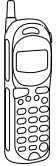


Panasonic

DECT Portable Station

Model No. **KX-TD7590CE**

Operating Instructions



English

Deutsch

Français

Nederlands

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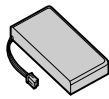
- Thank you for purchasing the Panasonic model KX-TD7590CE, DECT Portable Station.
- Please read this manual carefully before using this product and save this manual for future use.
- **Charge the battery for about 6 hours before initial use.**
- For more details, refer to the User Manual Addendum for the KX-TD816/KX-TD1232, or the User Manual for the KX-TDA series.
- In this manual, the suffix of each model number is omitted.

GETTING STARTED

ACCESSORIES



Operating Instructions



Rechargeable Battery
PSP1F6122485

PORTABLE STATION (PS)

▶ Button Descriptions



* For service use only.

GETTING STARTED (CONT.)

① UP/DOWN Buttons:

Used to select the ringer volume (seven levels) during on-hook or ringing status, or receiver volume (four levels) during a conversation. And used to shift the display.

② SELECT Button:

Used to select the displayed function. And used to enter the Directories.

③ TALK Button:

Used to make or receive calls.

④ Flexible CO Buttons (F1 through F3):

Used to make or receive an outside call. F1 button is already assigned. (Default: L-CO [when the PS is connected to the KX-TD816/KX-TD1232], S-CO [when the PS is connected to the KX-TDA series]). F1 to F3 buttons can be used as the desired function buttons. (Button assignment is required.) If the term is in parentheses like (Save), it means this button has been made into a "Save" button.

⑤ FUNCTION/KEY-LOCK Button:

Used to enter into the Function mode or access features by pressing additional keys. And used to set "KEYPAD LOCK/UNLOCK" by pressing for about 2 seconds.

⑥ AUTO DIAL/OK Button:

Used for System Speed Dialling and storing programme changes.

⑦ CANCEL/POWER Button:

Used to end calls, or exit the Directory or Function mode. And also used to switch the power (ON/OFF) by pressing for a while. (about 5 sec)

⑧ INTERCOM Button:

Used to make or receive intercom calls.


⑨ TRANSFER/CLEAR Button:

Used to clear incorrect digits while entering numbers in pre-dialling or transfer a call to another extension. And used to return to previous step group display.

GETTING STARTED (CONT.)

▶ Key Operations

The following buttons can be activated by display operations when they are available. These buttons can also be activated using a combination of buttons. The description and button combinations are as follows.

PAUSE Button  (**F** + **1**)


Used to insert a pause between numbers.

FWD/DND Button  (**F** + **2**)^{*1}

Used to set the Call Forwarding or Do Not Disturb (DND) features.

MESSAGE Button  (**F** + **3**)^{*1}

Used to leave a notification to the called party or call back to the message sender.

CONFERENCE Button  (**F** + **4**)^{*1*2}

Used to establish a three party conversation.

tone Button (**F** + **5**)

Used to change the dialling mode temporarily to tone (pulse to tone conversion).

FLASH/RECALL Button  (**F** + **6**)^{*1*2}


Used to disconnect the current call and to make another call. This is not available for an ISDN line.

HOLD Button  (**F** + **7**)^{*1*2}

Used to place a call on hold.

FKEY LIST Display Button (**F** + **8**)

Used to display the selected features of the Flexible CO Buttons.

REDIAL Button  (**F** + **9**)

Used to display the last 5 numbers you called.

PS-PROGRAM Button  (**F** + **0**)

Used to enter the PS-Programming mode.

^{*1} Only displayed in off-hook status (when the PS is connected to the KX-TD816/KX-TD1232).

^{*2} Only displayed in off-hook status (when the PS is connected to the KX-TDA series).

GETTING STARTED (CONT.)

WAVESEARCH Button (F) + (*)

Used to search the best Cell Station in idle status.

EDIT MODE Button (F) + (#)*

Used to select a mode to edit the Directories (except the PBX Extension Dialling Directory [Extension Number Directory]) or to store a dialled number in the PS Dialling Directory. Also, used to edit a number while entering the number in pre-dialling.

PROGRAM Button (F) + (F)

Used to enter the programming mode.

Flexible CO Button (F) + (F1)/(F2)/(F3)

Used to assign or edit the Flexible CO buttons.

You can shift F-KEY items (see pages 4 and 5) by pressing the ▲ (up) or ▼ (down) buttons.

1 Press (F) (function).

Display example

```
Back Menu
PAUSE (KEY1)
TONE (KEY5)
```

2 Press ▲ or ▼ repeatedly until the desired button is displayed.

```
PAUSE (KEY1)
TONE (KEY5)
FKEY LIST (KEY8)
```

3 Press ^{SELECT} (select).

```
T
```

4 Continue with the required operations.

NOTE:

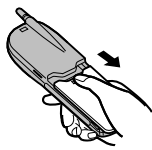
- The TONE button is not available on the KX-TD816FR/KX-TD1232FR, KX-TD816NE/KX-TD1232NE, KX-TD816SL/KX-TD1232SL.
- For operations using these buttons, refer to the User Manual Addendum for the KX-TD816/KX-TD1232, or the User Manual for the KX-TDA series.

* Displayed on Directories (except the PBX Extension Dialling Directory and the PBX System Speed Dialling Directory) or in pre-dialling.

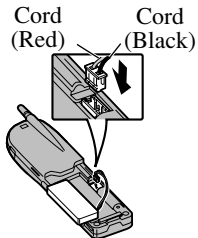
GETTING STARTED (CONT.)

SETTING UP

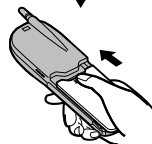
1



Open the battery cover.

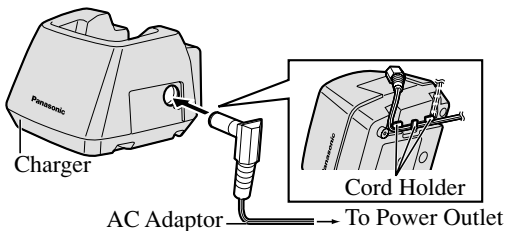


Connect the battery cord and install the battery.



Close the cover.

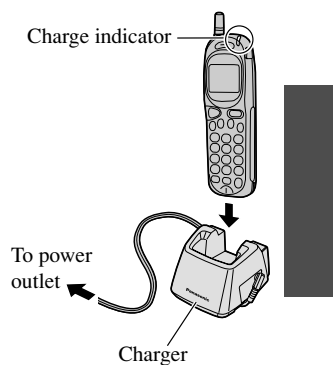
2 Connect the charger to a power outlet using the AC adaptor.



GETTING STARTED (CONT.)

3 Charge the battery for about 6 hours.

- See pages 43 and 48 for more details about the battery.
- When charging has been completed, the charge indicator will change from red to green.



4 Register your PS in the PBX system.

- Consult your dealer.

NOTE:

- The charger can be wall mounted.
- The PS and charger get warm during charging. This is normal and not dangerous.
- Be sure to complete charging before initial use.
- Keep magnetically sensitive things away from the charger.
- It takes longer to charge the PS if you put the backside of the PS forward in the charger.



POWER

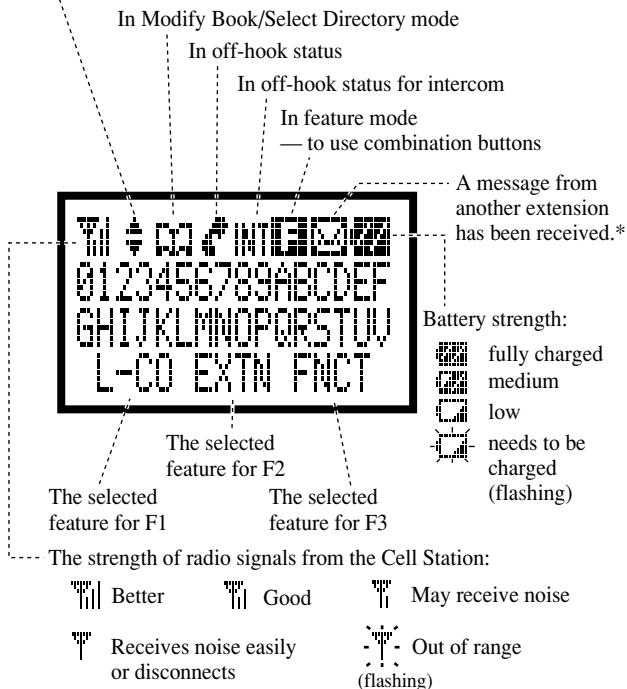
To power "ON", press  (CANCEL/POWER) button about 5 seconds, until "KX-TD7590" is displayed.

To power "OFF", press  button for more than 3 seconds.

DISPLAY (LCD)

The display has 4 lines with 16 characters per line. At the top of the display, the related symbols show information for certain call activities.

Change the Display by pressing  or , if there are other items out of the display.

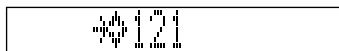


* When you receive a message while in idle status, the PS will alert you of it by vibrating or ringing; the method depends on the current setting of the Ringer Volume. See page 41.

DISPLAY (CONT.)

The first line of the display will change in the following modes:

- In the PS Programming mode:



----- The PS Programming menu number
 ----- In PS Programming mode

- (e.g.)
 In Modify Book/Edit Flexible CO buttons/
 Enter Password mode:




Press **→OK** (OK).

Other icons


 Ringer ON mode


 Ringer OFF mode

 Vibration mode

 Meeting mode

 Key Lock ON mode

 FWD: Call Forwarding

 DND: Do Not Disturb

After powering ON, the following display appears.

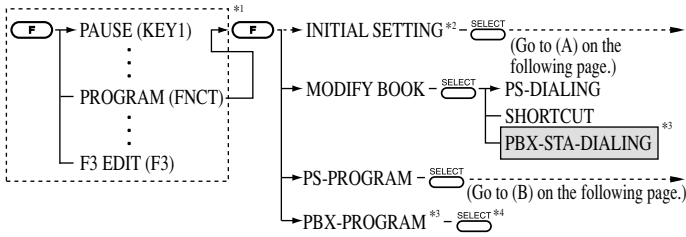
```

1 Jan 1:00
[1-290]
L-CO F2 F3
    
```

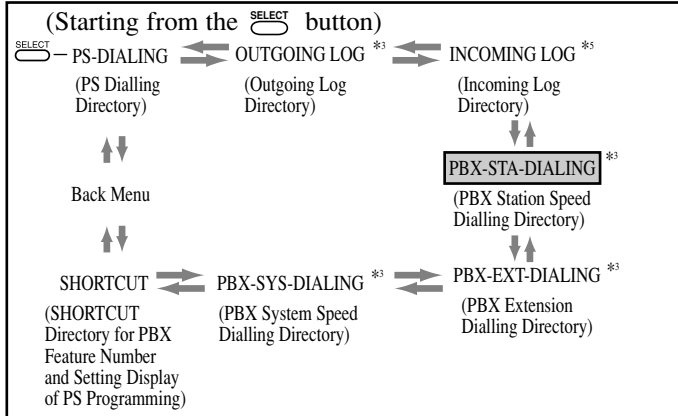
OPERATION OUTLINE

You can navigate the PS through the LCD menu using **▲** and **▼** keys.

(Starting from the **F** button)



(Starting from the **SELECT** button)



*1 For key operations, see pages 4 and 5.

*2 After registering PS, it is not displayed.

*3 It is displayed only when “**▼**” is displayed.

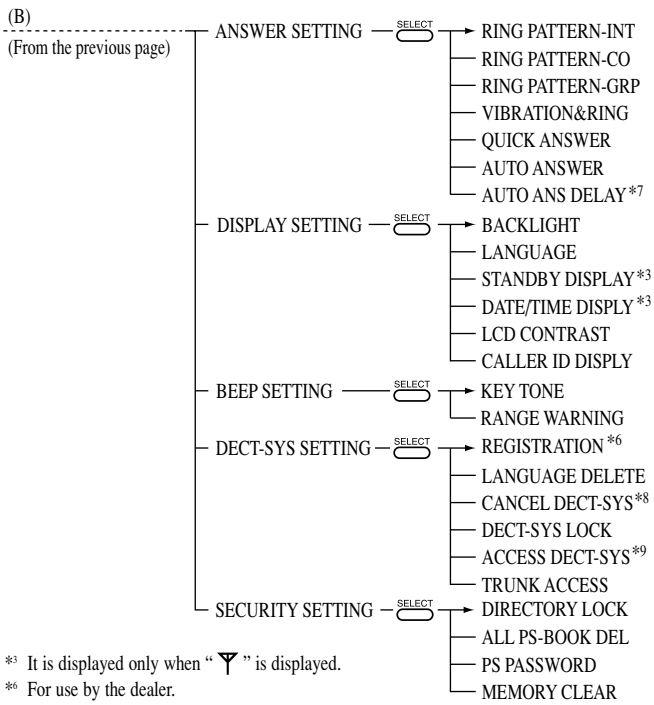
*4 For more details after this step, refer to the User Manual Addendum for the KX-TD816/ KX-TD1232, or the User Manual for the KX-TDA series. (Some buttons described in the User Manual for the KX-TDA series may not be available for the KX-TD7590. Use the **→OK** button to set “programming input” and “selection & parameter”. Also use the **F1** / **F2** / **F3** button for customising the button.)

*5 (When the PS is connected to the KX-TDA series)
It is displayed only when “**▼**” is displayed.

Not displayed when the PS is connected to the KX-TDA series.

OPERATION OUTLINE (CONT.)

(A)
(From the previous page) → LANGUAGE REGISTRATION *6



*3 It is displayed only when “ ∇ ” is displayed.

*6 For use by the dealer.

*7 Only displayed when “AUTO ANSWER” is assigned.

*8 Only displayed when the PS is registered.

*9 Only displayed when handset is assigned to more than one DECT system.

SELECTING THE DISPLAY LANGUAGE

1 Press **F**.

Display example

```
Back Menu
PAUSE (KEY1)
TONE (KEY5)
```

2 Press **0**.

```
Back Menu
ANSWER SETTING
DISPLAY SETTING
```

3 To select “DISPLAY SETTING”, press **▲** or **▼** repeatedly.

```
ANSWER SETTING
DISPLAY SETTING
BEEP SETTING
```

4 Press **SELECT**.

```
Back Menu
BACKLIGHT
LANGUAGE
```

5 To select “LANGUAGE”, press **▲** or **▼** repeatedly.

```
BACKLIGHT
LANGUAGE
STANDBY DISPLAY
```

6 Press **SELECT**.

```
LANGUAGE
AUTO
CHANGE=SELECT
```

7 Press **SELECT**.

```
○ SVENSKA
● AUTO
○ ENGLISH
```

8 To select the desired language, press **▲** or **▼** repeatedly.

```
○ NEDERLANDS
● SVENSKA
○ AUTO
```

9 Press **SELECT**.

```
SPRÅK
SVENSKA
```

10 To exit the Display Setting mode, press **END** (Cancel).

NOTE:

- If the PS is connected to the PBX System while the setting is still “AUTO”, the displaying language will depend on the system setting.

MAKING A CALL

INTERCOM CALLS

- 1 Press **INT** (INTERCOM).
- 2 Enter the **extension number**.
- 3 **Talk** after the called party answers.
- 4 Press **END** after you finish the conversation.

Display example

201

OUTSIDE CALLS

Using line access numbers or Selecting an outside line group

- 1 Press **LINE** and enter the **line access number**.
OR
Press **F1**/**F2**/**F3** (assigned as flexible CO).

- 2 Enter the **phone number**.
- 3 **Talk** after the called party answers.

Display example


01234567

- 4 Press **END** after you finish the conversation.

USING THE CALL LOG

CALLING USING THE OUTGOING CALL LOG

This unit automatically saves the last 5*¹ numbers that you dialled (outgoing log). You can make a call by selecting the desired log number.



1 Press .

OR


To redial an outgoing call, press  +  (REDIAL) and go to **4**.



Display example

```
Back Menu
PS-DIALING
OUTGOING LOG
```






2 To select "OUTGOING LOG", press  or  repeatedly.

```
PS-DIALING
OUTGOING LOG
INCOMING LOG
```

3 Press .











4 To search the desired log number, press  or  repeatedly.

```
123456789
```

5 Press  or  /  /  or .

for about two seconds.

NOTE:

- It is possible to dial the desired number first and then press  or  /  /  (pre-dialling).
- If you misdial, press  +  (FLASH/RECALL*²), and enter the correct number. When pre-dialling, press  (CLEAR) to clear each digit from the last one, and enter the correct number.
- You can clear call log number(s) by selecting EDIT MODE ( + ) and then pressing . When your PS is connected to the KX-TDA series, a current call log number will be cleared. When it is connected to the KX-TD816/KX-TD1232, all the call log numbers will be cleared.
- You can also hang up by **placing the portable station on the charger**.
- Make sure "Y" is displayed before making a call.

*¹ The maximum number depends on the connected PBX system.

*² The FLASH/RECALL button is not available for an ISDN line.

USING THE CALL LOG (CONT.)

INCOMING CALL LOG

When you receive an outside call directly while in idle status, the Caller ID (CLIP) sent by PBX is recorded automatically in the incoming call log.

Information Sample (When the KX-TD816/KX-TD1232 is connected*1)

In idle status

```
11 Jan 10:07
CALLS:02 ..... Number of unconfirmed calls
```

When you confirm a call

<1st display>

```
Anne Parker ..... Caller's name or phone number
NEW 11 Jan 10:07 - if the received number is stored in the PS
                  Dialling Directory, the name will be displayed.
                  ..... Receipt date & time
```

Information's status:

NEW - unconfirmed call
 OLD - confirmed call/answered call

<2nd display>

```
123456789 ..... Caller's phone number
ANSWERED
```

Answer status:

NOT ANSWERED*2
 ANSWERED

NO INFO AVAILABL - When "NOT ANSWERED" or "ANSWERED" cannot be displayed due to radio communication error, etc.

*1 The displays above may vary depending on the connected system.

*2 If a call is received by another party or a paralleled telephone, it will be saved as an unconfirmed (NOT ANSWERED) call in your telephone.

CONDITION:

- One of (F1)/(F2)/(F3) must be assigned as Flexible CO button for the feature.
- The caller's information will not be displayed in the following cases:
 - An incoming call is received except while in idle status (stand-by) (e.g.: when dialling, PS ringing or during a call in progress, etc.).
 - The PS is connected to a DECT system other than the KX-TD816/KX-TD1232, or the KX-TDA series.
 - A radio communication error occurred.
 - An incoming call is transferred/forwarded after another extension received the call.
 - An incoming call is received in a group (DIL 1:N, Ring Group, etc.) when the KX-TD816/KX-TD1232 is connected.



USING THE CALL LOG (CONT.)

CALLING USING THE INCOMING CALL LOG


You can make a call using the phone number you have received (max., 15 phone numbers*).




1 Press .

Display example
 Back Menu
 PS-DIALING
 OUTGOING LOG






2 To select “INCOMING LOG”, press  or  repeatedly.

OUTGOING LOG
 INCOMING LOG
 INCOMING LOG-GRP



3 Press .

4 To search the desired log number, press  or  repeatedly. To see each display alternately, press  repeatedly.

<1st display>
 Anne Parker
 NEW 11 Jan 10:07
 ↑↓
 <2nd display>
 123456789
 ANSWERED

5 Press  or // or  for about 2 seconds.

NOTE:


- If an incoming call rings before and after being interrupted by other operations or calls, it might be logged twice.
 - You can delete the log numbers or save them in the PS Dialling Directory by selecting EDIT MODE () + ()
- * The maximum number depends on the connected PBX system.

USING THE CALL LOG (CONT.)

CALLING USING THE INCOMING CALL LOG GROUP

You can make a call using the phone number that your extension group has received. It is only available when the KX-TDA series PBX is connected.

Regarding the caller's information, refer to "Information Sample" on page 15.


1 Press .

Display example

```
Back Menu
PS-DIALING
OUTGOING LOG
```


2 To select "INCOMING LOG-GRP", press  or  repeatedly.




```
INCOMING LOG
INCOMING LOG-GRP
PBX-EXT-DIALING
```

3 Press .

4 Press a number of your extension group.

```
ENTER GROUP NO.
400
← → ←
```






5 Press .

6 To search the desired log number, press  or  repeatedly. To see each display alternately, press  repeatedly.

```
<1st display>
Anne Parker
11 Jan. 10:07
```




```
<2nd display>
123456789
Old:Not Answered
```




7 Press  or // or  for about 2 seconds.

RECEIVING A CALL

When you receive a call, the PS rings or vibrates, and the outside line number or extension number of the receiving call appears on the display.

1 Press .

OR

Press //.

Display example


- When receiving a call, the name on the bottom line of the display will **flash rapidly**.

OR

Press  (Intercom call only).

OR

Just lift up the PS from the charger (**Quick Answer**).

2 To hang up, press .

OR

Put the PS on the Charger.

NOTE:

- The light (LED: Light Emitting Diode) of the CALL/CHARGE Indicator flashes when you are receiving a call. The colour of the LED depends on where the call is coming from: intercom (green), outside (red), and incoming call distribution group (orange).
- You can select the ringer type and the vibration type (see page 32).
- To select vibration mode, see page 41.
- **Quick Answer** is available only when Quick Answer Mode is set to “ON” in PS programming.
- **If a headset is connected** to your PS, you can select Automatic Answer Mode; OFF (default), intercom/outside calls automatically, or intercom calls only automatically.
- To select Quick Answer Mode or Automatic Answer Mode, see pages 32 or 33.

RECEIVING A CALL (CONT.)

- While you are receiving a call, the display shows the information sent from the connected PBX. However, if certain conditions* are met, the display shows the information stored in the PS Dialling Directory instead (see “Selecting the Caller ID (CLIP) Display” on page 35).
- You can select the ringer type for each CLIP (see step **11** on page 24).

While you are receiving a call, the PS rings according to the ringer type selected for intercom calls, outside calls, or incoming call distribution group (only when the distribution method is “Ring”). However, if certain conditions* are met, the PS rings according to the ringer type selected for each CLIP.

CONDITION*:

1. The Caller ID (CLIP) is sent to your PS from the connected PBX.
2. The caller's name and number have already been stored in the PS Dialling Directory. (Outside party's phone numbers must be stored using only the digits “0” through “9”, starting with a line access number [see page 35].)

HOLDING A CALL

You can place a call on hold. Exclusive hold is also possible so that no other extension can retrieve the call.

PLACING A CALL ON HOLD

- 1** Press **(F)** + **(7)** (HOLD) during a conversation.*¹

RETRIEVING A CALL ON HOLD

- 1** Press **(F1)**/**(F2)**/**(F3)** (Outside calls). Display example*²

- When an outside line is on hold, the name on the bottom line of the display will **flash slowly**.

S-CO F2 F3

OR

Press **(INT)** (Intercom calls).

- When an intercom call is on hold, "INT" on the top line of the display will **flash slowly**.

PLACING A CALL ON EXCLUSIVE HOLD

- 1** Press **(F)** + **(7)** (HOLD), **(F)** + **(7)** (HOLD) during a conversation.*¹

RETRIEVING A CALL ON EXCLUSIVE HOLD

- 1** Press **(F1)**/**(F2)**/**(F3)** (Outside calls). Display example*²

- When an outside line is on exclusive hold, the name on the bottom line of the display will **flash rapidly**.

S-CO F2 F3

OR

Press **(INT)** (Intercom calls).

- When an intercom call is on exclusive hold, "INT" on the top line of the display will **flash rapidly**.

*¹ If the KX-TDA series PBX is connected, the operation depends on the system setting. Consult your dealer.

*² **S-CO** Your held call

S-CO Another extension's held call

TRANSFERRING A CALL

TRANSFERRING TO AN EXTENSION

- 1 Press **CLF** (TRANSFER).
- 2 Enter the **extension number** and announce.
- 3 Press **END** (CANCEL).

TRANSFERRING TO AN EXTERNAL PARTY

- 1 Press **CLF** (TRANSFER).
- 2 Press **F1**/**F2**/**F3** or enter the **line access number**.
- 3 Enter the **phone number** and announce.
- 4 Press **END** (CANCEL).

To retrieve the call, press **CLF** (TRANSFER), corresponding **F1**/**F2**/**F3** or **INT**.

KEY LOCK SETTING

You can lock the dialling buttons (except **END** and **F**). Incoming calls can be answered, but no outgoing calls can be dialled. If this is set, “**🔒**” is displayed on the LCD.

- 1 To set or cancel, press **F** for 2 seconds while in idle status.

Display example

```
25 Dec 11:36
[1-290]
L-CO F2 F3
```



```
KEYPAD LOCK
PRESS F FOR 2SEC
```

```
25 Dec 11:37
[1-290] 🔒
L-CO F2 F3
```



```
KEYPAD UNLOCK
PRESS F FOR 2SEC
```

USING THE DIRECTORY

There are 5 types of directory features as follows.

PS Dialling Directory:

You can store 100 private names and phone numbers. If you store an outside party's number, you should first store a line access number. All directory items are stored in alphabetical order.

PBX System Speed Dialling Directory:

You can make a call via the system by selecting system assigned names and phone numbers. (The maximum number of directory depends on the connected system.)

PBX Extension Dialling Directory (Extension Number Directory):

You can make a call via the system by selecting system assigned extension names and numbers. (The maximum number of directory depends on the connected system.)

PBX Station Speed Dialling Directory*:





You can make a call via the system by selecting your privately assigned names and phone numbers (max., 10).

Shortcut Directory:

You can store feature names and numbers for PBX and also menu numbers for PS programming menu (max., 10). Refer to the User Manual Addendum for the KX-TD816/KX-TD1232, or the User Manual for the KX-TDA series for details.

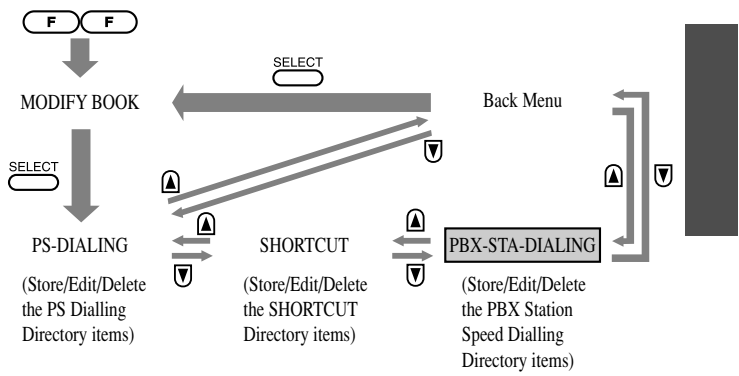
* It is not available for the KX-TDA series.

NOTE:

- The outside line access number must be entered to store a phone number of an outside party in the PBX Station Speed Dialling Directory.
- Consult your dealer to store the names and numbers in the PBX System Speed Dialling and PBX Extension Dialling Directories.
- It is not possible to edit or erase items in the PBX System Speed Dialling and PBX Extension Dialling Directories.
- Use **F3** ( delete) to delete each character or number.
- Use **F1** ( left) or **F2** ( right) to move the cursor to change or enter a character or number.
- Press **F4** () to exit Directory mode.

USING THE DIRECTORY (CONT.)

STORING NAMES AND NUMBERS



Not displayed when the PS is connected to the KX-TDA series.

PS Dialling Directory

1 Press **F**.

Display example
 Back Menu
 PAUSE (KEY1)
 TONE (KEY5)

2 Press **F**.

Back Menu
 MODIFY BOOK
 PS - PROGRAM

3 Press **SELECT**.

Back Menu
 PS - DIALING
 SHORTCUT

4 To select "PS-DIALING", press **▲** or **▼** repeatedly.

Back Menu
 PS - DIALING
 SHORTCUT

5 Press **SELECT**.

Andy Patterson
 2101234567
 [NEW] [EDIT] [DEL]

6 Press **F1** (NEW).
 • If there is nothing stored, this step is omitted.

ENTER NAME
 [30 STORED]
 [70 REMAINS]

USING THE DIRECTORY (CONT.)

7 Enter a **name** (max., 16 characters) (see Table 1 and Table 2 on pages 30 and 31).

Display example
 Panasonic

8 Press **(→OK)**.

Panasonic
 ENTER PHONE-NO.

9 Enter a **phone number** (max., 32 digits).

- Valid digits are “0” through “9”, “*”, “#”, PAUSE and TONE.

123456789

10 Press **(→OK)**.

MELODY4
 DEFAULT
 BELL1

11 Select a **ringer pattern** by pressing **(▲)** or **(▼)** and press **(SELECT)**.

- If you select “DEFAULT”, the ringer pattern is subject to the “Ringer Pattern-CO” setting (see page 32).
- You can select the ringer type from 6 bell patterns and 4 melody patterns if the connected PBX system is the latest version.

BELL5
 BELL6
 MELODY1

STORED

PBX Station Speed Dialling Directory (It is not available for the KX-TDA series.)


1 Press **(F)**.

Display example
 Back Menu
 PAUSE (KEY1)
 TONE (KEY5)

2 Press **(F)**.



Back Menu
 MODIFY BOOK
 PS-PROGRAM

USING THE DIRECTORY (CONT.)


3 Press  .

Display example



```
Back Menu
PS-DIALING
SHORTCUT
```

4 To select “PBX-STA-DIALING”, press  or  repeatedly.

```
SHORTCUT
PBX-STA-DIALING
Back Menu
```

5 Press  .

```
Andy Patterson
2101234567
[EDIT] [DEL]
```

6 Press  or  until nothing is displayed.


```
[EDIT] [DEL]
```

7 Press  (EDIT).

```
[EDIT] [DEL]
```

8 Enter a **name** (max., 10 characters) (see Table 1 and Table 2 on pages 30 and 31).

```
Panasonic
[Left] [Right] [Left]
```


9 Press  .

```
Panasonic
ENTER PHONE-NO.
```

10 Enter a **phone number**.

- Maximum digits depend on the PBX system. Refer to the User Manual Addendum for the KX-TD816/KX-TD1232 for details.
- Valid digits are “0” through “9”, “*”, “#”, PAUSE and TONE.

```
123456789
[Left] [Right] [Left]
```

11 Press  .

```
STORED
```

USING THE DIRECTORY (CONT.)

▶ SHORCUT Directory

1 Press **(F)**.

Display example

```
Back Menu
PAUSE (KEY1)
TONE (KEY5)
```

2 Press **(F)**.

```
Back Menu
MODIFY BOOK
PS-PROGRAM
```

3 Press **SELECT**.

```
Back Menu
PS-DIALING
SHORTCUT
```

4 To select "SHORTCUT", press **▲** or **▼** repeatedly.

```
PS-DIALING
SHORTCUT
PBX-STA-DIALING
```

5 Press **SELECT**.

- If there is nothing stored, this step is omitted.

```
RING PATTERN-INT
11
NEW EDIT DEL
```

6 To store a new number, press **(F1)** (NEW).

- If there is nothing stored, this step is omitted.

```
[ 1 STORED ]
[ 9 REMAINS ]
PS PBX
```

7 To select PS programming, press **(F1)** (PS).

```
ENTER MENU NO.
```

8 Enter a **menu number** (2 or 3 digits).

- For the "MENU NO.", see pages 32 through 36.

```
11
← → ←
```

9 Press **(→OK)**.

- You can edit the name if you need.

```
RING PATTERN-INT
11
← → ←
```

10 Press **(→OK)**.

```
STORED
```

USING THE DIRECTORY (CONT.)

MAKING CALLS USING THE DIRECTORIES

1 Press .

Display example

```
Back Menu
PS-DIALING
OUTGOING LOG
```

2 Press or repeatedly until the desired directory feature is displayed.

```
Back Menu
PS-DIALING
OUTGOING LOG
```

3 Press .

```
Andy Patterson
2101234567
L-CO F2 F3
```

4 Enter the first few letters of the desired name (see pages 30 and 31).*

```
Pa
← → ←
```

5 Press .*

```
Panasonic
123456789
L-CO F2 F3
```

6 Press or repeatedly until the desired item is displayed.

```
Panasonic-SCD
9876543210
L-CO F2 F3
```

7 Press , or //.

OR

Press for 2 seconds.


* This is available for PS Dialling Directory, PBX System Speed Dialling Directory or PBX Extension Dialling Directory only.

NOTE:


- You can store items of Outgoing Log Directory or PBX System Speed Dialling Directory into PS Dialling Directory by selecting EDIT MODE (+) and then pressing while they are displayed.

USING THE DIRECTORY (CONT.)

TRANSFERRING USING THE DIRECTORY ITEM



Press  during a conversation, and then follow the steps above (except in the SHORTCUT Directory).

USING THE SHORTCUT DIRECTORY


1 Press .

Display example



Back Menu
PS-DIALING
OUTGOING LOG

2 To select “SHORTCUT”, press  or  repeatedly.


PBX-SYS-DIALING
SHORTCUT
Back Menu

3 Press .

RING PATTERN-INT
11
L-CO F2 F3

4 Press  or  repeatedly until the desired item is displayed.

KEY TONE
31
L-CO F2 F3

5 Press .

USING THE DIRECTORY (CONT.)

EDITING AN ITEM IN THE DIRECTORY

1 Select the desired directory item to edit (refer to steps **1** through **5** on page 23).

Display example
 Andy Patterson
 2101234567
 [NEW] [EDIT] [DEL]

2 Press \downarrow or \uparrow repeatedly until the desired item to edit is displayed.

Panasonic
 123456789
 [NEW] [EDIT] [DEL]

3 Press F2 (EDIT).

▶ Panasonic
 123456789
 DEFAULT

4 Press \uparrow or \downarrow repeatedly until the desired feature to edit is selected.

Panasonic
 ▶ 123456789
 DEFAULT

5 Press SELECT .

123456789
 [←] [→] [↵]

6 Edit the selected item.

9876543210
 [←] [→] [↵]

7 Press OK .

STORED

Panasonic
 ▶ 9876543210
 DEFAULT

ERASING AN ITEM IN THE DIRECTORY

1 Select the desired directory item to erase (refer to steps **1** through **5** on page 23).

Display example
 Andy Patterson
 2101234567
 [NEW] [EDIT] [DEL]

2 Press \uparrow or \downarrow repeatedly until the desired item to erase is displayed.

Panasonic
 123456789
 [NEW] [EDIT] [DEL]

3 Press F3 (DEL).

DELETED

USING THE DIRECTORY (CONT.)

CHARACTER COMBINATION TABLE

To input characters, use the following tables.

You can enter characters by pressing Dial Buttons and Flexible CO buttons on your telephone.

Example: Button 2 can enter A, B, C, a, b, c or 2.

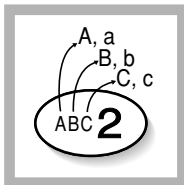


Table 1

Buttons	Number of pressing times								
	1	2	3	4	5	6	7	8	9
1	Ä	Ü	ä	ö	ü	l			
2	A	B	C	a	b	c	2		
3	D	E	F	d	e	f	3		
4	G	H	I	g	h	i	4		
5	J	K	L	j	k	l	5		
6	M	N	O	m	n	o	6		
7	P	Q	R	S	p	q	r	s	7
8	T	U	V	t	u	v	8		
9	W	X	Y	Z	w	x	y	z	9
0	(space)	.	:	/	-	()	0		

For example, to store “Ann”

“A”: press ②.

“n” : press ⑥ 5 times.

“n” : press ②(→) and press ⑥ 5 times.

NOTE:

- To erase a character, press ③(← delete).
- To shift the cursor, press ①(← left) or ②(→ right).
- To go to Table 2, press *.

USING THE DIRECTORY (CONT.)

Table 2

01	! " # \$ % & ' * + , ; < = > ? @ [] _ { } →←
02	À Á Ç É È Ê Ë Î Ï Ò Ó Õ Ù Ú é
03	Ä È Ì Ò Ù
04	Á É Í Ñ Ó Ú Û á é í ú ü
05	À Á Â Ã Ä È É Ê Ë Î Ï Ò Ó Ô Õ Ù Ú á ä é ü
06	Б Г Д Ж З И Й Л П У Ф Ц Ч Ш Щ Ъ Ы Ь Э Ю Я
07	Г Δ Θ Λ Ξ Π Σ φ ψ Ω α β
08	Ä Ä É ä é ö
09	Æ Ø Å
10	À Á Â Ã Ç È É Í Ò Ó Ô Õ Ù Ú á é ú ü
11	Ä Ä ä ö
12	Æ Ø Å
13	Ą Ć Ę Ł Ń Ó Ś Ź Ż
14	Á Ć Ď É Í Ń Ő Ŕ Š Ť Ú ú ý Ž á d' é í ñ ř t' ú
15	Á É Í Ó Ő Ú Û Ü á é í ö ú ü
16	À Ç Ğ Ĩ Î Ş Û Ü ö ü

For example, to store “ÀÂÇ”

- “À”: press * 0 8 and press F3 (return).
- “Â”: press 0 2, F2 (right) and press F3 (return).
- “Ç”: press F2 (right) and press F3 (return).

NOTE:

- To erase a character, go back to Table 1 by pressing * and press F3 (delete).
- To shift tables, press *.
- In the PBX Station Speed Dialling Directory (see page 22), only some of the 01 characters are available.

PS PROGRAMMING

You can change the default settings or the programming of your PS according to your needs. The possible programmings and their default displays are shown below. For programming operations, see pages 37 and 38.

ANSWER SETTING

Selecting the Ringer Pattern

[**MENU NO. 11 (INT), NO. 12 (CO) or NO. 17 (GRP)***]

You can set the PS ringer pattern – intercom calls, outside calls, and group calls* respectively – 6 bell patterns and 4 melody patterns. (default: BELL 1)

* Outside calls to DIL 1:N destinations (when the PS is connected to the KX-TD816/KX-TD1232).

Both outside calls and intercom calls distributed to an incoming call distribution group or a PS ring group (when the PS is connected to the KX-TDA series).

Display example

```
RING PATTERN-INT
  BELL1
CHANGE=SELECT
```

```
RING PATTERN-CO
  BELL1
CHANGE=SELECT
```

```
RING PATTERN-GRP
  BELL1
CHANGE=SELECT
```

Selecting the Vibration and Ring Type [**MENU NO. 13**]

You can select the vibration and ring type. (default: OFF)

This programme can be set in combination with ringer VOLUME adjustment (see page 41) as follows.

```
VIBRATION & RING
  OFF
CHANGE=SELECT
```

		VOLUME Control Button Adjustment		
		RINGER	VIBRATION ON/ RINGER OFF	MEETING MODE
PS Prog.	OFF	RINGER	VIB	VIB
	RING & VIB	RINGER and VIB†	VIB	VIB
	VIB→RING	VIB for 5 s and then RINGER	VIB	VIB

†: Battery charge may decrease faster than with the other settings.

Setting the Quick Answer Mode [**MENU NO. 14**]

You can quickly answer an incoming call by just lifting your PS off the charger. (default: ON)

```
QUICK ANSWER
● ON
○ OFF
```

PS PROGRAMMING (CONT.)

Setting the Automatic Answer Mode [MENU NO. 15]

You can answer intercom/outside calls (INT/CO) or intercom calls (INT ONLY) without pressing any button when using the headset. (default: OFF)

AUTO ANSWER OFF
CHANGE=SELECT

Selecting Automatic Answer Delay [MENU NO. 16]

You can select how many seconds the ringer rings before automatically answering calls when using the headset. (available ringing time: 6 s - 20 s) This programme is displayed only when “Setting the Automatic Answer Mode” is set to “INT/CO” or “INT ONLY”. (default: 6 s)

Display example

AUTO ANS DELAY 6 s
CHANGE=SELECT

NOTE:

- If you set “INT/CO” or “INT ONLY” to the Automatic Answer Mode (PS programming) and connect the headset, your phone will answer incoming calls automatically. If you leave your PS unattended with the headset connected, the following problems will occur.
 1. The PS will answer calls and the calling party will be charged even though you are not there to take the call.
 2. Even if the calling party disconnects the call, the DECT line will remain connected until you disconnect the call manually or the battery expires. This occurs depending on the line. The PBX trunk may also remain connected to the network. Please note the following;
 - a) Please set “INT/CO” or “INT ONLY” to the Automatic Answer Mode only when necessary.
 - b) If you are using the “INT/CO” or “INT ONLY” setting in the Automatic Answer Mode and you take off the headset, pull the headset jack out.
- The Automatic Answer Mode is not available while the PS is on the charger.

PS PROGRAMMING (CONT.)

DISPLAY SETTING

Setting the Keypad & Display Backlight Mode

[MENU NO. 21]

You can turn off the keypad & display lights to save the battery. (When you power on, the display lights up even if you set it to "OFF".)

(default: ON)

Display example

BACKLIGHT
 ON
 OFF

Selecting the Display Language [MENU NO. 22]

You can select the display language: English (ENGLISH), German (Deutsch), French (FRANCAIS), Italian (ITALIANO), Spanish (ESPAÑOL), Dutch (NEDERLANDS) or Swedish (SVENSKA).
 (default: AUTO [ENGLISH])

LANGUAGE
 AUTO
 CHANGE=SELECT

If the PS is connected to the PBX system while the setting is still "AUTO", the display language will depend on the system setting.

Selecting the Standby Display* [MENU NO. 23]

There are four types of Standby Display.

- Extension No. (EXTN)
- DECT System No. (SYS-NO.)
- Both of the above (SYS-NO. & EXTN)
- Neither of them (OFF)

(default: SYS-NO. & EXTN)

STANDBY DISPLAY
 SYS-NO. & EXTN
 CHANGE=SELECT

Selecting the Date/Time Display* [MENU NO. 24]

You can select whether to display the date and time (DATE) or the time (TIME) in the standby mode display.

(default: TIME)

DATE/TIME DISPLY
 TIME
 DATE

* It is not displayed when "⌘:" or "NO SERVICE" is displayed.

PS PROGRAMMING (CONT.)

Selecting the Display Contrast

[**MENU NO. 25**]

You can select from 12 steps of display contrast variation.

Display example

```
LCD CONTRAST
▲ DARK
▼ LIGHT
```

Selecting the Caller ID (CLIP) Display [**MENU NO. 26**]

The caller's information in PBX or the stored name in the PS Dialling Directory can be displayed as the Caller ID. You can change the display by pressing **(*)** while receiving a call. You can select which display has priority. (default: PBX SETTING)

```
CALLER ID DISPLY
● PBX SETTING
○ PS DIRECTRY
```

BEEP SETTING

Setting the Key Tone [**MENU NO. 31**]

You can select whether or not to emit a key tone when you press a button on your PS (in the PBX programming mode, no key tone is emitted). (default: ON)

Display example

```
KEY TONE
● ON
○ OFF
```

Setting the Range Warning Mode [**MENU NO. 32**]

You can select whether or not to sound a beep when you go out of range of your Cell Station. (default: ON)

```
RANGE WARNING
● ON
○ OFF
```

DECT-SYS SETTING

Selecting the DECT System [**MENU NO. 45**]

You can change the DECT System (1 through 4). (default: AUTO)

The item is displayed only when more than two fixed terminals are registered to the system.

Display example

```
ACCESS DECT-SYS
      AUTO
CHANGE=SELECT
```

Storing the line access number [**MENU NO. 46**]

You should store line access numbers that agree with the PBX settings.

(default: TRUNK ACCESS 1-0, TRUNK ACCESS 2-8XX*, TRUNK ACCESS 3-NONE [Not stored])

```
TRUNK ACCESS 1
      0
CHANGE=SELECT
```

* To enter "X", press **(INT)**.

PS PROGRAMMING (CONT.)

SECURITY SETTING

Controlling the Directory Lock

[MENU NO. 51]

You can lock (ON) or unlock (OFF) the PS Dialling Directory. (default: OFF)*1

Display example

DIRECTORY LOCK
 ON
 OFF

Clearing the Items in the PS Dialling Directory

[MENU NO. 52]

All the items in the PS Dialling Directory (All PS-BOOK DEL) can be cleared at one time by selecting "YES".

DELETE?

NO
 YES

Setting the PS Programming Password

[MENU NO. 53]

You can set the PS programming password. If it is set to "ENABLE", you must enter your password in order to display the following programmes.

PS PASSWORD

ENABLE
 DISABLE

- Controlling the Directory Lock
- Clearing the Items in the PS Dialling Directory
- Setting the PS programming password
- Clearing the settings in memory (default: DISABLE)*2

Clearing the Settings in Memory [MENU NO. 54]

All of the following settings can be returned to their default settings at one time by selecting "YES".

INITIALIZE DATA?

NO
 YES

- Ringer/receiver volume
- PS programming items (except: selecting the DECT System; setting the PS programming password)

*1 If "ON" is selected, "ENABLE" of "PS PASSWORD" is selected automatically. Even if "OFF" is selected, "DISABLE" is not selected automatically.

*2 If "DISABLE" is selected, the PS Dialling Directory is unlocked.

PS PROGRAMMING (CONT.)

PROGRAMMING – EXCEPT FOR SETTING THE PS PROGRAMMING PASSWORD

1 Press **F**.

Display example

```
Back Menu
PAUSE (KEY1)
TONE (KEY5)
```

2 Press **0**.

```
Back Menu
ANSWER SETTING
DISPLAY SETTING
```

3 Press **▲** or **▼** repeatedly until the desired programme item is selected, and press **SELECT**.

```
DISPLAY SETTING
BEEP SETTING
DECT-SYS SETTING
```

4 Press **▲** or **▼** repeatedly until the desired item is selected, and press **SELECT**.

```
Back Menu
KEY TONE
RANGE WARNING
```

5 Select “ON” or “OFF” by pressing **▲** or **▼**, and press **SELECT**.

```
KEY TONE
● ON
○ OFF
```

6 Repeat steps **3** through **5** if you want to programme other items.

7 To exit the programming mode, press **END**.

NOTE:

- Instead of steps **3** and **4**, you can select the desired item by dialling the menu number. (For the “MENU NO.”, see pages 32 through 36.)
- It is necessary to enter the PS programming password after step **3** when entering “SECURITY SETTING”, if it was programmed beforehand.

PS PROGRAMMING (CONT.)

SETTING THE PS PROGRAMMING PASSWORD

1 Press **F**.

Display example

```
Back Menu
PAUSE (KEY1)
TONE (KEY5)
```

2 Press **0**.

```
Back Menu
ANSWER SETTING
DISPLAY SETTING
```

3 Press **▲** or **▼** repeatedly until the desired programme item is selected, and press **SELECT**.

```
DECT-SYS SETTING
SECURITY SETTING
Back Menu
```

4 Press **▲** or **▼** repeatedly until the desired item is selected, and press **SELECT**.

```
ALL PS-BOOK DEL
PS PASSWORD
MEMORY CLEAR
```

5 Press **▲** or **▼** to select "ENABLE".

```
PS PASSWORD
● ENABLE
○ DISABLE
```

6 Press **SELECT**.

```
ENTER PASSWORD
=====
```

7 Enter the password (4 digits).

```
ENTER PASSWORD
=****
[←]
```

8 Press **OK**.

```
REENTER PASSWORD
=====
```

9 Enter the same password again.

```
REENTER PASSWORD
=****
[←]
```

10 Press **OK**.

```
LOCKED
```

11 To exit the programming mode, press **END**.

NOTE:

- To disable the PS programming password, select "DISABLE" in step **5** and press **SELECT**.

EDITING THE LABELS OF THE FLEXIBLE CO BUTTONS ON THE LCD

You can edit the labels of the Flexible CO buttons or assign PS feature to the buttons.

If the flexible CO button has been assigned a PBX features, it has higher priority than a PS feature even if the flexible CO button has been assigned a PS feature.

EDITING THE FLEXIBLE CO BUTTON

PBX

Refer to the User Manual Addendum for the KX-TD816/KX-TD1232, or the User Manual for the KX-TDA series for details.

PS

1 Press **F**.

Display example

```
Back Menu
PAUSE (KEY1)
TONE (KEY5)
```

2 Press **F1**/**F2**/**F3**.

```
PROGRAM (FNCT)
F1 EDIT (F1)
F2 EDIT (F2)
```

OR

To select "F1 EDIT", "F2 EDIT" or "F3 EDIT", press **▲** or **▼** and press **SELECT**.

3 To edit the PS feature label, press **F1** (PS).

```
F1 EDIT
PS PBX
```

4 To assign a new feature, press **F1** (NEW).

```
DIAL
PS-DIAL
NEW EDIT
```

• If no feature is assigned, this step is omitted.

5 Press **▲** or **▼** repeatedly and select the desired PS feature.

```
○ NONE
● PS-DIAL
○ PS NEW ENTRY
```

6 Press **SELECT**.

STORED

EDITING THE LABELS OF THE FLEXIBLE CO BUTTONS ON THE LCD (CONT.)

EDITING THE LABELS OF THE FLEXIBLE CO BUTTONS

You can assign two names (short and full) to each Flexible CO button.

The short one is displayed on the bottom line on LCD. The full one is displayed for 3 seconds when you reconfirm the Flexible CO buttons by pressing (F) + (8) (FKEY LIST Display).

1 Press (F).

Display example

```
Back Menu
PAUSE (KEY1)
TONE (KEY5)
```

2 Press (F1)/(F2)/(F3).

```
PROGRAM (FNCT)
F1 EDIT (F1)
F2 EDIT (F2)
```

OR

To select "F1 EDIT", "F2 EDIT" or "F3 EDIT", press (▲) or (▼) and press (SELECT).

3 To edit the PS feature label, press (F1) (PS).

```
F1 EDIT
PS PEX
```

4 To edit the PS feature label, press (F2) (EDIT).

```
DIAL
PS-DIAL
NEW EDIT
```

5 Select a name you want to edit by pressing (▲) or (▼) and then pressing (SELECT), and edit the name.

- Short name (max., 4 characters).
- Full name (max., 14 characters).

```
►DIAL
PS-DIAL
```

```
DIAL
← → ←
```

```
BOSS
← → ←
```

```
STORED
```

6 Press (OK).

```
►BOSS
PS-DIAL
```

OTHER INFORMATION

ADJUSTMENT











Ringer Volume Adjustment

You can select from the 7 different ringer volumes below.

[default:  (high)]

1 During stand-by mode or when the PS is ringing

Press  or  repeatedly.

Button	Ringer Volume	Display while adjustment	Icon
   	High	RINGER 	
	Medium	RINGER 	
	Low	RINGER 	
	Gradually turns higher • Low→Medium→High	RINGER STEP UP	
	Gradually turns lower • High→Medium→Low	RINGER STEP DOWN	
	Vibration only	VIBRATION ON RINGER OFF	
	• Vibration only • Key tone off • Microphone volume high	MEETING MODE	

NOTE:

- In addition to the above, there are several combinations of vibration and ring types. Refer to “Selecting the Vibration and Ring Type” in PS Programming (see page 32).
- When charging, the PS rings for incoming calls (except in “MEETING MODE”).

OTHER INFORMATION (CONT.)









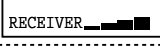
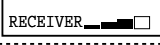
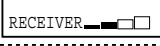
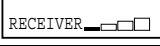
▶ Receiver Volume Adjustment

The receiver volume has 4 levels, indicated by the number of bars on the display.

[default:  (medium)]

1 *During a conversation*

Press  or  repeatedly.

Button	Receiver Volume	Display while adjustment
       	Extra High	
	High	
	Medium	
	Low	

OTHER INFORMATION (CONT.)



BATTERY INFORMATION

Duration time (only when the PS is connected to a Panasonic PBX system)

Under ideal conditions, a fully charged battery should last about 11 hours while talking or 120 hours on standby. The duration time varies depending on usage conditions and ambient temperature.



Low battery warning

The battery needs to be charged in the following situations:

- “” flashes or the alarm sounds every 5 seconds*.
- “CHARGE BATTERY” is displayed and no key (except ) used to power OFF) can be operated.

* If the low battery warning occurs during a conversation, you can have the conversation for another minute, and then the call will be disconnected automatically.

NOTE:

- The battery will drain even while the unit is “OFF”.
- Battery life may vary depending on usage conditions and ambient temperature.
- The PS can receive calls even while charging.
- You need not worry about overcharging.
- Battery charge will be shortened when the PS is used out of range. If “” flashes, power off the PS.
- If you charged the battery fully, but “” still flashes, it is time to change the battery. Please purchase new battery.




TROUBLESHOOTING

Problem	Remedy
The PS does not work.	<ul style="list-style-type: none"> • The battery is empty. ➔Charge the batteries fully. (☞ Step 3 in SETTING UP on page 7.) • The PS has been cancelled or the PS has not been registered. ➔Consult your dealer. • The power is OFF. ➔Turn it ON. (☞ POWER on page 7.)
The PS does not ring.	<ul style="list-style-type: none"> • Ringer volume is set to the vibration mode or the meeting mode. ➔Set to ring by pressing the UP/DOWN button. (☞ PORTABLE STATION (PS) on page 2.)
You cannot make/receive a call.	<ul style="list-style-type: none"> • The PS is out of range or the Cell Station (CS) is busy. ➔Move closer to the CS or try again later. • The radio channel is busy or a radio communication error occurred. ➔Try again later.
You cannot dial.	<ul style="list-style-type: none"> • The number which you dialled is restricted by the system. ➔Consult your dealer. • The key lock mode is set. ➔To cancel the mode, press the Function for about 2 seconds. (☞ KEY LOCK SETTING on page 21.) • The radio channel is busy or a radio communication error occurred. ➔Try again later.

TROUBLESHOOTING (CONT.)

Problem	Remedy
Noise is frequently caused.	<ul style="list-style-type: none"> ➡Set the PS and CS away from other electrical appliances. ➡Move closer to the CS.
“CS BUSY” is displayed.	<ul style="list-style-type: none"> • The Cell Station is busy. ➡Try again later.
“NEED REPAIR 1 (-3)” is displayed.	<ul style="list-style-type: none"> ➡Consult your dealer.
“PS Not Connected” on the wired telephone is displayed.	<ul style="list-style-type: none"> • The PS is out of range. ➡Move closer to the CS. • The radio channel is busy or a radio communication error occurred. ➡Try again later.
“REGISTER UNIT” is displayed.	<ul style="list-style-type: none"> • The PS is not registered in the system. ➡Consult your dealer.
“NO SERVICE” is displayed.	<ul style="list-style-type: none"> • The PS is out of range. ➡Move closer to the CS. • The Cell Station is busy. ➡Try again later.
The alarm sounds after pressing the REDIAL button.	<ul style="list-style-type: none"> • A number is not saved in the Call Log.
The PS stops working during operation.	<ul style="list-style-type: none"> ➡Turn the power OFF and ON. Then try again. (☞ POWER on page 7.) ➡Re-insert the battery and try again. (☞ SETTING UP on page 6.)

TROUBLESHOOTING (CONT.)

Problem	Remedy
The display does not show a strong radio signal “” even though you are near the CS.	• Normally, the PS user can make a call even with a “” status. In this case, the current linked CS is still connected even though another CS is closer.
The alarm sounds during a conversation while receiving a weak radio signal “”.	• The radio signal is weak. ➡ Move closer to the CS.

SAFETY INSTRUCTIONS

Pay special attention to the safety suggestions listed below.

SAFETY

- 1) Power source: The AC adaptor should be connected to a power supply only of the type as marked on the AC adaptor.
- 2) Non use periods: When the PS is not being used, turn the power off. When left unused for a long period of time, the charger should be unplugged from the household AC outlet.
- 3) Do not place metal items such as coins or rings on the charger. As they become hot, you might get burned if you touch them.

INSTALLATION

Environment

- 1) Water and moisture: Do not use the PS and the charger near water—for example, near a bathtub, washbowl, sink, etc. Damp basements should also be avoided.
- 2) Heat: The PS and the charger should be kept away from heat sources such as radiators, kitchen ranges, etc. They also should not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.

Placement

- 1) Stacking: Do not place heavy objects on top of the PS and charger.
- 2) Foreign material: Care should be taken so that objects do not fall onto and liquids are not spilled into the PS and charger. Do not subject the PS and charger to excessive smoke, dust, mechanical vibration, or shock.
- 3) Surface: Place the charger on a flat surface. If the charger is mounted on the wall, install it straight.

SAFETY INSTRUCTIONS (CONT.)

BATTERY

To reduce the risk of fire or injury to persons, read and follow these instructions.

- 1) Use only the battery specified, otherwise the battery may leak corrosive electrolyte or explode.
- 2) Do not dispose of the battery in a fire. It may explode. Check with local waste management codes for special disposal instructions.
- 3) Do not open or mutilate the battery. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- 4) Do not let the battery's electrodes touch metallic objects such as rings, bracelets or keys. The terminal may short and overheat, causing burns.
- 5) Do not attempt to rejuvenate the battery provided with or identified for use with this product by heating. A sudden release of battery electrolyte may occur causing burns or irritation to eyes or skin.
- 6) Discard the "dead" battery as soon as possible. The "dead" battery may leak in the product.
- 7) Do not store this product, or the battery provided with or identified for use with this product, in high temperature areas.

SAFETY INSTRUCTIONS (CONT.)

FOR BEST PERFORMANCE

Operating Range

- 1) The range of operation depends on the topography of your office, weather or usage conditions, because signals are transmitted between the Cell Station (CS) and the PS by radio waves.
- 2) Normally, you get greater range outdoors than indoors. If there are obstacles such as walls, noise may interfere with your telephone calls. In particular, high metal shelves or reinforced concrete walls will restrict your operating range.
- 3) A PS may not work when it is too far from the CS depending on the structure of the building.

Noise

Occasional noise or interference may occur due to electromagnetic radiation from objects such as refrigerators, microwave ovens, faxes, TVs, radios, or personal computers. If noise disturbs your telephone calls, keep the PS away from these electrical appliances.

WARNING:

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

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT DISASSEMBLE THIS UNIT. TAKE THE UNIT TO AN AUTHORISED SERVICE CENTRE WHEN SERVICE IS REQUIRED.

REGULATIONS

- This device is a DECT Portable station operating in the frequency band of 1,880 MHz to 1,900 MHz.
- This DECT Portable station was primarily developed for use with the Panasonic PBX systems. (For more information, refer to the User Manual Addendum for the KX-TD816/KX-TD1232, or the User Manual for the KX-TDA series.)
- For more information, please ask your dealer.
- This device complies with the requirements of the directive 1999/5/EC.
- The usage of this device is generally allowed in all the EU countries.

ATTENTION!!

This manual is designed to be used with your PS and the KX-TD816/KX-TD1232 system, or for the KX-TDA series systems.

Please refer to the User Manual Addendum for the KX-TD816/KX-TD1232, or the User Manual for the KX-TDA series for more detailed instructions and descriptions of all available functions.

RF SPECIFICATIONS

Item	Description
Radio Access Method	Multi Carrier TDMA-TDD
Frequency Band	1,880 MHz-1,900 MHz
Number of Carriers	10
Carrier Spacing	1,728 KHz
Bit Rate	1,152 Kbps
Carrier Multiplex	TDMA, 24 (T×12, R×12) slots per frame
Frame Length	10 ms
Modulation	GFSK
Voice Coding	32 Kbps ADPCM (CCITT G.721)
Transmission Output	Max., 250 mW