it has to be disconnected and connected again. Otherwise the former formats become valid.

TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default
*MODEM EXT No.	Direct	0 through 9 2, 3 or 4 digits	299
*MODEM Type	Selecting	BELL or CCITT	Bell
Parity	Selecting	None, Mark, Space, Even, Odd	Mark
NL Code	Selecting	CR+LF or CR	CR+LF
Word Length	Selecting	7 or 8 bits	8 bits
Stop Bit	Selecting	1 bit or 2 bits	1 bit
Baud Rate	Selecting	150, 300, 600, 1200, 2400, 4800, 9600	9600
Duration Log (Outgoing)	Selecting	All ; All duration of outgoing calls Toll ; Only duration of Toll calls Off ; Not printed	A11
Duration Log (Incoming)	Selecting	On ; All incoming calls or Off ; Not printed	
Format -Page Length	Direct	04 through 99 2 digits	66 [°]
Format -Skip Perforation	Direct	00 through 95 2 digits	00

*: Available for KX-TD1232 only.

3. DISA (for KX-TD1232 only)

DISA			(Off-line	K	X-TD1232 Both
an a				· · ·		
a second and the	EXT No.					
	OGM1 (E	DISA1)	⇒	EXT[19	98]	
	OGM2 (E	VISA2)	⇒	EXT[29	98]	
а — мал 19	Security Mode	;	⇒	Non		
	Tone-Detect		\Rightarrow	Enable		
	User Code					
	User-1	⇒	Code[1111]	COS[1]]
	User-2	⇒	Code	22221	COSI)
	User-3	⇒	Code	33331	COSI]
	User-4	⇒	Code[4	4444]	COSI]
				•		•
	REC Time					
	OGM1 (E	DISA1)		⇒	32sec	
]	OGM2 (D	DISA2)		⇒	Osec	
	OGM3 (T	imed Rei	minder)	⇒	32sec	
	OGM4			⇒	Osec	
	Repeat					
	Dialing M	lode		⇒ Rerv	eat	
	Talking M	lode	•	\Rightarrow Thm	ugh	
	B 11					
Enter nume	CODE	3			· [22] [
] HELP	2	D	M SA	AVE & EXIT
anation>						
EXT No. (Flo	ating Number Assign	nent)				[813]
EXT No. (Flo Assigns Floati	ating Number Assigning Extension number	ment) s for DIS	ал. SA. •			[813]
EXT No. (Flo Assigns Floati	ating Number Assigning Extension number	ment) s for DIS	SA. •			[813]
EXT No. (Floa Assigns Floati Security Mode	ating Number Assign ng Extension number (DISA Security Type)	ment) s for DIS e)	SA. •			[813]
EXT No. (Floa Assigns Floati ecurity Mode Assigns the se	ating Number Assign ing Extension number (DISA Security Typ curity mode for DISA	ment) s for DIS e)	SA			[813] [809]
EXT No. (Floa Assigns Floati ecurity Mode Assigns the se	ating Number Assign ng Extension number (DISA Security Typ curity mode for DISA	ment) s for DIS e)	5 A.			[813]
XT No. (Fload Assigns Floati ecurity Mode Assigns the se one-Detect (1)	ating Number Assign ing Extension number e (DISA Security Typ curity mode for DISA DISA Tone Detection	ment) s for DIS e) 	5 A.			[813] [809] [810]
XT No. (Floa ssigns Floati ecurity Mode ssigns the se one-Detect (I ssigns to ena	ating Number Assign ing Extension number c (DISA Security Typ curity mode for DISA DISA Tone Detection ble or disable to detect	ment) s for DIS e)) xt the DIS	SA. •			[813] [809] [810]
XT No. (Floa ssigns Floati ecurity Mode ssigns the se one-Detect (I ssigns to ena	ating Number Assign ing Extension number county mode for DISA DISA Tone Detection ble or disable to detect	ment) s for DIS e)) 21 the DIS	SA. SA tone.			[813] [809] [810]
XT No. (Floa ssigns Floati ecurity Mode ssigns the se one-Detect (I ssigns to ena ser Code Co	ating Number Assign ing Extension number e (DISA Security Typ curity mode for DISA DISA Tone Detection ble or disable to detect de No. (DISA User C	ment) s for DIS e)) ct the DIS odes)	SA.			[813] [809] [810] [811]
XT No. (Floa ssigns Floati ecurity Mode ssigns the se one-Detect (I ssigns to ena ser Code Coo ssigns the Dl	ating Number Assign ing Extension number c (DISA Security Typ curity mode for DISA DISA Tone Detection able or disable to detect de No. (DISA User Co ISA user codes.	ment) s for DIS e)) ct the DIS odes)	SA.			[813] [809] [810] [811]
EXT No. (Fload Assigns Floati ecurity Mode Assigns the se one-Detect (1 Assigns to ena Ser Code Coo Assigns the Di	ating Number Assign ing Extension number c (DISA Security Typ curity mode for DISA DISA Tone Detection ble or disable to detect de No. (DISA User Co ISA user codes.	ment) s for DIS e)) ct the DIS odes)	SA.			[813] [809] [810] [811]
EXT No. (Fload Assigns Floati ecurity Mode Assigns the se Yone-Detect (I Assigns to ena User Code Coo Assigns the DI User Code CO	ating Number Assign ing Extension number e (DISA Security Typ curity mode for DISA DISA Tone Detection able or disable to detect de No. (DISA User Co ISA user codes.	ment) rs for DIS e)) ct the DIS odes)	SA.			[813] [809] [810] [811] [811]
EXT No. (Floa Assigns Floati ecurity Mode Assigns the se Fone-Detect (I Assigns to ena Iser Code Coo Assigns the DI Ser Code CO Assigns COS I	ating Number Assign ing Extension number c (DISA Security Typ curity mode for DISA DISA Tone Detection ble or disable to detect de No. (DISA User Co ISA user codes.	ment) s for DIS e)) ct the DIS odes) odes) user code	SA. · SA tone.			[813] [809] [810] [811] [811]
EXT No. (Floa Assigns Floati Security Mode Assigns the se Sone-Detect (I Assigns to ena User Code Coo Assigns the DI User Code CO Assigns COS I	ating Number Assign ing Extension number c (DISA Security Type curity mode for DISA DISA Tone Detection able or disable to detect de No. (DISA User Co ISA user codes. S No. (DISA User Co No. appending to the t	ment) rs for DIS e) x.) ct the DIS odes) odes) user code	SA. SA tone.			[813] [809] [810] [811] [811]
EXT No. (Floa Assigns Floati ecurity Mode Assigns the se one-Detect (I Assigns to ena ser Code Coo Assigns the DI Ser Code CO Assigns COS I EC Time (Ou	ating Number Assign ing Extension number e (DISA Security Typ curity mode for DISA DISA Tone Detection able or disable to detect de No. (DISA User Co ISA user codes. S No. (DISA User Co No. appending to the u atgoing Message Time	ment) rs for DIS e)) ct the DIS odes) odes) user code e)	SA. SA tone.			[813] [809] [810] [811] [811] [215]

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4-75

[7] Repeat (DISA DTMF Repeat) Assigns the level of DTMF tone to be repeated or not. [812]

<Operation>

(1) Move the cursor to the field in which you want to set a parameter.

(2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

(3) Press F8 (EXIT) to return to Aux. Ports Menu screen.

<Condition>

(1) The same User Code numbers cannot be assigned to two or more user codes.

(2) The total of REC Time must be less than 64 seconds.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter	Default
EXT No.	Direct	0 through 9 2, 3 or 4 digits	OGM1=EXT[198] OGM2=EXT[298]
Security Mode	Selecting	Non or Trunk	Non
Tone-Detect	Selecting	Disable or Enable	ender volgen og en Enable som areterenet
User Code (Code No.)	Direct	0 through 9 ⁴¹ and a final contract of the second se	Same as the screen on the previous page
User Code (COS No.)	Direct	1 through 8 1 digit	Same as the screen on the previous page
REC Time	Selecting	0, 16, 32, 64 seconds	Same as the screen on the previous page
Repeat	Selecting	Repeat or Through	Repeat

TABLE of ITEMS

4-8 Additional Function

Additional Function									Off-l	ine	et. Angeletik	ĸ	(-TD	1232	Both	
FNC	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
SYS1	O	0	1	0	1	0	0	0	1	1	0		0	0	0	i i
SYS2	1	1	1	1	1	1	1	1	0	0	1	0	1	1	0	0
SYS3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SYS4	1	1	1	1	1	1	1	1	1	1 •	1	1	1	1	1	1
COS1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
COS2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
COS3	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
COS4	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
COS5	1	1	1	1	1		1	1	1	1	1	1	0	0	0	0
COS6	1	1	1	1	1	1	- 1	1	1	1	1	1	0	0	0	0
COS7	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
COS8	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
TRG1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TRG2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TRG3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TRG4	1	1	1	1	1	1	1	1	1	1	1	1	1 .	1	1	1
TRG5	1	1	1	1	1	1	. 1 ;	1	1	1	- 1	1	1	1	1	1
TRG6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TRG7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 .	1
TRG8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1. 1 .5	1
Hit spac	ebar	to s	elect	рага	mete	r							··· · · · ·) 	
				1	F	A H	ELP			6		7	SA	VE	EX	TT I
•••••]	لننته				<u> </u>		t2	لنن		لانتنا		600	<u>.</u>	E2	<u></u>]

<Explanation>

[1] SYS1 Bit1

[990]

Assigns to send the music on hold or the ringback tone to the calling party while being transferred automatically.

[2] SYS1 Bit2

[990]

[990]

[990]

[990]

Assigns to judge it disconnecting or the consultation hold to press the hookswitch lightly and then place the handset in case of having a conversation with a standard telephone.

[3] SYS1 Bit3

Assigns to send the hooking signal or the disconnecting signal to CO lines when the Flash button is pressed in case of having a conversation with a proprietary telephone.

[4] SYS1 Bit8

Assigns to enable or disable to hear the sound from CO lines when Pause is sent to the lines in case of using a standard telephone.

[5] SYS1 Bit9

Assigns to judge it the hooking signal or the disconnecting signal to press the hookswitch lightly in case of using a standard telephone.

	[6]	SYS1 Bit10 Sets the time to send the DTMF signal to the Voice Mail.	[990]	
	[7]	SYS1 Bit11,12 Sets the delayed time to send the DTMF signal to the Voice Mail when the call and receives the 1D.	[990] Voice Mail	answers the
	[8]	SYS1 Bit13,14 Assigns the delayed time to send the DTMF signal to the Voice Mail when the DSHS and receives the Extension Status signal.	[990] the Voice M	ail answers
	[9]	SYS1 Bit15 Assigns to turn off the message waiting lamp.	[990]	
	[10]	SYS1 Bit16 Assigns to start the Automated Attendant Service when the Voice Mail reco FWD or IRNA.	[990] vives an outs	ide call by
	[11]	SYS2 Bit1 Assigns whether Transfer Recall occurs at the transfer originating extension outside party is transferred and unanswered.	[990] n or Operator	1 if an
	[12]	SYS2 Bit2 Assigns if Limited Call Duration is done for both outgoing and incoming ca	[990] Ills or outgoi	ng calls only.
	[13]	SYS2 Bit3 Assigns the Override Tone to be sent or not in case of Busy Override, Barge	[990] in or Privac	y Release.
	[14]	SYS2 Bit4 Assigns to enable or disable to check \times and # under the Toll Restriction.	[990]	
	[15]	SYS2 Bit5 Assigns to enable or disable to work the Flash function during receiving an olocked extension.	[990] outside call :	at a station
	[16]	SYS2 Bit6 Assigns Confirm Tone #3 to be sent or not.	[990]	
•	[17]	SYS2 Bit7 Assigns the pulse break ratio during dial pulsing.	[990]	
	[18]	SYS2 Bit8 Assigns if the Mail Box ID is substituted by the extension number or it is pre	[990] ogrammable	(free).
	[19]	SYS2 Bit9 Assigns the first display of LCD of a digital proprietary telephone (KX-T72) Dial program.	[990] 35) in Static	on Speed
	[20]	Assigns the source of Music Source 1 of the DSHS for Music on Hold and E	[990] BGM.	
	[21]	SYS2 Bit11, 12 Assigns inter-digit pause for pulse dialing.	[990]	

[22] SYS2 Bit13 [990] Assigns intercom dial tone frequency. [23] SYS3 Bit 1 - 16 & SYS4 Bit 1 - 8 [990] These areas are provided to assign PAD Switch Control (volume control of received calls on a CO line). This can be assigned per CO line. SYS 3 Bit 1 through 16 correspond to CO lines 1 through 16 and SYS4 Bit 1 through 8 correspond to CO lines 17 through 24 respectively. [24] SYS4 Bit 9 [990] Prohibits or allows a call originated by an AA port of VPS to another AA port. [25] SYS4 Bit10 [990] Restricts or allows sending pulse dialing signals during a CO call. [26] COS 1 - 8 Bit 1, 2, 3, 4 · [991] Assigns the number of the available digit to dial in case of having a conversation with an outside party. [27] COS 1 - 8 Bit 5 [991] Assigns to enable or disable the Call Forwarding - Follow Mc feature. <Operation> (1) Move the cursor to the field in which you want to set the parameter. (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file. (3) Press F8 (EXIT) to return to Main Menu screen. <Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

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Assigning Items	Type of Field	Selection of parameter	Default
SYS 1 Bit 1	Selecting	0: The ringback tone or 1: The Music on hold	1 - 1
SYS1 Bit 2	Selecting	0: The consultation hold or 1: Disconnecting	1 12 0 100 100
SYS 1 Bit 3	Selecting	0 : The disconnecting signal or 1 : The hooking signal	0
SYS1 Bit 8	Selecting	0: Enable or 1: Disable	
SYS1 Bit 9	Selecting	0: The consultation hold or 1: Disconnecting	0
SYS1 Bit 10	Selecting	0 : 80 msec or 1 : 160 msec	0
SYS1 Bit 11,12	Selecting	Bit 12 11 0 0 0.5 seconds 0 1 1.0 seconds 1 0 1.5 seconds 1 1 2.0 seconds	12=1 11=0
SYS1 Bit 13,14	Selecting	Bit 14 13 0 0 0.5 seconds 0 1 1.0 seconds 1 0 1.5 seconds 1 1 2.0 seconds	14=1 13=0
SYS1 Bit 15	Selecting	 0: The lamp is turned off when it is answered by the System. or 1: The lamp is turned off by entering the feature number of the Voice Mail. 	ana ka 0
SYS1 Bit 16	Selecting	0 : Not starting or 1: starting	0 , Nove
SYS2 Bit1	Selecting	0 : Extension or 1 : Operator	0
SYS2 Bit2	Selecting	0: Outgoing and incoming calls or 1: Outgoing calls only	0
SYS2 Bit3	Selecting	0: Disable or 1: Enable	1

TABLE of ITEMS (continued)

Assigning Items	Type of Field	Selection of parameter	Default	
SYS2 Bit4	Selecting	0 : No check or 1 : check	1	nin in Pierre Martine Martine
SYS2 Bit5	Selecting	0: Disable or 1: Enable	0	
SYS2 Bit6	Selecting	0 : Disable or 1 : Enable	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
SYS 2 Bit7	Selecting	0:60% or 1:67%	0	
SYS2 Bit8	Selecting	0: Extension number or 1: Free	0	
SYS2 Bit9	Selecting	0 : Names or 1 : Numbers	0	
SYS2 Bit10	Selecting	0 : Internal music source or 1 : External music source	1	
SYS2 Bit11,12	Selecting	Bit 12 11 0 0:630 ms, 0 1:830 ms, 1 0:1030 ms	01	
SYS2 Bit13	Selecting	0: Normal or 1: Distinctive	0	
SYS3 Bit 1 - 16 SYŠ4 BIT 1 - 8	Selecting	0:0dB or 1:-3dB · · · · · · · · · · · · · · · · · · ·	gelle O gelele en E	
SYS4 Bit9	Selecting	0 : prohibit or 1 : allow	0	
SYS4 Bit10	Selecting	0 : restriction or 1 : no restriction	1	

Assigning Items	Type of Field	Selection of parameter	Default
COS 1 - 8 Bit 1, 2, 3, 4	Selecting	Bit 4321Bit 43210000Not limited1008 digits00011 digit10019 digits00102 digits1019 digits00113 digits10110 digits00113 digits101111 digits01004 digits110012 digits	All=0
COS 1 - 8 Bit 5	Selecting	0 : Disable or 1 : Enable	1

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TABLE of ITEMS (continued)



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Caller ID		Off-line	KX-TD1232 Both
 A second sec second second sec		na sa	
Entry 1 [2 [3 [4 [5 [6 [7 [8 [9 [10 [Caller ID Code	Caller ID Nam	le solo in the second s
COPY	4 HELP	P-PAGE N-PAGE	SAVE 8 EXIT

<Explanation>

[1]	Caller ID Code (Caller ID Code Set)	[110]
	Assigns the numbers of the callers.	

 [2] Caller ID Name (Caller ID Name Set)
 [111]

 Assigns the names of the callers.
 [111]

<Operation>

- (1) There are 500 entries. They are displayed on the screen every 10 entries.
- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Use F2 (COPY) if you want to copy the data of one entry in another.
(7) Press F8 (EXIT) to return to the Main menu screen.

<Condition>

- (1) This feature is only available in USA, Canada and Hong Kong.
- (2) When you assign "Caller ID" in Interactive Editing mode, the data are not loaded into DB of the DSHS by pressing only F7 (SAVE) key. They are only saved in DB of the IBM-PC. If you want to load the data into DB of the DSHS, you must press F7 (SAVE) and then F8 (EXIT) key.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter		Default
Caller ID Code	Direct	0 through 9	Maximum 11 digits	Not Stored
Caller ID Name	Direct	0 through 9 A through Z a through z # ! ? Space . , ':; / + - = < > % & @ ()	Maximum 15 characters	Not Stored

TABLE of ITEMS

통 (1918년) 1919년 4일 - 1918년 1월 19일 - 1997년 ₁ 1919 - 1919년 19 1919년 1919

Chapter 5 Disk File Management

5-1 Disk File Management

Disk File Management			-line	Empty	n Sita 1 Sita 1 Sita
E E	Directory [A:_]		
File Name	Туре	Comme	nt	Date	an Alexandra
	••••••••••••••••••••••••••••••••••••••		-		
					-
				a series and the series of the	· · · · ·

<Explanation>

Manages the files in PC DB.

<Operation>

- (1) Enter the number of the drive and the name of the directory. Press ENTER key.
- (2) Press F8 (EXIT) to return to the initial screen.

Directory [C:\DEFAULT\] File Name Type Comment Date TD1232A.DBD KX-TD1232 Both 01.21.94 TD1232B.DBD KX-TD1232 Master 01.22.94 TD1232C.DBD KX-TD1232 Master 01.23.94 TD1232D.DBD KX-TD816 01.24.94 TD1232E.DBE KX-TD1232 Both 01.25.94 TD1232F.DBE KX-TD1232 Master 01.26.94	Disk File Manage	ement	Off-line	Empty
File Name Type Comment Date TD1232A.DBD KX-TD1232 Both 01.21.94 TD1232B.DBD KX-TD1232 Master 01.22.94 TD1232C.DBD KX-TD1232 Slave 01.23.94 TD1232D.DBD KX-TD816 01.24.94 TD1232E.DBE KX-TD1232 Both 01.25.94 TD1232F.DBE KX-TD1232 Master 01.26.94	n in the second s	Directory [C:\DEF.	AULTN (1997) AULTN (1997) AULTN (1997) AULTNA (1997)	
TD1232A.DBDKX-TD1232 Both01.21.94TD1232B.DBDKX-TD1232 Master01.22.94TD1232C.DBDKX-TD1232 Slave01.23.94TD1232D.DBDKX-TD81601.24.94TD1232E.DBEKX-TD1232 Both01.25.94TD1232F.DBEKX-TD1232 Master01.26.94	File Name	Туре	Comment	Date
TD1232G.DBE KX-TD1232 Slave 01.27.94 TD1232H.DBE KX-TD816 01.28.94 TD1232 I.DBA ASCII CONVERTED FILE 01.29.94	TD1232A.DBD TD1232B.DBD TD1232C.DBD TD1232D.DBD TD1232E.DBE TD1232F.DBE TD1232F.DBE TD1232G.DBE TD1232H.DBE TD1232 I.DBA	KX-TD1232 Both KX-TD1232 Master KX-TD1232 Slave KX-TD816 KX-TD1232 Both KX-TD1232 Master KX-TD1232 Slave KX-TD816	ASCII CONVERTED FILE	01.21.94 01.22.94 01.23.94 01.24.94 01.25.94 01.26.94 01.27.94 01.28.94 01.28.94 01.29.94
	Enter Function ke	No. 2014 State Stat State State S		

- (3) File names are displayed when the file extensions of them are ".DBE", ".DBD" and ".DBA". The files whose file extensions are ".DBE" are the files of database of version 2.xx type. The files whose file extensions are ".DBD" are the files of database of version 1.xx type. The files whose file extensions are ".DBA" are the files of ASC II for printing.
- (4) To load the files of database into the memory of the PC terminal

(1) Select the file by using \uparrow or \downarrow key and press F1(LOAD).

② When you select the file with ".DBE " and it is not in the memory,

a message "Now loading system data " appears and loading starts.

When you select the file with ".DBE" and it is already in the memory, a message "Old system data will be cleared OK? $(Y/N) \Rightarrow$ " appears.

Press "Y" or "y" to load or "N" or "n" to cancel.

When you select the file with ".DBD", a message "This is Ver.1xx Disk File DB. Do you convert to Ver.2xx? $(Y/N) \Rightarrow$ " appears. Press "Y" or "y" to convert and load or "N" or "n" to cancel. If the file is already in the memory, the former file is cleared automatically. Press F8 (EXIT) to cancel and return to the initial screen. When you press "Y" or "y", a message "Now loading system data " appears and loading starts.

When it is completed, a message "System data loading completed" appears. If you select the file with ".DBA", an error message " No Database Error" appears. (5) • To convert the database in the memory into the files of ASC II

① Press F2 (ASC II) and a message "Enter File Name[]" appears .

- ② Enter the name of the file without the file extension (as it is automatically attached to the name) and press ENTER key.
- (3) A message "Page Length []" appears. Enter the length of the page and press ENTER key.
- (4) A message "Now converting system data " appears and converting starts.
- (5) When it is completed, a message "System data conversion completed" appears.

(6) • To delete files

- ① Select the file by using \uparrow or \downarrow key, and press F3 (DELETE).
- \bigcirc A message "Are you sure? (Y/N) \Rightarrow " appears.
 - Press "Y" or "y" to delete, or "N" or "n" to cancel.
 - Press F8 (EXIT) to cancel and return to the initial screen.
- (7) To save the database in the memory into files
 - ① Press F7 (SAVE) and a message "Enter File Name[], Comment[appears.
 - ② Enter the name of the file without the file extension (as it is automatically attached to the name) and press ENTER key. Enter the comment and press ENTER key.

1"

- ③ A message "Now saving system data " appears and saving starts.
- (4) When it is completed, a message "System data saving completed" appears.

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(8) Press F5 (P-PAGE) to return to the previous page.

(9) Press F6 (N-PAGE) to advance to the next page.

(10) Press F8 (EXIT) to return to the initial screen.

<Condition>

When you press F2 (ASC II) or F7 (SAVE) and there are not any files in PC DB, an error message appears.

Chapter 6 DSHS Management

6-1 DSHS Management Main Menu

DSHS Management Main Menu	On-line (RS-232C)	Empty									
1. System Data	a Save (DSHS→PC Mer	nory)									
2. System Data Load (PC Memory→DSHS)											
3. Test											
	,										
Select the	number : [_]										
	e e e e e e e e e e e e e e e e e e e	and a second s									
Enter the number, and hit ENTER key		P EVIT									

<Operation>

- (1) Enter the number of the program and press ENTER key.
- (2) Press F8 (EXIT) to return to the initial screen.

<Condition>

- (1) When you select "1. System Data Save (DSHS→PC Memory)" and the data already exist in PC DB file, a message "Old System Data will be cleared. OK?(Y/N)⇒" appears. Press "Y" or "y" to be cleared. Press "N", "n" or ESC key to cancel. Press F8 (EXIT) to cancel and return to the initial screen.
- (2) When you select "2. System Data Load (PC Memory →DSHS)" but the data do not exist in PC DB file, an error message appears.
- (3) "3.Test" is available for KX-TD1232 only.

6-2 System Data Save (DSHS→PC)



<Operation>

- (1) Press ENTER key.
- (2) A message "Now saving system data" appears and saving starts.
- (3) When it is completed, a message "System data saving completed" appears.
- (4) Press F8 (EXIT) to cancel while the system data are being saved.
- (5) Press F8 (EXIT) to return to the initial screen after saving is completed.

6-3 System Data Load (PC \rightarrow DSHS)



<Operation>

(1) Press ENTER key.

(2) A message "Now loading system data" appears and loading starts.

(3) When it is completed, a message "System data loading completed" appears.

(4) Press F8 (EXIT) to return to the initial screen after loading is completed.

6-3

6-4 Test (for KX-TD1232 only)

6-4.1 TEST Entry

		1
Test Entry	On-line (RS-232C)	Empty
		• • • • • • • • • • • • • • • • • • •
When you start the test mode, the functioning and goes into the test nected.	Digital Super Hybrid S mode. All telephones a	ystem stops re discon-
Are you read	y? (Y/N) ⇒ [_]	
		•
Enter Y (Yes) or N (No), and hit ENTE	R key	
	5 6 7	8 EXIT

<Operation>

- (1) After selecting "3. Test", the screen above appears.
- (2) Press "Y" and then press ENTER key to start testing. The screen turns into "System Selection" screen. Once you start, the DSHS stops functioning and turns into the diagnostic mode.
- (3) Press "N" and then press ENTER key to cancel. The screen returns to the "DSHS Management Menu" screen.
- (4) Press F8 (EXIT) to return to the initial screen.

<Condition>

You cannot execute testing through Jack No. 01. If you connect the modem to Jack No. 01, please reconnect it to another jack.

6-4.2 System Selection

System Selection	On-line (RS-232C)	Empty
System Selection		
Which System do you select?	(M / S / E)`⇒ [_]	
End of Test		
When you finish testing, the o terminal and the Digital Supe The DSHS starts functioning Are you ready?	communication between r Hybrid System is dis again. $f(Y/N) \Rightarrow []$	en the sconnected.
	· •	
	• • • • • • • • • • • • • • • • • • • •	
		en provinsi se antiso de la composición de la composición de la composición de la composición de la composición Provinsi de la composición de la composi Provinsi de la composición de la composi
Enter M(Master), S(Slave), or E(End), and	d hit ENTER key	8

<Operation>

- (1) System Selection
 - Press "M" or "S" and then press ENTER key. The screen turns into "Test Menu" screen. Press "E" to advance to the next item "Test End".
- (2) Test End

• Press "Y" to finish communicating or "N" to return to the previous item "System Selection" and then press ENTER key.

6-4.3 Test Menu

Test Menu	(Master)	On-line (RS-232C)	E	Empty
	1. DTMF G/R T	est	Config	uration
	2. EXT Card Tes	st	BAC1 BAC2 BAC2	CO1 EXT1
	3. CO Card Test	na an an Arran an Arra. Ar an Arran an Arra an Arra an Arra an Arra an Arra. Arra an Arra an Arra an Arra an Arra an Arra an Arra an Arr	EXP1 EXP2	CO2 EXT3
	4. DISA Card Te	st	EXP3 OP1	EXT4 DISA
	5. DPH, RMT, C	ONF Test	OP2 OP3 OP4	DPH SIC
	6. Caller ID Test	unt jääd tähte sa		
	7. SIC Test			
	8. PT Test			
	Select the	number : [_]		
Enter the number,	and hit ENTER key	5 6 5	7]	8 EXIT

<Operation>

- (1) After pressing "Y" on the previous screen, the screen above appears.
- (2) Enter the number of the test and press ENTER key.
- (3) Press F8 (EXIT) to return to the initial screen.

<Explanation>

- (1) BAC 1/2/3 and EXP 1/2/3 in Configuration indicate the types of the cards in order of being installed and the numbers are automatically attached to the cards. All tests are executed according to the numbers. If the cards are not installed, BAC 1/2/3 and EXP 1/2/3 are displayed as blanks.
- (2) OP1/2/3/4 indicate DISA, RMT, DPH and SIC cards when they are installed.
- (3) The symmetry (Master or Slave) which is now tested is displayed in the screen.

DTMF G/R Test

1.

DTMF G/R Test	(Master)	On-line	(RS-232	C)	Empty
ng an				i.		
	TSW DTMF-G	EXT DTMF-R	EXTI	EXT2		
	1 1 2 2	1 2 1 2	OK OK OK OK	OK OK OK OK		
Exte	nsion por	ts must be	on-hook	or discon	nected	
	Enter I	EXT card	No. (1-2, [‡]	*)⇒[_]		
1. (E.1979) - 1979 - 1979			5. 	•a		
						$\sup_{t \in [0,\infty)} \frac{1}{t} \sum_{i=1}^{t} \frac{1}{t} \sum_$
Enter the EXT Card n	umber, ar	nd hit ENT	ER key	6	2	8 EXIT

<Operation>

- (1) Enter the number of the extension card (1 through 2) or * (a wild card character) and then press ENTER key.
- (2) The result is displayed by OK or \dot{NG} .
- (3) Press F8 (EXIT) to return to Test Menu screen.

<Note>

The System (Master or Slave) which is now being tested is displayed in the screen.



Examines the function of receiving DTMF of an extension card.

• The DTMF signal is sent from the DTMF generator in the CPU card, passes through CODEC and reaches the DTMF receiver in an extension card.

• The DTMF signal is sent and received in the following order.

CPU/DTN	IFG UHW	0 TS19 – 7 19	rsw – dhw	71 TS 0 - CO/C 0	CODEC – Dia	gnosis Path -	- DTMF R1
		23		0			1
		25		0			2
<condition></condition>							

All extensions connected with the extension cards must be on-hook or disconnected to reflect the signal at - the balance network circuit.

EXT Card Test

2.

EXT	Card Test		(Mas	(Master) On-line (RS-232C)			Empty		
	EX	TI	EX	T2	ЕХ	CT3	EXT4		
Port	Digital	Data	Digital	Data	Digital	Data	Digital	Data	
1	ОК	ОК	ОК	OK	ОК	ОК	ОК	ОК	
2	ОК	ОК	ОК	OK	OK	ок	ОК	ОК	
3	ОК	OK	OK	OK	ОК	OK	OK	OK	
4	OK	OK	OK	OK	OK	ОК	OK.	OK	
5	ОК	OK	OK	OK	OK	ОК	OK	OK	
6	OK	OK	ОК	OK	OK	OK	OK	OK	
7	OK	OK	ОК	OK	OK	OK	OK	OK	
8	ОК	OK	ОК	OK	ОК	ок	ОК	ОК	
· · · · · · ·					<u></u>	•	· ·		
		E	Inter EXT	Card N	lo. (1-4.*) =	⇒[_]	•		
					•				
Enter t	he EXT C	ard numb	er, and hi	t ENTE	R key				
	2	3		5	6	7	8	EXIT	

<Operation>

- (1) Enter the number of the extension card (1 through 4) or *(a wild card character) and then press ENTER key.
- (2) The result is displayed by OK or NG.
- (3) Press F8 (EXIT) to return to TEST Menu screen.

<Note>

The System (Master or Slave) which is now being tested is displayed in the screen.

(1) Examines the digital path of an extension card.



- The DTMF signal is sent from the DTMF generator in the CPU card. It passes through the telephone interface circuit in the extension port M of the extension card N and turns back to TWS. (The telephone interface circuit turns the signal back inside.) Then the signal passes through the port 1 of CO card 1 and the Diagnosis path, and reaches the DTMF receiver through the extension port 1 of the extension card 1.
- The signal is sent in the following order.

DTMF G1 – UHV	V0-TSW-DHWX	- Telephone Interface Circuit - UHWX	– TSW – DHW1 – CO CODEC
TS19) TSO-15	TS0-15	TSO

- Diagnosis Path EXT 1/DTMF R1

HWX=HW2 (EXT 1 Card), HW3 (EXT2 Card), HW4 (EXT3 Card), HW5 (EXT4 Card)

(2) Examines the data communication circuit of digital proprietary telephones of the extension cards.



- The telephone interface circuit is automatically assigned to turn the HDLC data back to HDLC Communication Circuit. The feature is examined as mentioned.
- The test is executed from port 1 to port 8.

3. CO Card Test

CO Ca	rd Te	st		(1	Master)	On-line	(RS-2	32C)		Empt	y	
										۰.	- 4 <u>-</u> 1	- и	
			C	01					C	02		, daena (Secondoria	
Port	Path	CUR. DTCT	FLSH	PLS DIAL	DTMF DIAL	Bell DTC	r Path	CUR. DT <u>C</u> T	FLSH	PLS DIAL	DTMF DIAL	Bell DTCT	
1 2 3 4 5 6 7 8	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK 	OK OK OK 	ОК ОК ОК 	OK OK OK 	OK OK OK 	ОК ОК ОК 	
Ι		<u>I</u>	F	Enter (CO Cai	rd No). (1-2.*	r),⇒[⁻	_]	1	I	1	
inter ti	he CC	Card	numbe	r, and	hit EN	TER	key	6	7		8 E	XIT	

10

10

<Operation>

(1) Enter the number of the CO card (1 or 2) or \times (a wild card character) and then press ENTER key.

.

(2) The result is displayed by OK or NG.

(3) Press F8 (EXIT) to return to Test Menu screen.





• The DTMF signal is sent from the DTMF generator in the CPU card.

It passes through CODEC in the CO port M of the CO Card N. (It is reflected at the balance network circuit.) The signal is turned back to TWS, passes through the port 1 of CO card 1 and reaches the DTMF receiver through the Diagnosis path and the extension port 1 of the extension card 1. The path is examined as mentioned above.

• The signal is sent in the following order.

In case of CO card 1;

CPU/DTMF G1 – UHW0 – TSW – DHW1 CODEC - UHW1 -TSW - DHW1 - CO CODEC - Diagnosis Path **TS19** TS 4, 8, 12 TS 4, 8, 12 TS 0 16, 20, 24, 28 16, 20, 24, 28 - EXT/DTMF R1 In case of CO card 2; CPU/DTMF G1 –UHW0 – TSW – DHW6 CODEC – UHW6 – TSW - DHW1- CO CODEC - Diagnosis Path _ **TS19** TS 0, 4, 8, 12 TS 0, 4, 8, 12 TS 0 - EXT/DTMF R1 In case of the port 1 of CO card 1; CPU/DTMF G1 -UHW0 - TSW - DHW1 CODEC – UHW1 – TSW - DHW1 - CO CODEC - Diagnosis Path **TS19** TS 0 TS 0, 4, 8, 12 TS₄ - EXT/DTMF R1

<Condition>

- (1) To reflect the signal at the balance network circuit, the extensions connected with the extension card 1 must be on-hook or disconnected.
- (2) To reflect the signal at the balance network circuit, the CO lines must be disconnected from CO cards.

(2) Examines the CPC detection function, sending the DTMF and the pulse dial function, and the BELL detection function of CO ports.



- 1) The extension port is turned into the diagnostic mode.
- 2) The CO port M is turned into the diagnostic mode.
- 3) DIAL is switched on and an electric current is sent to the BELL/CPC detection circuit in the port.
- 4) The DTMF signal is sent from the DTMF generator in the CPU card and received on the DTMF receiver in the extension card.
- 5) The Pulse is sent from and received on the HOOK/PULSE receiving circuit in the extension port.
- 6) DIAL is switched off and an electric current is not sent to the BELL/CPC detection circuit.
- 7) The Bell is sent from the extension port and received on the BELL/CPC detection circuit in the CO port M.
- 8) The CO port and the extension port quit the diagnosis mode.
- 9) The test mentioned above is executed from the port 1 to port 8 of the CO card 1 and from the port 1 to port 4 of the CO card 2.

4. DISA Test

DISA Card Test		(Maste	r) On-	line (RS	S-232C)	Empty
	DISA Port	CO-CO Path	DTMF Repeater	ОСМ	Tone Detect	
:	1-1 1-2 2-1 2-2	OK OK OK OK	ОК ОК	 ОК ОК	OK OK OK OK	
			: :	•		
Hit ENTER key	3	4	5	6	7	8 EXIT

<Operation>

- (1) Press ENTER key.
- (2) The result is displayed by OK or NG.
- (3) Press F8 (EXIT) to return to Test Menu screen.

<Note>

The System (Master or Slave) which is now being tested is displayed in the screen.

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(1) Examines the upper and lower paths, the DTMF repeater function, and the Tone detection function of DTMF circuit in the DISA card.



1) CO--CO path test

• The DTMF signal is sent from the DTMF generator and received on the DTMF receiver in the extension card. The path is examined as mentioned above.

• The signal is sent in the following order.

DTMF G1 – UHW0 – DHW6 – DISA – UHW6 – DHW1 – CO CODEC – Diagnosis Path –EXT1 / DTMF R1 TS19 TS16, 18 TS16, 18 TS 0

2) DTMF repeater test

• The DTMF signal is sent from the DTMF generator, passes through the DTMF receiver and the DTMF generator in the DISA card and received on the DTMF receiver in the extension card. The DTMF repeater function is examined as mentioned above.

• The signal is sent in the following order.

DTMF G1 – UHW0 – DHW6 – DISA/DTMF R – DISA/DTMF G – UHW6 – DHW1 – CO CODEC – Diagnosis Path TS19 TS16,18 TS16, 18 TS 0 – EXT1 / DTMF R1

- 3) Tone detection test
 - The call progress tone is sent in the following order and the tone detection circuit is examined.

Call progress tone – UHW0. TS3 – DHW6 – DISA Tone detection circuit TS16, 18

(2) Examines the upper and lower paths, the OGM recording and playing back function and the Tone detection function of OGM circuit in the DISA card.



- 1) CO-CO path test
 - The DTMF signal is sent from the DTMF generator and received on the DTMF receiver in the extension card. The path is examined as mentioned above.
 - The signal is sent in the following order.

DTMF G1 – UHW0 – DHW6 – DISA – UHW6 – DHW1 – CO CODEC – Diagnosis Path – EXT1 / DTMF R1 TS19 TS17, 19 TS17, 19 TS 0

- 2) OGM test
 - The DTMF signal is sent from the DTMF generator in the CPU card and recorded in OGM. The signal is played back from OGM and received on the DTMF receiver in the extension card. The OGM recording and playing back function is examined as mentioned above.

• The signal is sent in the following order.

DTMF G1 – UHW0. TS19 – DHW6. TS17 – DISA OGM recording – DISA. OGM playing back – UHW6. TS17 TS19

- DHW2.TS16 - CODEC - DTMF R1

3) Tone detection test

• The call progress tone is sent in the following order and the tone detection circuit is examined.

Call progress tone – UHW0. TS3 – DHW6 – DISA Tone detection circuit TS17, 19

DPH, RMT, CONF 1	Test	(Master)	On-lin	e (RS-23	2C)		Empty	
				· · · · · · · · · · · · · · · · · · ·	d et			
	DPH	Port 1 Port 2		OK OK				
	DNF Test (Master) On-line (RS-232C) Empty DPH Port 1 OK OK RMT Digital Loop Back OK OK RMT Digital Loop Back OK OK CONF CONF Trunk 1 OK OK CONF CONF Trunk 2 OK OK CONF Trunk 3 OK OK OK CONF Trunk 4 OK OK OK CONF Trunk 5 OK OK OK CONF Trunk 6 OK OK OK CONF Trunk 5 OK OK OK CONF Trunk 6 OK OK OK CONF Trunk 6 OK OK OK Conf Trunk 5 OK OK OK Conf Trunk 6 OK OK OK Image: State							
	CONF	CONF Tru CONF Tru CONF Tru	nk 1 nk 2 nk 3	OK OK OK			n ja minan kan Miranjari Takonan Miranjari	
		CONF Tru CONF Tru CONF Tru	nk 4 nk 5 nk 6	OK OK OK				an an an Roman
Ente	r card N	lo. (DPH=1, F	RMT=2	, CONF=:	3) ⇒	[_]		
		• •		e 1 (2.4 .e≮				
Enter the Card numb	er, and l	hit ENTER ke	ey	6	(RS-232C) Empty OK OK OK OK OK OK OK OK			

<Operation>

(1) Enter the number of the card (1 through 4) and then press ENTER key.

(2) The result is displayed by OK or NG.

(3) Press F8 (EXIT) to return to Test Menu screen.

<Note>

The System (Master or Slave) which is now being tested is displayed in the screen.

((88)



• The DTMF signal is sent from the DTMF generator in the CPU card and received on the DTMF receiver in the extension card.

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The path is examined as mentioned above.

• The signal is sent in the following order.

DTMF G1 – UHW0 – DHW0 – DPH CODEC – UHW0 – DHW1 – CO CODEC – Diagnosis Path –DTMF R1 TS19 TS29, 30 TS 0

(2) Examines the loopback on the RMT card.



• The digital and analog serial data are looped back in MODEM IC . The loopback function is examined as mentioned above. (3) Examines the path in the CONF trunks.



• The DTMF signal is sent from the DTMF generator in the CPU card, passes through the CONF trunk and reaches the DTMF receiver in the extension card.

The Conference trunks are examined as mentioned above.

• 3 patterns of paths are checked at every CONF trunk in the following order.

TMF DLE DLE	G1	\rightarrow DHW0 \rightarrow DHW0. \rightarrow DHW0.	$\begin{array}{c} \text{TS0} \rightarrow \\ \text{TS1} \rightarrow \\ \text{TS2} \rightarrow \end{array}$	CONF 1 CONF 1 CONF 1	UHW0. UHW0. UHW0.	$TS4 \rightarrow TS5 \rightarrow TS6 $	DHW1. DHW1. DHW1.	$TS 0 \rightarrow TS 0 \rightarrow $	Diagnosis Diagnosis Diagnosis	Path \rightarrow Path \rightarrow Path \rightarrow	DTMF R DTMF R DTMF R	1(DTMF) 1(IDLE) 1(DTMF)	
DLE TMF DLE	G1	\rightarrow DHW0. \rightarrow DHW0. \rightarrow DHW0.	$\begin{array}{c} TS0 \rightarrow \\ TS1 \rightarrow \\ TS2 \rightarrow \end{array}$	CONF 1 CONF 1 CONF 1	UHW0. UHW0. UHW0.	$TS4 \rightarrow 1$ $TS5 \rightarrow 1$ $TS6 \rightarrow 1$	DHWI. DHWI. DHWI.	$\begin{array}{l} \text{TS } 0 \rightarrow \\ \text{TS } 0 \rightarrow \\ \text{TS } 0 \rightarrow \end{array}$	Diagnosis Diagnosis Diagnosis	Path \rightarrow Path \rightarrow Path \rightarrow	DTMF R DTMF R DTMF R	1(IDLE) 1(DTMF) 1(DTMF)	
DLE DLE TMF (G1 -	→ DHW0. → DHW0. → DHW0.	$\begin{array}{c} TS0 \rightarrow \\ TS1 \rightarrow \\ TS2 \rightarrow \end{array}$	CONF 1 CONF 1 CONF 1	UHW0. UHW0. UHW0.	$TS4 \rightarrow 1$ TS5 $\rightarrow 1$ TS6 $\rightarrow 1$	DHW1. DHW1. DHW1.	$\begin{array}{l} \text{TS 0} \rightarrow \\ \text{TS 0} \rightarrow \\ \text{TS 0} \rightarrow \end{array}$	Diagnosis Diagnosis Diagnosis	Path \rightarrow Path \rightarrow Path \rightarrow	DTMF R DTMF R DTMF R	1(DTMF) 1(DTMF) 1(IDLE)]

6 conference trunks are examined.

Down path (TS NO.)	UP path (TS NO.)
4,5,6	0,1,2
8,9,10	4,5,6
12, 13, 14	8,9,10
16, 17, 18	12, 13, 14
20, 21, 22	16, 17, 18
24, 25, 26	20, 21, 22
	Down path (TS NO.) 4 , 5 , 6 8 , 9 , 10 12, 13, 14 16, 17, 18 20, 21, 22 24, 25, 26

<Condition>

Doorphones must be disconnected from the Doorphone ports to reflect the signal at the balance network circuit.

.

Caller ID Test		(Master)	On-line (RS	-232C)	Empty
		CO1	CO2		
	Port	Loop Back	Loop Back		
	1 2	OK OK	OK OK		
	3	OK OK	OK OK		
	5 6	ОК ОК			
	78	OK OK			
	Enter	CO Card No	b. (1-2,*)⇒	[_]	
Enter the CO Card nu	mber, and	i hit ENTER	key		

<Operation>

(1) Enter the number of the CO card (1 or 2) or \times (a wild card character) and then press ENTER key.

(2) The result is displayed by OK or NG.

(3) Press F8 (EXIT) to return to Test Menu screen.

<Note>

The System (Master or Slave) which is now being tested is displayed in the screen.

Examines the Caller ID function of CO cards.



• The serial interface circuit in the Caller ID card is assigned to turn the serial data back inside and received them on the circuit.

The function is examined as mentioned above.

SIC	Test					(Ma	ster))	On-	line	(RS-	2320	5)		Em	pty	<u> </u>
	r	· · ·	2.1	1	·	·					\$ (a	÷;	1.3	1			
	Сн	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Path	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	
	СН	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	Path	ОК	ок	ок	ок	ОК	ок	ОК	ок	ок	ок	ок	ок	ОК	ок	ок	
														L			a lina. A dag
															* ;		
										,							
Hit EN	TER I	key		_													
	2			<u>i</u>		4		5		6			7		8 E	EXIT	· [

<Operation>

- (1) Press ENTER key to proceed.
- (2) The result is displayed by OK or NG.
- (3) Press F8 (EXIT) to return to Test Menu screen.

<Note>

The System (Master or Slave) which is now being tested is displayed in the screen.

(1) Examines the SIC path.



- The DTMF signal is sent from the DTMF generator in the CPU card, passes through SIC path, reflected at TSW of another system, and is received on the DTMF receiver in the extension card. The path is examined as mentioned above.
- The signal is sent in the following order.

DTMF G1 – DHW7	– UHW7	– DHW7	- UHW7 - DHW1- CO CODEC - Diagnosis Path
TS 1-15	TS 1-15	TS 1-15	TS 1-15 TS 0
17-31	17-31	17-31	17-31
	(another system)	(another system)	

- DTMF R1

PT Te	Test EXT 1 Port Normal OHCA Path Path	(Master)			n-line (R	S-232C)	Empty			
	EX	T 1	EXT 2			EX	TT 3	EXT 4		
Port	Normal Path	OHCA Path	Normal Path	OHCA Path		Normal Path	OHCA Path	Normal Path	OHCA Path	
1 2 3 4 5 6 7 8	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK		OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK	OK OK OK OK OK OK	
	You must KX-T713 KX-T7220, Enter EX	Connect (0 (Norma KX-T7230, T Card No	the follow 1 path, OF KX-T7235, 5. (1-4,*)	ring PT HCA pa KX-T725 ⇒ [_]	wi th) 50, 1	th extens KX-T7020,	ion ports. KX-T7030,	KX-T7050	(Normal path	
nter tl	he EXT C	ard numb	er, and hi	t ENTE	[R	key	Z	8	EXIT	

<Operation>

- (1) Enter the number of the extension card (1 through 4) or *(a wild card character) and then press ENTER key.
- (2) The result is displayed by OK or NG.
 - (3) Press F8 (EXIT) to return to TEST Menu screen.

<Note>

- (1) A proprietary telephone is abbreviated to PT in the screen.
- (2) The System (Master or Slave) which is now being tested is displayed in the screen.

(1) Examines the normal path of analog proprietary telephones.



- The DTMF signal is sent from the DTMF generator to the normal path in an analog proprietary telephone and received on the DTMF receiver in the extension card. The path is examined as mentioned above.
- (2) Examines the OHCA path of analog proprietary telephones.



• The DTMF signal is sent from the DTMF generator to the OHCA path in an analog proprietary telephone, passes through CODEC and TSW in OHCA and the CO port 1 of CO card 1, and received on the DTMF receiver in the extension card 1.

The path is examined as mentioned above.

- Digital PT Extension card N CPU card

 DTMF G
 A-B line
 TSW

 CO Card 1
 TSW

 CO Port 1
 CODEC

 Diagnosis Path
 Extension Card 1 or 2

 Extension Port 1
 Extension Port 1

 U
 U

 U
 U
- (3) Examines the normal path of digital proprietary telephones.

• The DTMF signal is sent from the DTMF generator to the normal path in a digital proprietary telephone, passes through TSW in the CPU card and is received on the DTMF receiver in the extension card 1. The paths are examined as mentioned above.

Chapter 7 DSHS Connect / Disconnect

1 DSHS Connect / Disconnect Main Menu

DSHS Connect / Disconnect	Main Menu	Off-line	KX-TD	1232 Both
		•		
1. R	S-232C Connec	، بېنې د د ک		
2. 1	MODEM Conne	rene and the second sec		
3. D	Disconnect			
		,		
	Select the num	ber: [_]		
Enter the number, and hit EN	TER key	8	7	FYIT

<Operation>

- (1) Select the number of the program and press ENTER key.
 - If RS-232C is connected to an external MODEM, you must select "2. MODEM Connect".
 - If your PC terminal is already connected with the DSHS and you want to reconnect it, you must disconnect it from the DSHS first and reconnect it.
 - (2) Press F8 (EXIT) to return to the initial screen.

<Condition>

- If your PC terminal is already connected with the DSHS and you select "1. RS-232C Connect" or "2. MODEM Connect", an error message appears.
- (2) If your PC terminal is already disconnected from the DSHS and you select "3. Disconnect", an error message appears.
- (3) "2 MODEM Connect" is available for KX-TD1232 only.

7-2 RS-232C Connect

RS-232C Connect		Off-line	:	KX-TD1232 Both			
	COM Port No.	[1]					
	Baud Rate NL Code Word Length Parity Stop Bit	9600 CR+LF 8 bits Mark 1 bit					
	Password	[]					
		·					
		an gereinten S					
Enter numeric code	HELP S	6	7(CONNECT 8 1	EXIT		

<Explanation>

Assigns the communication parameters of RS-232C connection.

<Operation>

- (1) Before assigning the parameters, connect the DSHS with Port 1 or 2 of the PC terminal by the RS-232C cable.
- (2) After selecting "1. RS-232C Connect", the screen above appears.
- (3) The cursor is placed in the Password field.
- (4) If you want to change the parameters, use TAB key, the cursor keys or ENTER key to move the cursor. The defaults of the DSHS are as the following.

Baud Rate = 9600NL Code = CR+LFWord Length = 7 bitsParity = MarkStop Bit = 1 bitPassword = 1234

(5) After editing the data, enter the password and press F7 (CONNECT).
- (6) A message "DSHS Connection completed (DSHS ID⇒KX-TDxxxx)" appears when the PC terminal is connected with the DSHS. DSHS Connecting Status turns into "On-line (RS-232C)".
- (7) Press F8 (EXIT) to return to DSHS Connect / Disconnect Main Menu screen.

<Condition>

- (1) If the password is wrong, an error message appears after pressing F7 (CONNECT). Reenter the correct one and press F7 again.
- (2) An error message appears when something is wrong with the line. Check the line and then press F7 (CONNECT) again.

Assigning Items	Type of Field	Selection of parameter	Default
Port No.	Direct	1 or 2 1 digit	1
Baud Rate	Selecting	150, 300, 600, 1200, 2400, 4800, 9600	9600
NL Code	Selecting	CR+ LF or CR	CR + LF
Word Length	Selecting	7 bits or 8 bits	8 bits
Parity	Selecting	None, Mark, Space, Even, Odd	Mark
Stop Bit	Selecting	1 bit or 2 bits	in a sea an
Password	Direct	0 through 9 4, 5, 6 or 7 digits	Not Stored

TABLE of ITEMS

7-3

7-3 MODEM Connect (for KX-TD1232 only)

MODEM Connect	Off-line	KX-TD1232 Both	
COM Port No.		· · · · [1]	
Interface ORG CON Type NL Code	CCITT V.22(120 Auto CR+LF	90 BPS) 	
Dial Mode MODEM Init Dial Number	Tone [[_	n an	
Password	[]		
		s and an and a second	
		e La transformación La transformación	
Enter numeric es de			
HELP	6	CONNECTS EXIT	

<Explanation>

Assigns the communication parameters of MODEM connection.

<Operation>

- (1) Before assigning the parameters, install the Modem card (Hayes compatible modem) in the PC terminal, or connect the external Modem (Hayes compatible modem) with the COM port 1 or 2 of the PC terminal. Connects the card or the Modem with a CO line after that.
- (2) After selecting "2. MODEM Connect", the screen above appears.
- (3) Automatic call from the Modem
 - ① Assigns the following parameters.

COM Port, Interface, ORG CON Type, Dial Mode, Dial Number, Password

⁽²⁾ After editing the data, press F7 (CONNECT).

The PC terminal detects the carrier signal from the DSHS and starts communicating with it.

(4) • Manual call from a telephone and access the Modem card.

① Assigns the following parameters.

- COM Port, Interface, ORG COM Type
- Password
- ⁽²⁾ Connects the telephone with a CO line and call the DSHS from it.
- ③ When you hear the carrier signal from the DSHS, press F7 (CONNECT) and place the handset.
- (5) Manual call from a telephone and access the external Modem.

COM Port, Interface, ORG COM Type Password

- ② Connects the telephone with the Modem and set the switch of the Modem to the "Telephone" position.
- ③ Call the DSHS from the telephone.

① Assigns the following parameters.

- When you hear the carrier signal from the DSHS, press the data communication button of the Modem and then press F7 (CONNECT) of the PC terminal and place the handset.
- (6) A message "DSHS Connection completed (DSHS ID⇒KX-TDxxxx)" appears when the PC terminal is connected with the DSHS. DSHS Connecting Status turns into "On-line (MODEM)".
- (7) Press F8 (EXIT) to return to DSHS Connect / Disconnect Main Menu screen.

<Condition>

- (1) An error message appears when something is wrong with the line. Check the line and then press F7 again.
- (2) If the password is wrong, an error message appears after pressing F7 (CONNECT) Reenter the correct one and press F7 again.
- (3) The following parameter is fixed in the default data. NL Code=CR + LF

<Note>

- If you need the initial data of the Modem, enter the command in MODEM Init field and the data are sent from the Modem.

TABLE of ITEMS

۰.

Assigning Items	Type of Field	Selection of parameter	Default				
COM Port No.	Direct	1 or 2 1 digit	1				
Interface	Selecting	CCITT V.21(300 BPS), CCITT V.22 (1200 BPS), BELL 103 (300 BPS) , BELL 212A (1200 BPS)	BELL 212A (1200 BPS)				
ORG CON Type	Selecting	Ana	Auto				
NL Code	Selecting	Construction of the second s Second second secon	CR + LF				
Dial Mode	Selecting	Tone or Pulse	Tone				
MODEM Inc	Direct	0 through 9 A through Z a through z 30 digits	Not Stored				
Dial Number	Direct	0 through 9 * # – P (Pause) Maximum T (Tone) 30 digits	Not Stored				
Password	Direct	0 through 9 4, 5, 6 or 7 digits	Not Stored				

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7-6

7-4 Disconnect



<Explanation>

Disconnects the PC terminal from the DSHS.

<Operation>

- (1) After selecting "3. Disconnect", the screen above appears.
- (2) After pressing ENTER key to disconnect from the DSHS, a message "DSHS Disconnected" appears and DSHS Connecting Status turns into "Off-line".
- (3) Press F8 (EXIT) to return to the initial screen.

Chapter 8 Secret Feature

8-1 Information Display



- <Operation>
- (1) Press [Alt] + [V] and the connection status, DB data, and the Version are displayed as shown above.
- (2) Press any key to return to the former screen.

<Condition>

The information above can be displayed in every screen.

8-2 Save Screen

<Operation>

(1) Press [Alt] + [P] and the displayed screen is saved into the file "P1232.PRT".

<Condition>

You can save every screen into the file and it is added to the former data each time.

EIA/ REMOTE PROGRAMMING & DIAGNOSIS MANUAL Additional Information (KX-A271 Version 3.xx)

The KX-A271 Version 3.xx is a software package which is used to assist in programming the Digital Super Hybrid System of Type C. It can also work with old types (Type A and B). Each type is as follows:

Туре	ROM Version				
TYPE A	P011Q (KX-TD1232)				
a dha a chann a chuir a chailte a stàitean. Tartha	P011V (KX-TD1232)				
	P051C (KX-TD816)				
TYPE B	P011Y (KX-TD1232)				
	P0511 (KX-TD816)				
TYPE C	P101A (KX-TD1232)				

The DB files of old types can also loaded into PC and newly assigned data is saved into DSHS of old types. The file extension of Version 3.xx is ".DBG". See the illustration below.



As new features are added to DSHS, The following programs are changed and added in KX-A271 Version 3.xx:

Added Programs

4-4 System 09. Voice Mail Integration 1) See page 9, 11 and 12.

2) **4-5 Toll Restriction** 3. TRS Extra Entry See page 18 through 21.

Changed Programs

- 4-3 Station 1. Station Setting: "LCS Mode" feature is added. See page 2 and 3 1) 5. Flexible Keys 1 and 6. DSS: 2WAY-REC: EXT[], 2-WAY TRN:EXT[], LCS, LCS Cancel are added to Selection of parameter. See page 3 through 8. 4-4 System 05. Flexible Numbering: 54(TAM Extr)⇒[799] is added. See page 10. 2)

4-5 Toll Restriction 1. TRS Deny and 2. TRS Exception: a maximum digit is changed from 2) "7" to "10". See page 13 through 17. 3. ARS Leading Digits: a maximum digit is changed from "7" to "10". 3) 4-6 ARS The entry numbers are changed from "01 through 50" to "001 through 100". See page 22 and 23. 4) **4-8** Additional Function SYS4 Bit 9 Prohibits or allows a call originated by an AA port of VPS to another AA port: the default setting is changed from "0" to "1". See page 24. 4-9 Caller ID: the location numbers are changed from "001 through 500" to "001 through 250". 5) See page 25.

The DSHS Connecting Status on the screen, Off-line and On-line, is changed into the DSHS Type, TYPE A, TYPE B, TYPE C.

2

Station Setting 1

	- - 	Static	on Settin	g 1			TY	PE C:ROM	[P101A]	KX-TD1	232 Both
		Jack	EXT	Name		X	E	Doo	rphone	LC	cs
						D P	X G	Day 1 2 3 4	Night 1 2 3	MO 4	DDE
		01-1	[<u>1</u> 01]	[RONNA]	N	[1]	YYYY	YYY	Y Stop	Rec
		02-1	[102]	[DEANNA]	- Y	[1]	NYNN YYYY	N N N N N N	N N Stop	Rec
		02-2	[103]	[RENEE]	- Y	[2] [3]	YYYY NNNN	Y Y Y N N N	Y N Stop	Rec
		03-2 04-1	[203] [104]]	Y.	[3] [4]	. N N N N N N N N	N N N N N N	N N Stop	Rec
		04-2	[204]	I [BILL O]	- Y	[4] [5]	N N N N N Y N N	N N N N N N	N N Stop	Rec
		05-2 06-1 06-2	[205]	ANITA].	Y	[5] [6]	N N N N N N N N	N N N N N N	N N Stop	Rec
		00-2 07-1 07-2	[200] [107]	[MATT]	- Y	[6] [7]	N N N N N N N N	N N N N N N	N N Stop	Rec
		07-2 08-1 08-2	[207] [108] [208]	L [DON R]	- Y	[7] [8]	N N N N N N N N	N N N N N N	N N Stop	Rec
		00-2	[200]	L	J		[8]	ΝΝΝΝ	NNN	N stell bubb Notes	
·		Enter n	umeric c	code	-						
	L		2 CC	DPY	A F	IELP	5 P-P/	AGE6N-PA	AGE S	AVE 8 E	XIT
<e:< td=""><td>xplan</td><td>ation></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>د بر الم - الم</td><td></td></e:<>	xplan	ation>								د بر الم - الم	
[1]	EX	T (Exter	nsion Nu	umber Set)						0]	03]
[2]	Nar	ne (Evt			ach e	xtensi	on.				
[~]	Ass	igns a u	ser's na	me to each ext	ensio	n.				[0	04]
[3]	XDP (Extra Device Port) [600] Assigns each extension port (jack) to be connected with a standard telephone or a proprietary telephone in parallel or pot										
[4]	EXG (Extension Group Assignment) [602] Assigns individual extensions to one extension group.										
[5]	Doo Assi	rphone gns exte	Day / Ni ensions (ight (Doorpho to answer a do	ne Rii iorpho	nging . one du	Assigr ring da	nment —Da ay mode or	ay / Nigł night m	nt) [6(node.	07,608]
*[6]	LCS Assi	LCS Mode (Live Call Screening Recording Mode Assignment) [610] Assigns whether to close the mailbox or to keep recording the conversation after the call is									

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Table of Items

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Assi Ite	igning ems	Type of Field	Selection of parameter	Default	
				For KX-TD1232 Jack 01-1=101 Jack 02-1=102	
EXT		Direct	0 through 9 2,3 or 4 digits	Jack 64-1=164 Jack 01-2=201 Jack 02-2=202	
				Jack 64-2=264	
***				For KX-TD816 Jack 01-1=101 Jack 02-1=102	
	-			Jack 16-1=116 Jack 01-2=201	
				Jack 02-2=202	
Name		Direct	0 through 9, A through Z, a through z, Maximum * # ! ? Space . , ': ; / +- = <> \$ % & @ () 10 characters	Not Stored	
XDP		Selecting	Y : Enable or N : Disable	N	
EXG		Direct	1 through 8 1 digit	1	
Doorph Day/ Ni	one ight	Select	Y : Enable or N : Disable	Jack 01-1=Y Other Jacks=N	
*LCS Mode		Select	Stop Rec or Keep Rec	Stop Rec	

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*: is only available for DSHS of TYPE C.

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5. Flexible Keys 1

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	Flexible Keys 1		TYPE C:ROM[P101A]	KX-TD1232 Both
n an ann an Arraig An Anna Anna Anna Anna Anna Anna Anna A	Jack No. 01			
lan an an an an an an				
ulter de la companya de la companya La companya de la comp				le Le constante de la constante de
	CO01	SEC0[01] : TONE[1]	CO13 2WAY-REC F	YT[165]]
	CO02	G-CO[1] : TONE[1]	CO14 2WAY-TRC-F	XT[105] YT[166]
na Na Haka Basar	CO03	L-CO : TONE[1]	CO15 I CS	
	CO04	DSS : EXT[100	1 CO16 S-CO[05] · TON	FN
	. CO05(E	SS1) [092-431-2111		E[1]
	C006(D	SS2) MSG WAIT	CO18 S-CO1071 · TON	F[1]
	CO07(D	SS3) FWD/DND	CO19 [092-234-1234	1
	C008(D	SS4) SAVE	CO20 [092-234-2345]
	C009(D	SS5) ACCOUNT	CO21 [092-234-3456	ана I — така]
	CO10(D	SS6) [CO22 [092-234-4567	, L
	C011(D	SS7) [CO23 [092-234-5678]
	CO12(D	SS8) [1 CO24 [092-234-6789]
				and a second
	Hit spacebar to select	parameter		
	JACK Z COPY	HELP SP	-PAGEON-PAGE	AVE SEXIT

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TABLE of ITEMS

	Assigning Items	Type of Field	Selection of parameter	Default	10
	Flexible Keys	Selecting	S-CO, G-CO, L-CO, DSS, [](means One Touch Key), MSG WAIT, FWD/DND, SAVE, ACCOUNT, CONF, VTR *2 WAY-REC: EXT[], *2 WAY-TRN: EXT[], *LCS, *LCS Cancel	For KX-TD1232 CO01 : S-CO[01 : TONE[1] CO02 : S-CO[02]
	S-CO	Direct	CO=01 through 24 Tone=1 though 8	CO24 : S-CO[24]	
	G-CO	Direct	TRG=1 through 8 Tone=1 though 8	: TONE[1] For KX-TD816	din e s
	L-CO	Direct	Tone=1 through 8	: TONE[1] CO02 : S-CO[02] : TONE[1]	
	DSS	Direct	EXT=0 through 9 2, 3 or 4 digits	: CO08 : S-CO[08] : TONE[1]	
] [(] One Touch)	Direct	0 through 9* # -, P or p (PAUSE), F or f (FLASH), S or s (SECRET)		
	/ŢR	Direct I	EXT=0 through 9 2, 3 or 4 digits		
*2 F	WAY- C	Direct H	EXT=0 through 9 2, 3 or 4 digits		
*2 T	WAY- RN	Direct E	EXT=0 through 9 2, 3 or 4 digits		

*: are only available for TYPE C.

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DSS	. `	TYPE C:RON	A[P101A]	KX-TD123	2 Both		
DSS No. 1							
DSS Jack No. \Rightarrow Jack [02]			n Alaman Bara				
Pair Jack No. \Rightarrow Jack [01]							
DSS01 DSS: EXT[100] DS	S17 [092-23	4-1234 1	PENI	1007-371-0976			
DSS02 [092-431-2111] DS	S18 [092-23	4-2345	PF02	[092-321-3670	J		
DSS03 MSG WAIT DS	S19 [092-23	4-3456	PF03	[002-321-8703	l l		
DSS04 FWD/DND DS	S20 [092-23	4-4567	PF04	[007_371_6543			
DSS05 SAVE DS	S21 [092-23	4-5678 1	PE05	[092-321-0343			
DSS06 ACCOUNT DS	S22 1092-23	4-6789	PF06	[092-321-3432	i		
DSS07 [] DS	S23 [and the first	PF07	[092-321-321			
DSS08 [] DSS	S24 [1 A. 1	PF08	[092-321-3210	J		
DSS09 [] DSS	S25 [PF09	[092-321-2109			
DSS10 [] DSS	S26 [1	PF10	[092-321-0987			
DSS11 [] DSS	S27 [i	PFI	[092-321-09876			
DSS12 [] DSS	528 [í	PF12	[092-321-0070			
DSS13 [] DSS	29 [1	PF13	[0,2,021,0,00			
DSS14 [] DSS	30 2WAY-F	EC:EXT	PF14	L. For the second			
DSS15 [] DSS	31 2WAY-R	EC:EXT	PF14	[
DSS16 [] DSS	32 LCS		PF16				
Enter numeric code							

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TABLE of ITEMS

Assigning			
Items	Type of Field	Selection of parameter	Default
DSS Jack No.	Selecting and Direct	Disable or [] (After selecting []) 02 through 64 (for KX-TD1232) 2 digits 02 through 16 (for KX-TD816)	Disable
Pair Jack No.	Selecting and Direct	Disable or [] (After selecting []) 01 through 64 (for KX-TD1232) 2 digits 01 through 16 (for KX-TD816)	Disable
Flexible Keys		DSS, [](means One Touch Key), MSG WAIT, FWD/DND, SAVE, ACCOUNT, CONF, VTR *2 WAY-REC:EXT[], *2 WAY-TRN:EXT [], *LCS, *LCS Cancel	DSS 01 : DSS : EXT [101] DSS 02 : DSS : EXT[102]
DSS	Selecting	EXT=0 through 9 2, 3 or 4 digits	DSS32 : DSS :
[] (One Touch)	Direct	0 through 9 * #-, P or p (PAUSE), F or f (FLASH), S or s (SECRET)	PF01:[] PF02:[] :
*2 WAY- REC	Direct	EXT=0 through 9 2, 3 or 4 digits	PF10:[]
*2 WAY- TRN	Direct	EXT=0 through 9 2, 3 or 4 digits	

*: are only available for TYPE C.

8

4-4 System

The screen illustrated below appears when you select "3. System".

System Menu		TYPE C:ROM[]	P101A]	KX-TD1	232 Both
en e					
			1.22		
	01. Day / Night				
	02. Class of Serv	vice		$\int_{M} d^{2} d^{2$	
• • • •	03. Speed Dial	an a			
	04. Absent Mess	age			1
	05. Flexible Nun	nbering			х Х
	06. Account Cod	le / Special Carr	ier		
	07. Timer	p			
	08. Voice Mail				
	09. Voice Mail In	ntegration			
	10. Miscellaneou	IS			
	11. System Time				
	12. Version				
		1. B. A.			
	Select the number	r : [_]			
inter the number, and hit l	ENTER key				
1 2 3	HELP 5	6	7	8 E	

<Operation>

(1) Enter the number of the program, and press ENTER key.

(2) Press F8 (EXIT) to return to Main Menu screen.

<Condition>

An error message appears when you select "11. System Time" or "12. Version" in Batch Editing Mode.

FI	exible Numberi	ng	· ·	Off	-line	KX-TD1232 Both
	No. (Feature)	Dial	No. (Feature)	Dial	No. (Featur	e) Dial
	01(1-EXT BLK 02(2-EXT BLK 03(3-EXT BLK 04(4-EXT BLK 05(5-EXT BLK 06(6-EXT BLK 07(7-EXT BLK 09(9-EXT BLK 10(10-EXT BLK 10(10-EXT BLK 12(12-EXT BLK 13(13-EXT BLK 13(13-EXT BLK 14(14-EXT BLK 15(15-EXT BLK 16(16-EXT BLK 17(Oper Call) 18(Locl Call) 19(TRG Call) 20(Speed SYS)	$\begin{array}{c} (1) \Rightarrow [1] \\ (2) \Rightarrow [2] \\ (3) \Rightarrow [2] \\$	21(Speed STA 22(Speed PRG 23(Door Call 24(Extr Page 25(E-Pag Ans 26(STA Page 27(S-Pag Ans 28(CO Pick 29(GRP Pick 30(Call Pick 30(Call Pick 31(Hold 32(H-Ret STA 33(H-Ret TRK 34(Redial 35(Call Park 36(ACCT Code 37(Door Open) 38(E-Feature) 39(STA Clear) 40(MSG Wait)	$) \Rightarrow [3^*] \\) \Rightarrow [30] \\) \Rightarrow [31] \\) \Rightarrow [32] \\) \Rightarrow [32] \\]) \Rightarrow [42] \\]) \Rightarrow [42] \\]) \Rightarrow [43] \\]) \Rightarrow [50] \\]) \Rightarrow [50] \\]) \Rightarrow [51] \\]) \Rightarrow [52] \\]) \Rightarrow [6] \\]] \Rightarrow [6] \\]] \Rightarrow [70] \\]]] \Rightarrow [70]]]]]]]]] \Rightarrow [51] \\]]]]]]]]]]]]]]]]]]$	41(OMG P/ 42(FWD / D 43(Pick Der 44(Data Lin 45(Call Wai 46(Over Der 47(Pickup D 48(Absnt MS 49(T-Remins 50(STA Loci 51(Night Mo 52(Para Mod 53(Extr BGN 54(TAM Ext	Rec) \Rightarrow [36] PND) \Rightarrow [710] hy) \Rightarrow [720] e) \Rightarrow [730] t) \Rightarrow [73] hy) \Rightarrow [73] hy) \Rightarrow [73] L) \Rightarrow [74] SG) \Rightarrow [750] der) \Rightarrow [76] k) \Rightarrow [77] d) \Rightarrow [78] \Rightarrow [39] A) \Rightarrow [39] A) \Rightarrow [35] r) \Rightarrow [799]
I	er numeric code	3	HELP 5	0	2 5	SAVE 🛿 EXIT

<Explanation>

Dial (Flexible Numbering) Assigns dialing numbers of each feature.

[100]

<Operation>

(1) Move the cursor to the field in which you want to set a parameter.

(2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

(3) Press F8 (EXIT) to return to System Menu screen.

<Condition>

(1) For KX-TD816, "No.41(OMG P/Rec) \Rightarrow [36]" is changed to "41(Reverse) \Rightarrow []".

(2) You must enter numbers from a left end. If you make a space in a field and try to move the cursor to the next item, an error message appears and it does not move to the next.

Voice Mail In	tegration	·····	TYPE C:RON	A[P101A]	KX-TD1232	Bo
	VM Port No.	Master Slave	[0 <u>9]</u> [10] [][]]	[11] [].		
		VM Jack	EXT	EXG		
	Master	01 09-1	[165]	[1]		
		02 09-2	[166]	[1]		
		03 10-1	[167]	[1]		
		04 10-2	[168]	[1]		
		05 11-1	[169]			•
	Slave	07 -1	[170]	[1]		
		08 -2	[172]	[1]		
		-1	[173]	· [1] · · · ·	an a	
		10 -2	[174]	[1]		
	· .	11 -1	[175]	[1]		
		12 -2	[176]	[1]		
an an tagan an tagan Tagan an tagan an tag		ang ang sé an P				
Enter numeric c	ode					
	<u>.</u>	HELP S	6	Z S.	AVE 🛿 EXI	Г
				,		
anation>						
oice Port No. (V ssigns the jack nu	oice Mail Nun Imber correspo	nber Assignm onding to voic	ent) e mail port fo	tata tra	[117	<u>ן</u>

- [2] EXT (Voice Mail Extension Number Assignment) [118] Assigns the extension number for voice mail number. These numbers can be used the same way extension numbers are used for station access.
- [3] EXG (Voice Mail Extension Group Assignment) Assigns each voice mail number to an extension group number.

[119]

<Operation>

(1) Move the cursor to the field in which you want to set a parameter.

- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to System Menu screen.

<Condition>

- (1) The Jack number 01 or manager extension cannot be assigned as the jack of voice mail port. The jack of voice mail port cannot be assigned to manager extension.
- (2) The jack numbers correspond to the voice mail port in numerical order. Example: Stored jack numbers: Jacks 02, 03, 05
 Jack 02=Voice mail numbers 01.02; Jack 03=Voice mail numbers 03, 04; Jack 05=Voice mail numbers 05, 06
- (3) You must assign the extension numbers. Do not leave the entry empty.
- (4) Double entry and incompatible entry for the extension numbers are invalid.

<Note>

The numbers beside the items in the explanation area are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

Assigning Items	Type of Field	Selection of parameter	Default
VM Port No.	Direct	Master: 02 through 32 2 digits Slave: 33 through 64	Not Stored
EXT	Direct	0 through 9 2, 3 or 4 digits	Same as the screen on the previous page
EXG	Direct	1 through 8 1 digit	1

Note: this feature is only available for DSHS of TYPE C.

a na a	Toll Restriction Menu		TYPE C:ROM[P101A]	KX-TD1232 Bot
a 31				
			$\frac{1}{\lambda_{n}} = \frac{1}{\lambda_{n}} \left(\frac{1}{\lambda_{n}} + \frac{1}{\lambda_{n}} +$	
- 1				
·				
		1 7700 0		
		1. IKS Den	l y is a second of the solution of the solut	
	Аранска •	2. TRS Exce	eption	
		3. TRS Extra	a Table	
		Calastal		
		Select the nur	mber : [_]	
F	Inter the number and Lie I			
Î			na si in an	
		HELP 5	6	8 EXIT

<Operation>

de anti-Althou

(1) Enter the number of the program and press ENTER key.

1.1

(2) Press F8 (EXIT) to return to Main Menu screen.

TRS I	Deny		Г	YPE C	ROM[P101A]	KX-TD1232 Both
TRS I LOC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18	LVL2 [012******] [022******] [032******] [042******] [052******] [062******] [062******] [072******] [092******] [102******] [122******] [132******] [152******] [162******] [162******] [182******]	LVL3 [013******] [023******] [033******] [043******] [053******] [053******] [053******] [073******] [073*******] [103*******] [123*******] [123*******] [153*******] [153*******] [163*******] [173*******]	L [014** [024** [034** [034** [044** [054** [064** [064** [074** [084** [094** [114** [124** [134** [154*** [164*** [184***	YPE C: VL4 ****** *****	ROM[P101A] LVL5 [015****** [025****** [045****** [055****** [055****** [055****** [055****** [055****** [055****** [155****** [155****** [155****** [155******	LVL6 *] [016*****] *] [026*****] *] [026*****] *] [036*****] *] [046*****] *] [046*****] *] [056*****] *] [066******] *] [076******] *] [096******] *] [096******] *] [106******] *] [116******] *] [126******] *] [136******] *] [136******] *] [166*****] *] [166*****] *] [166*****] *] [166*****] *] [166*****] *] [166*****] *] [166*****] *] [166*****] *] [166***] *] [166****] *] [166***] *] [166**] *] [166**] *] [166**] *] [166**] *] [166**] *] [166**] *] [166**] *] [166**] *] [166**] *] [166**] *] [166**] *] [166*
19	[192******] [193******1	[104***	****1	[105*******	[186*******]
20	[202******]	203******]	[204***	ر [****]	[205******]	[206******]
Enter nu	meric code		n 🕅			
		B HEL	r D	6		AVE & EXIT

<Explanation>

TRS Deny (Toll Restriction Denied Code Entry) [301, 302, 303, 304, 305] Assigns telephone numbers prohibited for each Toll Restriction level.

<Operation>

(1) Move the cursor to the field in which you want to set a parameter.

(2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

(3) Press F8 (EXIT) to return to Toll Restriction Menu screen.

<Condition>

You must enter a number from a left end and fill in the blank with *(a wild card character).

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

Assigning Items	Type of Field	Selection of parame	Default	
TRS Deny	Direct	0 through 9*(a wild card character)	Maximum 10 digits	Not Stored

Note: In case of DSHS of TYPE A, a maximum of 7 digits can be assigned.

1

2. TRS Exception

TRS Exception		TYPE C:ROM[P101A]	KX-TD1232 Both
LOC LVL2 01 [0012*****] 02 [0022*****] 03 [0032*****] 04 [0042*****] 05 [0052*****]	LVL3 [0013******] [001 [0023******] [002 [0033******] [003 [0043******] [004 [0053******] [005	LVL4 LVL5 4******] [0015****** 4*****] [0025****** 4*****] [0035****** 4*****] [0045****** 4*****] [0055******	LVL6] [0016*****]] [0026*****]] [0036*****]] [0046*****]] [0056******]
Enter numeric codes	HELP 5	6 7 s	AVEREXT

<Explanation>

TRS Exception (Toll Restriction Excepted Code Entry) [306, 307, 308, 309, 310] Assigns telephone numbers not prohibited for each Toll Restriction level.

<Operation>

- (1) Move the cursor to the field in which you want to set a parameter.
- (2) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (3) Press F8 (EXIT) to return to Toll Restriction Menu screen.

<Condition>

- (1) You must enter a number from a left end and fill in the blank with *(a wild card character).
- (2) Store your emergency numbers in Level 6.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter	Default
TRS Exception	Direct	0 through 9*(a wild card character) Maximum 10 digits	Not Stored

TABLE of ITEMS

Note: In case of DSHS of TYPE A, a maximum of 7 digits can be assigned.

3. TRS Extra Entry

	TRS Extra Entry		TYPE C:ROM[P	101A] K	X-TD1232	Both
			j ta Xina anto interna T	n an		Al III an Na Na Al
	а С					
	[RS Extra = [Except=2]					
[HELP 5	6	7	8 EXIT	

<Explanation>

TRS Extra Entry (Toll Restriction Extra Entry) [332] Selects the code table which enables the extra 400 entries within Denied or Except Code Table of one level.

<Operation>

(1) Press the spacebar until the desired selection appears.

(2) Press F8 (EXIT) to return to Toll Restriction Menu screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

TABLE of ITEMS

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Items	Type of Field		Selection of parar	meter		Default
TRS Extra	Selecting	Except-2, Except-3, Except-4, Except-5, Except-6 Deny-2, Deny-3, Deny-4, Deny-5, Deny-6				
		n an				Nya dia mampika mpika
Note: thi	is feature is only	y available for DSH	S of TYPE B and C	• (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
				🕶 la substance de la composition de la compos		•
			1 (*)			
			J			
				i da ser la composición de la		
			•			
					gang sa waasti	
-						
	м		7			
				n affilie an		
) /				
			ting and the second sec			

Т	RS Extra Entry		TYPE C:ROM[P101A]	KX-TD1232 Bot	h
	TRS Extra = Except-2				
0	01 [01111*****] 002 [12092]	34***] 003 [] 004[1 005 [1
0	06[]007[] 008 [] 009 [10101	i
0	11[]]012[] 013 [] 014 [1015	····i
0	6[]017[] 018 [] 019 [10201	
02	21 [] 022 [] 023 [] 024 [] 025 [
02	26[]] 027[] 028 [] 029 [10301	1
03] [] 032 [] 033 [1034[10351	- 1
03	6[] 037[] 038 [1039	1040	
04	1 [] 042 [] 043 [1044	1045[
04	6[] 047[] 048 [] 049 [1050[
05	1 [] 052 [] 053 [1054[1055[
05	6[] 057[] 058 [1 059 [1060[
06	1 [] 062 [] 063 [1064[1065[
06	6[] 067[1068	1 069 [1070[
07	1 [] 072 [] 073 [1074	1075[
07	6[] 077[] 078 [1 079 r	1080[
⁻ 08	1 [] 082 [1083	10841	10851	
08	5[] 087[1 880 [1 089 [1060[
09	[]] 092 [1093	1094[10951	
09	5[] 097[] 890 [1 099 [1001	
5	ar numerie de			1.00[1
		5000 F777	· · ·		
Ľ		HELP S	P-PAGE 6 N-PAGE	SAVE 8 EXIT	

<Explanation>

TRS Extra Entry (Toll Restriction Extra Entry) [333] This allows you to specify the numbers for extra Denied or Excepted Code Table for expansion.

<Operation>

- (1) After selecting the code table in "TRS Extra Entry" program, this screen appears. This program consists of 4 pages. The first page displays No.001 through 100. The second page displays No.101 through 200. The third page displays No.201 through 300. The last page displays No.301 through 400.
- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.

(6) Press F8 (EXIT) to return to Toll Restriction Menu screen.

<Condition>

You must enter a number from a left end and fill in the blank with *(a wild card character).

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of param	Selection of parameter				
TRS Extra Entry	Direct	0 through 9*(a wild card character)	Maximum 10 digits	Not Stored			

TABLE of ITEMS

3. ARS Leading Digit

	ARS I	eading Digit		TYPE C:ROM[P101A]	KX-TD1232 Both	
	Routin	g Plan No.1			te standard († 1997) 1997 - Standard († 1997)	
	001 [_ 006 [011 [016 [021 [026 [031 [036 [041 [046 [051 [056 [] 002] 007] 012] 017] 012] 017] 022] 027] 027] 032] 037] 042] 047] 052] 057	2[] 003 [7[] 008 [2[] 013 [2[] 013 [7[] 018 [2[] 023 [2[] 023 [2[] 023 [2[] 023 [2[] 033 [3[] 038 [3[] 043 [3[] 043 [3[] 053 [3[] 058 [] 004 [] 009 [] 014 [] 019 [] 024 [] 029 [] 034 [] 039 [] 044 [] 049 [] 054 [] 005 [] 010 [] 015 [] 020 [] 025 [] 030 [] 035 [] 040 [] 045 [] 050 [] 055 [
	061 [066 [071 [076 [081 [086 [091 [096]] 062] 067] 072] 077] 082 [] 087 [] 092 [] 097 [[] 063 [[] 063 [] 068 [] 073 [] 073 [] 078 [] 083 [] 088 [] 093 [] 098 [] 059 [] 064 [] 069 [] 074 [] 079 [] 084 [] 089 [] 094 [] 099 [] 060 [] 065 [] 070 [] 075 [] 080 [] 085 [] 090 [] 095 [] 100 []]	
Er 1	nter nur	neric codes 2	HELP 5	P-PAGE ON-PAGE	SAVE 8 EXIT	

<Explanation>

ARS Leading Digit (ARS Leading Digit Entry) [314, 315, 316, 317, 318, 319, 320, 321] Assigns dialing numbers for each ARS Routing Plan.

<Operation>

(1) This program consists of 8 pages.

The first page displays Routing Plan No.1. The second page displays Routing Plan No.2. The third page displays Routing Plan No.3. The forth page displays Routing Plan No.4. The fifth page displays Routing Plan No.5. The sixth page displays Routing Plan No.6. The seventh page displays Routing Plan No.7. The last page displays Routing Plan No.8.

- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.

22

- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Press F8 (EXIT) to return to ARS Menu screen.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field		Selection of parameter		Default
ARS Leading Digit	Direct	0 through 9	*(a wild card character)	Maximum 10 digits	Not Stored

TABLE of ITEMS

Note: In case of DSHS of TYPE A, 50 numbers of a maximum of 7 digits can be stored.

4-8 Additional Function

TABLE of	ITEMS	(continued)
----------	-------	-------------

Assigning Items	Type of Field	Selection of parameter	Default
SYS2 Bit4	Selecting	0: No check or 1 : check	1
SYS2 Bit5	Selecting	0: Disable or 1: Enable	анатар Анатар Алариа (0
SYS2 Bit6	Selecting	0 : Disable or 1 : Enable	1
SYS 2 Bit7	Selecting	0:60% or 1:67%	0
SYS2 Bit8	Selecting	0: Extension number or 1: Free	0 1
SYS2 Bit9	Selecting	0 : Names or 1 : Numbers	0
SYS2 Bit10	Selecting	0 : Internal music source or 1 : External music source	1
SYS2 Bit11,12	Selecting	Bit 12 11 0 0:630 ms, 0 1:830 ms, 1 0:1030 ms	01
SYS2 Bit13	Selecting	0 : Normal or 1 : Distinctive	0
SYS3 Bit 1 - 16 SYS4 BIT 1 - 8	Selecting	0:0 dB or 1:-3 dB	0
SYS4 Bit9	Selecting () : prohibit or 1 : allow	1
SYS4 Bit10	Selecting (): restriction or 1 : no restriction	1

.

4-9 Caller ID.



[111]

<Explanation>

- [1] Caller ID Code (Caller ID Code Set)
Assigns the numbers of the callers.[110]
- [2] Caller ID Name (Caller ID Name Set) Assigns the names of the callers.

<Operation>

- (1) There are 250 entries. They are displayed on the screen every 10 entries.
- (2) Move the cursor to the field in which you want to set a parameter.
- (3) After editing the data, press F7 (SAVE) to save them on the screen into DB file.
- (4) Press F5 (P-PAGE) to return to the previous page.
- (5) Press F6 (N-PAGE) to advance to the next page.
- (6) Use F2 (COPY) if you want to copy the data of one entry in another.

(7) Press F8 (EXIT) to return to the Main menu screen.

<Condition>

(1) When you assign "Caller ID" in Interactive Editing mode, the data are not loaded into DB of the DSHS by pressing only F7 (SAVE) key. They are only saved in DB of the IBM-PC. If you want to load the data into DB of the DSHS, you must press F7 (SAVE) and then F8 (EXIT) key.

<Note>

The numbers beside the items are program addresses which are used when you program the system by proprietary telephones.

Assigning Items	Type of Field	Selection of parameter		Default
Caller ID Code	Direct	0 through 9	Maximum 11 digits	Not Stored
Caller ID Name	Direct	0 through 9A through Z a through * # ! ? Space . , ' : ; / + - = < >\$	gh z Maximum % & @ () 15 characters	Not Stored

TABLE of ITEMS

Note: In case of the DSHS of TYPE A, 500 entries are available and 250 entries are available for Type B and C.

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Panassnic

For touch tone

and rotary telephones

Use this reference guide when you use a touch tone or rotary telephone with the KX-TD816/KX-TD1232, Panasonic Digital Super Hybrid Systems.

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¹¹ Feature Descriptions ¹² Operating Instructions

Feature Numbers

This Manual uses the initial factory settings (default value) for feature descriptions. If you change the feature number, use new one you programmed instead, Additional Required Digits are different depending on model of the Digital Super-Hybrid System, KN-TD816 or KN-TD1232 your telephone is connected to.

Feature Numbers	Default	Your #	Additional Required Digits	
			KX-TD816	KX-TD1232
Absent Message Capability set/eancel	750		1-9/0	1-9/0
Account Code Entry	40		Acet, code + #(99)	Acet. code + #(99)
Miernate Calling - Ring/Noice	*			
Call Forwarding set/cancel	710		2-6/0	2-6/0
Call Forwarding - Follow Me set/cancel	710		7/8	7/8
Call Hold	50			
Call Hold Remeye [Intercom call	51		ENTN.	EXTN.
Call Hold Remeye - CO call	53			
Call Park Call Park retrieve	52		()-9	()-9
Call Pickup, CO Line	1 X ~	~		
Call Pickup, Directed	-11		EXTN.	EXTN.
Call Pickup, Group	-40	-		
Call Pickup Deny set/cancel	. 720		1/0	1/0
Call Waiting set/cancel	731		1/0	1/0
Data Line Security set/cancel	730		1/0	1/0
Do Not Disturb set/cancel	710		1/0	1/0
Electronic Station Lockout lock	77		000-999 twice	000-999 twice
Electronic Station Lockout unlock	77		()()()-999	000-999
Executive Busy Override Deny set/cancel	733		170	1/0
External Feature Access	6			
Line Access, Automatic/ARS	9			
Line Access, CO Line Group	8		1-8	1-8
Message Waiting set/cancel/call back	- 70		1/0/2	1/0/2
⁺ Operator Call	()		0 or 1	0 or 1
Paging-All	32 or 33		×	×
Paging-External	32		0/1	0/1-4
Paging External Answer/TAFAS Answer	42			1-4
Paging-Group	33		0/1-8	0/1-8
ⁱ Paging-Group Answer	43			
Pickup Dialing set/cancel/assign	74		1/0/2+phone no.+#	1/0/2+phone no.+#
Redial	#			
Station Feature Clear	790			
Station Speed Dialing	3 ×		()-9	0-9
System Speed Dialing	*		()()-99	00-99
Timed Reminder set	76		1+*hhmm+0/1+0/1	1+*hhmm+0/1+0/1
Timed Reminder cancel	76		0	0

Absent Message Capability

There are nine flexible absent messages available. If you select a message it will be shown on the display of the calling party's telephone.

Automatic Callback Busy (Camp-On)

When the selected CO line or extension you have dialed is busy, dial the campon code and hang up. Your telephone will ring when the called party is idle. When you answer, their phone rings.

Busy Station Signaling (BSS)

You can inform a busy extension, which Call Waiting has been set, that you are waiting. The extension hears three beeps,

Call Forwarding (FWD)

Automatically transfers incoming calls to another extension or to an external destination. The following types are available:

- All Calls
 All incoming calls are forwarded to another extension.
- Busy

All incoming calls are forwarded to another extension, when your extension is busy.

- No Answer All incoming calls are forwarded to another extension, if you don't answer the call.
- Busy/No Answer All incoming calls will be forwarded to another extension, if you don't answer or your extension is busy.
- to CO Line* All incoming calls are forwarded to a CO line.
- Follow Me Allows you to remotely set Call Forwarding-All Calls from another extension.

Call Hold

Allows you to hold an extension or a CO call.

🔳 Call Park

Allows you to "park a call" so that any extension can retrieve it.

Call Pickup

Allows you to answer a call from any extension.

Call Transfer to Extension

Transfers incoming CO or extension calls to another extension (screened or unscreened.)

Call Waiting

Informs you with three beeps that there is a call waiting.

Conference

Allows you to make a three-party conference.

- **Do Not Disturb (DND)** The extension will not receive extension or CO calls.
- Do Not Disturb (DND) Override* Allows you to call an extension even though Do Not Disturb is set.

Executive Busy Override* – Extension

Allows you to enter into an existing extension conversation.

External Feature Access

Allows you to access special functions (e.g. Call Waiting) offered by a PBX, Centrex or the central office.

-3-



Feature Descriptions (contd.)

■ Intercom Calling

Allows you to make a call to another extension.

Line Access, Automatic

Allows you to select an available CO line automatically.

🖬 Line Access, CO Line Group

Allows each extension to select an idle CO line within the designated CO Line group.

Message Waiting

Allows you to leave a message for another extension. The message waiting lamp gives a visual indication to the called party.

Paging

Provides an announcement (page), through the built-in speaker of the telephone or by external speakers.

- Page using both built-in speakers and external pagers.
- External
- Page using all external pagers simultaneously.
- Page using a specific external pager.
- Group
- Page to all groups (all extensions)
- simultaneously.
- Page to a particular group of extensions using the built-in speakers.

Paging and Transfer

Allows you to transfer a call to a paged person.

Pickup Dialing

Allows you to make an outgoing call by lifting the handset, if you have previously stored the phone number.

Redial

- Last Number Automatically saves the last CO call number you dialed and allows you to
 - make the same outgoing call again.

Station Feature Clear

Allows you to reset all station features you programmed, which gives two beeps before dialing, to the default settings.

Station Speed Dialing

Each station can store up to 10 speed dial numbers which are only available to that extension user.

System Speed Dialing The system supports 100 speed dial numbers which are available to all extension users.

🛢 Timed Reminder

Each phone can be set to generate an alarm tone at a preset time as a wake up or to remind you of an appointment, etc.

Trunk (CO Line) Answer from Any Station (TAFAS)

Ringing through the external paging system indicates an incoming CO call. TAFAS allows this call to be answered from any extension.

Voice Mail Integration

When you are busy or absent, your calls can be forwarded to a mail box of the Voice Processing System.

* These features must first be enabled through System Programming, See the Installation Manual of the Digital Super Hybrid System.

Redial*

- Last Number
 - Lift the handset.
- Dial **#** .

Station Feature Clear

- Lift the handset.
- Dial 790 .
- Confirmation tone is audible.
- Replace the handset.

Station Speed Dialing* Storing phone numbers

- Lift the handset.
- Dial 30 + speed dial number (0-9) + line access code (9, 81-88) + phone number + #.
- Confirmation tone is audible.
- Replace the handset.

Dialing

- Lift the handset.
- Dial 3 × +

speed dial number (0.9).

- System Speed Dialing*
 - Lift the handset.
 - Dial \chi + speed dial number (00-99).

Timed Reminder

- Setting
- Lift the handset.
- Dial 761.
- Enter hour (01-12).
- Enter minute (00-59).
- Dial 0 or 1.
- **-0** ; for A.M.
- -1: for P.M.
- Dial 1 or 1.
- -0: for one time alarm setting
- -1 : for daily alarm setting
- Replace the handset.

Cancelling

Operating Instructions (contd.)

- Lift the handset.
- Dial 760
- Confirmation tone is audible.
- Replace the handset.
- Trunk (CO Line) Answer from Any Station (TAFAS) Answer
 - Answer
 - Lift the handset.
 - Dial 42 + external pager number (1-4).
 - If your telephone is connected to the
 - KX-TD816,
 - Dial 42 + external pager number (1)

Woice Mail Integration Setting Call Forwarding to Voice Processing System

- + Lift the handset.
- Dial 710 + FWD number (2-5)
- -2: FWD-All Calls
- 3: FWD Busy
- 4: FWD-No Answer
- -5: FWD-Busy/No Answer
- Dial [extension number] of the Voice Processing System.
- Confirmation tone is audible.
- Replace the handset.

Listening to a stored message

- Lift the handset.
- Dial <u>extension number</u> of the Voice Processing System.
- You can listen to the stored message by following the Voice Mail guidance
Message Waiting

Setting

- Lift the handset.
- Dial 701] + [extension number] • Replace the handset.

Cancelling

- Lift the handset.
- Dial [700] + [extension number].
- Confirmation tone is audible.
- Replace the handset.
- Responding to a message
- + Lift the handset.
- Dial 702

Paging

- $-\Lambda \Pi^{*}$
- · Lift the handset.
- Dial 32^{11} (or 33^{11}) + $[\times]$.
- Confirmation tone is audible (optional).
- · Announce.
- External
- To access all external pagers
- Lift the handset. • Dial 320
- Confirmation tone is audible (optional), Pickup Dialing*
- Announce.
- To access a particular pager only
- Lift the handset.
- Dial 32 + [external pager number] (1-4).
- If your telephone is connected to the
- KX-TD816.
- Dial 32 + external pager number (1).
- Confirmation tone is audible (optional).
- · Announce.
- Group
- To access all groups simultaneously • Lift the handset.
- Press [330].
- Confirmation tone is audible (optional).
- Announce.
- To access a particular group of
- extensions
- Lift the handset.

- Dial [33] + [extension group number] (1-8).
- Confirmation tone is audible (optional).
- Announce.
- Answer
- Lift the handset.

• Dial 42 + external pager number (1-4), or [43].

- If your telephone is connected to the KX-TD816.
- Dial [42] + [external pager number] (1), or [43].
- -42: To answer a page sent to the external pager/TAFAS.
- -43: To answer a page sent to the builtin speaker.
- Confirmation tone is audible (optional).
- Talk.

Paging and Transfer

- To transfer
- · Flash the hookswitch before dialing paging feature number (32 or 33).

- Storing the phone number
- Lift the handset.
- Dial 742 + phone number + #
- Confirmation tone is audible.
- Replace the handset.
- Setting/Cancelling
- Lift the handset.
- Dial 74.
- Dial 1 or 0.
- -1: for setting
- -0: for cancelling
- Confirmation tone is audible.
- Replace the handset.

Dialing

-8-

- Lift the handset.
- Wait for an answer.

Operating Instructions

Message 4, "Back at (time)"

• Lift the handset.

• Enter hour (00-23).

• Enter minute (00-59).

• Replace the handset.

• Enter month (01-12).

• Enter duy (01-31).

· Lift the handset.

· Lift the handset.

• Dial 7507 - 7509

-7507 : for Message 7

-7508 : for Message 8

-7509 ; for Message 9

• Replace the handset.

• Replace the handset.

While hearing busy tone;

• Replace the handset.

If a busy tone is heard;

• Wait for an answer.

- Confirmation tone is audible.

Busy Station Signaling (BSS)

Automatic Callback Busy

• Lift the handset.

Cancelling

• Dial 7500

(Camp-On)

• Dial 6],

• Dial 1.

-5-

· Enter parameters (if required).

• Dial 7506

· Replace the handset.

· Replace the handset.

Message 6, "In a Meeting"

Message 7, 8 or 9. (Unassigned)

• Lift the handset.

• Dial 7505

Message 5. "Out Until (date)"

• Dial 7504

<NOTE> -

If you use a dial pulse (DP) type single line telephone, it is impossible to access the features marked " * ".

- **Basic Operation**
- Making Calls
 - Intercom Calling
 - Lift the handset.
 - Dial extension number

Outward Dialing

- Line Access, Automatic
- Lift the handset.
- Dial 9 + phone number
- Line Access, CO Line Group
- Lift the handset.
- Dial 8 + CO Line group number (1-8).
- Dial phone number

Receiving Calls

- Lift the handset.
- Advanced Operation
- Absent Message Capability
- Setting
- Message 1. "Will Return Soon"
- Lift the handset.
- Dial 7501
- · Replace the handset.

• Replace the handset.

• Replace the handset.

Message 3. "At Ext (number)"

• Dial 7503 + extension number

Message 2, "Gone Home"

• Lift the handset. • Dial 7502

• Lift the handset.

- Call Forwarding (FWD) Setting
 - Lift the handset.
 - Dial as follows:
 - All Calls 7102 + extension number
 - Busy [710,3] + [extension number]
 - No Answer 7104 + extension number
 - Busy/No Answer 7105 + [extension number]
 - to CO Line* 7106 + [line access code] (9, 81-88) + [phone number] + [#]
 - Follow Me [7107] + [your extension number]
 - Replace the handset.

Cancelling

- At the original extension
- Lift the handset.
- Dial 7100
- Replace the handset.
- At the destination extension
- (Follow Me)
- Lift the handset.
- Dial 7108
- Dial your extension number
- Replace the handset.

🛚 Call Hold

Setting

- Flash the hookswitch.
- Dial [50].
- Confirmation tone is audible.
- Replace the handset.

Retrieving

- At the holding extension .
- + Lift the handset.
- Dial [50].

- At another extension
- (CO Call) • Lift the handset.
- Dial <u>53</u> + held <u>CO line number</u> (01-24).
- [If your telephone is connected to the] KX-TD816.
- Dial 53 + held CO line number
- (01-08). (Intercom Call)
- Lift the handset.
- Dial 51 + holding extension number
- 🖩 ¡Call Park

Setting

- While having a conversation;
- · Flash the hookswitch.
- Confirmation tone is audible.
- Dial 52 + parking zone number (0-9),
- Confirmation tone is audible.
- Replace the handset,

Retrieving

- Lift the handset. The attention
- Dial 52 + parking zone number (0-9),
- Confirmation tone is audible (optional).
- Talk.

Call Pickup

- CO Line*
- Lift the handset.
- Dial 4 💥 .
- Confirmation tone is audible (optional).
- Talk.
- Directed
- Lift the handset.
- Dial 41 + extension number
- Confirmation tone is audible (optional).
- Talk.
- Group 👘 🗄
- Lift the handset.
- Dial 40].
- Confirmation tone is audible (optional).
- Talk.

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Call Transfer to Extension – Screened

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- While having a conversation;
- Flash the hookswitch.
- Dial extension number].
- Wait for an answer and announce.

Operating Instructions (contd.)

Conference

• Dial 3.

Setting

While having a conversation:

• Dial the third party's number

-Confirmation tone is audible.

-Confirmation tone is audible.

Do Not Disturb (DND) Override

• Flash the hookswitch.

• Talk to the third party.

• Flash the hookswitch.

Do Not Disturb (DND)

Replace the handset.

• Replace the handset.

Calling a DND extension;

Executive Busy Override

External Feature Access

· Flash the hookswitch.

While having a conversation:

· Dial the code for the desired service

When a line is busy;

• Lift the handset.

• Dial 7100 .

• Dial 11.

- Extension

• Dial 2].

• Dial 6

• Lift the handset.

• Dial 7101

Cancelling

• Replace the handset.

- Unscreened

- While having a conversation:
- Flash the hookswitch.
- Dial extension number
- Replace the handset.

Call Waiting

Setting

- Lift the handset.
- Dial 7311 .
- -Confirmation tone is audible.
- Replace the handset.

Cancelling

- Lift the handset.
- Dial 7310
- -Confirmation tone is audible.
- Replace the handset.

To talk to the new caller, terminating the current call

- While hearing call waiting tone;
- Replace the handset.
- Lift the handset.

b

To talk to the new caller, holding the current call

- While hearing call waiting tone;
- Flash the hookswitch.
 Dial 50.

• Replace the handset.

• Lift the handset.

When you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-paid letter, detailing the symptom, to the outside of the carton. DO NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.

Panas Jnic

Digital Proprietary Telephone For Digital Super Hybrid System

Model NO. KX-T7235

Product service

Panasonic Servicenters for this product are listed in the servicenter directory. Consult your authorized Panasonic dealer for detailed instructions.

 For your f	For your future reference				
SERIAL NO (found on the bottom of the unit)	DATE OF PURCHASE				
NAME OF DEALER					
DEALER'S ADDRESS					

Panasonic Company,

Division of Matsushita Electric Corporation of America One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Company (West) of America, Division of Matsushita Electric Corporation of America 6550 Katella Avenue, Cypress, California 90630

Panasonic Sales Company ("PSC"), Division of Matsushita Electric of Puerto Rico, Inc. San Gabriel Industrial Park, 65th Infantry Avenue, KM 9.5, Carolina, P.R. 00630

Printed in Japan

PQQX10249ZA S0993T0



The KX-T7235 is compatible with the Panasonic Digital Super Hybrid System and can perform most of the functions of the system.

Please read before using this telephone.

Thank you for purchasing this Panasonic Telephone. Please read IMPORTANT SAFETY

INSTRUCTIONS on pages 25-26 before use. Read and understand all instructions.

Introduction

This KX-T7235 Digital Proprietary Telephone is designed for use with the Digital Super Hybrid System.

The telephone has the following convenient features:

Large Type Display

The large 24-character / 6-line Liquid Crystal Display provides visual cues for the user. These cues adapt to the current state of the telephone. In Programming mode, the display shows Programming messages.

Display Operation

The display adapts to the call status providing the user with the available options at every step. This improves efficiency and helps to prevent mistakes.

Speakerphone

A built-in speakerphone lets you have a totally "Handsfree" conversation.

Twelve Flexible CO Buttons

These buttons are totally flexible allowing you to re-assign them as another CO or to various feature buttons, such as, One-Touch Dialing or SAVE.



FCC and Other Information

NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

CAUTION:

To assure continued compliance with FCC rules, do not make any unauthorized modifications. When programming emergency numbers and/or making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
- Perform such activities in the offpeak hours, such as early morning hours or late evenings.

If there is any trouble, disconnect the unit from the extension line and connect a known working phone. If the known working phone operates properly, have it repaired by one of the specified Panasonic Factory Service Centers. If the known working phone does not operate properly, check the Electronic Modular Switching System and the internal extension wiring.

- Keep the unit away from heating appliances and electrical noise generating devices such as fluorescent lamps and motors.
- The unit should be kept free of dust, moisture and vibration, and should not be exposed to direct sunlight.
- Do not use benzine, thinner, or the like, or any abrasive powder to clean the cabinet. Wipe it with a soft cloth.
- Do not use any handset other than Panasonic handset.

This telephone provides magnetic coupling to hearing aids.

Important Safety Instructions (contd.)

- 7. Do not allow anything to rest on the telephone cord. Do not locate this product where the cord will be abused by persons walking on it.
- 8. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- 10. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel under
 the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.

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D. If the product does not operate normally by following the operating instructions. Adjust only those controls, that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

- E. If the product has been dropped or the cabinet has been damaged.F. If the product exhibits a distinct change in performance.
- 12. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 13. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

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Location of Controls



Initial Menu Aug 29 10:10AM Function-1--Function-6 -Function-7 Function-2-Function-3- Extension STA Speed -Function-8 Function-4- Features SY5 Speed Function-S- Call Log -l'unction-10 AVECCE CONT BOM S-#1 RING Soft-1 Soft-2 Soft-3

Accessory Order Information

- Replacement parts and accessories are available through your local authorized parts distributor.
- For ordering the accessory, call toll free: 1-800-332-5368



W: White and depend to B: Black

Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on the product.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or acrosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

- 5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

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*1 Feature Descriptions

*2 Operating Instructions

FWD/DND Button -Used to program Call Forwarding or set Do Not Disturb. MESSAGE Button Used to call back the CONF (Conference) message sender. Button Used to establish a PAUSE Button three-party conference. Inserts a pause in speed dial or other numbers. **INTERCOM** Button Used to make or TRANSFER Button receive extension calls. Transfers a call to another extension or to **REDIAL** Button an external destination. Used for Last Number or Automatic **VOLUME** Button Redialing. Used to adjust the ringer, speaker and FLASH Button handset/headset volume Sends an External and the display contrast. Feature Access signal to the central office or to a AUTO DIAL/STORE host PBX to access their Button features. If a PBX is not Used for System Speed being used this button Dialing and for storing can be used to program changes. disconnect the current call and start another AUTO ANSWER/ call without hanging up. **MUTE Button** Used for extension auto HOLD Button answer and microphone Used to place a call on mute during a hold. conversation. Microphone -**SP-PHONE** Button Used to speak for Used for handsfree handsfree conversation. operation. -5-

aller Greitstein (1997) - Sta



Connection



6

To set down the display:Push the LCD ADJ button.Press down the display.

LCD

Wall Mounting

 Remove the handset hook by pulling it 4 Place the stand on the center line. toward the top of the unit. Turn it around. Re-insert.





2 Remove the attaching stand.



3 Turn it around 180 degrees.



5 Mount the unit on the wall.



 To temporarily place the handset down during a conversation, hook it over the top edge of the phone as shown.



Station Programming

Before entering programming, you need to enter Programming mode.

When the telephone is idle and on-hook;

• Press : PROGRAM 99.

To exit Programming mode.

- Press : PROGRAM .
- or
- Lift the handset.

Station Speed Dial Number/Name Assignment

- To store dial numbers
- Press a Function button (F1-F10).
- · Enter Phone number].
- Press STORE button.
- To store names
- Press Function button (F1-F10).
- Press NEXT (S3) button.
- Enter names .
- See table down below for information on how to enter each character.
- Press STORE button.

			and the second se
Step 2.	Soft+1	Soft-2	Soft-3
Press	(SHIFT)	(SHIFT)	(SHIFT)
	Q	Z	!
ł			?
2	A	B	С
<u>,</u> 1	1)	E	F
4	G	11	1
5	J	K	L
6	М	N	0
7	р	R	S
8	T	Ľ	V
9	Ŵ	X	Y
0	·····	L	:
(, ,	,	;
×	1	-	<
Í	+	*	>
μ	S	å	(
ĺ	50	@)

 Press SHIFT to alternate between capital and small letters.

<Example>

To enter the letter "K," press each button as follows; • Press 5.

Press Soft 2 button.

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- Full One-Touch Dialing Setting
 - Dial 3. • Dial 1 or 2.

 - -1:01
 - -2: On
 - Press STORE button.

One-Touch Dialing Button

- Assignment
 - Press the desired CO button.
- Dial 2 + the desired number (phone numbers or feature numbers,
- etc.). • Press STORE button,
- Press STORE button.
- Preferred Line Assignment-
 - Incoming
 - Dial 2 + Ilne number (1, 2, or 3 + CO
- number),
 - -1: for No Line Preference
 - -2: for Ringing Line Preference -3 + CO number : for Prime Line
- Press [STORE] button.
- Press [STORIE] button.
- Preferred Line Assignment-
 - Outgoing _____
 - Dial 1 + line number (1, 2, or 3 + CO number) or press INTERCOM.
 - -1 : for No Line Preference
 - -1: TOP NO LINE Preference
 - -2: for Idle Line Preference
 -3 + CO number : for Prime Line
 - Preference (CO : 01-24) - INTERCOM : for Prime Line
 - (INTERCOM) Preference • Press STORE button.
 - and the second sec
- SAVE Button Assignment
 Press the desired CO button.
 - Dial 5].
 - Press STORE button.

Volume Control

You can adjust the volume by pressing the VOLUME button. The number of *'s on the display shows the volume level.

<Example>

Contrast ***

- -Speaker Volume Control
 1 Press the SP-PHONE button.
- 2 Press the \land (UP) or \lor (DOWN) button.
- -Handset/Headset Volume Control
- 1 Lift the handset (for Handset Volume). Press the SP-PHONE button (for Headset Volume).
- 2 Press the \land (UP) or \lor (DOWN) button.

-Ringer Volume Control

- During on-hook status; 1 Press the RING (S2) button,
- 2 Press the \land (UP) or \lor (DOWN) button.

While the telephone is ringing; 1 Press the \land (UP) or \checkmark (DOWN) button.

-Display Contrast Control

- 1 Press the CONT (S1) button.
- 2 Press the \land (UP) or \lor (DOWN) button.

Handset/Headset Selection

-7-

- 1 Press the PROGRAM button.
- 2 Dial.999.
- 3 Dial 1 or 2.
- -1: Handset
 - -2: Headset (optional)
- 4 Press the STORE button.
- 5 Press the PROGRAM button.

PROGRAM Button

AUTO DIAL/STORE Button

VOLUME Button





Absent Message Capability

There are nine flexible absent messages available. If you select a message it will be shown on the display of the calling party's telephone.

Account Code Entry

Used to identify incoming and outgoing CO calls, for accounting and billing purposes.

If required, you can be forced to enter an account code before dialing.

Alternate Calling-Ring/Voice Allows you to select ring or voice calling when making an intercom call. In Ring-Calling mode, you can call the other party with a ring tone. While in Voice-Calling mode, you can talk to the other party immediately after a confirmation tone.

■ Automatic Callback Busy (Camp-On)

When the selected CO line or extension you have dialed is busy, dial the campon code and hang up. Your telephone will ring when the called party is idle. When you answer, their phone rings.

Background Music (BGM)

Background music, from an external source, is heard through the built-in speaker of the telephone.

Busy Station Signaling (BSS) You can inform a busy extension, which Call Waiting has been set, that you are waiting. The extension hears three beeps.

Call Forwarding (FWD)

Automatically transfers incoming calls to another extension or to an external destination. The following types are available:

- All Calls All incoming calls are forwarded to another extension.
- Busy All incoming calls are forwarded to another extension, when your extension is busy.
- No Answer All incoming calls are forwarded to another extension, if you don't answer the call.
- Busy/No Answer
 All incoming calls will be forwarded to another extension, if you don't answer or your extension is busy.
- To CO Line* All incoming calls are forwarded to a CO line.
- Follow Me
- Allows you to remotely set Call Forwarding-All Calls from another extension,

Call Hold

Allows you to hold an extension or a CO call.

🔳 Call Park

Allows you to "park a call" so that any extension can retrieve it.

🔲 Call Pickup

0

Allows you to answer a call ringing at another extension.

Call Transfer to Extension

Transfers incoming CO or extension calls to another extension (screened or unscreened).

Feature Numbers

This Manual uses the initial factory settings (default value) for feature descriptions. If you change the feature number, use new one you programmed instead.

Feature Numbers	Default	Your #	Additional Required Digits
Call Park/Call Park retrieve	52		0-9
Call Pickup, CO Line	4 *		
Call Pickup, Directed	41		EXT.
Call Pickup Deny set/cancel	720		1/0
Call Waiting set/cancel	731		1/0
Data Line Security set/cancel	730		1/0
Door Opener	55		1-4
Doorphone Call	31		1-4
Electronic Station Lockout set/cancel	77		lock code (000-999)
Executive Busy Override Deny set/ cancel	733		1/0
Line Access, Automatic/ARS	9		
Line Access, CO Linc (Trunk) Group	8		1-8
Operator Call	, 0		(0,1)
Paging-All	32 or 33		X
Paging-External	32		0/1-4
Paging-External Answer/TAFAS Answer	42		1-4
Paging-Group	33		0/1-8
Paging-Group Answer	43		
Paralleled Telephone Connection	39		1/0
Station Feature Clear	79()		
Timed Reminder set	76		1+*hhmm+()/1+()/1
Timed Reminder cancel/confirm	, 76		0/2

*hhmm hh : hour (00-12) mm : minute (00-59)

System Feature Access Menu

1. Press Feature (F4).

F1	Aug	29 10:	10AM	<u>귀</u> [귀 [
F3 F3	Extensi Feature	on STA s SYS	Speed Speed	
,	CCNT	RING	BGM	
	SI	<u>[S2]</u>	<u>[S3]</u>	-

2. Press the desired Fx button.



telephone only. (See page 17.)

 Dial additional numbers (if required). See Operation Instructions for each feature.

Note:

Call Forwarding (FWD) and Do Not Disturb (DND) can be operated by the display operation. See Operating Instructions for each feature.

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System Speed Dialing

1. Pres	s SYS Spe	ed (F9).	•	
<u>[F1]</u>	Aug 29	10	10AM	F6
F2				<u>F7</u>
F 3	Extension	STA	Speed	<u>F8</u>
I ⁷ 4	Features	SYS	Speed	F9
1:5	Call Log			F10
	CONT	RING	BGM	

S2

[\$3]

-After pressing Fx button; 2. Press the desired Fx button.

SI

<Example> To select J, press F5.



11	AB		К1,	1.6
F2]	с		MN	[17]
1:3]	DE		OPQR	F8
1:4	FG		s	F9
F5	ніј		T – Z	F10
	MENU			1.14
	S1	<u>S2</u>	S3	

-After pressing Fx button;
3. Press the desired Fx button.
<Example> To select Jack, press F1.

		1)		ĝ.
¹ 1 ² 2 ³ 3 ¹ 4 ¹ 5	Jack Janny Jimmy John Johes	Ke Ke Ki K	en eth im 's shop ohji	F6 F7 F8 F9 F9
	MENU	PREV	NEXT	
	1811	[27]	[\$3]	•

-After pressing Fx button;

Jack's no. is dialed out. FG (TFF) 3333333 নিল 1-2 **F**8 1:3 Extension STA Speed F97 1:4 Features SYS Speed TFIO 1:37 Call Log ACONT CONT EFA S3 S2 ST

Feature Descriptions (contd.)

■ Call Waiting

Informs you with three beeps that there is a call waiting.

Conference

Allows you to make a three-party conference.

- Do Not Disturb (DND) The extension will not receive extension or CO calls.
- Do Not Disturb (DND) Override* Allows you to call an extension even though Do Not Disturb is set.
- Executive Busy Override - CO Line

Allows you to enter into an existing CO call or to add a third party to your existing conversation.

- Extension* Allows you to enter into an existing extension conversation.
- External Feature Access

Allows you to access special functions (e.g. Call Waiting) offered by a PBX, Centrex or the central office.

■ Full One-Touch Dialing

This feature automatically activates the handsfree speakerphone and dials a phone number or accesses a system feature at the touch of a button.

- Intercom Calling
 - Allows you to make a call to another extension.
- Line Access, Automatic Allows you to select an available CO line automatically.

■ Line Access, CO Line Group (Trunk Group)

Allows each extension to select an idle CO line within the designated CO Line Group.

Line Access, Individual Allows you to select the desired CO line without dialing the line access code.

- Message Waiting Allows you to leave a message for another extension. The message waiting lamp gives a visual indication that a message has been received.
- Paging

Provides an announcement (page), through the built-in speaker of the telephone or by the external speakers.

- All
- Page through both built-in speakers and external pagers.
- External
- Page through all the external pagers simultaneously.
- Paging to a specific external pager.
- Group

-9-

• Page to all groups (all extensions) simultaneously.

• Page to a particular group of extensions using the built-in speakers.

- Paging and Transfer Allows you to transfer a call to the paged person.
- Paralleled Telephone Connection This unit can be connected in parallel with a single line telephone. When this connection is made, either telephone can be used.



Feature Descriptions (contd.)

- Pulse to Tone Conversion
- Allows you to change from Pulse mode to Tone mode.
- 🔳 Redial
 - Automatic

Without lifting the handset, redialing can be activated automatically and repeated until the called party answers. The number and time between retries is programmable.

- Last Number Automatically saves the last CO call number you dialed and allows you to make the same outgoing call again.
- Saved Number The desired CO call number can be

stored and then redialed.

Station Feature Clear

Allows you to reset all station features you programmed, which gives two beeps before dialing, to the default settings.

 Trunk (CO Line) Answer from Any Station (TAFAS)
 Ringing through the external paging system indicates an incoming CO call.

TAFAS allows this call to be answered from any extension.

Voice Mail Integration When you are busy or absent, your calls can be forwarded to a mail box of

the Voice Processing System.

* These features must first be enabled through System Programming. See the Installation Manual of the Digital Super Hybrid System. - Display Features -----

Allows you to make the following calls:

🗄 🔳 Call Log

Redials by selecting one of your last numbers of CO calls.

Extension Dialing

Calls another extension by selecting a name.

Station Speed Dialing

Each station can store up to 10 speed dial numbers which are only available to that extension user. The display feature makes a one-touch call by selecting a name or number.

 System Feature Access Menu
 Allows you to access following services by pressing Function buttons. Absent Message Capability Call Forwarding (FWD) Call Pickup – Group Do Not Disturb (DND) Message Waiting Paging Paralleled Telephone Connection
 – for operator only

Background Music (BGM) – External Call Park Night Service Outgoing Message (OGM)

System Speed Dialing

The system supports 100 speed dial numbers which are available to all extension users.

The display feature makes a CO call from names stored with system speed dial numbers.

Operating Instructions (contd.)

Extension Dialing

1. Press Extension (F3). 16 F1 F2 Aug 29 10:10AM 171 1-18 TF3 Extension STA Speed 19 14 Features SYS Speed 110 151 Call Log RING BGM CONT S2 53 S1

2. Press the desired Fx button. <Example> To select B, press F1.

٦Ļ 1.61 FIAB KL F2 c MN 1.7 [13] DE OPOR 1-8 14 19 FG TF5 T-2 [110] HIJ MENU S2 53 SI

-After pressing Fx button;

3. Press the desired Fx button.

<Example> To select Billy Jane, press F5.

F1AgnessBobF2AliceCarolF3Ann MarglyCaseyF4Ben JohnsChed ElyF5Billy JaneChrisMENUPREVNEXTS1S2S3	1.6 1.7 1.8 1.8 1.9 [.10

-After pressing Fx button;



Station Speed Dialing

1. Press STA Speed (F8).

				1
[F1]	Aug	29 10:	10AM	1.6
F2				
1:3	Extensio	n STA	Speed	110
1:4	Features	SYS	Speed	1.9
[1:5]	Call Log			$\left \frac{1}{10} \right $
	CONT	RING	BGM]
	<u>[S1]</u>	<u>[\$2]</u>	<u>[S3]</u>	

2. Pross the desired Fx button.<Example> To select Panasonic, press F7.

1-1 2-1 2-1 2-1 2-1 2-1 2-1	Rob Jim Kopp Poraid Zangrii Nancy MENU SI	XME-soft Panasonic Polico Louisa Home NEXI 2 S3	1:6 [1:7] [1:8] [1:9] [1:10]
		Press \$3 to so programmed telephone nut	ee the
17] 172 173 174 174 175	9-173-4567 911111 93333333 9772111 100 XENU	9-98'-6543 90000000 a2000 Not Storod 9-100000 NEXT ST [53]	<u>त्रः।</u> <u>रः।</u> इः। भग



Outgoing Message (OGM) Allows to record a message for play back with various message services.

Recording

- Press OGM Recording (F5) button.
- Dial OGM number (1-4).
- -1 : for Direct Inward System Access (DISA) message 1
- -2 : for Direct Inward System Access (DISA) message 2*
- -3: for Timed Reminder
- -4 : not assigned --
- Confirmation tone is audible.
- · Record your message.
- Press STORE button.
- + Recorded message plays back.
- Press <u>STORE</u> button or wait until playback is finished.
- On-hook.

Playing back

- Press OGM Playback (F4) button.
- Dial OGM number (1-4).
- Confirmation tone and the message are audible.
- Press STORE button or wait until playback is finished.
- On-hook.
- The initial setting recording time for a DISA message 2 is zero. You can change the time through System Programming. See the Installation Manual of the Digital Super Hybrid System.

_____ Display Operation ---Call Log

1. Press Call Log (F5).

[FI	Aug 29 10:10AM	ाज्य
	Extension STA Speed	1.12
1:4	Features SYS Speed	[179]
1-5	Call Log	F10
	CONT RING BGM	
	<u>SI</u> <u>S2</u> <u>S3</u>	-

2. Press the desired Fx button.

<Example> To select 111, press F2.



-After pressing Fx button;

	the state of the	1		
	Extension	1 STA SYS	11 Speed Speed	म् ह्य ह्य
<u>1:5</u>	Call Log CONT	EFA S2	ACCNT	

Operating Instructions

-<NOTE> Off-hook: Lift the handset or press the SP-PHONE button. On-hook: Replace the handset or press the SP-PHONE button. Fx: Press Function button " x." Sy: Press Soft button " y."

Helpful hints for Handsfree operation:

• If it is difficult to hear the other party's voice:

Raise the sound level using the Speaker Volume Control.

• If the other party has difficulty hearing you;

Lower the sound level.

- Absorbing echoes; Use this unit in a room which has curtains and/or carpeting.
- To avoid missing part of the conversations;

If you and the other party speak at the same time, parts of your conversation will be lost.

To avoid this, speak alternately.

The various features can be performed by pressing Function buttons (System Feature Access Menu). Refer to Feature Descriptions on page 10.

The following features can be performed by pressing a Soft button.

Account Code Entry Alternate Calling – Ring/Voice Automatic Callback Busy (Camp-On) Background Music (BGM) Busy Station Signaling (BSS) Do Not Disturb (DND) Override Executive Busy Override External Feature Access For more information see the detailed descriptions for each feature.

- Basic Operation

- Making Calls
 - Intercom Calling
 Off-hook.
 - Oll-hook.
 - Dial [extension number].

or • Pross Extension (F3) button, (See page 19).

- Outward Dialing

• Off-hook.

- Dial 9 or 81 88, or press a CO button.
- 9 : Line Access, Automatic
- 81-88 : Line Access, CO Line
 - Group (Trunk Group)
- CO : Line Access, Individual
- Dial phone number].
- Receiving Calls
 - Off-hook, or
 - Press a flashing CO or INTERCOM button directly.

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Standard Operation

- Absent Message Capability
 - Setting
 - Press Feature (F4) button.
 - Press NEXT (S3) button.
 - Press Absent MSG On (F4) button.
 - Dial a message number (1-9) + parameter (if required).
 - 1: "Will Return Soon"
 - 2: "Gone Home"
 - 3: "At Ext (number)"
 - + extension number].
 - 4: "Back at (time)"
 - + Enter hour (00-23) + minute (00-59).
 - 5: "Out Until date"
 - + Enter month (01-12) + day (01-31).
 - 6: "In a Meeting"
 - 7~9: for unassigned messages.
 - On-hook.
 - Cancelling
 - Press Feature (F4) button.
 - Press NEXT (S3) button.
 - Press Absent MSG Off (F5) button.
 - On-hook.
- Account Code Entry

When hearing dial tone or during a conversation with an outside party;

- Press ACCNT (S3) button.
- Enter account code + # .
- Alternate Calling-Ring/Voice When calling an extension; To change to Ring mode
 Press Tone (S2) button. To change to Voice mode
 Press Voice (S3) button.

- Automatic Callback Busy (Camp-On)
- While hearing busy tone;
- Press C. BCK (S3) button.
- Confirmation tone is audible.
- On-hook.
- Background Music (BGM), Setting/Cancelling While on-hook:
 - Press BGM (S3) button.
- Busy Station Signaling (BSS)
 - If a busy tone is heard;
 - Press BSS (S1) button.
 - Wait for an answer.
- Call Forwarding (FWD)
 - All Calls
 - Off-hook.
 - Press FWD/DND button.
 - Press FWD-All Calls (F3) button
 - + extension number
 - On-hook.
 - Busy
 - Off-hook.
 - Press FWD/DND button.
 - Press FWD-Busy (F4) button
 - + extension number
 - On-hook.
 - No Answer
 - Off-hook.
 - Press FWD/DND button.
 - Prcss FWD-No Answer (F5) button + extension number].
 - On-hook.

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- Operating Instructions (contd.)
- Voice Mail Integration Setting Call Forwarding to the Voice Processing System
 - Off-hook.
 - Press FWD/DND button.
 - Dial 2-5.
 - -2: FWD-All Calls
 - -3: FWD-Busy
 - -4: FWD-No Answer
 - -5: FWD-Busy/No Answer
 - Dial extension number of the Voice Processing System.
 - Confirmation tone is audible.
 - On-hook.
 - Playing back a recorded message
 - Off-hook.
 - Press MESSAGE button.
 - Operator Operation ·

The operator 1 can access following features by display operation. The display below is the third one which appears on the operator telephone only.

- **T**⁻6 FN Call Park (-)0-9)TTT 1:2 Night On/Off (→1/0) 181 13 Extrn BGM On/Off 1.9 F4 OGM Playback $(\rightarrow 1-4)$ F5 [1:10] OGM Recording (-)1-4)NEXT MENU PREV SI 82 [83]
- To get the display;
 - Press Features (F4) button.
 - Press NEXT (\$3) button twice.

- Background Music (BGM)-
- External
- Allows the system to play BGM through the external pagers.
- Turning on/off
- Pross External BGM On/Off (F3) button.
- On-hook.
- Call Park

Allows to park a call so that any extension can retrieve it.

- Press Call Park (F1) button.
- Dial a parking zone number (0-9).
- On-hook.
- Night Service

Supports both NIGHT and DAY modes of operation.

- Press Night On/Off (F2) button.
- Dial 1 or 0.
- -1: from Day mode to Night mode
- -0: from Night mode to Day mode

• Dial [0] + [extension number] or [X]

extension

- x: lock or unlock all extensions

-extension : lock or unlock one

- On-hook.
- Remote Station Lock Control Allows to control Electronic Station Lockout on any station.
 - Press PROGRAM button.
 - Dial 99.

• Dial 1 or 2.

• Press STORE button.

Press PROGRAM button.

-1: Unlock

-2: Lock

• ~ •



Paging and Transfer

To transfer

- Press TRANSFER button before dialing the paging feature number (32 or 33).
- All
- Dial 32 (or 33) + 🗶 .
- Confirmation tone is audible (optional).
- Announce.
- External

To access all external pagers.

- Dial [320].
- Confirmation tone is audible (optional).
- Announce.
- To access a particular pager only
- Dial 32 + [extension pager number] (1-4).
- Confirmation tone is audible (optional).
- Announce.
- Group
- To access all groups simultaneously
- Dial 330 .
- Confirmation tone is audible (optional).
- Announce.
- To access a particular group of extensions
- Dial 33 + [extension group number](1-8).
- Confirmation tone is audible (optional).
- Announce.
- Paralleled Telephone Connection Setting / Cancelling
 - Press Features (F4) button.
 - Press NEXT (S3) button.
 - Press Parallel On/Off (F1) button.
 - Dial 1 or 0.
 - 1 : for setting
 - 0 : for cancelling
 - Confirmation tone is audible.

- Pulse to Tone Conversion
 - Dial phone number (Pulse mode).
 - Dial 🗶 + #.
 - Dial phone number (Tone mode).

🔳 Redial

- Automatic
- Off-hook with SP-PHONE button.
 - Press REDIAL button.
- Last Number
- Off-hook.
- Press REDIAL button.
- Saved Number

Assign a CO button as the SAVE button. See Station Programming (page 22).

Storing

- While having a conversation or when hearing busy tone;
- Press AUTO DIAL/STORE button.
- Press SAVE (CO) button.
- On-hook.
- Dialing
- Off-hook.

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• Press SAVE (CO) button.

Station Feature Clear

- Off-hook.
- Dial 790 .
- Confirmation tone is audible.
- On-hook,
- Trunk (CO Line) Answer from Any Station (TAFAS) Answer

Same operation as Paging-External Answer. (See page15).

- node). Busy/No Answer • Off-hook.
 - Press FWD/DND button.
 Press NEXT (S3) button.
 - Press FWD-BSY/NA (F1) button
 - + extension number .
 - On-hook.
 - to CO Line
 - Off-hook.
 - Press FWD/DND button.
 - Press NEXT (S3) button.
 - Press FWD-CO Line (F2) button
 - + line access code (9, 81-88)
 - + phone number + #.
 - On-hook.
 - Follow Me
 - Off-hook.
 - Press FWD/DND button.
 - Press NEXT (S3) button.
 - Press FWD-From (F3) button
 - + your extension number .
 - On-hook.

Cancelling

- At the original extension
- Off-hook.
- Press FWD/DND button.
- Press FWD/DND Cancel (F1) button.
- On-hook.
- At the destination extension
- (Follow Me)
- Off-hook.
- Press FWD/DND button.
- Press NEXT (S3) button.
- Press FWD-From Cancel (F4) button.
- Dial your extension number.
- On-hook.

- Operating Instructions (contd.)
- Press HOLD button.

- At the holding extension

- At the holding extension

slowly flashing.

- At another extension

While having a conversation;

• Press TRANSFER button.

- Confirmation tone is audible.

- Confirmation tone is audible.

• Dial 52 + purking zone number (0-9).

• Dial 52 + purking zone number (0-9).

- Confirmation tone is audible (optional).

- At another extension

• Off-hook.

flashing.

• On-hook.

• Off-hook.

Retrieving

• Talk.

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Call Park

Setting

(CO Call)

Press INTERCOM button.

• Dial 51 + holding [extension number]

• Press the green CO button that is-

• Press the red CO button that is slowly

Retrieving (Intercom Call)

Call Hold

Call Pickup

- CO Line
- Off-h∞k.
- Dial 4 × .
- Confirmation tone is audible (optional).
- Talk
- Directed
- Off-hook.
- Dial 41 + extension number .
- Confirmation tone is audible (optional).
- Talk.
- Group
- Off-hook.
- Press Features (F4) button.
- Press Group Pickup (F3) button.
- Talk,
- Call Transfer to Extension
 - Screened

While having a conversation;

- Press TRANSFER button.
- Dial extension number .
- · Wait for an answer and announce.
- On-hook,
- Unscreened

While having a conversation;

- Press TRANSFER button.
- Dial extension number].
- On-hook.

Call Waiting

Setting

- Off-hook.
 Dial 7311 .
- D_{141} (7311).
- Confirmation tone is audible.
- On-hook.

Cancelling

- Off-hook,
 Dial [7310].
- Confirmation tone is audible.
- On-hook.

To talk to the new caller, terminating the current call While hearing call waiting tone; • Press the flashing CO or INTERCOM button.

To talk to the new caller, holding the current call While hearing call waiting tone and the CO or INTERCOM indicator is flashing rapidly;

• Press HOLD button.

- Press the flashing CO or INTERCOM button. (If both the current call and new call are extension calls, you can skip this step.)
- Conference

While having a conversation;

- Press CONF button.
- Dial the third party's number
- Talk to the third party.
- Press CONF button.

Do Not Disturb (DND)

Setting

- Off-hook.
- Press FWD/DND button.
- Press Do Not Disturb (F2) button.
- Confirmation tone is audible.
- On-hook.

Cancelling

- Off-hook.
- Press FWD/DND button.
- Press FWD/DND Cancel (F1) button.
- Confirmation tone is audible.
- On-hook.

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- Do Not Disturb (DND) Override While hearing DND tone;
 - Pross Over (S2) button.

Operating Instructions (contd.)

Executive Busy Override

- CO Line
- Off-hook.
- Press the red CO button.
- Extension
- When a line is busy;
- Press Over (S2) button.
- External Feature Access While having a conversation;
 - Press EFA (S2) button.
 - Dial the code for the desired service.
- Full One-Touch Dialing

You need to change a CO button to function as an One-Touch or SAVE button beforehand. See Station Programming (page 22).

- Press a One-Touch (CO), REDIAL or SAVE (CO) button.
- Message Waiting Setting

When the called extension is busy or does not answer;

- Pross Features (F4) button.
- Press NEXT (S3) button.
- Press Message On (F2) button.
- Dial extension number].
- On-hook.
- Cancelling
- Press Features (F4) button.
- Press NEXT (S3) button.
 Press Message Off (F3) button.
- Press Message Off (F3) buttor
- Dial [extension number].
- On-hook.

Selecting a message from the messages waiting

- Press MESSAGE button repeatedly until the desired message sender appears on the display.
- Responding to a message
- Off-hook.
- Press MESSAGE button.

- Paging
 - All

• Dial 🛞 .

• Announce.

- External

• Dial 0.

• Announce.

• Announce.

Answer

- Group

• Dial 0.

extensions

• Announce.

• Announce.

Answer

15

• Press Features (F4) button.

To access all external pagers

• Press Features (F4) button.

To access a particular pager

• Press Features (F4) button.

• Press Features (F4) button.

• Press Features (F4) button.

To access a particular group of

• Press Features (F4) button.

• Press Features (F4) button.

• Press Group Paging (F2) button.

• Dial extension group number] (1-8).

• Press Answer GRP-Page (F5) button,

• Press External Paging (F1) button.

• Press External Paging (F1) button.

• Press Answer Ext-Page (F4) button.

• Dial external [pager number] (1-4).

To access all groups simultaneously

• Press Group Paging (F2) button.

• Dial desired pager number (1-4).

• Press External Paging (F1) button or Group Paging (F2).

Panasonic

Digital Proprietary Telephone For Digital Super Hybrid System

Model KX-T7220



The KX-T7220 is compatible with the KX-TD816/KX-TD1232, Panasonic Digital Super Hybrid Systems and can perform most of the functions of the systems.

Please read before using this telephone.

Panasonic Company, Division of Matsushita Electric Corporation of America One Panasonic Way, Secaucus, New Jersey 07094

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Please read IMPORTANT SAFETY INSTRUCTIONS on pages 24-25 before use. Read and understand all instructions.

Introduction

This KX-T7220 Digital Proprietary Telephone is designed for use with the Digital Super Hybrid System.

The telephone has the following convenient features:

- Speakerphone

With a speakerphone, you can establish handsfree conversation.

- Twenty-four Flexible CO Buttons

These buttons are totally flexible allowing you to re-assign them as another buttons, such as One-Touch Dialing or SAVE.

- Electronic Volume Control

The electronic volume control provides a desirable level of the speaker and the handset/headset volume.



When you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-paid letter, detailing the symptom, to the outside of the carton. DO NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.

Product service

Panasonic Servicentors for this product are listed in the servicenter directory. Consult your authorized Panasonic dealer for detailed instructions.

SERIAL NO. _____ DATE OF PURCHASE _____

NAME OF DEALER

DEALER'S ADDRESS

NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

CAUTION:

To assure continued compliance with FCC rules, do not make any unauthorized modifications.

When programming emergency numbers and/or making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
- 2) Perform such activities in the offpeak hours, such as early morning hours or late evenings.

ula y Star

- If there is any trouble, disconnect the unit from the extension line and connect a known working phone. If the known working phone operates properly, have it repaired by one of the specified Panasonic Factory Service Centers. If the known working phone does not operate properly, check the Electronic Modular Switching System and the internal extension wiring.
- Keep the unit away from heating appliances and electrical noise generating devices such as fluorescent lamps and motors.
- The unit should be kept free of dust, moisture and vibration, and should not be exposed to direct sunlight.
- Do not use benzine, thinner, or the like, or any abrasive powder to clean the cabinet. Wipe it with a soft cloth.
- Do not use any handset other than Panasonic handset.

This telephone provides magnetic coupling to hearing aids.

- 46 - 2017年1月 - 1995年1日 - 1995年1日 - 1960年月日2月 日本19月1日 - 1960年月日2月 日本19月1日

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Location of Controls **MESSAGE** Button Flexible CO Buttons FWD/DND Button-Used to call back the (CO 01 through CO 24) Used to program Call Can be assigned as any message sender. Forwarding or set Do Not CO or can be used to Disturb. access one of several **PROGRAM Button** features. CONF (Conference)-Used to enter/exit Button Programming mode. Used to establish a three-party conversation. **INTERCOM** Button-Used to make or receive extension calls. A A A **Ringer** Volume Selector Used to adjust the ringer volume. TRANSFER Button Transfers a call to **REDIAL** Button another extension or Used for Last Number or Automatic to an external destination. Redialing. **VOLUME** Button FLASH Button-Used to adjust the Sends an External speaker and handset/ Feature Access signal headset volume. to the central office or to a host PBX to AUTO DIAL/STORE access their features. Button SP-PHONE Button If a PBX is not being Used for System Used for handsfree used this button can Speed Dialing and for be used to disconnect operation. storing program the current call and changes. start another call Micróphone without hanging up. AUTO ANSWER/ Used to speak **MUTE Button** for handsfree HOLD Button -Used for extension Used to place a call on conversation. auto answer and hold. microphone mute during a conversation.

Important Safety Instructions (contd.)

- Do not allow anything to rest on the telephone cord. Do not locate this product where the cord will be abused by persons walking on it.
- Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
- 9: Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- 10. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
- 11. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.

- D. If the product does not operate normally by following the operating instructions. Adjust only those controls, that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- E. If the product has been dropped or the cabinet has been damaged.
- F. If the product exhibits a distinct change in performance.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 13. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

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- Replacement parts and accessories are available through your local authorized parts distributor.
- For ordering the accessory, call toll free: 1-800-332-5368

Part No.	Picture	Description	Comment
KX-J07W/B KX-J15W/B KX-J25W/B		Handset cord	7 feet 15 feet 25 feet
W: White B: Black	L	LI	. · · · · · · · · · · · · · · · · · · ·

Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on the product.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

- 5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.



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Volume Control

You can adjust the volume by pressing the VOLUME button.

- -Speaker Volume Control
- While having a handsfree conversation with a speakerphone,
- 1 Press the \land (UP) or \lor (DOWN) button.

-Handset/Headset Volume Control While having a conversation with a handset or a headset,

1 Press the \wedge (UP) or \vee (DOWN) button.

-Ringer Volume Selector

Slide lever (HIGH/LOW/OFF).
 HIGH/LOW : Sets the desired ringer volume.
 OFF : The telephone will not ring.



Ringer Volume Selector

Handset/Headset Selection

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- 1 Press the PROGRAM button.
- 2 Dial 999.
- 3 Dial 1 or 2.
 - -1 : Handset
 - -2 : Headset (optional)
- 4 Press the STORE button.
- 5 Press the PROGRAM button.



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*1 Feature Descriptions

*2 Operating Instructions

Wall Mounting

To mount your KX-T7220 model telephone onto a wall consider the following instructions:

5

- Remove the handset hook by pulling it toward the top of the unit. Turn it around and re-insert,
- Place the stand on the center line.





Attach the unit to the wall.

Remove the attached stand.



3 Turn it around 180 degrees.



To temporarily place the handset down during a conversation, hook it over the top edge of the phone as shown.

. OF



Feature Descriptions

■ Absent Message Capability There are nine flexible absent messages available. If you select a message it will be shown on the display of the calling party's telephone.

Account Code Entry

With the Account Code Entry feature, you can identify incoming and outgoing CO calls for accounting and billing purposes.

■ Automatic Callback Busy (Camp-On)

When the selected CO line or extension you have dialed is busy, dial the campon code and hang up. Your telephone will ring when the called party is idle. When you answer, their phone rings,

Background Music (BGM)

Background music, from an external source, is heard through the built-in speaker of the telephone.

■ Busy Station Signaling (BSS)

With the Busy Station Signaling feature, the busy extension that you called hears three beeps and knows that you are waiting.

■ Call Forwarding (FWD)

Automatically transfers incoming calls to another extension or to an external destination. The following types are available:

- All Calls
- All incoming calls are forwarded to another extension.
- Busy All incoming calls are forwarded to another extension when your extension is busy.

- No Answer

- All incoming calls are forwarded to another extension if you don't answer the call.
- Busy/No Answer
- All incoming calls will be forwarded to another extension if you don't answer or your extension is busy.
- to CO Line*

All incoming calls are forwarded to a CO Linc.

- Follow Me Allows you to remotely set Call Forwarding-All Calls from another extension.

Call Hold

Allows you to hold an extension or a CO call.

Call Park

Allows you to "park a call" so that any extension can retrieve it.

Call Pickup

Allows you to answer a call ringing at another extension.

- CO Line

Allows you to answer an incoming CO call that is ringing at another's telephone.

- Directed Allows you to answer an incoming call ringing at any other extension.
- Group

Allows you to answer a call that is ringing at another telephone within your extension group.

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Feature Descriptions (contd.)

- Call Transfer to Extension Transfers incoming CO or extension calls to another extension (screened or unscreened).
- Call Waiting

Informs you with three beeps that there is a call waiting.

Conference

Allows you to make a three-party conference.

- Do Not Disturb (DND) The extension will not receive extension or CO calls.
- Do Not Disturb (DND) Override* Allows you to call an extension even though Do Not Disturb is set.
- Electronic Station Lockout Allows you to lock your extension so that other users cannot make outgoing CO calls from your extension.
- Executive Busy Override*
 - CO Line

Allows you to enter into an existing CO call or to add a third party to your existing conversation.

- Extension

Allows you to enter into an existing extension conversation.

Full One-Touch Dialing

This feature automatically activates the handsfree speakerphone and dials a phone number or accesses a system feature at the touch of a button.

- Handsfree Answerback Allows you to answer an intercom call without lifting the handset.
- Intercom Calling Allows you to make a call to another extension.
- Line Access, Automatic Allows you to select an available CO line automatically.

Line Access, CO Line Group

- Allows each extension to select an idle CO line within the designated CO Line Group.
- Line Access, Individual Allows you to select the desired CO line without dialing the line access code.
- Message Waiting

Allows you to leave a message for another extension. The message waiting lamp gives a visual indication that a message has been received.

Microphone Mute Allows you to turn off the microphone so that you can consult privately with other in the room.

Installing the Card Holder

Line up the arrow (▶) marks on the card holder with the arrow marks on the slide rails of the unit.



2 Push the two shaded portions and insert the edges of the eard holder under the slide rails ; slide down toward "A",



Removing the card holder: Push the card holder in the direction of arrow "B" while keeping the tip of the holder pulling in the direction of arrow "C".



Feature Numbers (contd.)

< Fixed Feature Numbers >

-While hearing busy tone

Feature	Dial	
Automatic Callback Busy (Camp-On)	6	
Busy Station Signaling (BSS)	1	
Executive Busy Override	5	

•While on-hook (idle)

Feature	Dial 78
Background Music (BGM)	1

-While calling

Feature	Dial
Pulse to Tone Conversion	× H

-While hearing DND tone

Feature	Dial
Do Not Disturb (DND) Override	1

< For Operator Operation >

	DI	al	Additional Required Digits		
Feature	Default	Your #	KX-TD816	KX-TD1232	
Background Music (BGM) External on/off	35	te e la	n daege of states a	$\gamma_{1} \in \mathbb{N}$	
Night Service set/cancel	78		1/0	1/0	

Paging

Provides an announcement (page), through the built-in speaker of the telephone or by the external speakers.

- All Page through
- Page through both built-in speakers and external pagers.
- External
- Page through all the external pagers simultaneously.
- Paging to a specific external pager.
- Group
- Page to all groups (all extensions) simultaneously.
- Page to a particular group of extensions using the built-in speakers.
- Answer
 A page sent to the built-in speakers or the external pagers can be answered by any extension in the system.
- Paging and Transfer Allows you to transfer a call to the paged person.
- Paralleled Telephone Connection Allows you to connect this unit in parallel with a Single Line Telephone (SLT). This unit can be connected with a SLT by inserting another telephone line cord to a jack. (For connection, see page 5.) When a parallel connection is made, either telephone can be used.
- Pulse to Tone Conversion Allows you to change from Pulse to Tone mode so that you can access special services such as computeraccessed long distance.

Redial

- Automatic
- Without lifting the handset, redialing can be activated automatically and repeated until the called party answers. The number and time between retries is programmable.
- Last Number Automatically saves the last CO call number you dialed and allows you to make the same outgoing call again.
- Saved Number
 The desired CO call number can be stored and then redialed.

Station Feature Clear Allows you to reset all station features you programmed to the default settings.

- Station Speed Dialing Each extension can store up to 10 speed dial numbers which are only available to that extension user.
- System Speed Dialing*

The system supports 100 speed dial numbers which are available to all extension users.

Trunk (CO Line) Answer from Any Station (TAFAS)

Ringing through the external paging system indicates an incoming CO call. TAFAS allows this call to be answered from any extension.

- Voice Mail Integration When you are busy or absent, your calls can be forwarded to a mail box of the Voice Processing System.
 - * These features must first be enabled through System Programming. See the Installation Manual of the Digital Super Hybrid System.

.9.

Station Programming

Station Programming allows you to assign the following features or buttons from your telephone individually if necessary.

Before entering Programming, you need to enter Programming mode.
When the telephone is idle and on-hook;
Press : PROGRAM 99.

 To exit Programming mode.
 Press : PROGRAM, or

· Lift the handset.

Call Waiting Tone Type Assignment

• Dial 5.

- Dial 1 or 2.
- -1: Call Waiting Tone 1
- -2: Call Waiting Tone 2
- Press STORE button.
- Flexible Button Assignment
 - Account Button
 - Press the desired CO button.

• Dial 6. • Press STORE button.

Tress[STORE] button.

- One-Touch Dialing Button

- Press the desired CO button.
- Dial 2 + the desired number (phone numbers or feature numbers, etc.).
- Press STORE button.
- SAVE Button
- Press the desired CO button.
- Dial 5.
- Press STORE button.

	Full One-Touch Dialing Assignment
	• Dial 3
	Dial De 2
	$1 \cdot Off$
	-1; On
	-Z. OII
	• Press STORE Button.
*	Preferred Line Assignment-
	Incoming
	• Dial 2.
	• Dial line number (1, 2, or 3 + CO
	number).
	-1: Ior No Line Preference
	-2: for Kinging Line Preference
	-3 + CO number : Tor Prime Line
	If your telephone is connected to the
	A-1D010,
	-3 + CO Humber ; 101 Prime LineProforance (CO + 01.09)
	• Press STORE button.
	Preferred Line Assignment-
	Outgoing
	• Dial 1.
	• Dial line number (1, 2, or 3 + CO
	number) or press INTERCOM button.
	-1 : for No Line Preference
	-2 : for Idle Line Preference
	-3 + CO number: for Prime Line
	Preference (CO : 01-24)
	- INTERCOM : for Prime Line
	(INTERCOM) Preference
	If your telephone is connected to the
	Λ -1D010, $3 \pm CO$ number : for Prime Line
	$\frac{-5 + CO \text{ introdet}}{\text{Preference}(CO + 01_0 \text{R})}$
	• Press STORE button.

Feature Numbers

This Manual uses the initial factory settings (default value) for feature descriptions. If you change the feature number, use the new one you programmed instead. Additional Required Digits are different depending on model of the Digital Super Hybrid System, KX-TD816 or KX-TD1232 your telephone is connected to.

< Flexible Feature Numbers >

Feature	Dlal		Additional Required Digits	
	Default	Your #	KX-TD816	KX-TD1232
Absent Message Capability set/cancel	750		1.9/0	1-9/0
Account Code Entry	49		Acct. code + #	Acet. code + #
Call Forwarding set/cancel	71()		2-6/0	2.6/0
Call Forwarding - Follow Mc set/cancel	710		7/8	7/8
Call Park/Call Park retrieve	52		().9	()-9
Call Pickup, CO Line	- X E			M Manual V
Call Pickup, Directed	-41		ENTN.	ENTN.
Call Pickup, Group	4()		-	
Call Pickup Deny set/cancel	720		170	1:0
Call Waiting set/cancel	7.31		170	1.0
Data Line Security set/cancel	730		1,70	170
Do Not Disturb set/cancel	710		170	170
Doorphone Call calling/door open	31/55		1 or 2	11
Electronic Station Lockout lock	77		000-999 twice	091-999 twice
Electronic Station Lockout unlock	7.7		000.999	000-999
Executive Busy Override Deny set/cancel	733		1/0	1/0
Line Access, Automatic/ARS	9			
Line Access, CO Line Group	8		1.8	1-8
Message Waiting set/cancel/call back	20		1.0.2	102
Operator Call	.0		() or 1	() or 1
Paging-All	32 or 33		í.	ý († 1916)
Paging-External	32		0/1	0/1-4
Paging External Answer/TAFAS Answer	42		}	1.4
Paging-Group	33		0/1-8	0/1-8
Paging-Group Answer	43			
Paralleled Telephone Connection set/cancel	30		170	1/0
Station Feature Clear	79()			
Station Speed Dialing	3 X		().9	().9



Operator Operation

< Feature Descriptions and Operating Instructions >

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-«NOTE»-

Only the Operator 1 can perform the following operations.

Background Music (BGM)-

External

Allows the system to play BGM through the external pagers.

- Turning on/off
- Off-hook.
- Dial 35 .
- On-hook.
- Night Service

Supports both NIGHT and DAY modes of operation.

- Setting
- Off-h∞k.
- Dial 781 or 780 .
- -781: to Night mode
- -780 : to Day mode
- On-hook.

- Remote Station Lock Control Allows to control Electronic Station Lockout on any extension.
 - Press PROGRAM button.
 - Dial 99.
 - Dial 0.
 - Dial extension number or *.

- extension number : to lock or unlock one extension

- X: to lock or unlock all extensions
- Dial 1 or 2.
- -1: to unlock
- -2: to lock
- Press STORE button.
- Press PROGRAM button.

Operating Instructions

<NOTE> -----

Off-hook : Lift the handset or press the SP-PHONE button. On-hook : Replace the handset or press the SP-PHONE button.

Helpful hints for Handsfree operation:

• If it is difficult to hear the other party's voice;

Raise the sound level using the Speaker Volume Control.

- If the other party has difficulty hearing you; Lower the sound level.
- Absorbing echoes; Use this unit in a room which has curtains and/or carpeting.
- To avoid missing part of the conversations;

If you and the other party speak at the same time, parts of your conversation will be lost. To avoid this, speak alternately.

- Basic Operation -
- Making Calls
 - -- Intercom Calling
 - Off-hook.
 - + Dial extension number
 - Outward Dialing
 - Off-hook.
 - Dial 9 or 81 88 , or press a CO button.
 - 9 : Line Access, Automatic
 - 81-88 : Line Access, CO Line
 - Group - CO : Line Access. Individual
 - Dial phone number].
- Receiving Calls
 - Olf-hook, or
 - Press a flashing CO or INTERCOM button directly.

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Operating Instructions

Advanced Operation ——

- Absent Message Capability
 - Setting Message 1. "Will Return Soon"
 - Message 1. "Will Keturn Soon"
 - Off-hook. • Dial [7501] .
 - On-hook.
 - On-nook.
 - Message 2. "Gone Home"
 - Off-hook.
 - Dial 7502 ,
 - On-hook.
 - Message 3. "At EXT (number)"
 - Off-hook.
 - Dial 7503 + extension number
 - On-hook.
 - Message 4. "Back at (time)"
 - Off-hook.
 - Dial [7504].
 - Enter hour (00-23).
 - Enter minute (00-59).
 - On-hook.
 - Message 5. "Out Until (date)"
 - Off-hook.
 - Dial 7505 .
 - Enter month (01-12).
 - Enter day (01-31).
 - · On-hox.k.
 - Message 6. "In a Meeting"
 - Off-hook.
 - Dial [7506] .
 - On-hook.
 - Message,7, 8 or 9. (Unassigned)
 - Off-hook.
 - Dial 7507 through 7509 .
 - -7507 : for Message 7
 - -7508 : for Message 8
 - -7509 : for Message 9
 - Enter parameters (if required).
 - On-hook.
 - Cancelling
 - Off-hook.
 - Dial 7500
 - On-hook.

- Account Code Entry Assign a CO button as the Account button beforehand. See Station Programming (page 10).
 - When hearing dial tone or during a conversation with an outside party;
 - Press Account (CO) button.
 - Enter account code + #.
- Automatic Callback Busy (Camp-On)

While hearing busy tone;

- Dial 6.
- Confirmation tone is audible.
- On-hook.
- Background Music (BGM)
- Setting/Cancelling
- While on-hook;
- Dial 1.

■ Busy Station Signaling (BSS)

- If a busy tone is heard;
- Dial 1.
- Wait for an answer.

- Pulse to Tone Conversion
 - Dial phone number (Pulse mode).
 - Dial $\boxed{\times} + \boxed{\#}$.
 - Dial phone number (Tone mode).

🔳 Redial

e,

- Automatic

- Off-hook with SP-PHONE button.
- Press REDIAL button.
- Last Number
- Off-hook.
- Press **REDIAL** button.
- Saved Number

Assign a CO button as the SAVE button beforehand. See Station Programming (page 10).

Storing

While having a conversation or when hearing busy tone;

- Press AUTO DIAL/STORE button.
- Press SAVE (CO) button.
- On-hook.

Dialing

- Off-hook.
- Press SAVE (CO) button.

Station Feature Clear

- Off-hook.
- Dial 790.
- Confirmation tone is audible.
- On-hook.
- Station Speed Dialing
 - Storing phone numbers
 - Off-hook.
 - Dial 30 + station speed dial number
 - (0-9) + <u>line access code</u> (9, 81-88) +
 - phone number + #
 - Confirmation tone is audible.
 - On-hook.

- Dialing

Operating Instructions (contd.)

- Off-hook.
- Dial 3 X + station speed dial number (0-9),

Press AUTO DIAL/STORE button.

Trunk (CO Line) Answer from Any

Same operation as Paging-External

- Setting Call Forwarding to Voice

• Dial System Speed Dial number (00-99).

System Speed Dialing
 Off-hook.

Station (TAFAS)

Answer, (See page 16).

Voice Mail Integration

Processing System

• Press FWD/DND button.

-2: FWD-All Calls

Processing System.

-4: FWD-No Answer

-5: FWD-Busy/No Answer

- Confirmation tone is audible.

- Playing back a recorded message

• Press MESSAGE (CO) button.

• Dial extension number of the Voice

-3: FWD-Busy

• Off-hook.

• On-hook.

· Off-hook.

. -

• Dial 2 - 5

- Answer



Microphone Mute

- Setting

While having a conversation in handsfree mode:

- Press MUTE button.
- The MUTE indicator light flashes red.
- Cancelling

When microphone mute is established:

- Press MUTE button.
- The MUTE indicator light turns off.

Paging

- -AII
- Off-hook.
- Dial [32] (or [33]) + [x].
- Confirmation tone is audible (optional).
- Announce.
- External
- To access all external pagers
- · Off-hook.
- Dial [320]. - Confirmation tone is audible (optional).
- Announce.
- To access a particular pager
- Off-hook.
- Dial 32 + [external pager number](1-4).
- If your telephone is connected to the
- KX-TD816.
- Dial 32] + [external pager number](1). Paralleled Telephone Connection
- Confirmation tone is audible (optional).
- · Announce.
- Group
- To access all groups simultaneously
- · Off-hook.
- Press [330].
- Confirmation tone is audible (optional).
- Announce.

- To access a particular group of extensions • Off-hook. • Dial 33 + extension group number (1-8). - Confirmation tone is audible (optional). · Announce. - Answer • Off-hook. • Dial 42 + external pager number (1-4). or [43]. If your telephone is connected to the KX-TD816. • Dial 42 + external pager number (1), or [43] -42 + external pager number : To answer a page sent from the external pager/TAFAS. -43: To answer a page sent from the built-in speaker. - Confirmation tone is audible (optional). • Talk: Paging and Transfer - To transfer Press TRANSFER button before dialing the paging feature number (32 or 33). - Setting/Cancelling • Off-hook, • Dial 39. • Dial 1 or 0. - 1 : for setting - 0 : for cancelling
 - Confirmation tone is audible.

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Operating Instructions (contd.)

■ Call Forwarding (FWD)

- Setting
- All Calls • Off-hook.
- Press FWD/DND button.
- Dial 2 + extension number
- On-hook.
- Busy
- Off-hook.
- Press FWD/DND button.
- Dial 3 + extension number
- On-hook.
- No Answer
- Off-hook.
- Press FWD/DND button.
- Dial 4 + extension number
- On-hook.
- Busy/No Answer
- Off-hook.
- Press FWD/DND button. • Dial 5 + extension number
- On-hook.
- to CO Line • Off-hook.
- Press FWD/DND button.
- Dial 6 + line access code (9, 81-88)
- + phone number + # .
- · On-hook.
- Follow Me
- Off-hook,
- Press FWD/DND button,
- Dial 7 + your extension number
- On-hook.
- Cancelling
- At the original extension
- Off-hook.
- Press FWD/DND button.
- Dial 0.
- On-hook.

-13-

• Dial 8 + your extension number • On-hook.

- At the destination extension

Press FWD/DND button.

- Call Hold
 - While having a conversation:
 - Press HOLD button,
- · . · Retrieving

(Follow Me)

Off-hook.

- (Intercom Call)
- At the holding extension
- Press INTERCOM button.
- At another extension
- Off-hook.
- Dial 51 + holding extension number
- (CO Call)
- At the holding extension
- Press the green CO button that is slowly flashing.
- At another extension
- Press the red CO button that is slowly flashing.

🛛 Call Park

- Setting

While having a conversation;

- Press TRANSFER button.
- Confirmation tone is audible.
- Dial 52 + parking zone number (0-9).
- Confirmation tone is audible.
- On-hook

- Retrieving

- Off-hook.
- Dial 52 + parking zone number (0.9).
- Confirmation tone is audible (optional).
- Talk.

Call Pickup

- CO Line
 - Off-hook.
 - Dial 4 🗶 .
 - Confirmation tone is audible (optional).
 - Talk.
- Directed
- Off-hook.
- Dial 41 + extension number
- Confirmation tone is audible (optional).
 Talk.
- Group
- Off-hook.
- Dial [40]
- Confirmation tone is audible (optional).
- Talk.

Call Transfer to Extension

- Screened While having a conversation;
- Press TRANSFER button.
- Dial extension number
- Wait for an answer and announce.
- On-hook.
- Unscreened
- While having a conversation;
- Press TRANSFER button.
- Dial extension number
- On-hook.
- Call Waiting
 - Setting/Cancelling
 - Off-hook.
 - Dial 731.
 - Dial 1 or 0.
 - 1 : for setting
 - 0 : for cancelling
 - Confirmation tone is audible.
 - On-hook.
 - To talk to the new caller, terminating the current call

While hearing call waiting tone;

- Press the flashing CO or INTERCOM button.
- To talk to the new caller, holding the current call

While hearing call waiting tone and the CO or INTERCOM indicator is flashing rapidly;

• Press HOLD button.

- Press the flashing CO or
- **INTERCOM** button. (If both the current call and new call are extension calls, you can skip this step.)

Operating Instructions (contd.)

Conference

•

- While having a conversation;
 - Press CONF button.
- Dial the third party's number
- Talk to the third party.
- Press CONF button.

Do Not Disturb (DND) - Setting/Cancelling

- Off-hook.
- Press FWD/DND button.
- Dial 1 or 0.
 - -1: for setting
 - 0 : for cancelling
- Confirmation tone is audible.
- On-hook.

Do Not Disturb (DND) Override While hearing DND tone:

• Dial 1.

Electronic Station Lockout

- Locking
 - Off-hook.
 - Dial [77].
 - Dial lock code (000-999).
 - Dial the same lock code again.
 - Confirmation tone is audible.
- On-hook.
- Unlocking
- Off-hook.
- Dial 7 .
- Dial the same lock code as you used to lock the extension.
- Confirmation tone is audible.
- On-hook.

Executive Busy Override

- CO Line
- Off-hook.
- Press the red CO button.
- Extension

When a line is busy;

- Dial 2.
- Full One-Touch Dialing
 - Change a CO button to function as an One-Touch or SAVE button beforehand.
 - See Station Programming (page 10). • Press [One-Touch] (CO),
 - REDIAL or SAVE (CO) button.

• Press AUTO ANSWER button.

• Dial 701 + [extension number].

Press MESSAGE button.

- Confirmation tone is audible.

• Dial [700] + extension number 1.

Press MESSAGE button or dial

- Confirmation tone is audible.

- Responding to a message

- Confirmation tone is audible (optional).

If the called extension is busy or does not

Handsfree Answerback
 Setting/Cancelling

Message Waiting

· Off-hook.

· On-hook.

· On-hook.

- Cancelling

· Off-hook.

· On-hook.

· Off-hook.

702

answer:

- Setting

Call Forwarding (FWD) (contd.)

- Busy/No Answer
- Off-hook.
- Press FWD/DND (CO) button.
- Dial 5 + extension number .
- On-hook.
- to CO Line
- Off-hook.
- Press FWD/DND (CO) button.
- Dial 6 + line access code (9 or 81-88) + phone number + (#).
- · On-hook.
- Follow Me
- Off-hook.
- Press FWD/DND (CO) button.
- Dial 7 + your extension number
- · On-hook.

Cancelling

- At the original extension
- Off-hook.
- Press FWD/DND (CO) button.
- · Dial [0].
- On-hook.
- At the destination extension
- (Follow Me)
- Off-hook.
- Press FWD/DND (CO) button.
- Dial 8 + your extension number
- On-hook.
- Call Hold
 - While having a conversation;
 - Press HOLD button.

Retrieving

- (Intercom Call)
- At the holding extension
- Press INTERCOM button.
- At another extension
- Off-hook.
- Dial 51 + holding extension number

- (CO Call)
- At the holding extension
- Press the green CO button that is slowly flashing.
- At another extension
- Press the red CO button that is slowly flashing.
- Call Park

Setting

- While having a conversation;
- Press TRANSFER button.
- Confirmation tone is audible.
- Dial 52 + parking zone number (0-9).
- Confirmation tone is audible.
- On-hook
- Retrieving
- Off-hook.
- Dial 52 + parking zone number (0-9).
- Confirmation tone is audible (optional). · Talk.

Call Pickup

- CO Line
- · Off-hook.
- · Dial 4 × .
- Confirmation tone is audible (optional).
- · Talk.
- Directed
 - Off-hook.
 - Dial 41 + extension number
- Confirmation tone is audible (optional).
- · Talk.
- Group
- Off-hook.
- Dial [40].
- Confirmation tone is audible (optional).
- · Talk.

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Operating Instructions (contd.)

Conference

(page 5).

• Off-hook.

· On-hook.

• Dial 1.

- CO Line

• Off-hook.

- Extension

· Dial 2.

(page 5).

button.

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When a line is busy;

■ Full One-Touch Dialing

an One-Touch or SAVE button

Change a CO or PF button to function as

beforehand. See Station Programming

• Press One-Touch (CO or PF).

REDIAL or SAVE (CO or PF)

While having a conversation;

· Dial the third party's number

For KX-T7050 and KX-T7055, assign a

beforehand, See Station Programming

CO button as the FWD/DND button

• Press FWD/DND (CO) button.

- Confirmation tone is audible.

Do Not Disturb (DND) Override

• Press CONF button.

· Talk to the third party.

• Press CONF button.

Do Not Disturb (DND)

Setting / Cancelling

• Dial 1 or 0.

-1: for setting

- 0 : for cancelling

While hearing DND tone:

Executive Busy Override

• Press the red CO button.

- Call Transfer to Extension
- Screened
- While having a conversation;
- Press TRANSFER button.
- Dial extension number .
- · Wait for an answer and announce.
- On-hook.

- Unscreened

- While having a conversation;
- Press TRANSFER button.
- Dial extension number
- On-hook.

Call Waiting

- Setting / Cancelling
- Off-hook.
- Dial 731
- Dial 1 or 0.
- -1: for setting
- 0 : for cancelling
- Confirmation tone is audible.
- On-hook.

To talk to the new caller, terminating the current call While hearing call waiting tone;

- Press the flashing CO or INTERCOM button.

To talk to the new caller, holding the current call

While hearing call waiting tone and the CO or INTERCOM indicator is flashing rapidly:

INTERCOM button. (If both the

calls, you can skip this step.)

current call and new call are extension

• Press HOLD button. • Press the flashing CO or

■ Message Waiting

For KX-T7055, assign a CO button as the MESSAGE button beforehand. See Station Programming (page 5). Setting

- · Off-hook.
- Dial [701] + [extension number].
- Confirmation tone is audible (optional).
- · On-hook.

If the called extension is busy or does not answer:

- Press MESSAGE (CO) button.
- Confirmation tone is audible.

· On-hook.

- Cancelling
- · Off-hook.
- Dial 700 + extension number
- · Confirmation tone is audible.
- On-hook.
- Checking and Selecting a message from the messages waiting
- Press MESSAGE (CO) button repeatedly until the desired message sender appears.
- Responding to a message
- · Off-hook.
- Press MESSAGE (CO) button or dial 702].
- Paging
 - All • Off-hook.
 - Dial 32 (or 33) + 🛞
 - Confirmation tone is audible (optional).
 - · Announce.
 - External
 - To access all external pagers
 - Off-hook. • Dial [320].
 - Confirmation tone is audible (optional).
 - Announce.

- To access a particular pager
- · Off-hook.
- Dial 32 + [external pager number] (1-4),
- Confirmation tone is audible (optional). · Announce.
- Group
- To access all groups simultaneously
- Off-hook.
- Press [330].
- Confirmation tone is audible (optional). · Announce.
- To access a particular group of extensions
- · Off-hook.
- Dial 33 + extension group number (1-8).
- Confirmation tone is audible (optional).
- Announce.
- Answer
- Off-hook.
- Dial 42 + external pager number (1-4), or [43].
- -42 + external pager number (1-4): To answer a page sent from the external pager/TAFAS.
- -43: To answer a page sent from the built-in speaker.
- Confirmation tone is audible (optional). • Talk.
- Paging and Transfer
- To transfer
 - Press TRANSFER button before
 - dialing the paging feature number (32 or 33) + additional number.
- Pulse to Tone Conversion
 - Dial phone number (Pulse mode).
 - Dial ×+#

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• Dial phone number (Tone mode).

- **Operating Instructions** (contd.)
- Standard Operation
- Absent Message Capability
 - Setting Message 1. "Will Return Soon"
 - Off-hook.
 - Dial 7501 .
 - On-hook.
 - Message 2. "Gone Home"
 - Off-hook.
 - Dial 7502 .
 - On-hook.

Message 3, "At EXT (number)"

- Off-hook
- Dial [7503] + [extension number] • On-hook.
- Message 4. "Back at (time)"
- Off-hook.
- Dial 7504].
- Enter hour (00-23).
- Enter minute (00-59).
- · On-hook.
- Message 5. "Out Until (date)"
- Off-hook.
- Dial 7505].
- Enter month (01-12),
- Enter day (01-31).
- On-hook.

Message 6. "In a Meeting"

- Off-hook.
- Dial 7506 .
- · On-hook.
- Message 7, 8 or 9. (Unassigned)
- Off-hook.
- Dial 7507 through 7509.
- -7507 : for Message 7
- -7508 : for Message 8
- -7509 ; for Message 9
- Enter parameters (if required). • On-hook.

- Cancelling
- · Off-hook.
- · Dial 7500 • On-hook.

(Camp-On)

· Dial 6.

· On-hook

Setting/Cancelling

If a busy tone is heard;

• Wait for an answer,

■ Call Forwarding (FWD)

While on-hook:

•Dial 1.

· Dial 1.

(page 5).

- All Calls

• Off-hook.

• On-hook.

• Off-hook.

• On-hook.

- No Answer

• Off-hook.

• On-hook.

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- Busy

Setting

Automatic Callback Busy

While hearing busy tone;

- Confirmation tone is audible.

Background Music (BGM)

Busy Station Signaling (BSS)

For KX-T7050 and KX-T7055, assign a

CO button as the FWD/DND button

• Press FWD/DND (CO) button.

• Press FWD/DND (CO) button.

• Press FWD/DND (CO) button.

• Dial 4 + extension number.

• Dial 3 + extension number.

• Dial 2 + extension number

beforehand. See Station Programming

Station Programming (contd.)

 Full One-Touch Dialing Assignment Dial 3. Dial 1 or 2. -1: Off -2: On Press STORE button. Preferred Line Assignment- Incoming Dial 2. Dial line number (1, 2, or 3 + CO number). -1: for No Line Preference -2: for Ringing Line Preference -3 + CO number : for Prime Line Preference (CO: 01-24) Press STORE button. 	 Preferred Line Assignment- Outgoing Dial 1 Dial line number (1,2, or 3 + CO number) or press INTERCOM -1: for No Line Preference -2: for Idle Line Preference -3 + CO number: for Prime Line Preference (CO: 01-24) INTERCOM: for Prime Line Preference (INTERCOM) Press STORE button.
 <note></note> Off-hook: Lift the handset or press the SP-PHONE (or MONITOR) button. On-hook: Replace the handset or press the SP-PHONE (or MONITOR) button. Helpful hints for Handsfree operation: If it is difficult to hear the other party's voice; Raise the sound level using the Speaker Volume Control. If the other party has difficulty hearing you; Lower the sound level. Absorbing echoes; Use this unit in a room which has curtains and/or carpeting. To avoid missing part of the conversa- tions; If you and the other party speak at the same time, parts of your conversation will be lost. To avoid this, speak alternated 	 Basic Operation — Making Calls Intercom Calling Off-hook. Dial extension number. Outward Dialing Off-hook. Dial 9 or [81] - [88], or press a CO button. 9 : Line Access, Automatic 81-88 : Line Access, CO Line Group (Trunk Group) CO : Line Access, Individual Dial phone number]. Receiving Calls Off-hook. Or Press a flashing CO or INTERCOM button directly.

-6-

Operating Instructions (contd.)

📓 Redial

- -Automatic • Off-hook with SP-PHONE (or MONITOR) button. • Press REDIAL button.
- Last Number
- Off-hook.
- Press REDIAL button.
- Saved Number
- For KX-T7020/KX-T7030/KX-T7050/ KX-T7055, assign a CO or PF button as 🛛 Voice Mail Integration the SAVE button beforehand. See Station Programming (page 5).

Storing

While having a conversation or when hearing busy lone;

- Press AUTO DIAL/STORE button.
- Press SAVE (CO or PF) button.
- On-hook.
- Dialing
- · Off-hook.
- Press SAVE (CO or PF) button.

Station Feature Clear

- Off-hook.
- Dial 790].
- -Confirmation tone is audible.
- On-hook.
- Station Speed Dialing
- Storing phone numbers
 - Off-hook.
 - Dial 30 + station speed dial number (0-9) + phone number + #
 - -Confirmation tone is audible.
- On-hook.
- Dialing
- Off-hook.
- Dial 3 * + station speed dial number (0-9).

System Speed Dialing

• Off-hook.

- + Press AUTO DIAL/STORE button.
- Dial System Speed Dlal number (00-99).
- Trunk (CO Line) Answer from Any Station (TAFAS) Answer

Same operation as Paging-External Answer. (See page 10).

- Setting Call Forwarding to Voice Processing System For KX-T7050 and KX-T7055, assign a CO button as the FWD/DND button beforehand. See Station Programming
- (page 5).
- Off-hook.
- Press FWD/DND (CO) button.
- Dial 2 5.
- -2: FWD-All Calls
- -3: FWD-Busy
- -4: FWD-No Answer
- -5: FWD-Busy/No Answer
- Dial extension number of the Voice Processing System.
- -Confirmation tone is audible.
- · On-hook.

Plaving back a recorded message For KX-T7055, assign a CO button as the MESSAGE button beforehand. See Station Programming (page 5).

- Off-hook.
- Press MESSAGE (CO) button.

-11-



Operator Operation

<Feature Descriptions and Operating Instructions>

Background Music (BGM)-External

Allows the system to play BGM through the external pagers.

Turning on/off

- Off-hook,
- Dial [35].
- On-hook.
- Night Service

Supports both NIGHT and DAY modes of operation.

Setting

- Off-hook,
- Dial 781 or 780
- -781: from Day mode to Night mode
- -780 : from Night mode to Day mode • On-hook.

Outgoing Message (OGM)

Allows to record a message for play back with various message services.

Recording • Off-hook.

- Dial 361 + OGM number (1-4).
- -1: for Direct Inward System Access (DISA) message 1
- -2: for Direct Inward System Access (DISA) message 2*
- -3: for Timed Reminder message
- -4: not assigned
- -Confirmation tone is audible.
- · Record your message.
- Press STORE button.

- Recorded message plays back,
- Press STORE button or wait until playback is finished.
- On-hook,
- Playing back
- Off-hook.
- Dial 362 + OGM number (1-4).
- -Confirmation tone and the message are audible,
- Press STORE button or wait until playback is finished.
- On-hook.
- * The initial setting recording time for a DISA message 2 is zero. You can change the time through System Programming. See the Installation Manual of the Digital Super Hybrid System.
- Remote Station Lock Control Allows to control Electronic Station Lockout on any extension.
 - · Press PAUSE button,
 - Dial 99.
 - Dial 0 + extension number or 🔀 . -extension number : to lock or unlock one extension
 - * : to lock or unlock all extensions
 - Dial 1 or 2].
 - -1 : to unlock
 - -2: to lock
 - Press STORE button.
 - Press PAUSE button.

Station Speed Dialing

Each extension can store up to 10 speed dial numbers which are only available to that extension user.

- System Speed Dialing* The system supports 100 speed dial numbers which are available to all extension users.
- Trunk (CO Line) Answer from Any Station (TAFAS) Ringing through the external paging system indicates an incoming CO call. TAFAS allows this call to be answered from any extension.

Voice Mail Integration

- When you are busy or absent, your calls can be forwarded to a mail box of the
- Voice Processing System.
 - * These features must first be enabled through System Programming. See the Installation Manual of the Digital Super Hybrid System.

Station Programming

Station Programming allows you to assign the following features or buttons from your telephone individually if necessary.

- Before entering Programming, you need to enter Programming mode,
 - When the telephone is idle and on-hook; • Press : [PAUSE 9] 9.
- To exit Programming mode.
 Press : <u>PAUSE</u>.
 or
 - Lift the handset.
- Call Waiting Tone Type Assignment
 - Dial 5.
 - Dial 1 or 2. -1: Call Waiting Tone 1
 - -2: Call Waiting Tone 2
 - Press STORE button.
- Flexible Button Assignment
- Account Button
- Press the desired CO or PF button.

- Dial 6.
- Press STORE button.
- FWD/DND Button (for KX-T7050, (KX-T7055)
- Press the desired CO or PF button. • Dial 4.
- Press STORE button.
- One-Touch Dialing Button
- Press the desired CO or PF button.
 Dial 2 + the desired number (phone numbers or feature numbers etc.).
- Press STORE button.
- SAVE Button (for KX-T7020, KX-T7030,KX-T7050,KX-T7055)
- Press the desired CO or [PF] button.
- Dial 5.
- Press STORE button.
- MESSAGE Button (for KX-T7055)
- Press the desired CO button.
- Dial 3.

-5-

• Press STORE button.

-12-

Feature Descriptions (contd.)

Do Not Disturb (DND) Override* Allows you to call an extension even though Do Not Disturb is set.

Executive Busy Override*

- CO Line
 - Allows you to enter into an existing CO call or to add a third party to your existing conversation.
- Extension
 Allows you to enter into an existing extension conversation.
- Full One-Touch Dialing
 - This feature automatically activates the handsfree speakerphone and dials a phone number or accesses a system feature at the touch of a button.
- Intercom Calling

Allows you to make a call to another extension.

- Line Access, Automatic Allows you to select an available CO line automatically.
- Line Access, CO Line Group (Trunk Group)

Allows each extension to select an idle CO line within the designated CO Line Group.

🖩 Line Access, Individual

Allows you to select the desired CO line without dialing the line access code.

Message Waiting

Allows you to leave a message for another extension. The message waiting lamp gives a visual indication that a message has been received.

Paging

Provides an announcement (page), through the built-in speaker of the telephone or by the external speakers.

- All Page through both built-in speakers and external pagers.
- External
- Page through all the external pagers simultaneously.
- Paging to a specific external pager.
- Group
- Page to all groups (all extensions) simultaneously.
- Page to a particular group of extensions using the built-in speakers.
- Answer

A page sent to the built-in speakers or the external pagers can be answered by any extension in the system.

Paging and Transfer

Allows you to transfer a call to the paged person.

Pulse to Tone Conversion Allows you to change from Pulse to Tone mode so that you can access special services such as computer-accessed long distance.

Redial

 Automatic
 Without lifting the handset, redialing can be activated automatically and repeated until the called party answers. The number and time between retries is programmable.

- Last Number Automatically saves the last CO call

number you dialed and allows you to make the same outgoing call again.

- Saved Number The desired CO call number can be stored and then redialed.

Station Feature Clear

Allows you to reset all station features you programmed to the default settings.

Feature Numbers

This Manual uses the initial factory settings (default value) for feature descriptions. If you change the feature number, use the new one you programmed instead.

< Flexible Feature Numbers >

Feature Numbers	Default	Your #	Additional Required Digits
Absent Message Capability set/cancel	750		1-9/0
Account Code Entry	49		Account code + #
Call Forwarding set/cancel	710		2-6/0
Call Forwarding - Follow Me set/cancel	710		7/8
Call Park/Call Park retrieve	52		0.9
Call Pickup, CO Line	4 X		
Call Pickup, Directed	41		EXT.
Call Pickup, Group	40		
Call Pickup Deny set/cancel	720		1/0
Call Waiting set/cancel	731		1/0
Data Line Security set/cancel	730		1/0
Do Not Disturb (DND) set/cancel	710		1/0
Doorphone Call calling/door open	31/55		1-4
Electronic Station Lockout set	77		lock code (000-999) twice
Electronic Station Lockout cancel	77		lock code (000-999)
Executive Busy Override Deny set/cancel	733		1/0
Line Access, Automatic/ARS	9		
Line Access, CO Line (Trunk) Group	8		1-8
Message Waiting set/cancel/call back	70		1/0/2
Operator Call	0		(0,1)
Paging-All	32 or 33		*
Paging-External	32		0/1-4
Paging External Answer/TAFAS Answer	42		1-4
Paging-Group	33		0/1-8
Paging-Group Answer	43		
Paralleled Telephone Connection set/cancel	39		1/0
Station Feature Clear	790		
Station Speed Dialing	3 *		0-9
Station Speed Dialing store	30		(0-9)+phone number+#
Timed Reminder set	76	-	1+*hhmm+0/1+0/1
Timed Reminder cancel/confirm	76		0/2

*hhnun hh : hour (00-12) mm: minute (00-59)



< Fixed Feature Numbers >

While hearing busy tone	Dial			
Automatic Callback Busy (Camp-On) Busy Station Signaling (BSS) Executive Busy Override	endeder ended 16 ended ender ended men given 1 ender 2 juni			
While on-hook (idle)	Dial			
Background Music (BGM)	1			
While calling	Dial			
Pulse to Tone Conversion	phone number + *# + phone number			
While hearing DND tone	Dial			
Do Not Disturb (DND) Override	1			

< For Operator Operation >

Feature Numbers	Default	Your #	Additional Required Digits
Background Music (BGM) External on/off	35		ann a tha gheata an
Night Service set/cancel	78		1/0 geographic state 1/0 geographic state
OGM record	361		1-4 g a
OGM playback	362		1-4

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- **Feature Descriptions**
- Absent Message Capability There are nine flexible absent messages available. If you select a message it will be shown on the display of the calling party's telephone.
- Automatic Callback Busy (Camp-On)

When the selected CO line or extension
Call Hold you have dialed is busy, dial the campon code and hang up. Your telephone will ring when the called party is idle. When you answer, their phone rings,

- Background Music (BGM) Background music, from an external source, is heard through the built-in speaker of the telephone.
- Busy Station Signaling (BSS) You can inform a busy extension, which Call Waiting has been set, that you are waiting. The extension hears three bceps.
- Call Forwarding (FWD) Automatically transfers incoming calls to another extension or to an external destination. The following types are available:
 - All Calls All incoming calls are forwarded to another extension.
 - Busy
 - All incoming calls are forwarded to another extension, when your extension is busy.
 - No Answer All incoming calls are forwarded to another extension, if you don't answer the call.
- Busy/No Answer
 - All incoming calls will be forwarded to another extension, if you don't answer or your extension is busy.

- to CO Line*
- All incoming calls are forwarded to a CO Line.
- Follow Me

Allows you to remotely set Call Forwarding-All Calls from another extension.

Allows you to hold an extension or a CO call.

Call Park

Allows you to "park a call " so that any extension can retrieve it

Call Pickup

Allows you to answer a call ringing at another extension.

- CO Line Allows you to answer an incoming CO call that is ringing at another's telephone.

- Directed Allows you to answer an incoming call ringing at any other extension.

- Group Allows you to answer a call that is ringing at another telephone within your extension group.
- Call Transfer to Extension Transfers incoming CO or extension calls to another extension (screened or unscreened).
- Call Waiting

Informs you with three beeps that there is a call waiting.

Conference

Allows you to make a three-party conference.

Do Not Disturb (DND) The extension will not receive extension or CO calls. -3-


Proprietary Telephones For Digital Super Hybrid System, KX-TD1232

MODEL NO. KX-T7020/KX-T7030 KX-T7050/KX-T7055/KX-T7130

Feature Descriptions and Operating Instructions

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Please read before using these telephones.

Thank you for purchasing these Panasonic Telephones.

Introduction

These Proprietary Telephones, KX-T7020/KX-T7030/KX-T7050/KX-T7055/KX-T7130 can be used with the Digital Super Hybrid System, KX-TD1232 and can perform most of the functions of the system.

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*2 Operating Instructions

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