Panasonic

Digital Super Hybrid System

KX-TD816CE

KX-TD1232CE

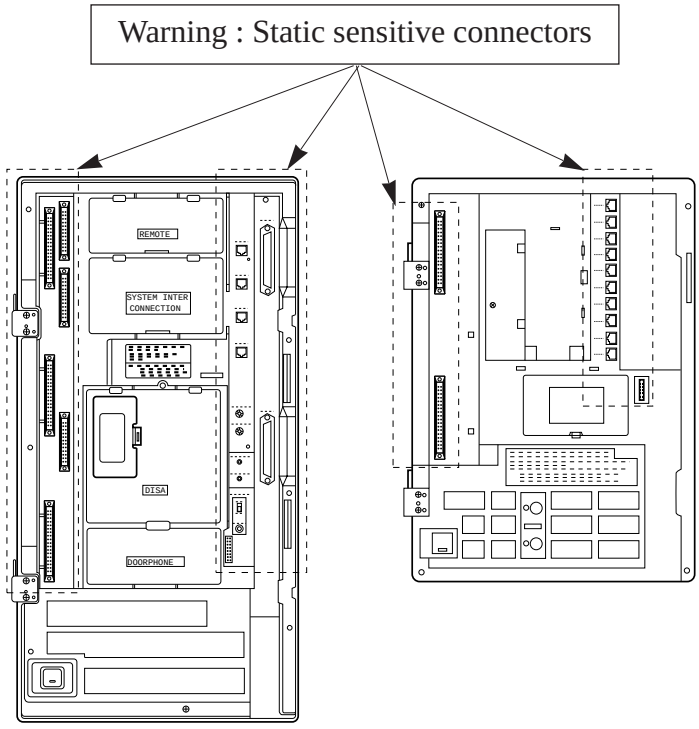
Added and Changed Features for Installation Manual and Programming Tables

Please read this manual first and then the Installation Manual.
In this manual, the last letter “CE” of each model number is omitted.

Warning

Warning:

Static sensitive devices are used. To protect printed circuit boards from static electricity, do not touch connectors indicated below. To discharge body static, touch ground or wear a grounding strap.



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Added Features

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Added Features

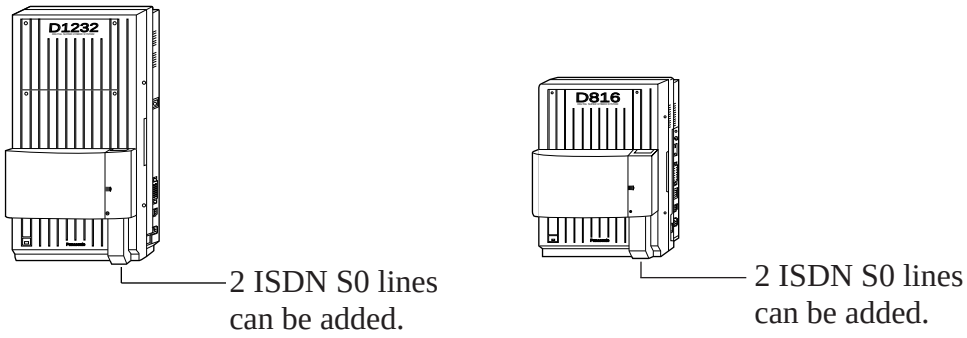
1.4 Options

Pay Tone Card (KX-TD189)

Supports the Pay Tone service of the central office. While having a conversation with an outside party, your central office generates the pay tone so that the counting for fee starts for the call.

2-ISDN S0 Line Unit (KX-TD280)

One KX-TD280 can be installed per system.



2.4 Installation of Optional Cards and Units

2-ISDN S0 Line Unit Connection

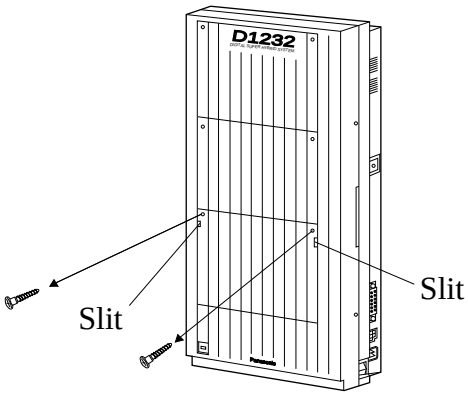
To add two ISDN S0 lines, use the optional 2-ISDN S0 Line Unit (KX-TD280). This unit can be installed in any of the expansion areas provided on the front of the main unit.

The following procedures can be used to install the 2-ISDN S0 Line Unit (KX-TD280). System programming is required for unit location identification.

Default KX-TD816: bottom = 4-CO Line Unit,
top = 8-Station Line Unit
KX-TD1232: bottom = 4-CO Line Unit,
middle and top = 8-Station Line Unit

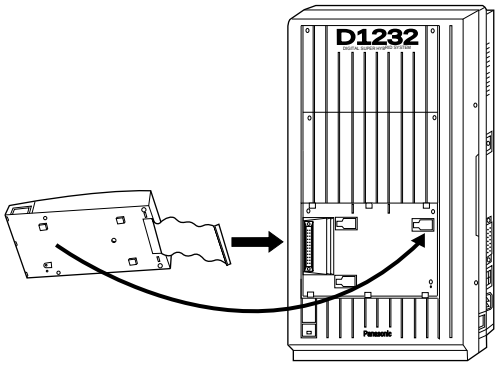
Installing Expansion Unit (KX-TD280)

1. Loosen two screws on the cover plate. Insert fingers into the slits to remove the cover plate.

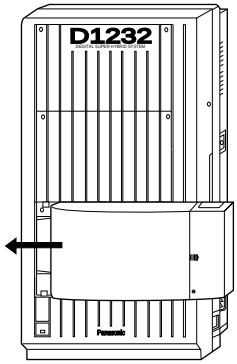


Note Any of the cover plates can be removed, as needed.

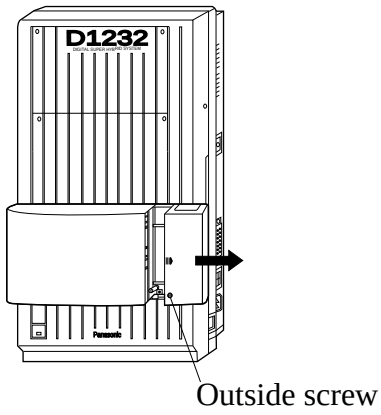
2. Connect the cabinet cord to the connector in the main unit firmly.



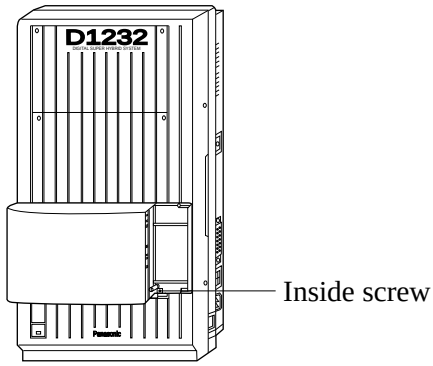
3. Hook the cabinet to the main unit and slide the cabinet to the left until it is secured.



4. Loosen the outside screw and slide the cover to the right.

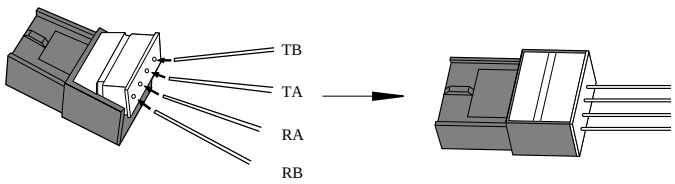


5. Secure the inside screw (included) to fix the cabinet to the main unit.



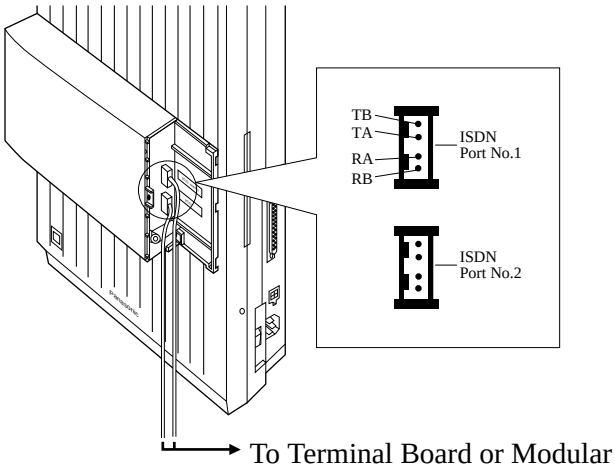
Note Be sure to fix the inside screw to the main unit, or the unit may not work properly.

6. Prepare the required plugs. Two 4-pin plugs are included in KX-TD280 to connect four CO lines.



Installing Expansion Unit (KX-TD280)

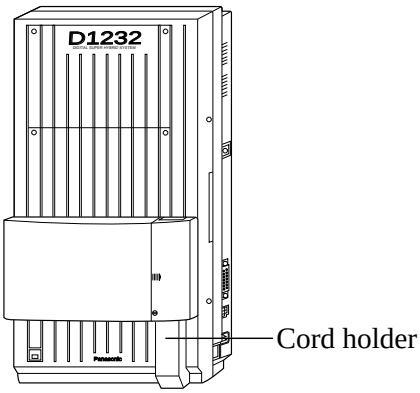
7. Insert the plug into a jack on the unit. Connect an earth wire to the earth terminal on the extension expansion unit.



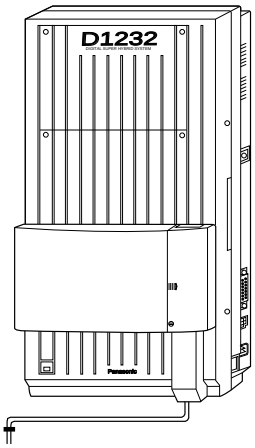
8. Tie all of the cords into a bundle. If other cords are exposed in the upper cabinets, tie them also.

9. Close the cabinet cover and secure the outside screw.

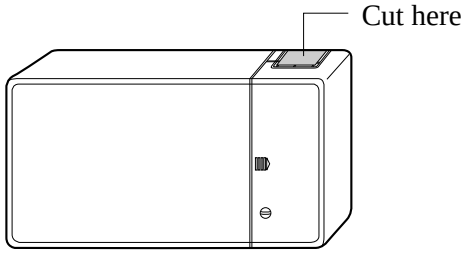
10. Cover the cords with the cord holder (included).



11. Fix the cords to the wall as shown so that the front cover can be opened.



Notes
- The KX-TD1232 is illustrated as a main unit.
- If two or three expansion units are installed, cut the cabinet covers on the lower cabinets to allow the cords from the upper cabinet to go down through the cabinet covers. To protect the cords, smooth the cut edges.



Programming References

Section 4, System Programming,
[109] Expansion Unit Type

Pay Tone Card (KX-TD189) Installation

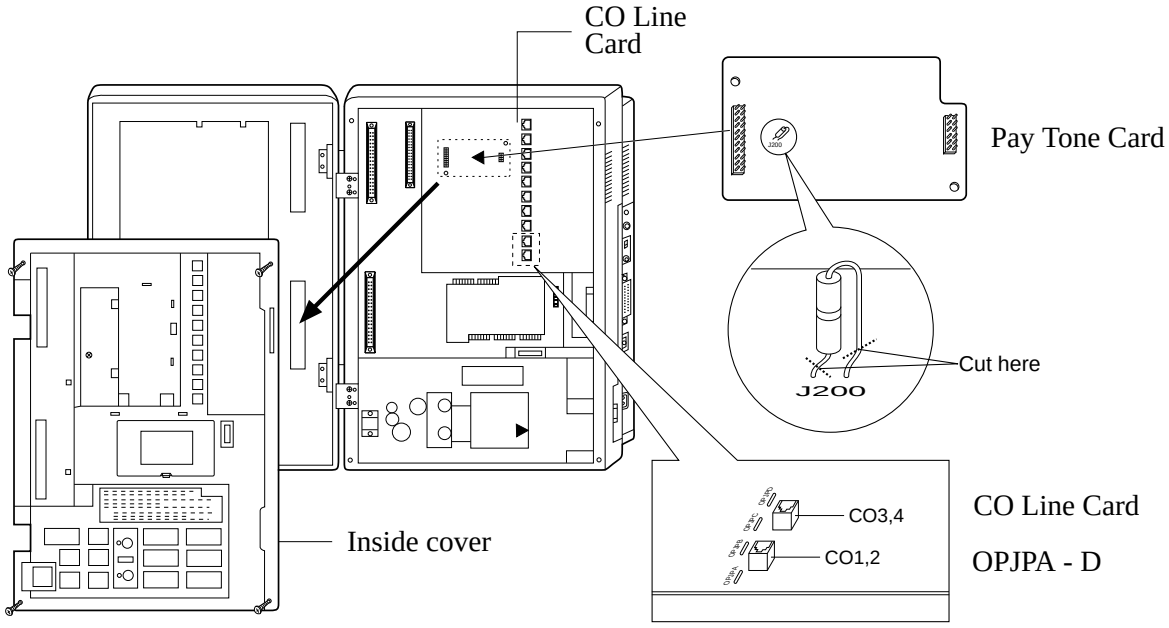
(1) Installing to the Initial CO Line Card

1. Loosen eight screws to open the inside cover of the main unit.

Note If any cards, units, or cords are installed in the main unit, remove them beforehand.

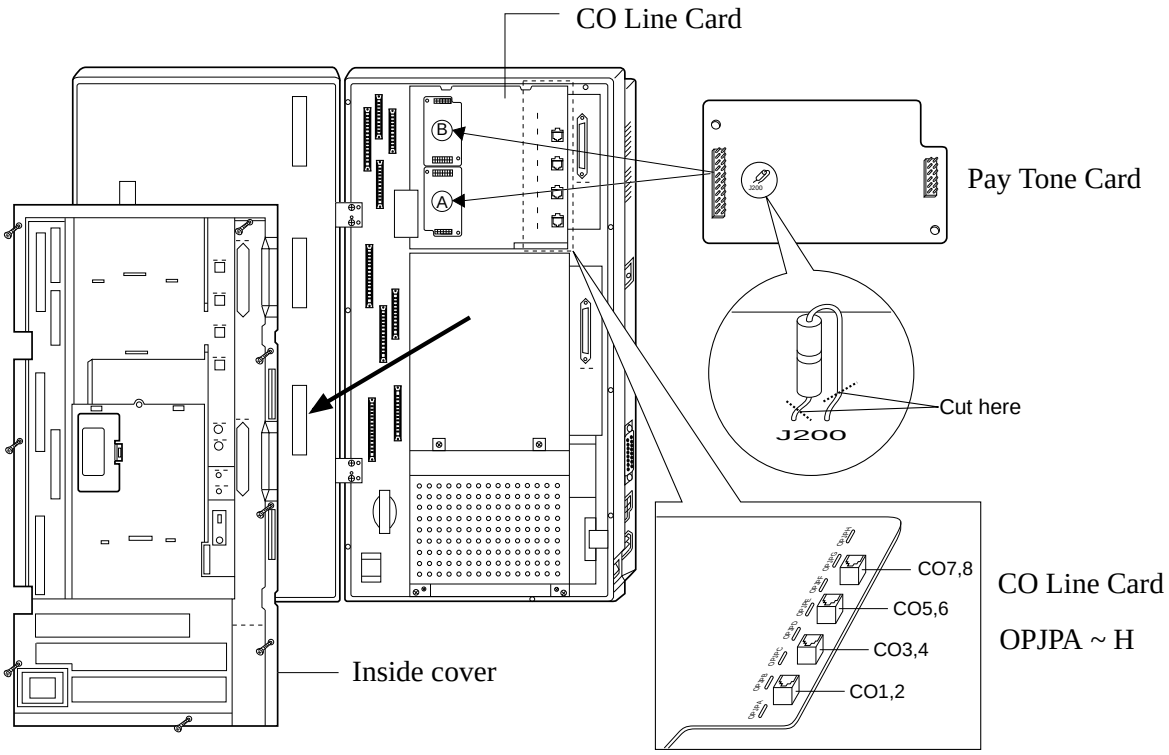
2. Attach the Pay Tone Card(s) (KX-TD189) to the CO Line Card, with the spacers (Accessary included).
One Pay Tone Card for KX-TD816, and up to two Pay Tone Cards for KX-TD1232 can be installed to the initial CO Line Card.

KX-TD816



Pay Tone Card (KX-TD189) Installation

KX-TD1232



3. Put the inside cover back on the main unit and secure the screws.

4. If you do not cut the wire of the J200 in pay-tone card, the detected mode is 16 KHz. If you cut the wire of the J200 in Pay Tone Card (Open Mode), the detected mode is 12 KHz.

5. After installing the Pay Tone Card, if you hear a noise of the pay-tone signal, cut the option Jumper Wires, OPJPA through OPJPH corresponds to CO1 through CO8 in the CO Card.
(OPJPA corresponds to CO1, OPJPB to CO2, OPJPC to CO3, OPJPD to CO4, OPJPE to CO5, OPJPF to CO6, OPJPG to CO7, and OPJPH to CO8.)

— When you install the Pay Tone Card A, you will detect the pay-tone signal from CO1 - CO4, and cut the corresponding option Jumper Wires, if needed.

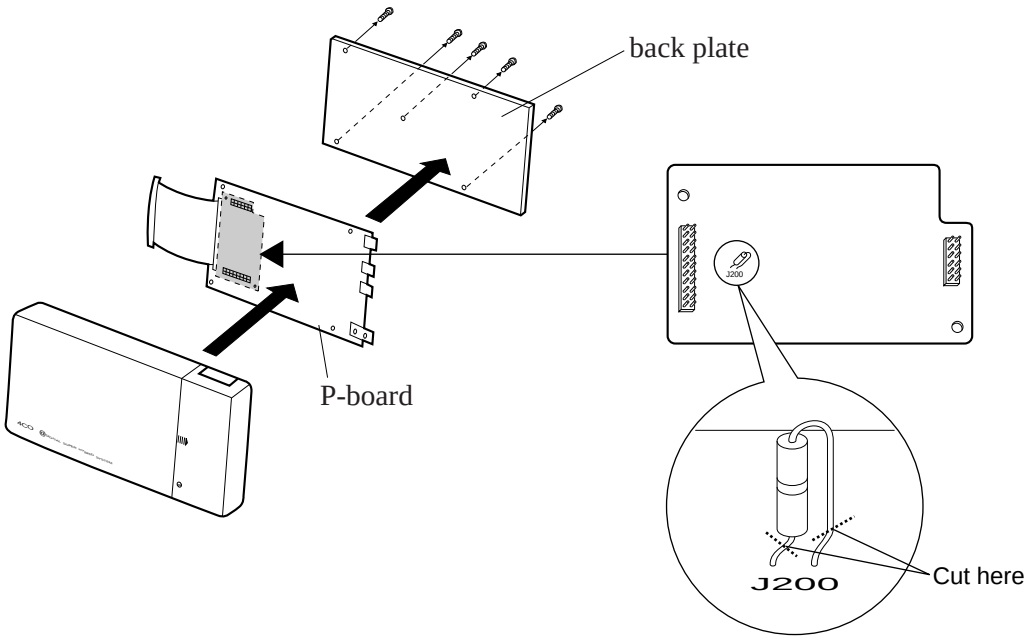
— When you install the Pay Tone Card B, you will detect the pay-tone signal from CO5 - CO8, and cut the corresponding option Jumper Wires, if needed.

Pay Tone Card (KX-TD189) Installation

(2) Installing to the Optional 4-CO Line Unit

The following procedures must be done before installing the 4-CO Line Unit (KX-TD180) to the main unit.

1. Loosen five screws located on the rear of the 4-CO Line Unit.
2. Remove the back plate and take out the P-board.
3. Attach the Pay Tone Card to the P-board, fitting the connectors.
4. Put the P-board back into the cabinet and fix the rear plate with the five screws.
5. If you do not cut the wire of the J200 in Pay Tone Card, the detected mode is 16 KHz. If you cut the wire of the J200 in pay-tone card (Open Mode), the detected mode is 12 KHz.



Note To install the 4-CO Line Unit to the main unit, refer to Section 2.4.4 “Installing Expansion Unit (KX-TD170 / KX-TD180)” in the Installation Manual.

Programming References

Section 4, System Programming,
[423] Pay-Tone Assignment

Feature References

Section 3, Features,
Display, Call Information (in this manual)
HOTEL APPLICATION (in this manual)

Budget Management

Description Limits the telephone usage to a pre-assigned amount. For example, the limit may be the amount deposited at check-in of a hotel. If the pre-assigned limit is reached, the extension user cannot make further calls until he/she receives authorization from the operator.

Conditions None

Programming References

Section 4, System Programming,
[010] Budget Management

Feature References **Section 3, Features,**
HOTEL APPLICATION

Operation References Not applicable.

Calling Line Identification Restriction (CLIR)

Description Allows the extension user to restrict the presentation of the calling party's number to the called party when making a call. This is one of the ISDN services.

Conditions If the presentation is enabled, the called party can check the calling party's number before the called party is answered it (Calling Line Identification Presentation, CLIP).

Programming References

Section 4, System Programming,
[418] ISDN Line Number Assignment
[419] ISDN Outgoing CLIR Service Assignment

Feature References None

Operation References Not applicable.

Charge Fee Reference

Description

Allows the pre-assigned display telephone user to view, clear charges and print out the data by SMDR. Charges are displayed per extension, CO line, account code, or the total of each can be referred to.

Conditions

- The allowed extension is determined by System Programming.
- The verification ID is required to perform this feature.
- A maximum of 99999 Meter can be collected. The existing call is not referred.
- It is programmable to select the first display, Meter or Charge by System Programming. This can be switched manually at each extension.
- Exchange rate between Meter or Charge is assigned by Station Programming.

Programming References

Section 4, System Programming,
[120] Charge Display Selection
[122] Charge Verification Assignment
[123] Charge Verification ID Code Set
Station Programming.....User Manual, Charge Fee Reference

Feature References

None

Operation References —User Manual

Station Programming,
Charge Fee Reference

CO Incoming Call Information Display

Description

Provides the display proprietary telephone user with a preset CO line name if an incoming outside call is received. If the CO name is not assigned and the CO line is an ISDN line provided with CLIP (Calling Line Identification Presentation) feature, shows the caller's telephone number and name on the display.

Conditions

- It is required to name CO lines by system programming.
- With the CLIP feature, the ISDN line informs the system of the caller's telephone number only. To display the name, the system compares the informed number with the System Speed Dialling Numbers stored in program [001] and if a match is found, decides the caller's name by using the System Speed Dialing Names stored in program [002].
- The CO line name display has precedence on the Operator's telephone.
- The display DPT (KX-T7230 or KX-T7235) user can record the information of the call received by CLIP feature (CO Incoming Call Information Log feature).

Connection References

Section 2, Installation,
2.4 Installation of Optional Cards and Units (in this manual)

Programming References

Section 4, System Programming,
[001] System Speed Dialing Number Set
[002] System Speed Dialing Name Set
[417] CO Line Name Assignment
[418] ISDN Line Number Assignment
[419] ISDN Outgoing CLIR Service Assignment

Feature References

Section 3, Features,
CO Incoming Call Information Log

Operation Reference —User Manual

DPT Features,
CO Incoming Call Information Display

CO Incoming Call Information Log

Description

If the display digital proprietary telephone (KX-T7230 or KX-T7235) user cannot answer a call, the telephone automatically records the caller's telephone number, name and the time. The user can call back the caller by checking the call log. This is available if such a telephone receives incoming outside calls from the ISDN line provided with the CLIP (Calling Line Identification Presentation) feature. A maximum of 15 calls per telephone can be logged.

Conditions

- The call log is registered at the time DPT finishes ringing. If a call is directed to multiple DPTs, the call log is registered at the DPT that has the smallest jack number of the ringing DPTs.
- Transferred call information is also recorded.
- If the DPT is in Call Forwarding – No Answer or IRNA is activated, the call log is registered at the original DPT but not at the destination DPT unless the destination party answers the call and record it manually.
- When the information area is full (i.e. more than 15 calls), the user can control the log mode at his / her extension (CO Incoming Call Information Log Mode). If the user sets this mode, new CO incoming call information is retained but old data is discarded. If the user cancels this mode, new CO incoming call information is not entered in the unit. To set or cancel the mode, a corresponding feature number is used.
- The telephone user can lock the display of the unit so that CO incoming call information is not shown on the display. A lock code is required to set or cancel this feature. Operator can cancel the lock in case the user forgets the lock code.

Connection References

Section 2, Installation,

2.4 Installation of Optional Cards and Units (in this manual)

Programming References

Section 4, System Programming,

[001] System Speed Dialing Number Set
[002] System Speed Dialing Name Set
[100] Flexible Numbering, CO incoming call information log mode/CO incoming call information log lock
[417] CO Line Name Assignment
[418] ISDN Line Number Assignment
[419] ISDN Outgoing CLIR Service Assignment

Feature References

Section 3, Features,
CO Incoming Call Information Display

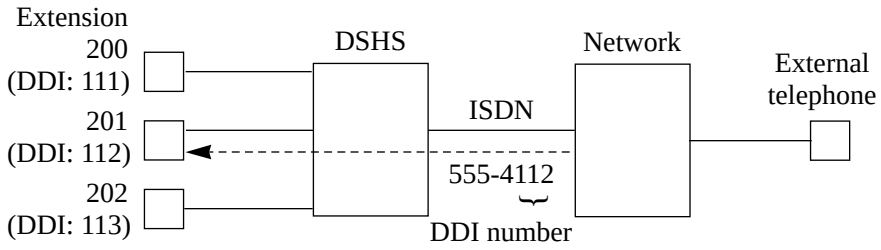
Operation Reference
—User Manual

DPT Features,
CO Incoming Call Information Log Lock
CO Incoming Call Information Log Mode
Operator Service Features,
CO Incoming Call Information Log Lock Clear

Direct Dialing In (DDI)

Description

Provides an automatic direction of an incoming ISDN S0 line call to a specific extension. This requires a DDI number informed from the ISDN network. The DDI number is converted to a specific extension number by using a pre-programmed conversion table.



Explanation

1. An incoming call from the ISDN network reaches your DSHS (Digital Super Hybrid System).
   The ISDN network informs DSHS of the DDI number.
2. DSHS converts the DDI number to an extension number and directs the call to the extension.

Conditions

- The DDI service can be enabled or disabled on a CO line basis.
- After the extension number is determined, the system operates the call in the same way as the DIL 1:1 operation.
- If a DDI number cannot be converted to an extension number, the call is put to IRNA destination.

Connection References

Section 2, Installation,
2.4 Installation of Optional Cards and Units (in this manual)

Programming References

Section 4, System Programming,
[420] ISDN DDI Service Assignment
[610] ISDN DDI Number / Extension Number Transformation
[990] System Additional Information, Fields (31) and (32)

Feature References

None

Operation References

Not applicable.

Emergency Call

Description

Allows the extension user to dial out a pre-assigned emergency number without seizing a CO line.

Conditions

- Emergency numbers are allowed even in the following cases:
  - in Account Code – Verified mode
  - in any toll restriction level
  - after the pre-assigned charge limit is reached
  - in Electronic Station Lockout
- A maximum of eight emergency numbers are assignable. An extension number can be stored as an emergency number to call service desk with 1 digit for HOTEL APPLICATION.
- [009] Emergency Dial Number Set — Emergency dial location number (1-8) corresponds to [100] Flexible Numbering — No. 55-62.

<Example>
If you want to assign “110” as an emergency call, you need assign the following programming:
— Assign [100] Flexible Numbering, Feature Number “55,”

```
Emergency call 1:110
```

— Assign [009] Emergency Dial Number Set, Location Number “1,”

```
1:9110
```

Programming References

Section 4, System Programming,
[009] Emergency Dial Number Set
[100] Flexible Numbering, Emergency call 1 through 8

Feature References

None

Operation References —User Manual

DPT Features, SLT Features;
Emergency Call

HOTEL APPLICATION

Description

Allows the operator to handle the front/operator services such as check-in / check-out, timed reminder (wake-up call). This operation is applicable to only the operator extension with a KX-T7235.

Check-In / Check-Out

Description

Allows the operator to operate the check-in / check-out service. This feature can control the usage of an outside call by switching the Class of Service between primary and secondary, and count and print out the telephone charge and the other charges (such as mini-bar charges).

Conditions

- Hotel application must be enabled by System Programming.
- When the check-in is assigned, the Class of Service is set to the primary one and the charge counter will be cleared. When the check-out is assigned, the Class of Service is set to secondary one and the total telephone charge and the other charge will be displayed and printed out.
- There are two types of check-out mode, ready or not ready (cleaned up or not). The check-out operation by the operator changes the room status from check-in to check-out (not ready) mode. Changing from check-out (not ready) to check-out (ready) mode can be executed either from the room or by the operator.
- The telephone charge can be added to the surcharge according to the pre-assigned margin rate.
- When Hotel Application is enabled, all extension is set to the primary COS. After completing a confirmation of check-in and check-out, the extension is set to the secondary COS.
- If the operator uses the paired DSS console, the operator can refer to the room status on the DSS console while the display of paired KX-TD7235 is in HOTEL menu. The lightening patterns of DSS button and room status are shown below:

Lighting Pattern	Room Status
Red on	Check-in
Red flash	Check-out (not ready)
Off	Check-out (ready)

- It is possible to give a header to the printed bill such as the hotel's name or greeting or to assign the starting location of output data with a personal computer.
- A new page is started for each print-out.
- It is possible to limit telephone usage to a pre-assigned amount by System Programming.

Programming References

Section 4, System Programming,
[010] Budget Management
[011] Charge Margin Rate
[100] Flexible Numbering, Check-out ready
[124] Hotel Application
[423] Pay-Tone Assignment
[601] Class of Service

Feature References

Section 3, Features,
Budget Management Charge Fee Reference

Operation References —User Manual

Operator Service Features,
Hotel Application

Timed Reminder, Remote (Wake-Up Call)

Description

Allows the operator to remotely set, cancel and confirm the wake-up call for an extension.

Conditions

- When either an operator or the extension sets a new time, the pre-set time is cleared.
- The Alert button on Operator 1's extension turns red if the guest does not respond to the alarm ringing. The Alert button can also be used to confirm the not responded room number or to call back the room.
- The Alert button can be assigned to a flexible CO button on Operator 1's extension only.
- SMDR records the detailed Timed Reminder information and prints it out automatically when the Timed Reminder starts and it is not answered. You can disable the printout by System Programming.

Programming References

Section 4, System Programming,
[100] Flexible Numbering, Timed reminder, remote
[217] Timed Reminder Alarm Repeat Times
[218] Timed Reminder Alarm Interval Time
[990] System Additional Information, Field (36)

Feature References

Section 3, Features,
SMDR for Timed Reminder

Operation References —User Manual

Operator Service Features,
Hotel Application

SMDR for Timed Reminder

Description

Station Message Detail Recording (SMDR) automatically records detailed Timed Reminder information. It is printed out when the Timed Reminder starts and the alarm is not answered. To enable the printout, refer to the program [990] "System Additional Information, Field (36)," which allows you to print out the following records:

- Date
- Time
- Extension number
- Start / No Answer

An example of a printed Timed Reminder record:

Date	Time	Ext	CO	Dial Number	Duration	Acc code	CD
06/24/96	10:03AM	103		Reminder / Start			
06/24/96	10:04AM	103		Reminder / No Answer			

Conditions

Connect a printer provided with an EIA (RS-232C) interface to the EIA (RS-232C) connector located on the main unit.

Connection References

Section 2, Installation,
2.3.10 Printer Connection

Programming References

Section 4, System Programming,
[801] SMDR Format
[806]–[807] EIA (RS-232C) Parameters
[990] System Additional Information, Field (36)

Feature References

Section 3, Features,
Station Message Detail Recording (SMDR)
Timed Reminder
Timed Reminder, Remote (Wake-Up Call)

Operation References

Not applicable.

4.2 Manager Programming *009*

Emergency Dial Number Set

Description

Assigns emergency call numbers.

Selection

- Emergency dial location number: **1 through 8**
- Telephone number: **16 digits (max.)**

Default

All locations – Not stored

Programming

1. Enter **009**.

```
Display:Emergency Call
```

2. Press **NEXT**.

```
Display:Emergency NO?→
```

3. Enter an **emergency dial location number**.

To enter emergency number 1, you can also press **NEXT**.

```
Display example: 1:9110
```

4. Enter a **telephone number**.

To delete the current entry, press **CLEAR**.
To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another emergency dial number, press **NEXT** or **PREV**, or **SELECT** and the desired **emergency dial location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of eight emergency call numbers. Each number has a maximum of 16 digits, consisting of 0 through 9, ✳, #, F (Flash), P (Pause) and – (hyphen).
- No restriction is applied to emergency call numbers.
- For outside calls, enter a line access code (9, 81 through 88) before the phone number.
- Emergency dial location number (1-8) corresponds to [100] Flexible Numbering — No. 55-62.

Feature References

Section 3, Features,
Emergency Call

010 4.2 Manager Programming

Budget Management

Description

Assigns the charge limitation of a call on an extension basis.

Selection

- Jack number: KX-TD816 – **01 through 16**, **✳ (-1 / -2),**
  KX-TD1232 – **01 through 64**, **✳ (-1 / -2)**,
  (✳=all jacks, -1 = first part, -2 = second part)
- Charge limitation : **0 through 59999**

Default

All jacks – 0

Programming

1. Enter **010**.

```
Display:Charge Limit
```

2. Press **NEXT**.

```
Display:Jack NO?→
```

3. Enter a **jack number**.

To enter jack number 01, you can also press **NEXT**.

```
Display example: #01–1: 0
```

4. Enter a **charge limitation**.

To delete the charge limitation, press **CLEAR**.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Press **END**.

Conditions

- If the charge limitation is set to “0,” no restriction is applied.
- To assign all jack number to one selection, press the ✳ key in step 3. In this case, the display shows the contents programmed for Jack 01.

Feature References

Section 3, Features,
Budget Management

4.2 Manager Programming *011*

Charge Margin Rate

Description Assigns the margin rate of a telephone charge.

Selection Margin (%): **0 through 999**

Default 0%

Programming

1. Enter **011**.

```
Display: Charge Margin
```

2. Press **NEXT**.

```
Display: Margin: 0%
```

3. Enter a **charge margin rate**.

To delete the charge limitation, press **CLEAR**.

4. Press **STORE**.

5. Press **END**.

Conditions Telephone charge = Real charge x $\left(\frac{100 + \text{rate}}{100}\right)$

The telephone charge will be printed out when checking out.

Feature References **Section 3, Features,**
HOTEL APPLICATION – Check-In / Check-Out

Charge Display Selection

Description

Assigns the initial display format of charge fee on a display telephone.

Selection

in Meter / in Charge

Default

in Meter

Programming

1. Enter **120**.

```
Display: Charge Meter
```

2. Press **NEXT**.

```
Display example: in Meter
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

- This programming is only effective when you select for charge (SMDR Output) by Program [815] “SMDR Output Mode.”
- This programming will also determine the print-out format of the charge fee reference.

Feature References

Section 3, Features,
Charge Fee Reference
Display, Call Information
Station Message Detail Recording (SMDR)

Assignment of Denomination

Description Assigns the Denomination required for your country.

Selection **2 characters (Max.)**

Default none

Programming

1. Enter **121**.

```
Display: Denomination
```

2. Press **NEXT**.

```
Display example: Denomi.: KC
```

3. Enter a **0-9, ✳, #, SELECT, CLEAR,** ◀ or none.

To change the current entry, press **CLEAR** and the new characters.

To enter characters, see Section 4.1.3 “Entering Characters.”

4. Press **STORE**.

5. Press **END**.

Conditions

- If more than two digits are entered, they are ignored.

Feature References **Section 3, Features,**
Display, Call Information

Charge Verification Assignment

Description

Assigns the extension which is allowed to refer or clear for the call information on the extension, CO line, account code, and the total.

Selection

- Jack number: KX-TD816 – **01 through 16**, ✱ (✱=all jacks)
  KX-TD1232 – **01 through 64**, ✱ (✱=all jacks)
- **Enable / Disable**

Default

All jacks – Enable

Programming

1. Enter **122.**

```
Display:Charge Refer Ext
```

2. Press **NEXT**.

```
Display:Jack NO?→
```

3. Enter a **jack number**.

To enter jack number 01, you can also press **NEXT**.

```
Display example: #01:Enable
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Press **END**.

Conditions

- In the case of KX-TD1232, Jack numbers 01 through 32 are for the Master System and 33 through 64 are for the slave.
- To assign all jack numbers to one selection, press the ✱ key in step 3. In this case, the display shows the contents programmed for Jack 01.

Feature Reference

Section 3, Features,
Charge Fee Reference

Charge Verification ID Code Set

Description Assigns an ID code required to refer the charge information.

Selection **4 digits (0000 through 9999)**

Default 1234

Programming

1. Enter **123**.

`Display: Charge ID Code`

2. Press **NEXT**.

`Display example: Code: 1234`

3. Enter an **ID code**.

To delete the current entry, press **CLEAR**.

4. Press **STORE**.

5. Press **END**.

Conditions None

Feature Reference **Section 3, Features,**
Charge Fee Reference

Hotel Application

Description Assigns whether the hotel application is enabled or disabled.

Selection **Disable / Enable**

Default Disable

Programming

1. Enter **124**.

```
Display: Hotel Apply Asn
```

2. Press **NEXT**.

```
Display example: Hotel : Disable
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions If “Enable” is selected, the menu “Hotel” is displayed on the operator extension’s KX-T7235 and the “Check–In / Check–Out” feature is available.

Feature Reference **Section 3, Features,**
HOTEL APPLICATION

User Password

Description

Assigns the password required for entering the User Programming mode.
In the User Programming Mode, any display proprietary telephone user in the system can set the following programs:

[000] Date and Time Set
[001] System Speed Dialing Number Set
[002] System Speed Dialing Name Set
[003] Extension Number Set
[004] Extension Name Set
[005] Flexible CO Button Assignment
[006] Operator / Manager Extension Assignment
[007] DSS Console Port and Paired Telephone Assignment
[008] Absent Messages
[009] Emergency Dial Number Set
[010] Budget Management
[011] Charge Margin Rate

Selection

Password: **4 through 7 digits**

Default

1234

Programming

1. Enter **125**.

```
Display: User Password
```

2. Press **NEXT**.

```
Display example: Password:1234
```

3. Enter a **password**.

To change the current entry, press **CLEAR** and enter the new password.

4. Press **STORE**.

5. Press **END**.

Conditions

- The password can be from four to seven digits long. Valid numbers are from **0 to 9**.
- If less than four digits are entered, they will not be stored.
- You cannot leave the entry empty.

Feature Reference —User Manual

Section 3, Features,
User Programming Mode

216 4.4 Timer Programming

Message Waiting Ring Interval Time

Description

Sets the Message Waiting ring interval time for a single line telephone.

Selection

Time (minutes) : **0 through 64**

Default

10 min

Programming

1. Enter **216**.

```
Display: MW Ring Time
```

2. Press **NEXT**.

```
Display example: Interval: 10 min
```

3. Enter the **time**.

To change the current entry, press **CLEAR** and enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

When the interval time is set to “0,” the telephone does not ring for Message Waiting notification.

Feature References

Section 3, Features,
Message Waiting

Timed Reminder Alarm Repeat Times

Description Sets the number of times Timed Reminder alarm is tried.

Selection Number of times : **1 through 5**

Default 3 times

Programming

1. Enter **217**.

```
Display: Alarm Times
```

2. Press **NEXT**.

```
Display example: Attempt:3
```

3. Enter the **time**.

To change the current entry, press **CLEAR** and enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions One attempt is equivalent to 30 seconds.

Feature References **Section 3, Features,**
Timed Reminder

Timed Reminder Alarm Interval Time

Description Sets the Timed Reminder alarm interval time.

Selection Time (seconds) : **30 through 240**

Default 60 sec

Programming

1. Enter **218**.

```
Display: Alarm Interval
```

2. Press **NEXT**.

```
Display example: Interval: 60 sec
```

3. Enter the **time**.

To change the current entry, press **CLEAR** and enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions None

Feature References **Section 3, Features,**
Timed Reminder

4.6 CO Line Programming *417*

CO Line Name Assignment

Description

Used to name CO lines. The preset name is shown on a display proprietary telephone when an incoming outside call is placed to the telephone.

Selection

- CO line number:
  KX-TD816 – **01 through 08**, ✻ (✻=all CO lines)
  KX-TD1232 – **01 through 24**, ✻ (✻=all CO lines)
- Name: **10 characters (max.)**

Default

All CO lines – Not stored

Programming

1. Enter **417**.

```
Display: CO Line Name
```

2. Press **NEXT**.

```
Display: CO Line NO?→
```

3. Enter a **CO line number**.

To enter CO line number 01, you can also press **NEXT**.

```
Display example: CO01:Not Stored
```

4. Enter a **name**.

For entering characters, see Section 4.1.3 “Entering Characters.”
To delete the current entry, press **CLEAR**.
To change the current entry, press **CLEAR** and enter the new name.

5. Press **STORE**.

6. To program another CO line, press **NEXT** or **PREV**, or **SELECT** and the desired **CO line number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- In the case of KX-TD1232, CO01 through CO12 are for the Master System and CO13 through CO24 are for the Slave, if available.
- There is a maximum of 24 names. Each name has a maximum of 10 characters.
- To assign all CO lines to one selection, press the ✻ key in step 3. In this case, the display shows the contents programmed for CO01.

Feature References

Section 3, Features,
CO Incoming Call Information Display
Display, Call Information

ISDN Line Number Assignment

Description

Assigns your telephone number of the ISDN network line. Your telephone number is informed to the called party with the CLIP (Calling Line Identification Presentation) feature offered by the ISDN network service.

Selection

- CO line number: KX-TD816 – **05 through 08**
  KX-TD1232 – **09 through 12, 21 through 24**
- Telephone number: **16 digits (max.)**

Default

All CO lines – Not stored

Programming

1. Enter **418**.
`Display: ISDN CO NO.`

2. Press **NEXT**.
`Display: CO Line NO?→`

3. Enter a **CO line number**.
To enter CO line number 05 for KX-TD816 or 09 for KX-TD1232, you can also press **NEXT**.
`Display example: CO09:Not Stored`

4. Enter the **telephone number**.
To delete the current entry, press **CLEAR**. To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another CO line, press **NEXT** or **PREV**, or **SELECT** and the desired **CO line number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- In the case of KX-TD1232, CO09 through CO12 are for the Master System and CO21 through CO24 are for the Slave, if available.
- To display parts of the number which have scrolled off the display, press ➡ or ⬅ .
- Your telephone number is informed to the called party if outgoing CLIR feature is disabled for the ISDN line by program [419] “ISDN Outgoing CLIR Service Assignment.”

Feature References

Section 3, Features,
CO Incoming Call Information Display
CO Incoming Call Information Log
Direct Dialing In (DDI)

ISDN Outgoing CLIR Service Assignment

Description

Assigns whether ISDN CLIR (Calling Line Identification Restriction) service is enabled or disabled for outgoing outside calls. If disabled, the subscriber's number of your system is informed to the called party.

Selection

- CO line number:
  KX-TD816 – **05 through 08**, ✱ (✱=all CO lines)
  KX-TD1232 – **09 through 12, 21 through 24**, ✱ (✱=all CO lines)
- **Enable / Disable**

Default

All CO lines – Enable

Programming

1. Enter **419**.

```
Display: ISDN CLIR Send
```

2. Press **NEXT**.

```
Display: CO Line NO?→
```

3. Enter a **CO line number**.

To enter CO line number 05 for KX-TD816 or 09 for KX-TD1232, you can also press **NEXT**.

```
Display example: CO09:Enable
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another CO line, press **NEXT** or **PREV**, or **SELECT** and the desired **CO line number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- In the case of KX-TD1232, CO09 through CO12 are for the Master System and CO21 through CO24 are for the Slave, if available.
- To assign all CO lines to one selection, press the ✱ key in step 3. In this case, the display shows the contents programmed for CO05 (for KX-TD816) or CO09 (for KX-TD1232).
- Program [418] "ISDN Line Number Assignment" is used to store the subscriber's number of your system that is informed to the called party.

Feature References

Section 3, Features,
Calling Line Identification Restriction (CLIR)
CO Incoming Call Information Display

ISDN DDI Service Assignment

Description

Enables or disables ISDN DDI service per CO line.

Selection

- CO line number:
  KX-TD816 – **05 through 08**, ✱ (✱=all CO lines)
  KX-TD1232 – **09 through 12, 21 through 24**, ✱ (✱=all CO lines)
- **Enable / Disable**

Default

All CO lines – Disable

Programming

1. Enter **420**.

```
Display: ISDN DDI
```

2. Press **NEXT**.

```
Display: CO Line NO?→
```

3. Enter a **CO line number**.

To enter CO line number 05 for KX-TD816 or 09 for KX-TD1232, you can also press **NEXT**.

```
Display example: CO09:Disable
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another CO line, press **NEXT** or **PREV**, or **SELECT** and the desired **CO line number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- In the case of KX-TD1232, CO09 through CO12 are for the Master System and CO21 through CO24 are for the Slave, if available.
- To assign all CO lines to one selection, press the ✱ key in step 3. In this case, the display shows the contents programmed for CO05 (for KX-TD816) or CO09 (for KX-TD1232).

Feature References

Section 3, Features,
Direct Dialling In (DDI)

Pay-Tone Assignment

Description

Enables Pay-Tone for the CO lines.

Selection

- CO line number:
  KX-TD816 – **01 through 08**, ✻ (✻=all CO lines)
  KX-TD1232 – **01 through 24**, ✻ (✻=all CO lines)
- **Enable / Disable**

Default

All CO lines – Disable

Programming

1. Enter **423**.
`Display: Pay-Tone Asn`

2. Press **NEXT**.
`Display: CO Line NO?→`

3. Enter a **CO line number**.
To enter CO line number 01, you can also press **NEXT**.
`Display example: CO01:Disable`

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another CO line, press **NEXT** or **PREV**, or **SELECT** and the desired **CO line number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- An optional Pay Tone Card (KX-TD189) must be installed on CO board to receive the Pay-Tone.
- In the case of KX-TD1232, CO01 through CO12 are for the Master System and CO13 through CO24 are for the Slave.
- To assign all CO lines to one selection, press the ✻ key in step 3. In this case, the display shows the contents programmed for CO01.

Feature References

Section 3, Features,
Display, Call Information
HOTEL APPLICATION

610 4.8 Extension Programming

ISDN DDI Number / Extension Number Transformation

Description

Used to convert a DDI number to an extension number in order to put an incoming DDI call to a specific extension.

Selection

- Jack number: KX-TD816 – **01 through 16 (-1 / -2)**,
  KX-TD1232 – **01 through 64 (-1 / -2)**,
  (-1 = first part, -2 = second part)
- DDI Number: **1 through 6 digits**

Default

All jacks – Not stored

Programming

1. Enter **610**.

```
Display: EXT. DDI NO.
```

2. Press **NEXT**.

```
Display: Jack NO?→
```

3. Enter a **jack number**.

To enter jack number 01, you can also press **NEXT**.

To select the second part (-2), press **NEXT** after entering a jack number.

```
Display: #01-1:001
```

4. Enter a **DDI number**.

To delete the current entry, press **CLEAR**.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 128 DDI numbers. Each DDI number can be one through six digits, consisting of **0 through 9**.
- In the case of KX-TD1232, jack numbers 01 through 32 are for the Master System and 33 through 64 are for the Slave, if available.
- For an explanation of jack numbering, see “Rotation of jack number” on page 4-7 of the Installation Manual.

Feature References

Section 3, Features,
Direct Dialing In (DDI)

ISDN DDI Number / Floating Number Transformation

Description

Used to convert a DDI number to an floating number in order to put an incoming DDI call to a specific floating station.

Selection

- Floating Station : KX-TD816 – **Operator / Pager 1**
  KX-TD1232 – **Operator / Pager 1 / Pager 2 / Pager 3 / Pager 4 / DISA 1/ DISA 2 / MODEM**
- DDI Number : **1 through 6 digits**

Default

All floating stations – Not stored

Programming

1. Enter **611**.

`Display: F.EXT. DDI NO.`

2. Press **NEXT** to program the operator.

`Display: Operator:`

3. Enter a **DDI number**.

To delete the current entry, press **CLEAR**.

4. Press **STORE**.

5. To program another floating station, press **NEXT** or **PREV** until and the desired floating station is displayed.

6. Repeat steps 3 through 5.

7. Press **END**.

Conditions

Each DDI number can be one through six digits, consisting of **0 through 9**.

Feature References

Section 3, Features,
Direct Dialing In (DDI)

SMDR Output Mode

Description

Assigns the SMDR Output Mode. There are two standards available – Regular and Charge.

Selection

Regular / Charge

Default

Regular

Programming

1. Enter **815**.

```
Display: SMDR Output Mode
```

2. Press **NEXT**.

```
Display example: SMDR:Regular
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

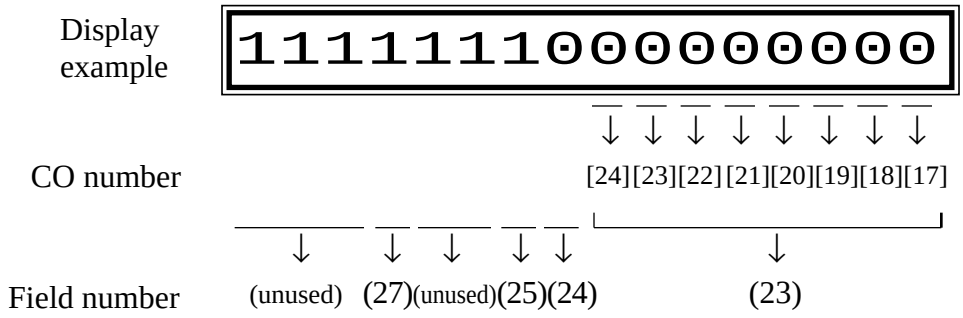
- Select the Output Mode used by your SMDR.
- If you assign for Charge, you can select the display in Meter / in Charge through Program [120] “Charge Display Selection.”

Feature References

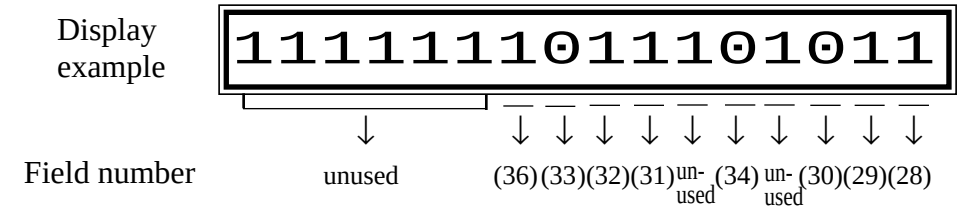
Section 3, Features,
Station Message Detail Recording (SMDR)

Description Field (27) is added to Area 4, (28) through (33) are added to Area 5 and (35) is added to Area 6.

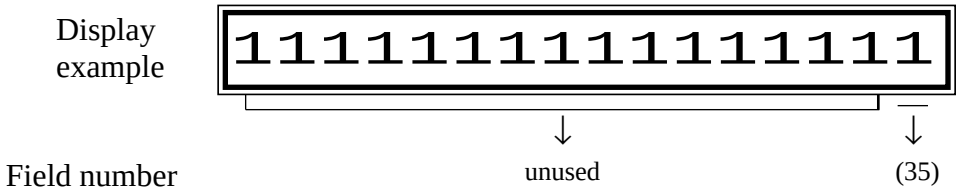
Area 4 KX-TD1232 – [17] through [24] below match CO lines 17 through 24:



Area 5



Area 6



Explanation for Area 4

Field	Description	Selection	Default	References
(27)	Enables or disables the CO pulse feedback tone when a dialed number is sent to the line.	**0** : disable **1** : enable	1	None

Explanation for Area 5 and 6

Field	Description	Selection	Default	Reference
(28)	ISDN Layer 1 active mode	**0** : By call **1** : Permanent	1	None
(29)	ISDN Data Link mode	**0** : By call **1** : Permanent	1	None
(30)	ISDN TEI mode	**0** : Fix (0) **1** : Automatic	0	None
(31)	In the day mode, selects the destination when the incoming DDI number is a floating number of the operator.	**0** : DIL 1:N **1** : Operator	1	Direct Dial In (DDI)
(32)	In the night mode, selects the destination when the incoming DDI number is a floating number of the operator.	**0** : DIL 1:N **1** : Operator	1	Direct Dial In (DDI)
(33)	Assigns whether the new page is ejected or not when the Hotel Application is printed out by SMDR.	**0** : Disable **1** : Enable	0	Hotel Application
(34)	Assigns the reference mode whether the DDI call number of ISDN shows the whole number or one digit at a time.	**0** : whole number **1** : one digit at a time	0	Direct Dial In (DDI)
(35)	Sets the time after terminating the OGM.	**0** : 0 sec. **1** : 5 sec.	1	DISA OGM
(36)	Enables or disables the SMDR printout for Timed Reminder when it starts and it is not answered.	**0** : Disable **1** : Enable	1	SMDR for Timed Reminder

Selection

- Area code: **01** (area 1) **/ 02** (area 2) / **03** (area 3) / **04** (area 4) / **05** (area 5) / **06** (area 6) / **07** through **12** are reserved
- Field number : **01 through 36**
- Selection: See "**Selection**" shown above and on pages 4-127 through 4-129 in the main Installation Manual.

Default

See "**Default**" shown above and on pages 4-127 through 4-129 in the main Installation Manual.

For programming instruction, please refer to the program [990] "System Additional Information" in the main Installation Manual.

Changed Features

<table>
<tr><th>Feature Title</th><th>Section of the Manual</th><th>Revision</th></tr>
<tr><td>Direct Inward System Access (DISA)</td><td>Section 3</td><td>Disconnected after 5 seconds.

This timer can be changed to 0 second by program [990] “System Additional Information, Field (35).”</td></tr>
<tr><td>Display, Call Information</td><td>Section 3</td><td>This feature has been replaced with a new one. For details, refer to page 46.</td></tr>
<tr><td>Do Not Disturb (DND)</td><td>Section 3</td><td>Conditions
• DND also works for doorphone calls.</td></tr>
<tr><td>DSS Console (KX-T7240 / KX-T7040)</td><td>Section 3</td><td>If a port connected to a DSS Console is programmed as a XDP jack, a SLT can be connected to the port in parallel.</td></tr>
<tr><td>Message Waiting</td><td>Section 3</td><td>This feature has been replaced with a new one. For details, refer to page 47.</td></tr>
<tr><td>Operator</td><td>Section 3</td><td>Both operators (1 and 2) have the ability to perform all operator service features.</td></tr>
<tr><td>Station Message Detail Recording (SMDR)</td><td>Section 3</td><td>This feature has been replaced with a new one. For details, refer to page 48.</td></tr>
<tr><td>[001] System Speed Dialing Number Set</td><td>Section 4</td><td rowspan="2">These programs have been replaced with new ones. For details, refer to pages 52 through 54.</td></tr>
<tr><td>[002] System Speed Dialing Name Set</td><td>Section 4</td></tr>
<tr><td>[100] Flexible Numbering</td><td>Section 4</td><td>Feature Number List — Additional numbers
<table><tr><th>Number</th><th>Feature</th><th>Default</th></tr><tr><td>54</td><td>Reserved</td><td></td></tr><tr><td>55-62</td><td>Emergency call 1 through 8</td><td>none</td></tr><tr><td>63</td><td>Timed reminder, remote</td><td>7 ✳</td></tr><tr><td>64</td><td>CO incoming call information log mode</td><td>56</td></tr><tr><td>65</td><td>CO incoming call information log lock</td><td>57</td></tr><tr><td>66</td><td>Check-out ready</td><td>736</td></tr></table></td></tr>
</table>

FEATURE TITLE	SECTION OF THE MANUAL	REVISION
[109] Expansion Unit Type	Section 4	This program has been replaced with a new one. For details, refer to page 55.
[211] Dial Start Time	Section 4	**Default** 500 ms
[412] Pause Time	Section 4	**Default** All CO line groups — 4.5 sec
[413] Flash Time	Section 4	**Default** All CO line groups — 96 ms
[601] Class of Service	Section 4	This program has been replaced with a new one. For detail, refer to page 57.
[990] System Additional Information	Section 4	**Default** Field (17) — 0
		Default Field (26) — 0

Display, Call Information

Description

A display-type proprietary telephone shows the user the following call information:

Extension number and name
These are shown when calling or when called by an extension user and during an established intercom call.
A display example: `123: Smith`

Dialed telephone number
This is shown when dialing the telephone number.
A display example: `91234567890`

Number or name of the caller
These are shown when receiving an incoming outside call on ISDN network.
Display examples: `0712225555`
`JOHN WHITE`

CO line number and name
This is shown when receiving an outside call.
A display example: `CO03:AB COMPANY`

Charge Meter
This is shown during an established call.
A display example: `CO01:00005`

Charge Fee
This is shown during an established call.
A display example: `CO01:00001.15KC`

Call duration
This is shown during an established outside call. The display remains for five seconds after the call is finished.
A display example: `CO 02  0:02'28`

Conditions

- Extension numbers and names, and CO line names are programmable. If no name is stored, only the number is displayed.
- The display shows no intercom call duration.
- The outgoing outside call duration starts when the programmable timer expires.
- It is programmable to select the first display, meter or charge, by system programming. To alternate the display, press the FWD/DND button.

Programming References

Section 4, System Programming,
[003] Extension Number Set
[004] Extension Name Set
[120] Charge Display Selection

[121] Assignment of Denomination
[212] Call Duration Count Start Time
[417] CO Line Name Assignment
[423] Pay-Tone Assignment
Station Programming.....User Manual
Charge Fee Reference – New Rate Set

Feature References

Section 3, Features,
Charge Fee Reference

Operation References —User Manual

DPT Features,
Display Call Information

Message Waiting

Description

The system supports the ability to inform the called party of a waiting message. The user, with a MESSAGE button, knows there is a message if the LED of the MESSAGE button is lit red. Even if the button is not provided nor assigned, the called party hears a special dial tone, when he / she goes off-hook. Pressing the lit MESSAGE button also means to call back the extension that left the message or listen to the messages which are stored in the mailbox of a Voice Processing System.

Conditions

- For a proprietary telephone which is not provided with a MESSAGE button, a flexible CO button can be assigned as the MESSAGE button either by System or Station Programming.
- Cancelling a message can be performed from the extension setting it or from the extension receiving it.
- The system supports a maximum of 128 simultaneous messages.
- Messages are always left on the original extension. It is not sent to a Call Forwarding or Station Hunting destination.
- A single line telephone or KX-T7052 user will hear the ring tone as a notification, if he / she receives a message. It is programmable to set the interval of a ring tone by System Programming.

Programming References

Section 4, System Programming,
[005] Flexible CO Button Assignment
[100] Flexible Numbering, Message
[216] Message Waiting Ring Interval Time
[990] System Additional Information, Field (9)
Station Programming.....User Manual,
Flexible Button Assignment – Message Waiting (MESSAGE) Button

Feature References **Section 3, Features,**
Dial Tone, Distinctive — Voice Mail Integration

Operation References **DPT Features, SLT Features;**
—User Manual Message Waiting

Station Message Detail Recording (SMDR)

Description

Station Message Detail Recording (SMDR) automatically records detailed call information for outside calls. A printer connected to the EIA (RS-232C) port can be used to print incoming and outgoing outside calls as well as print a hard copy of System Programming. To print the call records, use the program [800] "SMDR Incoming / Outgoing Call Log Printout," which allows you to print out the following records:

- Records of all outgoing outside calls or outgoing toll calls.
- Record of incoming outside calls.

There are three types of the call record, which are the regular call record, the charge call record and the meter call record.

An example of a printed regular call record: When selected for the regular display by Program [815] "SMDR Output Mode."

Date	Time	Ext	CO	Dial Number	Duration	Acc code	CD
06/24/96	10:03AM	101	01	12345678901234567890123456789O	00:05'12	1234567890	
06/24/96	10:07AM	103	20	<INCOMING>	00:00'56		
06/24/96	10:08AM	104	10	<INCOMING>	00:00'20	431211	
06/24/96	10:08AM	105	10	<INCOMING>	00:10'01	431211	TR
06/24/96	10:09AM	280	14	10222P1-202-346-7890	00:09'18	001	FW
06/24/96	10:10AM	103	20	<INCOMING>	00:01'24		
06/24/96	10:11AM	280	12	<INCOMING>	00:00'24		
06/24/96	10:11AM	280	22	0924312111	00:03'02		D1
06/24/96	10:20AM	120	13	<INCOMING>	00:21'46		RM
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

An example of a printed charge call record: When selected for charge by Program [815] "SMDR Output mode" and selected for charge display by program [120] "Charge Display Selection."

Date	Time	Ext	CO	Dial Number	Duration	Cost	Acc code	CD
06/24/96	10:03AM	101	01	12345678901234567890	00:05'12	00382.81KC	1234567890	
06/24/96	10:07AM	103	20	<I>	00:00'56	00000.00KC		
06/24/96	10:08AM	104	10	<I>	00:00'20	00000.00KC	431211	
06/24/96	10:08AM	105	10	<I>	00:10'01	00000.00KC	431211	TR
06/24/96	10:09AM	280	14	10222P1-202-346-7890	00:09'18	00560.00KC	001	FW
06/24/96	10:10AM	103	20	<I>	00:01'24	00000.00KC		
06/24/96	10:11AM	280	12	<I>	00:00'24	00000.00KC		
06/24/96	10:11AM	280	22	0924312111	00:03'02	00128.00KC		D1
06/24/96	10:20AM	120	13	<I>	00:21'46	00000.00KC		
(1)	(2)	(3)	(4)	(5)	(6)	(9)	(7)	(8)

An example of a printed meter call record: When selected for charge by Program [815] "SMDR Output Mode" and selected for meter display by Program [120] "Charge Display Selection."

Date	Time	Ext	CO	Dial Number	Duration	Cost	Acc code	CD
06/24/96	10:03AM	101	01	12345678901234567890	00:05'12	00015	1234567890	
06/24/96	10:07AM	103	20	<I>	00:00'56	00000		
06/24/96	10:08AM	104	10	<I>	00:00'20	00000	431211	
06/24/96	10:08AM	105	10	<I>	00:10'01	00000	431211	TR
06/24/96	10:09AM	280	14	10222P1-202-346-7890	00:09'18	00520	001	FW
06/24/96	10:10AM	103	20	<I>	00:01'24	00000		
06/24/96	10:11AM	280	12	<I>	00:00'24	00000		
06/24/96	10:11AM	280	22	0924312111	00:03'02	00000		D1
06/24/96	10:20AM	120	13	<I>	00:21'46	01040		RM
(1)	(2)	(3)	(4)	(5)	(6)	(10)	(7)	(8)

Example of SMDR printout format:

Explanation

(1) Date : shows the date of the call as Day / Month / Year.
(2) Time : shows the end time of a call as Hour:Minute / AM or PM.
(3) Ext : shows the extension number, floating number, etc. that engaged in a call.
(4) CO : shows the CO line number used for the call.
(5) Dial Number
Outgoing call: shows the other party's telephone number (Regular call record : Max. 30 digits, Charge or Meter call record : Max. 20 digits). Valid digits are 0 through 9, ✳, #, P (if PAUSE button is pressed), or the mark "=" (if a host PBX access code is entered).
Received call: shows <INCOMING> and <I>.
(6) Duration : shows the duration of the call as Hours / Minutes / Seconds.
(7) Acc Code (Account Code): shows the account code appended to the call.
(8) CD (Condition Code): shows call handling type with the following codes:
TR: Transfer
FW: Call Forwarding to CO Line
*D0: Non Security CO Line Access using DISA
*D1 through D4: DISA User Codes 1 through 4
RM: Remote access to a modem
To print out the record of System Programming items that have been assigned, use the program [802] "System Data Printout."
(9) Cost : shows the charge.
(10) Cost : shows the meter.

Conditions

- Connect a printer provided with an EIA (RS-232C) interface to the EIA (RS-232C) connector located on the main unit.
- When programmed for outgoing toll calls only, printing occurs only for calls which start with the numbers stored in any Denied Code Table from levels 2 to 6. If ARS is employed, not the user-dialed but the modified number is checked against these tables.
- This system can store information up to 100 calls. If more calls are originated or received, previous records are deleted starting from the oldest one.
- This data is not deleted when you reset the system.

- If the system clock is not set by System Programming or if the calendar IC is out of order, the date and time is not printed out.
- If FLASH Signal is manually sent out during a conversation, the call record is printed and a new record is started.

Connection References

Section 2, Installation,
2.3.10 Printer Connection

Programming References

Section 4, System Programming,
[000] Date and Time Set
[120] Charge Display Selection
[212] Call Duration Count Start Time
[800] SMDR Incoming / Outgoing Call Log Printout
[801] SMDR Format
[802] System Data Printout
[806]–[807] EIA (RS-232C) Parameters
[815] SMDR Out put Mode

Feature References

None

Operation References

Not applicable.

001 4.2 Manager Programming

System Speed Dialing Number Set

Description

Used to program the System Speed Dial numbers. These numbers are available to all extension users. There are 500 numbers, from 000 to 499.

Selection

- Speed dial number: **000 through 499**
- Telephone number: **24 digits (max.)**

Default

All speed dial numbers – Not stored

Programming

1. Enter **001**.

`Display: SPD Number Set`

2. Press **NEXT**.

`Display: SPD Code?→`

3. Enter a **speed dial number**.

To enter speed dial number 000, you can also press **NEXT**.

`Display example: 000: Not Stored`

4. Enter a **telephone number**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another speed dial number, press **NEXT** or **PREV**, or **SELECT** and the desired speed dial number.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 500 speed dial numbers. Each speed dial number has a maximum of 24 digits. The valid characters are **0 through 9, ✳, and # keys, FLASH, PAUSE, SECRET and – (hyphen) buttons**.
  - – To store the flash signal, press **FLASH**.
    Note: The stored flash will be in effect only during an established call. (Refer to Section 3 “External Feature Access.”)
  - – To store a hyphen, press the “**–**” button.

System Speed Dialing Number Set (contd.)

– To store a pause, press **PAUSE**.
(Refer to Section 3 “Pause Insertion, Automatic.”)
– To store the feature number to convert pulse signals to DTMF signals, press the ✳# keys.
(Refer to Section 3 “Pulse to Tone Conversion.”)
– To prevent the display of all or part of the number, press **SECRET** before and after confidential parts of the number. The **SECRET** button must always be entered in a pair, or your entry is not stored.
(Refer to Section 3 “Secret Dialing.”)

- If you are storing an external number, include the line access code (default=9, 81 through 88) before the number. When dialing, pause is automatically inserted after the code.
- If you are storing an account code, enter the account code before the line access code. (Refer to Section 3 “Account Code Entry.”)
- If you are storing a number for CO Incoming Call Information Display with name, enter “–” (hyphen) after the line access code. The system starts to compare the calling party’s number with the System Speed Dialing Number stored after “–.” Example : 9-12345678
(Refer to Section 3 “CO Incoming Call Information Display.”)
- It is possible to store a number consisting of 25 digits or more by storing it in two speed dial numbers. A line access code should not be stored in the second speed dial number.
- To go to another speed dial number in steps 3 through 6, press **SELECT** and start with step 3.
- To display parts of the number which have scrolled off the display, press ➡ or ⬅ .
- Program [002] “System Speed Dialing Name Set” is used to give names to speed dial numbers.

Feature References

Section 3, Features,
Special Display Features for KX-T7235 — System Speed Dialing
System Speed Dialing

002 4.2 Manager Programming

System Speed Dialing Name Set

Description

Assigns names to the system speed dial numbers assigned in program [001] “System Speed Dialing Number Set.” The large display telephone (KX-T7235) shows the stored name when performing System Speed Dialing.

Selection

- Speed dial number: **000 through 499**
- Name: **10 characters (max.)**

Default

All speed dial numbers – Not stored

Programming

1. Enter **002**.

`Display: SPD Name Set`

2. Press **NEXT**.

`Display: SPD Code?→`

3. Enter a **speed dial number**.

To enter speed dial number 000, you can also press **NEXT**.

`Display example: 000: Not Stored`

4. Enter a **name**.

For entering characters, see Section 4.1.3 “Entering Characters.”
To delete the current entry, press **CLEAR**.
To change the current entry, press **CLEAR** and the new name.

5. Press **STORE**.

6. To program another speed dial number, press **NEXT** or **PREV**, or **SELECT** and the desired **speed dial number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Speed dial numbers are programmed in program [001] “System Speed Dialing Number Set.”
- There is a maximum of 500 names. Each name has a maximum of 10 characters.
- To go to another speed dial number at steps 3 through 6, press **SELECT** and start with step 3.

Feature References

Section 3, Features,
Special Display Features for KX-T7235 — System Speed Dialing

Expansion Unit Type

Description

Assigns the type of expansion units to be used in the system. This allows the system to identify the unit in each expansion location.

Selection

KX-TD816
- Areas 1; 2 = **C (4CO) / S (2S0) / E (EXT)**

KX-TD1232
- **Master / Slave**
- Areas 1; 2; 3 = **C (4CO) / S (2S0) / E1 (EXT1) / E2 (EXT2)**

Default

KX-TD816: C; E
KX-TD1232: Master and Slave — C; E1; E2

Programming

KX-TD816

1. Enter **109**.

```
Display: Expansion Card
```

2. Press **NEXT**.

```
Display example: C; E
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press ➡ .

5. Keep pressing **SELECT** until the desired selection is displayed.

6. Press **STORE**.

7. Press **END**.

KX-TD1232

1. Enter **109**.

```
Display: Expansion Card
```

2. Press **NEXT** to program the Master System.

To program "Slave," press **NEXT** twice.

```
Display example: Master.: C; E1; E2
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press ➡ .

5. Keep pressing **SELECT** until the desired selection is displayed.

6. Repeat steps 4 and 5 until all the required entries are completed.

Expansion Unit Type (contd.)

7. Press **STORE**.

If only one system is in operation, go to step 8.

8. Press **NEXT** to program the Slave System.

```
Display example: Slave: C; E1; E2
```

9. Repeat steps 3 through 7.

10. Press **END**.

Conditions

- There are two expansion areas in KX-TD816, areas 1 and 2 from bottom to top. One 8-Station Line Unit and either one 4-CO Line Unit or 2-ISDN S0 Line Unit can be installed.
- There are three expansion areas in each system for KX-TD1232, areas 1, 2 and 3 from bottom to top. Up to two 8-Station Line Units and either one 4-CO Line Unit or 2-ISDN S0 Line Unit can be installed in each system.
- In case of starting the system for the first time or System Data Clear, the application for location will adapt the practical installation instead of system default setting.
- If the Slave System is out-of-service of KX-TD1232, skip steps 8 and 9.
- After changing the setting, unplug the system once and plug it in again. Otherwise, the previous setting will remain.

Feature References

Section 3, Features,
Module Expansion

Class of Service

Description

Programs each extension for a Class of Service (COS). The COS determines the call handling abilities of an extension. Primary and secondary COS numbers can be assigned per extension.

Selection

- Jack number : KX-TD816 – **01 through 16**, **✳ (-1 / -2)**,
  KX-TD1232 – **01 through 64**, **✳ (-1 / -2)**,
  (✳ = all jacks, -1 = first part, -2 = second part)
- COS number: **1 through 8**

Default

All jacks-1/2 – COS 1, COS 1

Programming

1. Enter **601**.

```
Display: COS Assign
```

2. Press **NEXT**.

```
Display: Jack NO?→
```

3. Enter a **jack number**.

To enter jack number 01, you can also press **NEXT**.
To select the second part (-2), press **NEXT** after entering a jack number.

```
Display example: #01-1:COS1, COS1
```

- **The Primary COS is blinking on the displays.**
  To change the Primary COS number, dial the number (1 - 8).

4. Press ➡ .

```
Display example: #01-1:COS1, COS1
```

- **The Secondary COS is blinking on the displays.**
  To change the Secondary COS number, dial the number (1 - 8).

5. Enter a **COS number**.

To change the current entry, enter the new number.

6. Press **STORE**.

7. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

8. Repeat steps 4 through 6.

9. Press **END**.

Class of Service (contd.)

Conditions

- There is a maximum of eight Classes of Service. Every extension must be assigned to a Class of Service and is subject to the COS Programming programs [500] through [508] and [991].
- In the case of KX-TD1232, jack numbers 01 through 32 are for the Master System and 33 through 64 are for the Slave, if available. Jack numbers in the out-of-service system are unacceptable.
- For an explanation of jack numbering, see “Rotation of jack number” on page 4-7.
- To assign all jacks to one COS, press the ✳ key in step 3. In this case, the display shows the contents programmed for Jack 01.
- Program [811] “DISA User Codes” is also used to assign a Class of Service to a DISA User Code.

Feature References

Section 3, Features,

Class of Service (COS)
HOTEL APPLICATION — Check-in / Check-out

Deleted Features

Feature Title	Section of the Manual
Caller ID	3 Features
Calling Party Control (CPC) Signal Detection	3 Features
[110] Caller ID Code Set	4.3 System Programming
[111] Caller ID Name Set	4.3 System Programming
[405] CPC Signal Detection Incoming Set	4.5 CO Line Programming
[406] Caller ID Assignment	4.5 CO Line Programming
[415] CPC Signal Detection Outgoing Set	4.5 CO Line Programming

Programming Tables

[001] - [002] System Speed Dialing Number / Name Set					
Item : SPD No.	Parameter for [001]: Telephone number (24 digits max.)	Parameter for [002]: Name (10 characters max.)	Item : SPD No.	Parameter for [001]: Telephone number	Parameter for [002]: Name
Default	All : Not stored				
000			036		
001			037		
002			038		
003			039		
004			040		
005			041		
006			042		
007			043		
008			044		
009			045		
010			046		
011			047		
012			048		
013			049		
014			050		
015			051		
016			052		
017			053		
018			054		
019			055		
020			056		
021			057		
022			058		
023			059		
024			060		
025			061		
026			062		
027			063		
028			064		
029			065		
030			066		
031			067		
032			068		
033			069		
034			070		
035			071		

Programming Tables

[001] - [002] System Speed Dialing Number / Name Set					
Item : SPD No.	Parameter for [001]: Telephone number (24 digits max.)	Parameter for [002]: Name (10 characters max.)	Item : SPD No.	Parameter for [001]: Telephone number	Parameter for [002]: Name
Default	All : Not stored				
072			108		
073			109		
074			110		
075			111		
076			112		
077			113		
078			114		
079			115		
080			116		
081			117		
082			118		
083			119		
084			120		
085			121		
086			122		
087			123		
088			124		
089			125		
090			126		
091			127		
092			128		
093			129		
094			130		
095			131		
096			132		
097			133		
098			134		
099			135		
100			136		
101			137		
102			138		
103			139		
104			140		
105			141		
106			142		
107			143		

Programming Tables

[001] - [002] System Speed Dialing Number / Name Set					
Item : SPD No.	Parameter for [001]: Telephone number (24 digits max.)	Parameter for [002]: Name (10 characters max.)	Item : SPD No.	Parameter for [001]: Telephone number	Parameter for [002]: Name
Default	All : Not stored				
144			180		
145			181		
146			182		
147			183		
148			184		
149			185		
150			186		
151			187		
152			188		
153			189		
154			190		
155			191		
156			192		
157			193		
158			194		
159			195		
160			196		
161			197		
162			198		
163			199		
164			200		
165			201		
166			202		
167			203		
168			204		
169			205		
170			206		
171			207		
172			208		
173			209		
174			210		
175			211		
176			212		
177			213		
178			214		
179			215		

Programming Tables

[001] - [002] System Speed Dialing Number / Name Set					
Item : SPD No.	Parameter for [001]: Telephone number (24 digits max.)	Parameter for [002]: Name (10 characters max.)	Item : SPD No.	Parameter for [001]: Telephone number	Parameter for [002]: Name
Default	All : Not stored				
216			252		
217			253		
218			254		
219			255		
220			256		
221			257		
222			258		
223			259		
224			260		
225			261		
226			262		
227			263		
228			264		
229			265		
230			266		
231			267		
232			268		
233			269		
234			270		
235			271		
236			272		
237			273		
238			274		
239			275		
240			276		
241			277		
242			278		
243			279		
244			280		
245			281		
246			282		
247			283		
248			284		
249			285		
250			286		
251			287		

[001] - [002] System Speed Dialing Number / Name Set					
Item : SPD No.	Parameter for [001]: Telephone number (24 digits max.)	Parameter for [002]: Name (10 characters max.)	Item : SPD No.	Parameter for [001]: Telephone number	Parameter for [002]: Name
Default	All : Not stored				
288			324		
289			325		
290			326		
291			327		
292			328		
293			329		
294			330		
295			331		
296			332		
297			333		
298			334		
299			335		
300			336		
301			337		
302			338		
303			339		
304			340		
305			341		
306			342		
307			343		
308			344		
309			345		
310			346		
311			347		
312			348		
313			349		
314			350		
315			351		
316			352		
317			353		
318			354		
319			355		
320			356		
321			357		
322			358		
323			359		

Programming Tables

[001] - [002] System Speed Dialing Number / Name Set					
Item : SPD No.	Parameter for [001]: Telephone number (24 digits max.)	Parameter for [002]: Name (10 characters max.)	Item : SPD No.	Parameter for [001]: Telephone number	Parameter for [002]: Name
Default	All : Not stored				
360			396		
361			397		
362			398		
363			399		
364			400		
365			401		
366			402		
367			403		
368			404		
369			405		
370			406		
371			407		
372			408		
373			409		
374			410		
375			411		
376			412		
377			413		
378			414		
379			415		
380			416		
381			417		
382			418		
383			419		
384			420		
385			421		
386			422		
387			423		
388			424		
389			425		
390			426		
391			427		
392			428		
393			429		
394			430		
395			431		

[001] - [002] System Speed Dialing Number / Name Set					
Item : SPD No.	Parameter for [001]: Telephone number (24 digits max.)	Parameter for [002]: Name (10 characters max.)	Item : SPD No.	Parameter for [001]: Telephone number	Parameter for [002]: Name
Default	All : Not stored				
432			466		
433			467		
434			468		
435			469		
436			470		
437			471		
438			472		
439			473		
440			474		
441			475		
442			476		
443			477		
444			478		
445			479		
446			480		
447			481		
448			482		
449			483		
450			484		
451			485		
452			486		
453			487		
454			488		
455			489		
456			490		
457			491		
458			492		
459			493		
460			494		
461			495		
462			496		
463			497		
464			498		
465			499		

Programming Tables

	[010] Budget Management							
Item : Jack No. (01-22)-1 -2	Selection		Item : Jack No. (22-44)-1 -2	Selection		Item : Jack No. (45-64)-1 -2	Selection	
	Enable	Disable		Enable	Disable		Enable	Disable
Default: all		✔	22-1			44-1		
all jacks			22-2			44-2		
01-1			23-1			45-1		
01-2			23-2			45-2		
02-1			24-1			46-1		
02-2			24-2			46-2		
03-1			25-1			47-1		
03-2			25-2			47-2		
04-1			26-1			48-1		
04-2			26-2			48-2		
05-1			27-1			49-1		
05-2			27-2			49-2		
06-1			28-1			50-1		
06-2			28-2			50-2		
07-1			29-1			51-1		
07-2			29-2			51-2		
08-1			30-1			52-1		
08-2			30-2			52-2		
09-1			31-1			53-1		
09-2			31-2			53-2		
10-1			32-1			54-1		
10-2			32-2			54-2		
11-1			33-1			55-1		
11-2			33-2			55-2		
12-1			34-1			56-1		
12-2			34-2			56-2		
13-1			35-1			57-1		
13-2			35-2			57-2		
14-1			36-1			58-1		
14-2			36-2			58-2		
15-1			37-1			59-1		
15-2			37-2			59-2		
16-1			38-1			60-1		
16-2			38-2			60-2		
17-1			39-1			61-1		
17-2			39-2			61-2		
18-1			40-1			62-1		
18-2			40-2			62-2		
19-1			41-1			63-1		
19-2			41-2			63-2		
20-1			42-1			64-1		
20-2			42-2			64-2		
21-1			43-1					
21-2			43-2					

Programming Tables

[009] Emergency Dial Number Set	
Item : Location No.	Parameter : 16 digits max., consisting of 0 – 9
	Default : all - Not Stored
1	
2	
3	
4	
5	
6	
7	
8	

[011] Charge Margin Rate	
Default	Parameter : 0 through 999
0%	%

[109] Expansion Unit Type (KX-TD816)	
Default	Parameter : C, S, E
C ; E	

[120] Charge Display Selection		
	Default	Selection
in Meter	✔	
in Charge		

[100] Flexible Numbering			
	Feature	Default	Parameter
54	Reserved	—	
55	Emergency dial number 1	—	
56	Emergency dial number 2	—	
57	Emergency dial number 3	—	
58	Emergency dial number 4	—	
59	Emergency dial number 5	—	
60	Emergency dial number 6	—	
61	Emergency dial number 7	—	
62	Emergency dial number 8	—	
63	Timed reminder, remote	7✳	
64	CO incoming call information log mode	56	
65	CO incoming call information log lock	57	
66	Check-out ready	736	
(Selection) 1 - 3 digits, (Valid Entries) 0 - 9, ✳, #			

[109] Expansion Unit Type (KX-TD1232)		
Default (Both)	Parameter: C, S, E1, E2	
	Master	Slave
C ; E1 ; E2		

[121] Assignment of Denomination	
Default	Parameter : 2 characters (max.)
Not Stored	

Programming Tables

	[122] Charge Verification Assignment				
Item : Jack No. (01 – 31)	Selection		Item : Jack No. (32 – 64)	Selection	
	Enable	Disable		Enable	Disable
Default: all	✔		32		
all jacks			33		
01			34		
02			35		
03			36		
04			37		
05			38		
06			39		
07			40		
08			41		
09			42		
10			43		
11			44		
12			45		
13			46		
14			47		
15			48		
16			49		
17			50		
18			51		
19			52		
20			53		
21			54		
22			55		
23			56		
24			57		
25			58		
26			59		
27			60		
28			61		
29			62		
30			63		
31			64		

[123] Charge Verification ID Code Set	
Default	Parameter: 4 digits (0000 through 9999)
1 2 3 4	

[124] Hotel Application		
	Default	Selection
in Meter		
in Charge	✔	

[125] User Password	
Default	Parameter : 4 – 7 digits, consisting of 0 – 9
1 2 3 4	

[216] Message Waiting Ring Interval Time	
Default	Parameter: Minute (0 – 64)
10 min.	min.

[217] Timed Reminder Alarm Repeat Times	
Default	Parameter: Number of times (1 – 5)
3 times	times

[218] Timed Reminder Alarm Interval Time	
Default	Parameter: Second (30 – 240)
60 sec	sec

Programming Tables

	[417] CO Line Name Assignment	[423] Pay-Tone Assignment		[418] ISDN Line Number Assignment	[419] ISDN Outgoing CLIR Service Assignment		[420] ISDN DDI Service Assignment	
Item : CO Line No.	Parameter : Name (10 characters max.)	Selection		Parameter : Telephone No. (16 digits max.)	Selection		Selection	
		Enable	Disable		Enable	Disable	Enable	Disable
Default : all	Not Stored		✔	Not Stored	✔			✔
all CO Lines								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

CO line no. for program [428], [419] and [420]:
KX-TD816 – 05 through 08
KX-TD1232 – 09 through 12, 21 through 24

Programming Tables

	[601] Class of Service							
Item : Jack No. (01-22)-1 -2	Parameter : Primary / Secondary COS no.(1-8)		Item : Jack No. (22-44)-1 -2	Parameter : Primary / Secondary COS no.(1-8)		Item : Jack No. (45-64)-1 -2	Parameter : Primary / Secondary COS no.(1-8)	
	Primary	Secondary		Primary	Secondary		Primary	Secondary
Default: all	1	1	22-1			44-1		
all jacks			22-2			44-2		
01-1			23-1			45-1		
01-2			23-2			45-2		
02-1			24-1			46-1		
02-2			24-2			46-2		
03-1			25-1			47-1		
03-2			25-2			47-2		
04-1			26-1			48-1		
04-2			26-2			48-2		
05-1			27-1			49-1		
05-2			27-2			49-2		
06-1			28-1			50-1		
06-2			28-2			50-2		
07-1			29-1			51-1		
07-2			29-2			51-2		
08-1			30-1			52-1		
08-2			30-2			52-2		
09-1			31-1			53-1		
09-2			31-2			53-2		
10-1			32-1			54-1		
10-2			32-2			54-2		
11-1			33-1			55-1		
11-2			33-2			55-2		
12-1			34-1			56-1		
12-2			34-2			56-2		
13-1			35-1			57-1		
13-2			35-2			57-2		
14-1			36-1			58-1		
14-2			36-2			58-2		
15-1			37-1			59-1		
15-2			37-2			59-2		
16-1			38-1			60-1		
16-2			38-2			60-2		
17-1			39-1			61-1		
17-2			39-2			61-2		
18-1			40-1			62-1		
18-2			40-2			62-2		
19-1			41-1			63-1		
19-2			41-2			63-2		
20-1			42-1			64-1		
20-2			42-2			64-2		
21-1			43-1					
21-2			43-2					

	[610] ISDN DDI Number / Extension Number Transformation				
Item : Jack No. (01-22)-1 -2	Parameter : DDI No. (1-6 digits) Default : all - Not Stored Change	Item : Jack No. (22-44)-1 -2	Parameter : DDI No. (1-6 digits) Default : all - Not Stored Change	Item : Jack No. (45-64)-1 -2	Parameter : DDI No. (1-6 digits) Default : all - Not Stored Change
01-1		23-1		45-1	
01-2		23-2		45-2	
02-1		24-1		46-1	
02-2		24-2		46-2	
03-1		25-1		47-1	
03-2		25-2		47-2	
04-1		26-1		48-1	
04-2		26-2		48-2	
05-1		27-1		49-1	
05-2		27-2		49-2	
06-1		28-1		50-1	
06-2		28-2		50-2	
07-1		29-1		51-1	
07-2		29-2		51-2	
08-1		30-1		52-1	
08-2		30-2		52-2	
09-1		31-1		53-1	
09-2		31-2		53-2	
10-1		32-1		54-1	
10-2		32-2		54-2	
11-1		33-1		55-1	
11-2		33-2		55-2	
12-1		34-1		56-1	
12-2		34-2		56-2	
13-1		35-1		57-1	
13-2		35-2		57-2	
14-1		36-1		58-1	
14-2		36-2		58-2	
15-1		37-1		59-1	
15-2		37-2		59-2	
16-1		38-1		60-1	
16-2		38-2		60-2	
17-1		39-1		61-1	
17-2		39-2		61-2	
18-1		40-1		62-1	
18-2		40-2		62-2	
19-1		41-1		63-1	
19-2		41-2		63-2	
20-1		42-1		64-1	
20-2		42-2		64-2	
21-1		43-1			
21-2		43-2			
22-1		44-1			
22-2		44-2			

[611] ISDN DDI Number / Floating Number Transformation	
Item : Floating Station	Parameter : DDI No. (1-6 digits)
	Default : all - Not Stored
	Change
Operator	
Pager 1	
Pager 2	
Pager 3	
Pager 4	
DISA 1	
DISA 2	
MODEM	

[815] SMDR Output Mode		
	Default	Selection
Regular	✔	
Charge		

[990] System Additional Information

AREA 04 [Fields 23-(17) through 23-(24), 24, 25 and 27]

Field	reserved			27	unused		25	24	23 | (24)	23 | (23)	23 | (22)	23 | (21)	23 | (20)	23 | (19)	23 | (18)	23 | (17)
Default	—	—	—	1	—	—	1	0	0	0	0	0	0	0	0	0
Selection																

AREA 05 [Fields 28 through 34 and 36]

Field	unused						36	33	32	31	un-used	34	un-used	30	29	28
Default	—	—	—	—	—	—	1	0	1	1	—	0	—	0	1	1
Selection																

AREA 06 [Field 35]

Field	unused															35
Default	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Selection																

Field

23-(17) : **CO17** : **0** (0 dB) / **1** (-3 dB)
23-(18) : **CO18** : **0** (0 dB) / **1** (-3 dB)
• : •
• : •
23-(23) : **CO23** : **0** (0 dB) / **1** (-3 dB)
23-(24) : **CO24** : **0** (0 dB) / **1** (-3 dB)
24 : **0** (prevent) / **1** (allow)
25 : **0** (prevent) / **1** (allow)
27 : **0** (disable) / **1** (enable)
28 : **0** (By call) / **1** (Permanent)
29 : **0** (By call) / **1** (Permanent)
30 : **0** (Fix) / **1** (Automatic)
31 : **0** (DIL 1:N) / **1** (Operator)
32 : **0** (DIL 1:N) / **1** (Operator)
33 : **0** (disable) / **1** (enable)
34 : **0** (whole number) / **1** (one digit at a time)
35 : **0** (0 sec.) / **1** (5 sec.)
36 : **0** (disable) / **1** (enable)

Note : Field numbers 23 – (9) (CO 09) through 23 – (24) (CO 24) are available for TD1232 only.

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