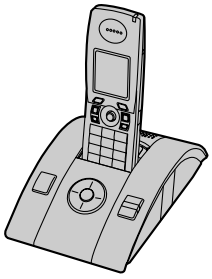
TCD820FX(e-e).book Page 1 Tuesday, September 13, 2005 9:10 AM

Panasonic



Operating Instructions

Digital Cordless Answering System

Model No. **KX-TCD820FX**

This unit is compatible with Caller ID and SMS. To use these features, you must subscribe to the appropriate service of your service provider.

Charge the batteries for about 7 hours before initial use.

Please read these operating instructions before using the unit and save them for future reference.

(For Czech and Slovakia)
This cordless telephone is possible to use according to General licence No.: GL-23/R/2001 (for Czech), VPR-7/2001 (for Slovakia).

TCD820FX(e-e).book Page 2 Tuesday, September 13, 2005 9:10 AM

Introduction

Thank you for purchasing a new Panasonic digital cordless phone.

For your future reference
Attach or keep original receipt to assist with any repair under warranty.

Serial No. (found on the bottom of the base unit)
Date of purchase
Name and address of dealer

To use this product in Czech or Slovakia, change the unit's region setting (page 41) to match your country.

Note:

- In the event of problems, you should contact your equipment supplier in the first instance.

Declaration of Conformity:

- Panasonic Communications Co., Ltd. declares that this equipment is in compliance with the essential requirements and other relevant provisions of Radio & Telecommunications Terminal Equipment (R&TTE) Directive 1999/5/EC.

  Declarations of Conformity for the relevant Panasonic products described in this manual are available for download by visiting:

  http://www.doc.panasonic.de

  Contact:

  Panasonic Services Europe

  a Division of Panasonic Marketing Europe GmbH

  Panasonic Testing Centre

  Winsbergring 15, 22525 Hamburg, Germany

Trademarks:

- Eatoni and LetterWise are trademarks of Eatoni Ergonomics, Inc.

TCD820FX(e-e).book Page 3 Tuesday, September 13, 2005 9:10 AM

Feature highlights

Infrared features

You can copy stored phonebook entries as well as picture and ringtone data (page 42). Infrared data transmission between the handset and other devices except GSM phones cannot be guaranteed.

USB features

By connecting the handset to your PC using the included USB cable, you can use your PC and the included USB GEAR software to create and edit phonebook entries, as well as send pictures and melodies stored in your PC to the handset.
For connection details, refer to the “Installation Guide for USB GEAR”.

Customise ringtones

You can record melodies from an audio device and use them as ringtones (page 31).

Voice changer

You can lower the pitch of your voice when you answer an outside call (page 17).

Baby monitor (additional handset required)

This feature allows you to listen in on a room where another handset is located, allowing you to easily monitor from different areas of the house (page 34).

TCD820FX(e-e).book Page 4 Tuesday, September 13, 2005 9:10 AM

Preparation

Accessory information 6
Important information 7
Controls and displays 8
Connections 12
Battery installation 12
Battery charge 13
Screen saver mode 13
Turning the power on/off. 14
Symbols used in this manual 14
Changing the unit's region settings 14
Changing the display language 14
Setting dialling mode (tone/pulse) 14
Setting the date and time 15

Making/Answering Calls

Making calls 16
Answering calls 18

Phonebooks

Handset phonebook 19
Shared phonebook. 23
Copying phonebook entries 25

Handset Settings

Guide to handset settings. 26
USB features 28
Media browser 28
Time settings 30
Ringer setup. 30
Display setup 33
Baby monitor (additional handset required). 34
Call options. 34
Other options 35

Base Unit Settings

Guide to base unit settings. 37
Ringer setup. 38
Call options. 38
Other options 40

Infrared

Copying saved data via infrared interface 42

Caller ID Service

Using Caller ID service. 44
Caller list 45
Voice mail service 46

SMS (Short Message Service)

Using SMS (Short Message Service). . .47
Turning SMS on 47
Storing/changing SMS message centre numbers 47
Sending a message 48
Receiving a message. 49
Guide to SMS settings 50

Answering System Features

Answering system 51
Turning the answering system on 51
Greeting message 51
Listening to messages 52
Recording a voice memo 53
Direct command operation using the handset 53
Remote operation. 54
Guide to answering system settings . . .55

Multi-unit Operation

Operating additional units 57
Registering a handset to a base unit . . .57
Intercom between handsets. 59
Transferring calls between handsets, conference calls 59

Useful Information

Using the belt clip. 60
Using an optional headset 60
Character entry 61
Error messages 64
Troubleshooting 65
Specifications 71
Conditions for usage (For Czech) 72
Declaration of conformity form (For Czech and Slovakia) 73

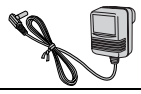
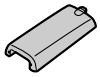
TCD820FX(e-e).book Page 5 Tuesday, September 13, 2005 9:10 AM

Index

Index. 74

Accessory information

Included accessories

AC adaptor PQLV19CE 	Telephone line cord 	Rechargeable batteries AAA (R03) size HHR-4EPT
Handset cover 	Belt clip 	Audio cable
USB cable 	Operating instructions 	Quick guide
Installation guide for USB GEAR 	CD-ROM*1 	

*1 Allows you to install the USB GEAR software on a compatible PC. This software allows you to send pictures and melodies from your PC to the handset, as well as create and edit phonebook items using your PC. Refer to the included “Installation Guide for USB GEAR” for installation details.
Portions of this software are based in part on the work of the Independent JPEG Group.

Additional/replacement accessories

Model No.	Description
P03P	2 rechargeable nickel metal hydride (Ni-MH) batteries
KX-TCA181FX	Additional Digital Cordless Handset
KX-TCA89EX	Headset
KX-A272	DECT repeater

TCD820FX(e-e).book Page 7 Tuesday, September 13, 2005 9:10 AM

Important information

General

- Use only the AC adaptor included with this product, noted on page 6.
- Do not connect the AC adaptor to any AC outlet other than a standard 220–240 V AC outlet.
- This product is unable to make calls when:
  - the portable handset battery(ies) need recharging or have failed.
  - there is a power failure.
  - the key lock feature is turned on.
  - the direct call feature is turned on (only the phone number stored in the unit as the direct call number can be called).
- Do not open the base unit or handset other than to replace the battery(ies).
- This product should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.
- Care should be taken that objects do not fall onto, and liquids are not spilled into, the unit. Do not subject this product to excessive smoke, dust, mechanical vibration or shock.

Environment

- Do not use this product near water.
- This product should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the unit and is easily accessible.

Warning:

- To prevent the risk of electrical shock, do not expose this product to rain or any other type of moisture.
- Unplug this unit from power outlets if it emits smoke, an abnormal smell or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised service centre.

Battery caution

- We recommend using the battery(ies) noted on page 6. **Use only rechargeable battery(ies).**
- Do not mix old and new batteries.
- Do not dispose of the battery(ies) in a fire, as they may explode. Check local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte from the battery(ies) is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) in accordance with the information provided in these operating instructions.
- Only use the included base unit (or charger) to charge the battery(ies). Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the battery(ies) to swell or explode.

TCD820FX(e-e).book Page 8 Tuesday, September 13, 2005 9:10 AM

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)

This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.
Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.
Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

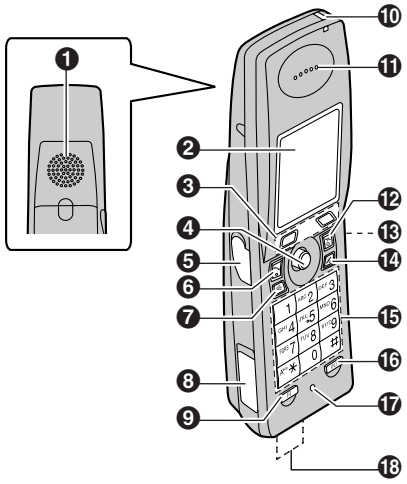
Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Controls and displays

Controls

Handset



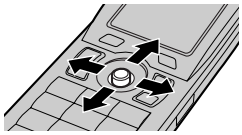
❶ **Speaker**
❷ **Display**
❸ **Soft keys**
❹ **Joystick**
❺ **Headset jack/Audio jack**
❻ **【】(Talk)**
❼ **【】(Speakerphone)**
❽ **USB cable jack**
❾ **【R】(Recall)**
❿ **Charge indicator/Ringer indicator**
⓫ **Receiver**

TCD820FX(e-e).book Page 9 Tuesday, September 13, 2005 9:10 AM

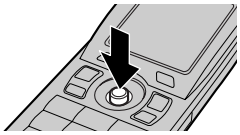
⓬【⏻】(Off/Power)
⓭ Infrared port
⓮【C/⊠】(Clear/Mute)
⓯ Dial keypad
⓰【INT】(Intercom)
⓱ Microphone
⓲ Charge contacts

Using the joystick

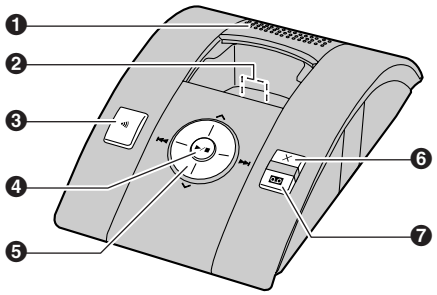
The handset joystick can be used to navigate through menus and to select items shown on the display, by pushing it up, down, left, or right.



It can also be used to select the centre soft key icon, by pressing down on the centre of the joystick.



Base unit



❶ Speaker
❷ Charge contacts
❸【•))】(Page)
❹【►/■】(Play/Stop)
❺ Navigator key:【∧】,【∨】,【|◀◀】,【▶▶|】
❻【×】(Erase)
❼【📼】(Answer on)/Answer on indicator

Displays

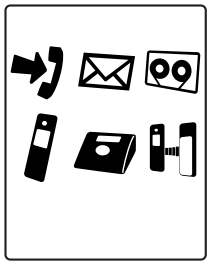
Display icons

Display icon	Meaning
	Within range of a base unit ● When flashing: Handset is searching for base unit. (out of range of base unit, handset is not registered to base unit, no power on base unit)
	Handset is accessing base unit. (intercom, paging, changing base unit settings, etc.)
	Handset is on an outside call.
	Missed call (Caller ID subscribers only; page 44)
	Answering system is on (page 51) and/or new messages have been recorded. (page 52)
	Answering system is full.
	Answering system will answer calls with a greeting message and caller message will not be recorded. (page 56)
	An audible call announcement has been recorded for this entry. (page 23)
	Batteries are charging.
	Battery strength
	Alarm is on. (page 30)

Display icon	Meaning
	Voice enhancer is set to high or low tone. (page 17)
	Voice changer is on. (page 17)
	Ringer volume is off. (page 30)
	Direct call is on. (page 34)
	Night mode is on. (page 32)
	New SMS message received (SMS users only; page 49)
	Data is attached to this SMS message. (page 49)
	A picture is attached to this SMS message. (page 49)
	A melody is attached to this SMS message. (page 49)
	A phonebook entry (name and phone number information) is attached to this SMS message. (page 49)
	Displayed when writing an SMS message. (SMS users only; page 48)
	SMS memory is full. (SMS users only)
	Displayed when the USB cable is connected.
IN USE	Line or answering system is being used by another handset or the base unit.
	More information is available. Move the joystick to display more information.

Menu icons

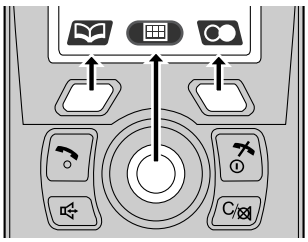
When in standby mode, pressing down on the centre of the joystick reveals the handset's main menu. From here you can access various features and settings.



Menu icon	Menu/feature
	`Caller List`
	`SMS` (Short Message Service)
	`Answer System`
	`Handset Setup`
	`Base Unit Setup`
	`Infrared`

Soft keys

The handset features two soft keys and a joystick. By pressing a soft key, or by pressing the centre of the joystick, you can select the feature or operation indicated by the soft key icon shown directly above it.



TCD820FX(e-e).book Page 11 Tuesday, September 13, 2005 9:10 AM

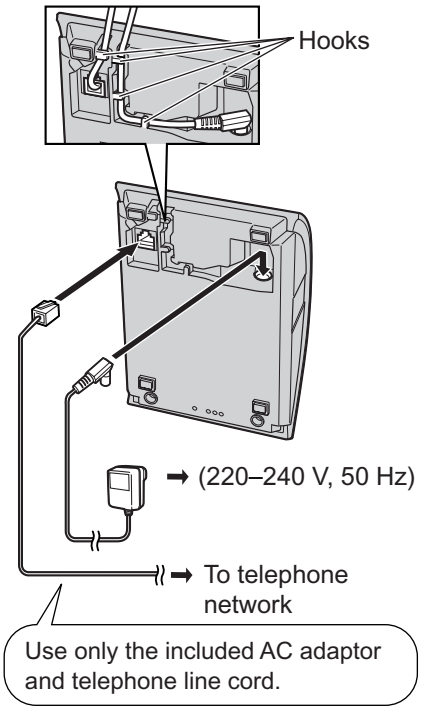
Soft key icons

Soft key icon	Action
	Returns to the previous screen.
	Allows you to make an intercom calls.
	Displays the menu.
	Accepts the current selection.
	Displays a previously dialled phone number.
	Opens the handset phonebook.
	Opens the shared phonebook.
	Displays the phonebook search menu.
	Turns the key lock feature off.
	Switches between AM, PM, and 24-hour time entry.
	Displayed when LetterWise® character entry is selected.
	Displayed when alphabet character entry is selected.
	Displayed when numeric character entry is selected.
	Displayed when Greek character entry is selected.
	Displayed when extended 1 character entry is selected.
	Displayed when extended 2 character entry is selected.
	Displayed when Cyrillic character entry is selected.
	Turns the answering system on/off.
	Starts recording.

Soft key icon	Action
	Stops recording or playback. Stops copying or receiving data via infrared interface.
	Inserts a dialling pause.
	Erases the selected item.
	Displays the picture lists.
	Displays the selected phonebook entry.
	Displays the picture.
	Goes to the next screen.
	Establishes a conference call.
	Opens the attached file.
	Saves the handset phonebook entry or the data received via infrared interface.
	Selects the highlighted item.
	Inserts a character.

Connections

When the AC adaptor is connected, a short beep will be heard. If it is not heard, check the connections.



Important:

- For information on connecting the handset to a PC, refer to the included “Installation Guide for USB GEAR”.

Note:

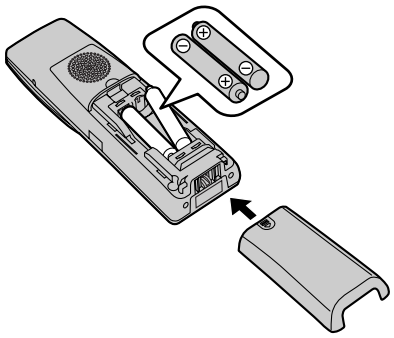
- Never install telephone wiring during a lightning storm.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

Location

- For maximum distance and noise-free operation, place your base unit:
  - away from electrical appliances such as TVs, radios, personal computers or other phones.
  - in a convenient, high and central location.

Battery installation

Insert the batteries negative (⊖) terminal first. Close the handset cover.



Note:

- Use only rechargeable batteries (page 6).

Battery replacement

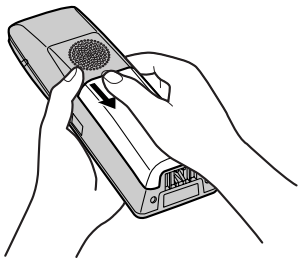
Important:

- We recommend the use of Panasonic rechargeable batteries noted on page 6.

Press the notch on the handset cover firmly and slide it in the direction of the arrow.

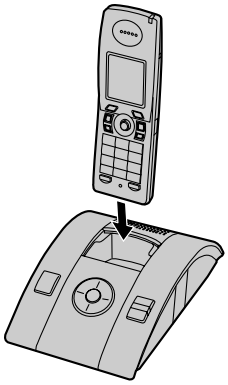
TCD820FX(e-e).book Page 13 Tuesday, September 13, 2005 9:10 AM

Remove the old batteries positive (⊕) terminal first and install the new ones.



Battery charge

Place the handset on the base unit for about 7 hours before initial use.
When charging, ↻ and battery strength icon are alternately shown on the display. When the batteries are fully charged, 🔋 remains on the display.



Note:

- It is normal for the handset to feel warm during charging.
- If you want to use the unit immediately, charge the batteries for at least 15 minutes.
- Clean the charge contacts (page 8) of the handset and base unit with a soft, dry cloth once a month, otherwise the batteries may not charge properly. Clean more often if the unit is exposed to grease, dust or high humidity.

Battery strength

Battery icon	Battery strength
🔋	High
🔋	Medium
🔋	Low When flashing: Needs to be charged.

Battery life

Panasonic Ni-MH batteries (700 mAh)

Operation	Operating time
While in use (talking)	14 hours max.
While not in use (standby)	150 hours max.

Note:

- Battery operating time may be shortened over time depending on usage conditions and ambient temperature.

Screen saver mode

The backlight will turn off completely after 1 minute of inactivity if the handset is not on the base unit, then the soft key icons will be displayed in black and white.

To use the handset when it is in screen saver mode, first press 【↷⏻】 to turn the display on again.

TCD820FX(e-e).book Page 14 Tuesday, September 13, 2005 9:10 AM

Turning the power on/off

Power on

Press 【↷⏻】 until a short beep sounds.

Power off

Press 【↷⏻】 for about 2 seconds.

Symbols used in this manual

Symbol	Meaning
▣	Press ▣ (centre of joystick).
→	Proceed to the next operation.
OK	Press OK (centre of joystick).
📞	Select 📞 (caller list menu icon).
✉	Select ✉ (SMS settings menu icon).
📼	Select 📼 (answering system settings menu icon).
📱	Select 📱 (handset settings menu icon).
🖥	Select 🖥 (base unit settings menu icon).
📡	Select 📡 (infrared menu icon).
“ ”	**Example: “Time Settings”** Push the joystick up or down to select the words in quotations shown on the display.

Changing the unit’s region settings

You can set the unit to use settings that match your country (page 41). The display language and other settings will change accordingly.

Changing the display language

16 display languages are available.

You can select “Deutsch”, “English”, “Magyar”, “Polski”, “slovensky”, “ČeŠtina”, “Hrvatski”, “Slovenscina”, “Eesti”, “LIETUVIŠKAI”, “LatvieŠu”, “Română”, “БЪЛГАРСКИ”, “Srpski”, “МАКЕДОНСКИ”, or “Shqiptar”.

1 【↷⏻】 → ▣ → 📱 → OK
2 Push the joystick down 3 times. → OK
3 Push the joystick down 3 times. → OK
4 Select the desired language. → OK → 【↷⏻】

Setting dialling mode (tone/pulse)

Change the dialling mode depending on your telephone line service.
“Tone”: Select when you have a touch tone service.
“Pulse”: Select when you have rotary or pulse service.

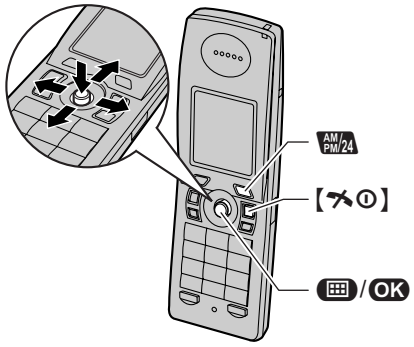
1 ▣ (centre of joystick) → 🖥 → OK
2 Enter the base unit PIN (default: **“0000”**).
3 **“Call Options”** → OK
4 **“Dial Mode”** → OK
5 Select the desired setting. → OK → 【↷⏻】

TCD820FX(e-e).book Page 15 Tuesday, September 13, 2005 9:10 AM

Setting the date and time

Important:

- Confirm that the AC adaptor is connected.



1 (centre of joystick) → → OK

2 **"Time Settings"** → OK

3 **"Set Date & Time"** → OK

4 Enter the current day, month and year.
Example: 17 May, 2005
【1】【7】【0】【5】【0】【5】

5 Enter the current hour and minute.
Example: 3:30 PM
【0】【3】【3】【0】 → Press AM/PM/24 until **"03:30 PM"** is displayed.

6 OK → **【↶⏻】**

Note:

- To correct a digit, use the joystick to move the cursor, then make the correction.
- The date and time may be incorrect after a power failure. In this case, set the date and time again.

Making calls

1 Lift the handset and dial the phone number.
- To correct a digit, press 【C/⊠】, then enter the correct number.

2 【↘】

3 When finished talking, press 【↗⏻】 or place the handset on the base unit.

Speakerphone

1 During a conversation, press 【🔊】 to turn on the speakerphone.
- Speak alternately with the caller.

2 When finished talking, press 【↗⏻】.

Note:
- For best performance, use the speakerphone in a quiet environment.
- To switch back to the receiver, press 【↘】.

To adjust the receiver or speaker volume
Push the joystick up or down while on a call.

Redial feature

Previously dialled phone numbers (each 24 digits max.) can be redialled.

To make a call using the redial list
The last 10 phone numbers dialled are stored in the redial list.

1 (right soft key)

2 Push the joystick up or down to select the desired number.

3 【↘】/【🔊】
- If 【🔊】 is pressed, the unit will redial automatically if the other party's line is engaged. The unit will redial up to 11 times. While the handset is waiting to redial, the ringer indicator will flash. To cancel, press 【↗⏻】.

To edit a number in the redial list before calling it

1 (right soft key)

2 Push the joystick up or down to select the desired number. → ▦

3 "Edit and Call" → OK

4 Use the joystick to move the cursor. → Edit the number.
- Place the cursor on the number you wish to erase, then press 【C/⊠】.
- Place the cursor to the right of where you want to insert a number, then press the appropriate dial key.

5 【↘】/【🔊】/ OK

To erase numbers in the redial list

1 (right soft key)

2 Push the joystick up or down to select the desired number. → ▦

3 "Erase" → OK
- If you want to erase all numbers in the list, select "Erase All", then press OK.

4 "Yes" → OK → 【↗⏻】

To store a number from the redial list into the handset phonebook

1 (right soft key)

2 Push the joystick up or down to select the desired number. → ▦

3 "Add Phonebook" → OK

TCD820FX(e-e).book Page 17 Tuesday, September 13, 2005 9:10 AM

4 "Name" → OK

5 Enter a name (16 characters max.; page 61). → OK

6 "<Save>" → OK → 【 】
- You can also press to save the entry.
- To assign a picture or category to the entry, continue from step 7, "Adding entries to the handset phonebook", page 19.

Other features

Voice enhancer

You can change the tone quality of the receiver while you are on a call.

1 Press during a call.

2 "Voice Enhancer" → OK

3 "High Tone" or "Low Tone" → OK
- is displayed.

Voice changer

When you answer an outside call, you can lower the pitch of your voice that is heard by the caller.

1 Press during an outside call.

2 "Voice Changer" → OK
- is displayed.
- To turn the voice changer off, press . → "Voice Changer" → OK

Mute

While mute is turned on, you will be able to hear the other party, but the other party will not be able to hear you.

To mute your voice, press 【C/】.
- To return to the conversation, press 【C/】 again.

Key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but all other functions are disabled while key lock is on.

To turn key lock on, press for about 2 seconds.
- is displayed.
- To turn key lock off, press for about 2 seconds.

R button (to use the recall feature)

【R】 is used to access optional telephone services. Contact your service provider for details.

Note:
- If your unit is connected to a PBX (private branch exchange), pressing 【R】 can allow you to access certain features of your host PBX such as transferring an extension call. Consult your PBX dealer for details.
- You can change the recall time (page 38).

Pause button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.

Example: If you have to dial 【0】 before dialling outside numbers manually, you will probably pause after dialling 【0】 until you hear a dial tone.

1 【0】 → P

2 Dial the phone number. → 【 】 / 【 】

Note:
- Pressing P 1 time creates 1 pause. Press P repeatedly to create longer pauses. To change pause length, see page 39.

Temporary tone dialling (for rotary or pulse service users)

You can temporarily switch the dialling mode to tone when you need to access touch tone services (e.g., telephone banking services).

1 Make a call.

TCD820FX(e-e).book Page 18 Tuesday, September 13, 2005 9:10 AM

2 Press 【✳】 when prompted to enter your code or PIN, then press the appropriate dial keys.

Note:

- The dialling mode will return to pulse when you hang up.

Recording a telephone conversation

Important:

- Before recording a conversation, you should inform the other party that the conversation will be recorded.

1 Press (MENU) during an outside call.

2 "Record Call" → OK

3 To stop recording, press ■.

Note:

- To listen to the recorded conversation, see page 52.

Answering calls

1 Lift the handset and press 【📞】 or 【🔊】 when the unit rings.

- You can also answer a call by pressing any dial key from 【0】 to 【9】, 【✳】, 【#】, or 【INT】. **(Any key answer feature)**

2 When finished talking, press 【📞】 or place the handset on the base unit.

Auto talk feature

You can answer calls simply by lifting the handset off the base unit. You do not need to press 【📞】. To turn this feature on, see page 34.

To adjust the ringer volume when an outside call is being received

Push the joystick up or down.

Other features

Handset locator

Using this feature, you can locate the handset if it has been misplaced.

1 Press 【📢】 on the base unit.

2 To stop paging, press 【📢】 on the base unit or press 【📞】 on the handset.

TCD820FX(e-e).book Page 19 Tuesday, September 13, 2005 9:10 AM

Handset phonebook

The handset phonebook allows you to make calls without having to dial manually. You can store up to 3 phone numbers and a picture for each entry, assign each handset phonebook entry to a category, and search for handset phonebook entries by name or category.
The total number of entries that can be stored varies by the number of phone numbers stored for each entry, as shown below:

1 name + 1 phone number	200 entries
1 name + 2 phone numbers	133 entries
1 name + 3 phone numbers	100 entries

Important:

- You can also create and edit phonebook items using your PC and send them to the handset. Refer to the USB GEAR help file for details.

Adding entries to the handset phonebook

1 (left soft key) →
2 “New Entry” → OK
3 “Name” → OK
4 Enter the party’s name (16 characters max.; page 61). → OK
5 “Phone No. 1” → OK
- You can store up to 3 phone numbers for one entry.

6 Enter the party’s phone number (24 digits max.). → OK
7 “Picture” → OK
8 Select the desired item. → OK

No Picture	Assigns no picture to the entry. Go to step 10.
Preset Pictures	Pictures stored in the handset at the time of purchase.
User Pictures	Pictures you stored in the handset (page 28).

9 Push the joystick up or down to select the desired picture. → OK
10 “Category 1” → OK
11 Select the desired category. → OK
12 “<Save>” → OK → 【✂⏻】

Categories

Categories can help you find entries in the handset phonebook quickly and easily. When adding an entry to the handset phonebook you can assign it to the desired category. You can change the names of categories assigned for handset phonebook entries (“Friends”, “Family”, etc.) and then search for handset phonebook entries by category. Additional category features are available for Caller ID subscribers (page 44).

Changing category names

1 (left soft key) →
2 “Category” → OK
3 Select the desired category. → OK
4 “Category Name” → OK

TCD820FX(e-e).book Page 20 Tuesday, September 13, 2005 9:10 AM

5 Edit the name (10 characters max.; page 61). → OK → 【↷⏻】

Finding and calling a handset phonebook entry

Handset phonebook entries can be searched for alphabetically, by first character, by category, or by scrolling through all handset phonebook entries. When you have found the desired entry, press 【📞】.

- If more than 1 phone number is assigned to the entry, press 【📞】/ 📖. → Select the desired phone number. → 【📞】/ 【🔊】

Scrolling through all entries

1 📖 (left soft key)

2 Push the joystick up or down to display the desired entry.

Searching alphabetically

This method is useful when you are searching for an entry which starts with a letter of the alphabet.

1 📖 (left soft key)

2 Press the dial key (【0】 to 【9】) which corresponds to the letter you are searching for (page 61).

- Press the same dial key repeatedly to display the first entry corresponding to each letter located on that dial key.
- If there is no entry corresponding to the letter you selected, the next entry will be displayed.

3 Push the joystick up or down to scroll through the phonebook if necessary.

Searching by first character (index search)

1 📖 (left soft key) → 🔍

2 "Index Search" → OK

3 Press the right soft key repeatedly to select the character entry mode that contains the character you are searching for.

4 Push the joystick in any direction to select the desired character. → OK

- If there is no entry corresponding to the letter you selected, the next entry will be displayed.

5 Push the joystick up or down to scroll through the phonebook if necessary.

Note:

- In step 4, you can also press the dial key (【0】 - 【9】) that contains the character you are searching for (page 61).

Searching by category

1 📖 (left soft key) → 🔍

2 "Category Search" → OK

3 Select the category you want to search. → OK

- If you select "All", the unit will end the category search.

4 Push the joystick up or down to scroll through the phonebook if necessary.

Viewing phonebook entry details

1 Find the desired entry (page 20). → 📖

- The phone numbers, picture, and category assigned to the entry is displayed.

2 Push the joystick right or left to view the next or previous entry.

TCD820FX(e-e).book Page 21 Tuesday, September 13, 2005 9:10 AM

Editing entries in the handset phonebook

Changing a name, phone number, category, picture

1 Find the desired entry (page 20). →
2 "Edit" → OK
3 Select the desired item you want to change. → OK
4 **To change the name and phone number**
Edit the name or phone number. → OK
To change the category or picture
Select the desired item. → OK
5 "<Save>" → OK → 【✂⏻】

Erasing a phone number from an entry

1 Find the desired entry (page 20). →
2 "Edit" → OK
3 Select the desired phone number you want to erase. → ✕
4 "<Save>" → OK → 【✂⏻】

Erasing entries from the handset phonebook

Erasing an entry

1 Find the desired entry (page 20). →
2 "Erase" → OK
3 "Yes" → OK → 【✂⏻】

Erasing all entries

1 (left soft key) →
2 "Erase All" → OK
3 "Yes" → OK
4 "Yes" → OK → 【✂⏻】

One touch dial

Assigning an entry in the handset phonebook to a one touch dial key

Dial keys 【1】 to 【9】 can each be used as a one touch dial key, allowing you to dial a number from the handset phonebook by simply pressing a dial key.

1 Find the desired entry (page 20). →
2 Select the desired phone number you want to assign to. →
3 "One Touch Dial" → OK
4 Push the joystick up or down to select the desired dial key number. → OK
- When the dial key is already used as a one touch dial key, "∗" is displayed next to the dial key number. If you select this dial key, you can overwrite the previous assignment.

5 "Save" → OK → 【✂⏻】

Making a call using a one touch dial key

1 Press and hold the desired one touch dial key (【1】 to 【9】).
- You can view other one touch dial assignments by pushing the joystick up or down.

2 【📞】/【🔊】

Erasing a one touch dial assignment

1 Press and hold the desired one touch dial key (【1】 to 【9】). →
2 "Erase" → OK
3 "Yes" → OK → 【✂⏻】

Note:

- The corresponding handset phonebook entry is not erased.

TCD820FX(e-e).book Page 22 Tuesday, September 13, 2005 9:10 AM

Chain dial

This feature allows you to dial phone numbers in the handset phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the handset phonebook, without having to dial manually.

1 While on a call, press .

2 Push the joystick up or down to select the desired entry.

- To search by first character (index search), see page 20. To search by category, see page 20.

3 Press OK to dial the number.

- If more than 1 phone number is assigned to the entry, press / OK. → Select the desired phone number. → OK

TCD820FX(e-e).book Page 23 Tuesday, September 13, 2005 9:10 AM

Shared phonebook

The shared phonebook allows you to make calls without having to dial manually. Any handset registered to the same base unit can use the shared phonebook. You can add 20 names and phone numbers to the shared phonebook and search for shared phonebook entries by name. If you subscribe to Caller ID service, you can use the shared phonebook's audible call feature (page 45).

Adding entries to the shared phonebook

1 (left soft key) → →
2 "New Entry" → OK
3 Enter the party's name (16 characters max.; page 61). → OK
4 Enter the party's phone number (24 digits max.). → OK
5 **To record an audible call announcement**
"Start Recording" → OK
To skip recording
"Skip Recording" → OK → Go to step 8.
- Audible call (page 45) is useful for Caller ID subscribers only.

6 When "Recording" is displayed, speak into the microphone.
- Maximum recording time is 10 seconds.
- Hold the handset about 20 cm away and speak clearly into the microphone.

7 Press to end recording.
- To change the audible call announcement, press , then repeat from step 5.

8 "Save" → OK →

Note:
- Phonebook entries that have an audible call announcement are indicated by .

Finding and calling a shared phonebook entry

Shared phonebook entries can be searched for by first character or by scrolling through all shared phonebook entries.
Once you have found the desired entry, press [ ] or [ ] to dial the phone number.

Scrolling through all entries

1 (left soft key) →
2 Push the joystick up or down to display the desired entry.

Searching by first character (index search)

1 (left soft key) → →
2 Press the right soft key repeatedly to select the character entry mode that contains the character you are searching for.
3 Push the joystick in any direction to select the desired character. → OK
- If there is no entry corresponding to the letter you selected, the next entry will be displayed.

4 Push the joystick up or down to scroll through the phonebook if necessary.

Note:
- In step 3, you can also press the dial key ([0] - [9]) that contains the character you are searching for (page 61).

Editing entries in the shared phonebook

Changing a name, phone number, audible call

1 Find the desired entry (page 23). →
2 **"Edit"** → OK
3 Edit the name if necessary (16 characters max.; page 61). → OK
4 Edit the phone number if necessary (24 digits max.). → OK
5 Skip, record, or erase an audible call recording.
- To record the audible call announcement, continue from step 5, "Adding entries to the shared phonebook", page 23.
- To skip recording, select **"Skip Recording"**. → OK
- To erase the audible call announcement, select **"Erase"**. → OK

6 **"Save"** → OK → 【⏻】

Playing back an audible call announcement

1 Find the desired entry (page 23). →
2 **"Audible Call"** → OK → 【⏻】

Erasing entries from the shared phonebook

Erasing an entry

1 Find the desired entry (page 23). →
2 **"Erase"** → OK
3 **"Yes"** → OK → 【⏻】

Erasing all entries

1 (left soft key) → →
2 **"Erase All"** → OK
3 **"Yes"** → OK
4 **"Yes"** → OK → 【⏻】

TCD820FX(e-e).book Page 25 Tuesday, September 13, 2005 9:10 AM

Copying phonebook entries

You can copy handset phonebook entries (page 19) to the shared phonebook or to the handset phonebook of another compatible Panasonic handset.

Note:

- Picture and category settings for phonebook entries are not copied.

Copying one entry

1. Find the desired handset phonebook entry (page 20). → MENU
2. "Copy" → OK
3. "Intercom" → OK
4. Select the copy destination. → OK
5. To continue copying another entry: "Yes" → OK → Find the desired handset phonebook entry. → OK
6. 【✆⏻】

Note:

- To copy an entry via infrared interface, select "Infrared" then press OK in step 3. See page 42 to receive the data.
- You can also attach a phonebook entry to an SMS message and send the entry to another party. See page 49 for more information.

Copying all entries between handset phonebooks

1. 📖 (left soft key) → MENU
2. "Copy All" → OK
3. "Intercom" → OK
4. Select the copy destination. → OK
   - The shared phonebook cannot be selected. Entries can only be copied to the shared phonebook one at a time.
5. 【✆⏻】

Note:

- To copy all entries via infrared interface, select "Infrared" then press OK in step 3. See page 42 to receive the data.

TCD820FX(e-e).book Page 26 Tuesday, September 13, 2005 9:10 AM

Guide to handset settings

For your reference, a chart of all items which can be customised for the handset is printed below.

- When customising the handset, the current item or setting is highlighted.

Handset settings menu	Sub-menu	Sub-menu 2	Default setting	Page
Media Browser	User Pictures	—	—	page 28
	User Ringtones	—	—	page 28
	Memory Status	—	—	page 29
Time Settings	Set Date & Time	—	—	page 15
	Memo Alarm	—	Off	page 30
Ringer Setup	Ringer Volume	—	*Maximum*	page 30
	Ext. Ringtone	Preset Ringtones	Ringtone 1	page 30
		User Ringtones	—	
	Int. Ringtone	Preset Ringtones	Ringtone 1	page 30
		User Ringtones	—	
	Cust. Ringtone	Record	—	page 31
		List	—	page 32
	Night Mode	Start/End	*23:00/06:00*	page 32
		On/Off	Off	page 32
		Ring Delay	60 sec.	page 32
		Select Category	—	page 33

TCD820FX(e-e).book Page 27 Tuesday, September 13, 2005 9:10 AM

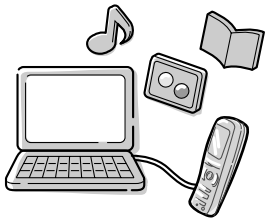
Handset settings menu	Sub-menu	Sub-menu 2	Default setting	Page
Display Setup	Wallpaper	No Picture	—	page 33
		Preset Pictures	Picture 1	
		User Pictures	—	
	Display Colour	—	Colour1	page 33
	Standby Display	—	Off	page 33
	Select Language	—	English*1	page 14
	Contrast	—	Contrast 4	page 33
Baby Monitor	On/Off	—	Off	page 34
	Sensitivity	—	*Middle*	page 34
Call Options	Direct Call	Phone Number	—	page 34
		On/Off	Off	page 34
	Auto Talk	—	Off	page 34
	Auto Intercom	—	Off	page 35
Registration	Register H.set	—	—	page 58
Select Base	—	—	Auto	page 58
Other Options	Handset PIN	—	0000	page 35
	Handset Name	—	—	page 35
	LetterWise	—	English*1	page 35
	Keytones	—	On	page 35
	Privacy	—	On	page 35
	Reset Handset	—	—	page 36

*1 The default display language will be as follows if you select the following regional codes when changing the unit's region setting (page 41):

"CZ"="ČeŠtina"
"SK"="slovensky"

TCD820FX(e-e).book Page 28 Tuesday, September 13, 2005 9:10 AM

USB features



By connecting the handset to your PC using the included USB cable, you can use your PC and the included USB GEAR software to create and edit phonebook entries, as well as send pictures and melodies stored in your PC to the handset.
For connection details, refer to the "Installation Guide for USB GEAR". For information on using the USB GEAR software, refer to the USB GEAR help file.

Important:

- Only characters shown in the character entry tables (page 61) can be used for phonebook entry names or file names of pictures or melodies.

Media browser

You can store pictures and melodies in the handset by receiving them via SMS (page 47), or by copying them to the handset via PC or infrared interface. You can then use the media browser to play melodies and to view and edit pictures.
See page 69 if you have difficulty using the features in this section.

Viewing user pictures or playing user melodies

1 (centre of joystick) → → OK
2 "Media Browser" → OK
3 "User Pictures" or "User Ringtones" → OK
4 Push the joystick up or down to view pictures or play melodies.

Note:

- You can switch between the picture list and the picture view by pressing or .

Trimming a picture

1 (centre of joystick) → → OK
2 "Media Browser" → OK
3 "User Pictures" → OK
4 Push the joystick up or down to select the desired picture. →
5 "Trim" → OK
6 Select the desired size. → OK

64x68	This size is for both phonebook pictures and wallpaper patterns.
128x136	This size is for wallpaper patterns only.

7 Move the joystick until the desired area of the picture is displayed. → OK
- You can also move the picture up, down, left, or right 1 pixel at a time by pressing 【2】, 【8】, 【4】, or 【6】, respectively.

8 **To overwrite:**
"Overwrite" → OK → 【】
To save as a new data:
"Save as New" → OK → Enter the name (10 characters max.; page 61). → → 【】

Reducing the size of a picture

You can reduce the size of pictures that you want to assign to phonebook entries.

1 (centre of joystick) → → OK
2 "Media Browser" → OK

TCD820FX(e-e).book Page 29 Tuesday, September 13, 2005 9:10 AM

3 “User Pictures” → OK
4 Push the joystick up or down to select the desired picture. → (centre of joystick)
5 “Reduce” → OK
6 Push the joystick up or down to select the desired size. → OK
7 **To overwrite:**
“Overwrite” → OK → [ⓘ]
To save as a new data:
“Save as New” → OK → Enter the name (10 characters max.; page 61). → → [ⓘ]

Erasing a picture or ringtone

1 (centre of joystick) → → OK
2 “Media Browser” → OK
3 “User Pictures” or “User Ringtones” → OK
4 Push the joystick up or down to select the desired item. → (centre of joystick)
5 “Erase” → OK
6 “Yes” → OK → [ⓘ]

Copying a picture or ringtone via infrared interface

1 (centre of joystick) → → OK
2 “Media Browser” → OK
3 “User Pictures” or “User Ringtones” → OK
4 Push the joystick up or down to select the desired item. → (centre of joystick)
5 “Send” → OK
- See page 43 to receive the data.

6 [ⓘ]

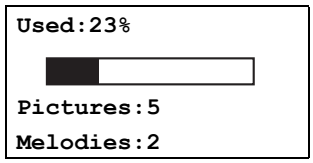
Changing the name of a picture or ringtone

1 (centre of joystick) → → OK
2 “Media Browser” → OK
3 “User Pictures” or “User Ringtones” → OK
4 Push the joystick up or down to select the desired item. → (centre of joystick)
5 “Rename” → OK
6 Edit the name (10 characters max.; page 61). → OK → [ⓘ]

Memory status

You can confirm the amount of handset memory that has been used for storing your pictures and melodies.

1 (centre of joystick) → → OK
2 “Media Browser” → OK
3 “Memory Status” → OK
- The current memory status will be displayed.



Example:
23 % of memory used
5 pictures stored
2 melodies stored

4 [ⓘ]

Erasing all pictures or ringtones

1 (centre of joystick) → → OK
2 “Media Browser” → OK
3 “Memory Status” → OK
4 → “All Pictures” or “All Ringtones” → OK
5 “Yes” → OK
6 “Yes” → OK → [ⓘ]

TCD820FX(e-e).book Page 30 Tuesday, September 13, 2005 9:10 AM

Time settings

Memo alarm

An alarm will sound for 3 minutes at the set time once or daily. A text memo can be displayed. Set the date and time beforehand (page 15).

1 (centre of joystick) → → OK

2 "Time Settings" → OK

3 "Memo Alarm" → OK

4 Select an alarm (1 to 5). → OK

5 Select an alarm mode. → OK

Off	Turns alarm off. Press OK again, then press [⏻] to finish.
Once	The alarm will sound once at the set time. Enter the desired day and month.
Daily	An alarm will sound daily at the set time.

6 Enter the desired hour and minute. → OK

7 Enter a text memo (30 characters max.; page 61). → OK

8 Select the desired item. → OK

Preset Ringtones	Ringtones stored in the handset at the time of purchase.
User Ringtones	Ringtones you stored in the handset (page 28, 31).

9 Select the desired ringtone. → OK

10 "Save" → OK → [⏻]

- When the alarm is set, ◷ is displayed.

Note:

- To stop the alarm, press any dial key.
- If you are on an outside call, the beep will sound and ◷ will flash at the set time. The alarm will not sound until you hang up.
- If you select "Once", the setting will change to "Off" after the alarm sounds.

Ringer setup

Ringer volume

1 (centre of joystick) → → OK

2 "Ringer Setup" → OK

3 "Ringer Volume" → OK

4 Push the joystick up or down to select the desired volume. → OK → [⏻]

- When the ringer volume is turned off, 🔕 is displayed.

Note:

- When the ringer is turned off, the handset will ring:
  - at the minimum level for alarm and intercom calls
  - at the maximum level for paging

Changing ringtones

1 (centre of joystick) → → OK

2 "Ringer Setup" → OK

3 Select the desired item. → OK

Ext. Ringtone	Selects the ringtone for outside calls.
Int. Ringtone	Selects the ringtone for intercom calls.

4 Select the desired item. → OK

Preset Ringtones	Ringtones stored in the handset at the time of purchase.

User Ringtones	Ringtones you stored in the handset (page 28, 31).

5 Select the desired ringtone. → OK → 【✂⏻】

Note:

- If you select one of the melody ringtones, the ringtone will continue to sound for several seconds if the caller hangs up before you answer. You may hear a dial tone or no one on the line when you answer a call.
- The preset melodies in this product are used with permission of © 2004 M-ZoNE Co., Ltd.

Customise ringtones

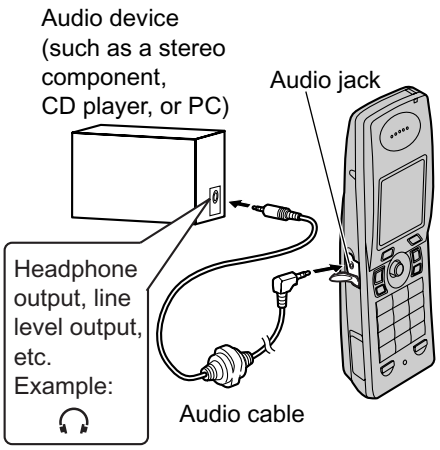
You can record melodies (max. 30 seconds each) from an audio device by connecting the included audio cable. These melodies can be assigned as the user ringtone (page 30, 44).

Important:

- If a call is received while the audio cable is connected to the handset, disconnect the audio cable from the handset and answer the call, otherwise you and the caller will not hear each other's voice.

Recording a melody

1 Connect the audio device to the handset using the included audio cable.



2 (centre of joystick) → ♪ → OK

3 "Ringer Setup" → OK

4 "Cust. Ringtone" → OK

5 "Record" → OK

6 Press play on the audio device.

- For better sound quality, increase the volume on the audio device.
- To adjust the handset speaker volume, push the joystick up or down repeatedly.

7 Press ● to start recording.

8 To stop recording, press ■.

- To listen to the recording, select "Play". → OK
- To re-record, select "Re-record". → OK → Repeat from step 5.

9 "Save" → OK

10 Edit the name (10 characters max.; page 61). → ✉ → 【✂⏻】

11 Disconnect the audio cable from the handset.

Note:

- Recorded melodies are stored using the same memory storage space used for downloaded pictures and melodies. If there is no data stored, the total recording time is about 60 seconds. Depending on the data size of user pictures and user melodies, the remaining recording time will change. To confirm the handset memory for melodies and pictures, see page 29.

Erasing a melody

1 (centre of joystick) → → OK
2 "Ringer Setup" → OK
3 "Cust. Ringtone" → OK
4 "List" → OK
5 Select the desired item. →
6 "Erase" → OK
7 "Yes" → OK → 【】

Changing the name of a melody

1 (centre of joystick) → → OK
2 "Ringer Setup" → OK
3 "Cust. Ringtone" → OK
4 "List" → OK
5 Select the desired item. →
6 "Rename" → OK
7 Edit the name (10 characters max.; page 61).
8 OK → 【】

Night mode

Night mode allows you to select a block of time during which the handset will not ring for outside calls. This feature is useful for times when you do not want to be disturbed, for example, while sleeping. Night mode can be set independently for the handset and the base unit (page 38).

Using the handset phonebook's category feature (page 19), you can also select categories of callers whose calls will override night mode and ring the handset (Caller ID subscribers only).
Set the date and time beforehand (page 15).

Setting the start and end time for night mode

1 (centre of joystick) → → OK
2 "Ringer Setup" → OK
3 "Night Mode" → OK
4 "Start/End" → OK
5 Enter the desired hour and minute you wish to start this feature.
6 Enter the desired hour and minute you wish to end this feature.
7 OK → 【】

Turning night mode on

1 (centre of joystick) → → OK
2 "Ringer Setup" → OK
3 "Night Mode" → OK
4 "On/Off" → OK
5 "On" → OK → 【】
- is displayed.

Setting the ring delay for night mode

This setting allows the handset to ring during night mode if the caller waits long enough. After the selected amount of time passes, the handset will ring. If you select "No Ringing", the handset will not ring during night mode.

1 (centre of joystick) → → OK
2 "Ringer Setup" → OK
3 "Night Mode" → OK
4 "Ring Delay" → OK
5 Select the desired setting. → OK → 【】

TCD820FX(e-e).book Page 33 Tuesday, September 13, 2005 9:10 AM

Note:

- When the answering system answers the call, this feature does not work.

Selecting categories to bypass night mode

1 (centre of joystick) → → OK
2 "Ringer Setup" → OK
3 "Night Mode" → OK
4 "Select Category" → OK
5 Select the desired category numbers. → ✓ → OK
   - Selected category numbers are indicated by a "✓".
   - To cancel a selected category number, select the number again, then press ✓.
6 【✂⏻】

Display setup

Selecting wallpaper

You can select the "wallpaper" shown on the display in standby mode.

1 (centre of joystick) → → OK
2 "Display Setup" → OK
3 "Wallpaper" → OK
4 Select the desired item. → OK

No Picture	Turns the wallpaper feature off. Press 【✂⏻】 to finish.
Preset Pictures	Pictures stored in the handset at the time of purchase.
User Pictures	Pictures you stored in the handset (page 28).

5 Push the joystick up or down to select the desired picture.
   - You can switch between the picture list and the picture view by pressing or .
6 OK → 【✂⏻】

Note:

- If you select "No Picture", the display colour will be changed to the colour you selected for display colour (page 33).
- The preset pattern "Picture 2" in this product is used with permission of © 2005 Digital Archive Japan, Inc. The preset pattern "Picture 3" in this product is used with permission of © 2005 Digital Vision.

Selecting a display colour

1 (centre of joystick) → → OK
2 "Display Setup" → OK
3 "Display Colour" → OK
4 Select the desired colour. → OK → 【✂⏻】

Selecting the standby mode display

1 (centre of joystick) → → OK
2 "Display Setup" → OK
3 "Standby Display" → OK
4 Select the desired setting.

Off	Only the current date and time are displayed.
Handset Name	The name of the handset is displayed (page 35).
Base Number	The current base unit number is displayed.

5 OK → 【✂⏻】

Changing the display contrast

This feature is available for wallpaper and display icons.

1 (centre of joystick) → → OK
2 "Display Setup" → OK
3 "Contrast" → OK
4 Push the joystick up or down to select the desired contrast. → OK → 【】

Baby monitor (additional handset required)

Using the baby monitor

This feature allows you to listen in on a room where another handset is located, allowing you to easily monitor from different areas of the house. The monitored handset (placed in a baby's room, for example) will automatically call the monitoring handset when it detects sound.
Perform the following procedure with the handset that will be monitored (for example, the handset placed in the baby's room).

1 (centre of joystick) → → OK
2 "Baby Monitor" → OK
3 "On/Off" → OK
4 "On" → OK
5 Select the desired handset number. → OK
- "Baby Monitor" will be displayed.

Note:

- The monitoring handset will answer calls automatically when the auto intercom feature is set to "On" (page 35).
- The handset cannot be used while it is waiting to monitor. To cancel monitoring; → "Off" → OK → 【】

Baby monitor sensitivity

You can adjust the sensitivity of the baby monitor. Increase or decrease the sensitivity to adjust the sound level needed to trigger the baby monitor feature.

1 (centre of joystick) → → OK
2 "Baby Monitor" → OK
3 "Sensitivity" → OK
4 Select the desired setting. → OK → 【】

Call options

Storing the direct call number

This feature prohibits making outside calls except to the phone number you store here. The number will be dialled automatically when 【】 or 【】 is pressed.

1 (centre of joystick) → → OK
2 "Call Options" → OK
3 "Direct Call" → OK
4 "Phone Number" → OK
5 Enter the phone number (24 digits max.). → OK
6 "Save" → OK
7 "On" → OK → 【】
- is displayed.

Turning direct call on/off

1 (centre of joystick) → → OK
2 "Call Options" → OK
3 "Direct Call" → OK
4 "On/Off" → OK
5 Select the desired setting. → OK → 【】

Turning auto talk on

When this feature is turned on, you can answer calls simply by lifting the handset off the base unit. You do not need to press 【】.

TCD820FX(e-e).book Page 35 Tuesday, September 13, 2005 9:10 AM

1 (centre of joystick) → → OK
2 "Call Options" → OK
3 "Auto Talk" → OK
4 "On" → OK → [ ]

Setting auto intercom

This feature allows the handset to answer intercom calls automatically when it is called. You do not need to press [ ]. When this feature is set to "On", the monitoring handset for the baby monitor feature (page 34) will also answer baby monitor calls automatically.

1 (centre of joystick) → → OK
2 "Call Options" → OK
3 "Auto Intercom" → OK
4 "On" → OK → [ ]

Other options

Changing the handset PIN (Personal Identification Number)

For security, the handset PIN must be entered when changing certain settings.

Important:

- If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you. If you forget your PIN, consult your nearest Panasonic service centre.

1 (centre of joystick) → → OK
2 "Other Options" → OK
3 "Handset PIN" → OK
4 Enter the handset PIN (default: "0000").
5 Enter the new 4-digit handset PIN. → OK → [ ]

Changing the handset name

The handset can be given a customised name ("Bob", "Kitchen", etc.), useful when you have multiple handsets.
To display the handset name, select "Handset Name" as the standby mode display setting (page 33).

1 (centre of joystick) → → OK
2 "Other Options" → OK
3 "Handset Name" → OK
4 Enter the name (10 characters max.; page 61). → OK → [ ]

Changing the LetterWise® language

You can change which language is used for LetterWise character entry (page 62, 63).

1 (centre of joystick) → → OK
2 "Other Options" → OK
3 "LetterWise" → OK
4 Select the desired language. → OK → [ ]

Turning keytones on/off

Keytones include confirmation tones and error tones.

1 (centre of joystick) → → OK
2 "Other Options" → OK
3 "Keytones" → OK
4 "On" or "Off" → OK → [ ]

Turning the privacy feature off

This setting determines whether the handset can be monitored from an outside telephone (page 55).

1 (centre of joystick) → → OK
2 "Other Options" → OK
3 "Privacy" → OK

TCD820FX(e-e).book Page 36 Tuesday, September 13, 2005 9:10 AM

4 “Off” → OK → 【↷⏻】

Note:

- If you do not want the handset to be monitored, select “On” in step 4.

Resetting the handset to its default settings

1 ⊞ (centre of joystick) → ✎ → OK

2 “Other Options” → OK

3 “Reset Handset ” → OK

4 Enter the handset PIN (default: “0000”).

5 “Yes” → OK → 【↷⏻】

Note:

- The following items will be deleted or reset to their default settings:
  - Settings listed on page 26, 27
  - Redial list
  - Voice enhancer
- The following items will be retained:
  - Handset phonebook entries
  - Date and time
  - Handset name
  - User pictures
  - User ringtones

TCD820FX(e-e).book Page 37 Tuesday, September 13, 2005 9:10 AM

Guide to base unit settings

For your reference, a chart of all items which can be customised for the base unit is printed below.

- These items are customised using the handset.
- When customising the base unit, the current item or setting is highlighted.

Base unit settings menu	Sub-menu	Sub-menu 2	Default setting	Page
Ringer Setup	Ringer Volume	—	*Medium*	page 38
	Night Mode	Start/End	*23:00/06:00*	page 38
		On/Off	Off	page 38
		Ring Delay	60 sec.	page 38
Call Options	Dial Mode	—	Tone	page 14
	Recall	—	600 msec.*1	page 38
	Pause Length	—	3 sec.	page 39
	Emergency No.	—	—*2	page 40
	ARS Settings*3	Carrier Code	Off	page 39
		Area Code	—	page 39
	Call Restrict	—	—	page 40
Other Options	Base Unit PIN	—	0000	page 40
	Repeater Mode	—	Off	page 59
	Reset Base	Country	—	page 41

*1 The default setting will be as follows if you select the following regional codes when changing the unit's region setting (page 41):
"CZ"="100 msec."
"SK"="100 msec."

*2 The default setting will be as follows if you select the following regional codes when changing the unit's region setting (page 41):
"CZ"="155", **"150"**, **"158"**, **"112"**
"SK"="155", **"150"**, **"158"**, **"112"**, **"16155"**

*3 This function is available for Czech and Slovakia only.

TCD820FX(e-e).book Page 38 Tuesday, September 13, 2005 9:10 AM

Ringer setup

Ringer volume

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Ringer Setup" → OK
4 "Ringer Volume" → OK
5 Push the joystick up or down to select the desired volume. → OK → [ ]

Night mode

Night mode allows you to select a block of time during which the base unit will not ring for outside calls. This feature is useful for times when you do not want to be disturbed, for example, while sleeping. Night mode can be set independently for the handset (page 32) and the base unit.
Set the date and time beforehand (page 15).

Setting the start and end time for night mode

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Ringer Setup" → OK
4 "Night Mode" → OK
5 "Start/End" → OK
6 Enter the desired hour and minute you wish to start this feature.
7 Enter the desired hour and minute you wish to end this feature.
8 OK → [ ]

Turning night mode on

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Ringer Setup" → OK
4 "Night Mode" → OK
5 "On/Off" → OK
6 "On" → OK → [ ]

Setting the ring delay for night mode

This setting allows the base unit to ring during night mode if the caller waits long enough. After the selected amount of time passes, the base unit will ring. If you select "No Ringing", the base unit will not ring during night mode.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Ringer Setup" → OK
4 "Night Mode" → OK
5 "Ring Delay" → OK
6 Select the desired setting. → OK → [ ]

Note:

- When the answering system answers the call, this feature does not work.

Call options

Changing the recall time

Change the recall time, if necessary, depending on the requirements of your service provider or PBX.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Call Options" → OK
4 "Recall" → OK
5 Select the desired setting. → OK → [ ]

TCD820FX(e-e).book Page 39 Tuesday, September 13, 2005 9:10 AM

Setting pause length

Change the pause length, if necessary, depending on the requirements of your service provider or PBX.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: “0000”).
3 “Call Options” → OK
4 “Pause Length” → OK
5 Select the desired setting. → OK → 【】

ARS (Automatic Route Selection) (For Czech and Slovakia only)

Different telephone carriers charge different rates for call to different areas. If you use different telephone carriers in an effort to save costs, automatic route selection can automatically dial the appropriate carrier code when you make calls to certain area codes according to the way you program this feature.

Important:

- To use automatic route selection, you must:
  - subscribe to the telephone carrier service you use
  - store the carrier codes you use
  - store the area codes you want to call using a specific carrier code
  - assign a carrier code to each stored area code

  Contact your telephone carrier(s) for calling rates.

Example: You have assigned carrier code “9876” to area code “123”.
If you dial “123-4567”, the unit dials “9876-123-4567”.

Storing carrier codes for ARS (Turning ARS on)

Store the carrier codes of the telephone carriers you use. You can store up to 5 carrier codes.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: “0000”).
3 “Call Options” → OK
4 “ARS Settings” → OK
5 “Carrier Code” → OK
6 “On” → OK
7 Select a carrier code location (C1 to C5). → OK
   - If the location already contains a carrier code, the code is displayed.
8 Enter the carrier code (7 digits max.). → OK → 【】

Storing area codes for ARS

Store the area codes which should be dialled using a specific carrier. You can store up to 25 area codes.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: “0000”).
3 “Call Options” → OK
4 “ARS Settings” → OK
5 “Area Code” → OK
6 Select an area code location (1 to 25). → OK
   - If the location already contains an area code, the code is displayed.
7 Enter an area code (5 digits max.). → OK
8 Select a carrier code you stored (C1 to C5) earlier. → OK → 【】
   - This carrier code will be automatically dialled when you make a call to this area code.

Turning ARS off

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Call Options" → OK
4 "ARS Settings" → OK
5 "Carrier Code" → OK
6 "Off" → OK → 【⏻】

Setting call restriction

You can restrict selected handsets from dialling certain numbers. You can assign up to 6 phone numbers to be restricted, and select which handsets will be restricted. Storing area codes here will prevent the restricted handsets from dialling any phone number in that area code.
You can allow a call restricted number to be dialled if it stored as an emergency number.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Call Options" → OK
4 "Call Restrict" → OK
5 Set which handsets will be restricted by selecting the handset then pressing .
- Restricted handsets have a "✓" next to them.
- To turn call restriction off for a handset, select the restricted handset, then press .

6 OK
7 Select a memory location. → OK
8 Enter the phone number or area code to be restricted (8 digits max.). → OK → 【⏻】
- To erase a restricted number, press 【C/⌫】.

Storing/changing emergency numbers

If you have set the call restriction feature (page 40) but want to allow a number to be dialled that would normally be restricted by call restriction, store the number as an emergency number.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Call Options" → OK
4 "Emergency No." → OK
5 Select a memory location. → OK
6 Enter/edit the number. → OK → 【⏻】
- To erase an emergency number, press and hold 【C/⌫】.

Other options

Changing the base unit PIN (Personal Identification Number)

For security, the base unit PIN must be entered when changing certain settings.

Important:

- If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you. If you forget your PIN, consult your nearest Panasonic service centre.

1 (centre of joystick) → → OK
2 Enter the base unit PIN (default: "0000").
3 "Other Options" → OK
4 "Base Unit PIN" → OK
5 Enter the new 4-digit base unit PIN. → OK → 【⏻】

TCD820FX(e-e).book Page 41 Tuesday, September 13, 2005 9:10 AM

Changing the unit's region setting/Resetting the base unit

1 (centre of joystick) → → OK

2 Enter the base unit PIN (default: **"0000"**).

3 **"Other Options"** → OK

4 **"Reset Base"** → OK

5 Select the desired country. → OK
"EG"=countries except Czech and Slovakia
"PD"[*1]
"CZ"=Czech
"SK"=Slovakia

*1 Do not select **"PD"**.

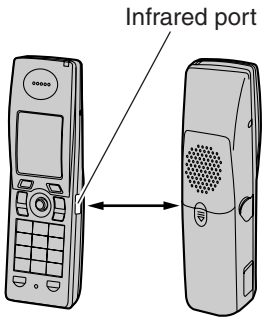
6 **"Yes"** → OK → 【】

Note:

- The following items will be deleted or reset to their default settings:
  - Settings listed on page 37, 50, 55
  - All SMS messages
  - Caller list
- The following items will be retained:
  - Date and time
  - Shared phonebook entries
  - Repeater mode
  - Recordings, including your greeting message, caller messages, voice memos, audible call announcements, and recorded conversations
- If you select the desired country in step 5, the following default settings will be changed for the selected country's default settings:
  - Message centre 1 and 2 (page 50)
  - Recall time (page 37)
  - Emergency number (page 37)
  - Language (page 26)
  - LetterWise (page 26)
  - ARS settings (page 37)
  - SMS on/off (page 50)
  - Number of times the unit redials when using the auto redial feature (page 16)
  - Language used for answering system announcements
- After resetting the base unit, Y will flash on the handset momentarily. This is normal. The handset can be used once Y stops flashing.

Copying saved data via infrared interface

You can copy stored phonebook entries as well as picture and ringtone data between other compatible Panasonic handsets, as well as compatible GSM phones that feature an infrared interface.
Infrared data transmission between the handset and other devices except GSM phones cannot be guaranteed.
See page 69 if you have difficulty using the features in this section.
Example: Handset 1 is sending its data to handset 2 (receiver)



Caution:
- This device contains a low power level Class 1 laser product (Infrared LED), which will not normally harm the eyes. Though invisible to the eye, do not point the infrared beam at anyone's eye. Nearby activated infrared devices may cause interference.

Important:
- Place the devices about 20 cm from each other, with their infrared ports pointing at each other.
- Make sure there are no obstructions between the two devices.
- Pictures larger than 176 (height) x 144 (width) pixels cannot be displayed. Pictures larger than about 50 KB cannot be displayed.
- Disconnect the USB cable from the handset when you copy data via infrared interface.
- You cannot send or receive data via infrared interface when the battery strength is low.
- Only characters shown in the character entry tables (page 61) can be used for phonebook entry names or file names of pictures or melodies.

Note:
- Certain GSM phones are not compatible with this feature.

Copying phonebook entries

Only names and phone numbers can be copied via infrared interface.

1 **Handset 1 and Handset 2 (receiver):**
(centre of joystick) → → OK

2 **Handset 1:**
"Send" → OK
Handset 2 (receiver):
"Receive" → OK

3 **Handset 1:**
"Phonebook" → OK

4 **Handset 1:**
"1 Entry" → OK
- To send all entries, select **"All Entries"**. → OK

5 **Handset 1:**
Select the desired entry. → OK
Handset 2 (receiver):
- When receiving more than one entry, **"Incoming data. Add all entries to phonebook?"** is displayed. Press OK to save all entries.

6 To copy another entry:
Handset 1:
Repeat step 5.

TCD820FX(e-e).book Page 43 Tuesday, September 13, 2005 9:10 AM

Handset 2 (receiver):
Select “**Receive**”, press OK, then repeat step 5.

7 Handset 1 and Handset 2 (receiver):
【✂⏻】

Note:

- The copying all entries feature may not be supported by your GSM phone.

Copying saved pictures

1 Handset 1 and Handset 2 (receiver):
⊞ (centre of joystick) → 🔧 → OK

2 Handset 1:
“**Send**” → OK
Handset 2 (receiver):
“**Receive**” → OK

3 Handset 1:
“**User Pictures**” → OK

4 Handset 1:
Push the joystick up or down to select the desired item. → OK

5 Handset 2 (receiver):
“**Save Picture**” → OK

- To see the picture, select “**View Picture**”. → OK

6 Handset 1 and Handset 2 (receiver):
【✂⏻】

Copying saved ringtones

1 Handset 1 and Handset 2 (receiver):
⊞ (centre of joystick) → 🔧 → OK

2 Handset 1:
“**Send**” → OK
Handset 2 (receiver):
“**Receive**” → OK

3 Handset 1:
“**User Ringtones**” → OK

4 Handset 1:
Select the desired item. → OK

5 Handset 2 (receiver):
“**Save Melody**” → OK

- To play the melody, select “**Play Melody**”. → OK

6 Handset 1 and Handset 2 (receiver):
【✂⏻】

Note:

- Melodies copied from GSM phones may sound different from the original when played on the handset.

TCD820FX(e-e).book Page 44 Tuesday, September 13, 2005 9:10 AM

Using Caller ID service

Important:

- This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider for details.

Caller ID features

When an outside call is received, the caller's phone number can be displayed.

- Phone numbers of the last 50 different callers will be logged in the caller list.
- While listening to a message recorded by the answering system using the handset, you can call back the caller without having to dial the phone number (page 53).
- When caller information is received and it matches a phone number stored in the unit's phonebook:
  - The stored name and picture will be displayed and logged in the caller list.
  - The handset will use the display colour and ringtone assigned to the caller's category.
  - The handset will announce the audible call recording you made.
- If the unit is connected to a PBX system, you may not receive the caller information.
- When the caller dialled from an area which does not provide Caller ID service, **"Out of Area"** will be displayed.
- When the caller requested not to send caller information, either no information or **"Private Caller"** will be displayed.

Missed calls

If a call is not answered, the unit treats the call as a missed call. ↔ and the number of missed calls are shown on the display. This lets you know if you should view the caller list to see who called while you were out.

Category features for handset phonebook

Categories can help you identify who is calling by using different ringtones and display colours for different categories of callers. When adding an entry to the handset phonebook you can assign it to the desired category (page 19). When a call is received from a caller assigned to a category, the category's display colour and ringtone you select is used.

Changing category ringtones

If you select **"Ext. Ringtone"**, the unit will use the external ringtone you set on page 30 when calls from this category are received. The default setting is **"Ext. Ringtone"**.

1 (left soft key) → ⌨
2 **"Category"** → OK
3 Select a category. → OK
4 Select the current setting of the category ringtone. → OK
5 Select the desired item. → OK

Ext. Ringtone	The ringtone assigned for external calls. Press 【✂⏻】 to finish.
Preset Ringtones	Ringtones stored in the handset at the time of purchase.

TCD820FX(e-e).book Page 45 Tuesday, September 13, 2005 9:10 AM

User Ringtones	Ringtones you stored in the handset (page 28, 31).

6 Select the desired ringtone. → OK → [⏻]

Changing category display colours

If you select **"Display Colour"**, the unit will use the display colour you set on page 33 when calls from this category are received. The default setting is **"Display Colour"**.

1 [📖] (left soft key) → [▦]
2 **"Category"** → OK
3 Select a category. → OK
4 Select the current setting of the category colour. → OK
5 Select the desired colour. → OK → [⏻]

Audible call for shared phonebook

Audible call allows you to know who is calling without looking at the display. If you record an audible call announcement for a shared phonebook entry (page 23), the audible call recording will be announced when you receive a call from that person.

Note:

- If the handset ringer is turned off, audible call announcements will not be heard.

Caller list

Viewing the caller list and calling back

Phone numbers of the last 50 different callers will be logged in the caller list. You can use this list to return missed calls.

1 [▦] (centre of joystick) → [📞] → OK
2 Push the joystick down to search from the most recent call. Push the joystick up to search from the oldest call.
- If the item has already been viewed or answered, "✓" is displayed, even if it was viewed or answered using another handset.
- To erase the item, press [C]. → **"Yes"** → OK

3 [📞] / [🔊]

Editing a caller's phone number before calling back

1 [▦] (centre of joystick) → [📞] → OK
2 Push the joystick up or down to display the desired entry.
3 **To add a number**
Press the dial key ([0] to [9]).
- The number you pressed is added to the top of the current number.

To erase a number
[▦] → **"Edit and Call"** → OK → Edit the number.

4 [📞] / [🔊] / OK

Erasing caller information

1 [▦] (centre of joystick) → [📞] → OK
2 Push the joystick up or down to display the desired entry. → [▦]
3 **"Erase"** → OK
- To erase all entries, select **"Erase All"**. → OK

4 **"Yes"** → OK → [⏻]

Storing caller information into the handset phonebook

1 [▦] (centre of joystick) → [📞] → OK
2 Push the joystick up or down to display the desired entry. → [▦]
3 **"Add Phonebook"** → OK

TCD820FX(e-e).book Page 46 Tuesday, September 13, 2005 9:10 AM

4 Continue from step 3, “Adding entries to the handset phonebook”, page 19.

Voice mail service

Voice mail is an automatic answering service offered by your service provider. If you subscribe to this service, your service provider’s voice mail system can answer calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by the service provider, not your telephone.
Please consult your service provider for details of this service.

Note:

- For more information on using the unit’s answering system and your service provider’s voice mail service, see page 56.

TCD820FX(e-e).book Page 47 Tuesday, September 13, 2005 9:10 AM

Using SMS (Short Message Service)

SMS allows you to send and receive text messages, phonebook entries, and receive pictures or melodies from other fixed-line and mobile phones that support compatible SMS networks and features.

Important:

- To use SMS features, you must:
  - subscribe to the Caller ID and/or appropriate service
  - confirm SMS is turned on
  - confirm the correct message centre numbers are stored

  Consult your service provider for details and availability.

Note:

- A total of 47 messages (at 160 characters/message) can be saved. Total number may be more than 47 if length of messages are less than 160 characters/message.
- If the unit is connected to a PBX system, you may not be able to use SMS features.

Turning SMS on

1 (centre of joystick) → ✉ → OK

2 "Settings" → OK

3 Enter the base unit PIN (default: "0000").

4 "SMS On/Off" → OK

5 "On" → OK → [⏻]

Storing/changing SMS message centre numbers

SMS message centre telephone numbers must be stored in order to send and receive SMS messages.

For Czech:

The message centre numbers (used for SMS services provided by Czech Telecom) are preprogrammed in this unit. You can change them if necessary.

For Slovakia:

The message centre numbers (used for SMS service provided by Slovak Telecom) are preprogrammed in this unit. You can change them if necessary.

- Consult your service provider for more information.

1 (centre of joystick) → ✉ → OK

2 "Settings" → OK

3 Enter the base unit PIN (default: "0000").

4 "Message Centre1" or "Message Centre2" → OK

5 Enter/edit the numbers. → OK

6 "Save" → OK → [⏻]

Note:

- If your phone is connected to a PBX, you need to add the PBX line access number and a dialling pause to the beginning of the Message Centre 1 phone number.

  (For Czech and Slovakia only)

  For Message Centre 2, store the Message Centre 1 phone number as is, without adding a line access number or dialling pause.

TCD820FX(e-e).book Page 48 Tuesday, September 13, 2005 9:10 AM

Sending a message

Writing and sending a new message

1 (centre of joystick) → ✉ → **OK**

2 **"Create"** → **OK**

- If **"Use Last Text?"** is displayed, you can use the text from the last message you created by pushing the joystick up.

3 Enter the message (page 61). → **OK**

- ✉ is displayed.

4 Enter the destination phone number (20 digits max.). → **OK**

- Using the handset phonebook:

  📖 → Select the handset phonebook entry. → **OK**

  When only 1 phone number is stored

  OK

  When 2 or more phone numbers are stored

  Select the desired phone number. → **OK** 2 times

- Using the caller list:

  Push the joystick up or down to select the party. → **OK** 2 times

- Using the redial list:

  Press ↩ repeatedly to select the phone number. → **OK** 2 times

5 To save the message, select **"Yes"**. → **OK**

6 To send the message, press **OK**.

- To cancel sending, press **【⏻】**.

Note:

- This unit supports SMS messages of up to 612 characters, however, the maximum number of characters you can send or receive may be limited by your SMS service provider. Consult your SMS service provider for details.
- If your message contains over 160 characters, the message is divided into multiple messages (up to 4), each containing a maximum of 160 characters. You can confirm how many messages are required to send your text by the number shown on the display (**"1"**, **"2"**, **"3"**, or **"4"**). The remaining number of characters that can be entered is displayed next to ✉. Your service provider may treat long messages (messages over 160 characters long) differently from other messages. Consult your service provider for details.
- If your phone is connected to a PBX, store the PBX line access number (page 50).

Sending a saved message

1 (centre of joystick) → ✉ → **OK**

2 **"Send List"** → **OK**

3 To read a saved message, push the joystick up or down to select the message. → **OK**

4 To send the message, press . → **"Send"** → **OK**

5 Press and hold **【C/✉】** to erase all numbers, then continue from step 4, "Writing and sending a new message", page 48.

Editing and sending a saved message

1 (centre of joystick) → ✉ → **OK**

2 **"Send List"** → **OK**

3 Push the joystick up or down to select the message. → **OK**

4 → **"Edit Message"** → **OK**
→ Continue from step 3, "Writing and sending a new message", page 48.

TCD820FX(e-e).book Page 49 Tuesday, September 13, 2005 9:10 AM

Erasing saved messages

1 (centre of joystick) → ✉ → **OK**

2 **"Send List"** → **OK**

3 Push the joystick up or down to select the message. → **OK**

4 → **"Erase"** → **OK**

- To erase all messages, select **"Erase All"**. → **OK**

5 **"Yes"** → **OK** → **【C】**

Sending a phonebook entry

You can send phonebook entries via SMS, however, only models that support the vCard data format can receive your phonebook entries.
vCard: a file format used for storing names and phone numbers

1 Find the desired handset phonebook entry (page 20). →

2 **"Copy"** → **OK**

3 **"SMS"** → **OK**

4 Enter the destination phone number (20 digits max.). → **OK**

5 **"Send"** → **OK**

Note:

- Only names and phone numbers can be sent via SMS.

Receiving a message

When an SMS message is received:

– a tone is heard (if the handset ringer is turned on)
– **"Receiving SMS Message"** is displayed
– ✉ is displayed
– the total number of new (unread) SMS messages is displayed next to ✉

Reading a received message

1 (centre of joystick) → ✉ → **OK**

2 **"Receive List"** → **OK**

3 Push the joystick up or down to select a message.

- Messages which have attached data are indicated by "📎".
- Messages which have already been read are indicated by a "✓", even if they were read using another handset.
- To erase a message, press **X**. → **"Yes"** → **OK**

4 Press **OK** to read the message content.

Note:

- To call the message sender, press **【】** or **【】**.

Storing attached pictures and melodies

1 While reading a received message, select 🖼 or ♪. → 📎 →

2 **"Save Picture"** or **"Save Melody"** → **OK**

3 Enter the name (10 characters max.; page 61). → → **【C】**

Storing attached phonebook entries into the handset phonebook

1 While reading a received message, select 📇. → 📎

2 → **【C】**

Replying to a message

1 While reading a received message, press .

2 **"Reply"** → **OK**

3 Enter a message (page 61). → **OK**

4 Edit the destination phone number and/or press **OK**.

TCD820FX(e-e).book Page 50 Tuesday, September 13, 2005 9:10 AM

5 Continue from step 5, “Writing and sending a new message”, page 48.

Editing/forwarding a message

1 While reading a received message, press (MENU).

2 **“Edit Message”** → **OK**

3 Continue from step 3, “Writing and sending a new message”, page 48.

Erasing received messages

1 While reading a received message, press (MENU).

2 **“Erase”** → **OK**

- To erase all messages, select **“Erase All”**. → **OK**

3 **“Yes”** → **OK** → **【⏻⓪】**

Storing the sender’s number in the handset phonebook

1 While reading a received message, press (MENU).

2 **“Add Phonebook”** → **OK**

3 Continue from step 3, “Adding entries to the handset phonebook”, page 19.

Editing the sender’s number before calling back

1 While reading a received message, press (MENU).

2 **“Edit and Call”** → **OK**

3 Edit the number. → **【📞】** / **【🔊】** / **OK**

Guide to SMS settings

If the base unit is reset to its default settings (page 41), the following SMS-related settings will be reset. The contents of the receive and send lists will be erased.

SMS settings	Page
SMS on/off (default: **“Off”**)*1	page 47
Message Centre 1	page 47
Message Centre 2	page 47
PBX line access number (default: **“Off”**)	page 50

*1 If you set the unit’s region setting (page 41) to **“CZ”** or **“SK”**, the default setting is **“On”**.

Storing the PBX line access number (for PBX users only)

Store your PBX line access number (4 digits max.) so that SMS messages are sent properly. When sending SMS messages to entries in the handset phonebook or redial list, the PBX line access number will be deleted.

1 (MENU) (centre of joystick) → ✉ → **OK**

2 **“Settings”** → **OK**

3 Enter the base unit PIN (default: **“0000”**).

4 **“PBX Access No.”** → **OK**

5 **“On”** → **OK**

6 Enter your PBX line access code and a dialling pause, if necessary. → **OK**

7 **“Save”** → **OK** → **【⏻⓪】**

TCD820FX(e-e).book Page 51 Tuesday, September 13, 2005 9:10 AM

Answering system

This unit contains an answering system which can answer and record calls for you when you are unavailable to answer the phone. You can also record your own voice memos (page 53) and phone conversations (page 18).

Important:

- Only 1 person can access the answering system (listen to messages, record a greeting message, etc.) at a time.
- When callers leave messages, the unit records the day and time of each message. Make sure the date and time have been set (page 15).

Memory capacity

The total recording capacity (including your greeting message, caller messages, voice memos, audible call announcements, and recorded conversations) is about 11 minutes. A maximum of 64 messages can be recorded.

Note:

- If message memory becomes full, the answer on indicator on the base unit flashes rapidly.

Turning the answering system on

Using the base unit

Press 【 】 to turn on/off the answering system.

- When the answering system is turned on, the answer on indicator lights up.
- When the answering system is turned off, the answer on indicator turns off and the unit automatically plays new messages, if any.

Using the handset

1 (centre of joystick) → → OK

2 → 【 】

Note:

- When the answering system is turned on, is displayed next to the battery icon.

Greeting message

When the unit answers a call, callers are greeted by a greeting message. You can record your own greeting message or use a prerecorded greeting message.

Recording a greeting message

You can record your own greeting message for up to 2 minutes and 30 seconds.

1 (centre of joystick) → → OK

2 “Record” → OK

3 “Record Greeting” → OK

- Hold the handset about 20 cm away and speak clearly into the microphone.

4 Press to stop recording. → 【 】

TCD820FX(e-e).book Page 52 Tuesday, September 13, 2005 9:10 AM

Using a prerecorded greeting message

If you erase or do not record your own greeting message, the unit can play a prerecorded greeting message for callers and ask them to leave messages. If the message recording time (page 56) is set to "**Greeting Only**", caller messages will not be recorded and the unit will play a different prerecorded greeting message asking callers to call again.

Playing back the greeting message

1 (centre of joystick) → → OK

2 "**Play Greeting**" → OK → 【↶①】

Erasing the greeting message

If you erase your own greeting message, the unit will play a prerecorded greeting message for callers.

1 (centre of joystick) → → OK

2 "**Erase Message**" → OK

3 "**Erase Greeting**" → OK

4 "**Yes**" → OK → 【↶①】

Listening to messages

Messages are stored and played back chronologically, from oldest message to newest.

Listening to new/all messages

When you have new messages:

– the answer on indicator on the base unit flashes

– is displayed

– the total number of new messages is displayed next to

– the base unit beeps about once a minute if the message alert feature (page 56) has been turned on

Using the base unit

【►/■】

- If new messages have been recorded, the base unit plays back new messages.
- If there are no new messages, the base unit plays back all messages.

Note:

- To adjust the speaker volume during playback, press 【∧】 or 【∨】.
- After playing back all of the new messages, the answer on indicator will stop flashing but will remain lit up when the answering system is turned on.

Using the handset

1 (centre of joystick) → → OK

2 "**Play New Msg.**" or "**Play All Msg.**" → OK

Note:

- To adjust the speaker volume during playback, push the joystick up or down.

Repeating, skipping, stopping, erasing a message during playback

- To repeat a message during playback:
  – for the base unit, press 【|◀◀】
  – for the handset, push the joystick left
  If pressed within the first 5 seconds of a message, the previous message will be played.
- To skip a message during playback:
  – for the base unit, press 【▶▶|】
  – for the handset, push the joystick right
- To stop a message during playback:
  – for the base unit, press 【►/■】
  – for the handset, press
- To erase a message during playback:

TCD820FX(e-e).book Page 53 Tuesday, September 13, 2005 9:10 AM

– for the base unit, press 【×】
– for the handset, press X. → **"Yes"** → OK

Erasing all messages

Using the base unit

【×】2 times

Note:

- The greeting message is not erased.

Using the handset

1 (centre of joystick) → → OK
2 **"Erase Message"** → OK
3 **"Erase All"** → OK
4 **"Yes"** → OK → 【⏻】

Note:

- The greeting message is not erased.

Calling back (Caller ID subscribers only)

If caller information was received for the call, you can call the caller back while listening to a message.

1 Press during playback.
2 **"Call Back"** → OK

Note:

- To edit the number before calling back, select **"Edit and Call"**. → OK → Edit the number. → OK

Recording a voice memo

To leave a private message for yourself or someone else, you can record up to 3 minutes of voice memo. This memo can be played back later, either directly or remotely.

1 (centre of joystick) → → OK
2 **"Record"** → OK
3 **"Record Memo"** → OK
- Hold the handset about 20 cm away and speak clearly into the microphone.

4 Press to stop recording. → 【⏻】

Direct command operation using the handset

You can operate the answering system by pressing dial keys, rather than navigating through the menus. To use the following commands, press (centre of joystick). → → OK

Key	Direct commands
【1】	Repeat message (during playback)*1
【2】	Skip message (during playback)
【3】	Enter the **"Settings"** menu
【4】	Play new messages
【5】	Play all messages
【6】	Play greeting message
【7】【4】	Record memo message
【7】【6】	Record greeting message
【8】	Turn answering system on
【9】	Stop (recording, playback)
【0】	Turn answering system off
【✳】【4】	Erase this message (during playback)
【✳】【5】	Erase all messages
【✳】【6】	Erase greeting message

*1 If pressed within the first 5 seconds of a message, the previous message will be played.

TCD820FX(e-e).book Page 54 Tuesday, September 13, 2005 9:10 AM

Remote operation

Using a touch tone phone, you can call your phone number from outside and access the unit to listen to messages or change answering system settings. The unit's voice guidance will prompt you to press certain dial keys to perform different operations.

Important:

- In order to operate the answering system remotely, you must first turn on remote operation by setting a remote access code. This code must be entered each time you operate the answering system remotely.

Turning remote operation on

A 3-digit remote access code must be entered when operating the answering system remotely. This code prevents unauthorised parties from listening to your messages remotely. After you store your remote access code, remote operation is possible.

1 (centre of joystick) → → OK

2 "Settings" → OK

3 "Remote Code" → OK

4 To turn on remote operation, enter a 3-digit remote access code.
- To turn off remote operation, press 【✳】.

5 OK → 【↶⏻】

Note:

- If you have stored the remote access code, you can turn on answering system by calling the unit even when it is turned off. This call may be answered before the ring delay feature of the night mode (page 32, 38) activates. You need to select "30 sec." for activating the ring delay feature.

Using the answering system remotely

1 Dial your phone number from a touch tone phone.

2 After the greeting message starts, enter your remote access code.
- The unit will announce the number of new messages.

3 Enter remote commands.

Note:

- You can hang up at any time.
- If less than 5 minutes of recording time is available, the unit will announce the remaining recording time after the last message is played back.
- If message memory is full, erase unnecessary messages (page 54).

Remote commands

Key	Remote command
【1】	Repeat message (during playback)*1
【2】	Skip message (during playback)
【3】【#】 Handset No.	Room monitoring
【4】	Play new messages
【5】	Play all messages
【6】	Play greeting message
【7】	Record greeting message
【9】	Stop (recording, playback)
【0】	Turn answering system off
【✳】【4】	Erase this message (during playback)
【✳】【5】	Erase all messages

TCD820FX(e-e).book Page 55 Tuesday, September 13, 2005 9:10 AM

Key	Remote command
【✱】【6】	Erase greeting message (during greeting message playback)
【✱】【#】	End remote operation (or hang up)

*1 If pressed within the first 5 seconds of a message, the previous message will be played.

Remote room monitoring

This feature allows you to listen in on a room where another handset is located, allowing you to monitor the sound in a room while out of the house. To use this feature, set the privacy feature to "`Off`" (page 35).

- While you are operating with remote commands:
  【3】 → Press 【#】 and enter the desired handset number within 10 seconds after the long beep.
- When finished, press 【9】 or hang up.

Turning on the answering system remotely

If the answering system is off, you can turn it on remotely.

1. Dial your phone number from a touch tone phone.
2. Let the phone ring 9 times.
   - A long beep will be heard.
3. Enter your remote access code within 10 seconds after the long beep.
   - The greeting message is played back.
   - You can hang up, or enter your remote access code again and begin remote operation.

Guide to answering system settings

If the base unit is reset to its default settings (page 41), the following answering system-related settings will be reset.

Answering system setting	Default setting	Page
Answering system on/off	Answer on	page 51
Remote access code	—	page 54
Number of rings	`4 Rings`	page 55
Caller's recording time	`3 Minutes`	page 56
Call screening	`On`	page 56
Message alert	`Off`	page 56

Changing the number of rings

You can change the number of times the phone rings before the unit answers calls. You can select 2 to 6 rings, or "`Auto`".

"`Auto`": The unit answers after 2 rings when new messages have been recorded, and after 5 rings when there are no new messages. If you call your phone from outside to listen to new messages (page 54), you will know that there are no new messages when the phone rings for the 3rd time. You can then hang up without being charged for the call.

1. (centre of joystick) → → OK
2. "`Settings`" → OK
3. "`Number of Rings`" → OK
4. Select the desired setting. → OK → 【⚒⏻】

For voice mail service subscribers

Please note the following:

– To receive messages correctly with your voice mail service, we recommend that you do not use the unit's answering system. Make sure that the answering system is turned off (page 51).
– If you would rather use the unit's answering system rather than the voice mail service provided by your service provider, ask your service provider to deactivate your voice mail service.

  If your service provider cannot do this, set this unit's **"Number of Rings"** setting so that this unit's answering system answers calls before the service provider's voice mail service tries to answer your calls. It is necessary to check the number of rings required to activate the voice mail service provided by your service provider before changing this setting.

Selecting the caller's recording time

You can change the maximum message recording time allotted to each caller, or set the unit to greet callers but not record messages.

1 (centre of joystick) → → **OK**
2 **"Settings"** → **OK**
3 **"Recording Time"** → **OK**
4 Select the desired setting. → **OK** → **[⏻]**

Turning call screening on

While a caller is leaving a message, you can screen the call through the handset speaker.

1 (centre of joystick) → → **OK**
2 **"Settings"** → **OK**
3 **"Call Screening"** → **OK**
4 **"On"** → **OK** → **[⏻]**

Turning message alert on

This feature alerts you when new messages have been recorded. The base unit beeps about once a minute until you have listened to all new messages.

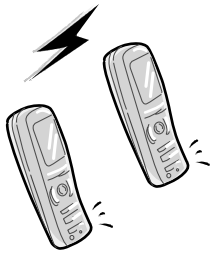
1 (centre of joystick) → → **OK**
2 **"Settings"** → **OK**
3 **"New Msg. Alert"** → **OK**
4 **"On"** → **OK** → **[⏻]**

Note:

- If the base unit is in night mode, the base unit will not beep when new messages are recorded.

TCD820FX(e-e).book Page 57 Tuesday, September 13, 2005 9:10 AM

Operating additional units



Additional handsets

Up to 6 handsets can be registered to a single base unit. Additional handsets will give you the freedom to, for example, have an intercom call with another handset while a third handset is on an outside call. See page 6 for information on ordering additional handsets.

Important:

- The additional handset model recommended for use with this unit is noted on page 6. If other model handset is used, certain operations (handset settings, base unit settings, etc.) may not be available.

Additional base units

Handsets can be registered to up to 4 base units, allowing you to add additional base units and extend the area in which your handset(s) can be used. If a handset moves out of range of its base unit when **"Auto"** is selected on base unit selection (page 58), it will look for another base unit to make or receive calls. A base unit and the handsets it communicates with is called a "radio cell".

Note:

- Calls will be disconnected when the handset moves from one radio cell to another.

Registering a handset to a base unit

The included handset and base unit are preregistered. If for some reason the handset is not registered to the base unit (for example, Ⓨ flashes even when the handset is near the base unit), register the handset manually (page 58).

To register an additional handset to a base unit (easy registration)

After purchasing an additional handset, register it to the base unit. Ensure that the additional handset is switched on. If it is not on, press and hold 【✆⏻】 for few seconds to turn the handset on.

1. Lift the additional handset and press 【✆⏻】 to put the handset in standby mode.
2. Press and hold 【📢】 on the base unit for about 3 seconds, until the registration tone sounds.
3. Place the additional handset on the base unit. The registration tone continues to sound. With the handset still on the base unit, wait until a confirmation tone sounds and Ⓨ stops flashing.

Note:

- If an error tone sounds, or if Ⓨ is still flashing, register the handset manually (manual registration; page 58).
- If all registered handsets start ringing in step 2, press 【📢】 to stop. Start again from step 1.
- Charge the batteries of your additional handset for about 7 hours before initial use.
- This registration method cannot be used for handsets that have already been registered to a base unit. Register the

TCD820FX(e-e).book Page 58 Tuesday, September 13, 2005 9:10 AM

handset manually (manual registration; page 58).

To register a handset to an additional base unit (manual registration)

You can register a handset to a base unit manually using the following method.

1 (centre of joystick) → → **OK**

2 **"Registration"** → **OK**

3 **"Register H.set"** → **OK**

4 Select a base unit number. → **OK**

- This number is used by the handset as a reference only.

5 Press and hold **[•))]** on the base unit for about 3 seconds, until the registration tone sounds.

- If all registered handsets start ringing, press **[•))]** to stop, then repeat this step.
- After pressing **[•))]**, the rest of this procedure must be completed within 1 minute.

6 Wait until **"Enter Base PIN"** is displayed, then enter the base unit PIN (default: **"0000"**), then press **OK**.

- When the handset has been registered successfully, will stop flashing. If keytones are turned on (page 35), a confirmation tone will be heard.

Selecting a base unit

When **"Auto"** is selected, the handset will automatically use any available base unit it is registered to. When a specific base unit is selected, the handset will make and receive calls using that base unit only. If the handset is out of range of that base unit, no calls can be made.

1 (centre of joystick) → → **OK**

2 **"Select Base"** → **OK**

3 Select the desired base unit number, or **"Auto"**. → **OK**

- The handset starts searching for the base unit.

Cancelling a handset

A maximum of 6 handsets can be registered to a base unit. A handset can cancel its own registration (or the registration of another handset) that is stored in the base unit. This will allow the base unit to "forget" the handset.

1 (centre of joystick) → → **OK**

2 Enter the base unit PIN (default: **"0000"**).

3 Enter **"335"**.

4 **"Cancel Handset"** → **OK**

- The numbers of all handsets registered to the base unit are displayed.

5 Select the handset(s) you want to cancel. → → **OK**

6 **"Yes"** → **OK** → **[C]**

Cancelling a base unit

A handset can be registered to a maximum of 4 base units. A handset can cancel a base unit that it is registered to. This allows the handset to "forget" the base unit.

1 (centre of joystick) → → **OK**

2 **"Registration"** → **OK**

3 Enter **"335"**.

4 **"Cancel Base"** → **OK**

5 Enter the handset PIN (default: **"0000"**).

6 Select the base unit(s) you want to cancel. → → **OK**

7 **"Yes"** → **OK** → **[C]**

Note:

- To register the handset to another base unit or to the same base unit again, see manual registration (page 58).

TCD820FX(e-e).book Page 59 Tuesday, September 13, 2005 9:10 AM

Increasing the range of the base unit

You can increase the range of the base unit by using a DECT repeater. Please use only the Panasonic DECT repeater noted on page 6. Consult your Panasonic dealer for details.

Important:

- Before registering the repeater to this base unit, you must turn the repeater mode on.

Setting the repeater mode

1 (centre of joystick) → → OK

2 Enter the base unit PIN (default: "0000").

3 "Other Options" → OK

4 "Repeater Mode" → OK

5 "On" → OK → 【】

Note:

- After turning repeater mode on or off, will flash on the handset momentarily. This is normal. The handset can be used once stops flashing.
- While the repeater mode is turned on, audible call announcements may not be heard from the handset speaker.

Intercom between handsets

Intercom calls can be made between handsets in the same radio cell.

Example: When handset 1 calls handset 2

1 **Handset 1:**
【INT】 → Select handset 2 (desired handset number). → / 【】 / 【】

2 **Handset 2:**
Press 【】 / 【】 to answer.

3 When finished talking, press 【】.

Transferring calls between handsets, conference calls

Outside calls can be transferred between 2 people in the same radio cell. 2 people in the same radio cell can have a conference call with an outside party.

Example: When handset 1 transfers a call to handset 2

1 **Handset 1:**
During an outside call, press 【INT】. → Select handset 2 (desired handset number). → / 【】 / 【】

- The outside call will be put on hold.
- If there is no answer, press 【INT】 to return to the outside call.

2 **Handset 2:**
Press 【】 / 【】 to answer the page.

- Handset 2 can talk with handset 1.

3 **Handset 1:**
To complete the call transfer, press 【】.
To establish a conference call, press .

Transferring a call without speaking to the other handset user

1 During an outside call, press 【INT】. → Select the desired handset number. → / 【】 / 【】

- flashes to indicate the outside call is on hold.

2 【】

- The outside call rings at the other handset.

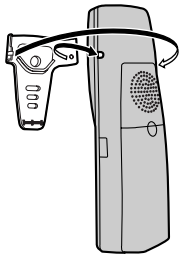
Note:

- If the other handset user does not answer the call within 1 minute, the call will ring at your handset again.

TCD820FX(e-e).book Page 60 Tuesday, September 13, 2005 9:10 AM

Using the belt clip

Attaching the belt clip

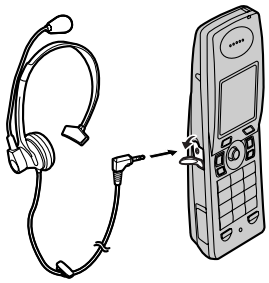


Removing the belt clip

Using an optional headset

Plugging an optional headset into the handset allows hands-free phone conversations. Please use only the Panasonic headset noted on page 6.

Connecting an optional headset



Note:

- The speakerphone is not available while a headset is plugged into the handset. To switch to speakerphone, disconnect the headset.

TCD820FX(e-e).book Page 61 Tuesday, September 13, 2005 9:10 AM

Character entry

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. When in ABC, АБГ, ÄÄÄ, ŠŠŠ, or АБВ character entry modes, you can select which character is entered by pressing a dial key repeatedly.
ŠŠŠ and АБВ are not available when writing SMS messages.

– Use the joystick to move the cursor.
– Press dial keys to enter characters and numbers.When you press **【1】**, a list of symbols is displayed. Select the desired symbol then press OK to insert the selected symbol, or press ↵ to insert additional symbols.
– Press **【C/⊠】** to erase the character or number highlighted by the cursor. Press and hold **【C/⊠】** to erase all characters or numbers.
– Press **【✳】** to switch between uppercase and lowercase.
– To enter another character located on the same dial key, push the joystick right to move the cursor to the next space, then press the appropriate dial key. (This is not necessary when entering text in LetterWise mode.)

Character entry modes

Several character entry modes can be used when entering text. The characters that can be entered depend on the entry mode.

LetterWise
LetterWise is a simplified text entry system which suggests the most likely letter to follow the previously entered letter. Each time you press a dial key, the letter most likely to be used is displayed. If the suggested character is incorrect, press **【#】** repeatedly to display the desired character. You can change the language which LetterWise uses to base its suggestions on (page 35).

Characters available in each character entry mode

When the unit displays the character entry screen:
Press right soft key repeatedly to select a character entry mode.

Note:

- For character entry when writing SMS messages, see page 63.

ABC Alphabet character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ✳ , - . / 1	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

Useful Information

0-9 Numeric entry table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
0	1	2	3	4	5	6	7	8	9

АВГ Greek character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ∗ , - . / 1	A B Γ 2	Δ E Z 3	H Θ I 4	K Λ M 5	N Ξ O 6	Π P Σ 7	T Y Φ 8	X Ψ Ω Ϋ 9

ÄÄÄ Extended 1 character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ∗ , - . / 1	A À Á Â Ã Ä Å Æ B C Ç 2	D E È É Ê Ë Ě F 3	G Ğ H I Ì Í Î Ï Ī Ĭ 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ö ø 6	P Q R S Ş ß 7	T U Ù Ú Û Ü Ũ V 8	W Ŵ X Y ŷ Z 9
		a à á â ã ä å æ b c ç 2	d e è é ê ë ẽ f 3	g ğ h i ì í î ï ī ĭ ı ĭ 4	j k l 5	m n ñ o ò ó ô õ ö ø 6	p q r s Ş ß 7	t u ù ú û ü ũ v 8	w Ŵ x y ŷ z 9

- The following are used for both uppercase and lowercase: ø Ş Ŵ ŷ

ŠŠŠ Extended 2 character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ∗ , - . / 1	A Á Ä Ą B C Ć Č 2	D Ď E É Ę Ě F 3	G H I Í 4	J K L Ł Ĺ Ľ 5	M N Ń Ň O Ó Ö Ő 6	P Q R Ŕ Ř S Ś Š 7	T Ť U Ú Ü Ű ů V 8	W X Y ỳ Ý Z Ź Ż Ž 9
		a á ä ą b c ć č 2	d ď e é ę ě f 3	g h i í 4	j k l ł ĺ ľ 5	m n ń ň o ó ö ő 6	p q r ŕ ř s ś š 7	t ť u ú ü ű ů v 8	w x y ỳ ý z ź ż ž 9

- The following are used for both uppercase and lowercase:

  Ą Ć Č Ę Ł Ĺ Ľ Ń Ŕ Ś Š ů ỳ Ź Ż Ž

АБВ Cyrillic character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0 ґ є і ї ў	Space # & ' ( ) ∗ , - . / 1	А Б В Г 2	Д Е Ж З 3	И Й К Л 4	М Н О П 5	Р С Т У 6	Ф Х Ц Ч 7	Ш Щ Ъ Ы 8	Ь Э Ю Я 9

LetterWise character table (for English)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' ( ) ∗ , - . / 1	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

TCD820FX(e-e).book Page 63 Tuesday, September 13, 2005 9:10 AM

When writing SMS messages

LetterWise character table (for English)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; ✱ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

Alphabet character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; ✱ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9

Numeric entry table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
0	1	2	3	4	5	6	7	8	9

Greek character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; ✱ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	A B Γ 2	Δ E Z 3	H Θ I 4	K Λ M 5	N Ξ O 6	Π P Σ 7	T Y Φ 8	X Ψ Ω 9

Extended character table

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space . @ / : ; ✱ # + - 1 " ' , ! ¡ ? ¿ _ € £ $ ¥ ( ) [ ] { } & % \ ^ ~ | < > = ¤ §	A À Á Â Ã Ä Å Æ B C Ç 2	D E È É Ê Ë Ẽ F 3	G Ğ H I Ì Í Î Ï Ĩ İ 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ö ø 6	P Q R S Ş ß 7	T U Ù Ú Û Ü Ũ V 8	W X Y Z 9
		a à á â ã ä å æ b c ç 2	d e è é ê ë ẽ f 3	g ğ h i ì í î ï ĩ ı 4	j k l 5	m n ñ o ò ó ô õ ö ø 6	p q r s Ş ß 7	t u ù ú û ü ũ v 8	w x y z 9

- The following are used for both uppercase and lowercase: ø Ş

TCD820FX(e-e).book Page 64 Tuesday, September 13, 2005 9:10 AM

Error messages

Error message	Cause & solution
Answer Sys. Full	● Erase unnecessary messages (page 52).
Connect an audio device.	● An audio device is not connected to the handset. Connect an audio device to the handset.
Error	● Recording was too short. Try again.
Error. Charge battery.	● Battery strength is low. Charge the batteries and copy again.
Failed	● Phonebook copy failed. Confirm the other handset (the receiver) is in standby mode and try again.
Incomplete	● There was an error while copying phonebook entries. Erase the unnecessary phonebook entries from the other handset (the receiver) and try again.
Invalid Number	● You tried to send an SMS message to a phone number saved in the handset phonebook, caller list, or redial list that is over 20 digits long.
Memory Full	● There is no space to store new entries for phonebook. Erase unnecessary entries for the handset phonebook (page 21) or for the shared phonebook (page 24). ● The receiving handset's memory is full. Erase unnecessary entries or data (page 21, 29). ● Message memory becomes full. Erase unnecessary messages (page 52).
SMS Full	● Erase unnecessary messages (page 49, 50).
This data cannot be transmitted.	● Melodies you recorded cannot be copied to other handsets.
Transmission failed. Try again?	● There was an error during transmission. See page 42 for more information.
Unrecognised data. Try again?	● You tried to send invalid data. You cannot send/copy invalid data.

TCD820FX(e-e).book Page 65 Tuesday, September 13, 2005 9:10 AM

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the AC adaptor and turn off the handset, then reconnect the AC adaptor and turn on the handset.

Telephone

Problem	Cause & solution
Y is flashing.	● The handset is not registered to the base unit. Register it (page 57). ● The handset is too far from the base unit. Move closer. ● The AC adaptor is not connected. Check the connections. ● You are using the handset or base unit in an area with high electrical interference. Locate the handset and base unit away from interference sources, such as antenna and mobile phones.
The handset display is blank.	● The handset is not turned on. Turn the power on (page 14).
The handset will not turn on.	● Make sure that the batteries are installed correctly (page 12). ● Fully charge the batteries (page 13). ● Clean the charge contacts and charge again (page 13).
The display is dark and displayed items are very faint.	● The handset is in screen saver mode (page 13).
I have changed the display language to a language I cannot read.	● Change the display language (page 14).

Useful Information

Problem	Cause & solution
I cannot make or receive calls.	● The AC adaptor or telephone line cord is not connected. Check the connections. ● If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall socket directly. If the unit operates properly, check the splitter. ● Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider. ● The dialling mode setting is incorrect. Set to **"Tone"** or **"Pulse"** as needed (page 14). ● The direct call feature is turned on. Turn it off (page 34). ● You dialled a call restricted number (page 40). ● The key lock feature is turned on. Turn it off (page 17).
The unit does not ring.	● The ringer volume is turned off. Adjust the ringer volume (page 30, 38). ● The night mode feature is turned on. Turn it off (page 32, 38).
The batteries should be charging but the battery icon does not change.	● Clean the charge contacts and charge again (page 13).
A busy tone is heard when 【↷】 is pressed.	● The handset is too far from the base unit. Move closer and try again. ● Another handset is on an outside call. Wait for the other user to complete the call.
Static is heard, sound cuts in and out. Interference from other electrical units.	● Locate the handset and the base unit away from other electrical appliances. ● Move closer to the base unit. ● If your unit is connected to a telephone line with DSL service, the DSL service may be interfering with your telephone service. We recommend connecting a filter to the telephone line between the base unit and the telephone line jack. Contact your DSL service provider for more information.
Noise is heard during a call.	● You are using the handset or base unit in an area with high electrical interference. Locate the handset and base unit away from interference sources, such as antenna and mobile phones.

TCD820FX(e-e).book Page 67 Tuesday, September 13, 2005 9:10 AM

Problem	Cause & solution
The handset/base unit stops working while being used.	● Disconnect the AC adaptor and turn off the handset. Connect the AC adaptor, turn on the handset and try again.
Pressing ↺ does not display/dial the last number dialled.	● The redialled number was more than 24 digits long. Redial the number manually.
Mute does not turn off after the line is connected.	● Press **【C/⊠】**.
The handset beeps intermittently and/or ▯ flashes.	● Fully charge the batteries (page 13).
I fully charged the batteries, but ▯ still flashes.	● Clean the charge contacts and charge again (page 13). ● It is time to replace the batteries (page 12).
Caller information is not displayed.	● You must subscribe to Caller ID service. ● Consult your service provider. ● If your unit is connected to a telephone line with DSL service, the DSL service may be interfering with your telephone service. We recommend connecting a filter to the telephone line between the base unit and the telephone line jack. Contact your DSL service provider for more information.
While viewing caller information, the display returns to standby mode.	● Do not pause for over 1 minute while searching.
I cannot register a handset to a base unit.	● The maximum number of base units (4) are already registered to the handset. Cancel unused base unit registrations from the handset (page 58). ● The maximum number of handsets (6) are already registered to the base unit. Cancel unused handset registrations from the base unit (page 58). ● You entered the wrong PIN number. If you forget your PIN, consult your nearest Panasonic service centre. ● Locate the handset and the base unit away from other electrical appliances.

TCD820FX(e-e).book Page 68 Tuesday, September 13, 2005 9:10 AM

SMS (Short Message Service)

Problem	Cause & solution
I cannot send or receive SMS messages.	● You have not subscribed to the appropriate service. Consult your service provider. ● The SMS message centre number(s) are not stored or are incorrect. Store the correct numbers (page 47). ● Message transmission was interrupted. Wait until the message has been sent before using other telephone functions. ● If your unit is connected to a telephone line with DSL service, the DSL service may be interfering with your telephone service. We recommend connecting a filter to the telephone line between the base unit and the telephone line jack. Contact your DSL service provider for more information.
The SMS message centre number is logged in the caller list and the message is not received.	● Someone tried to send you a message while SMS is turned off.
"FD" is displayed.	● The unit could not connect to the SMS message centre. Confirm that the correct SMS message centre numbers are stored (page 47). Confirm that SMS is turned on (page 47).
"FE" is displayed.	● An error occurred while sending the message. Try again.
"E0" is displayed.	● Your phone number is permanently withheld or you have not subscribed to the appropriate service. Consult your service provider.
"✓" is not displayed after I read a message.	● When an error code (**"FD"**, **"FE"**, or **"E0"**) is displayed, "✓" will not be displayed even if you have read the message.

Answering system

Problem	Cause & solution
The other party complains that they cannot leave a message.	● The recording time is set to **"Greeting Only"**. Select **"1 Minute"** or **"3 Minutes"** (page 56).
I cannot operate the answering system with the handset.	● The base unit or another handset is being used. Wait for the other user to finish. ● A caller is leaving a message. Wait for the caller to finish. ● The handset is too far from the base unit. Move closer.

TCD820FX(e-e).book Page 69 Tuesday, September 13, 2005 9:10 AM

Problem	Cause & solution
When I try to operate the answering system with the base unit, the answer on indicator flashes for a few seconds and I cannot operate the answering system.	● Another handset is being used. Wait for the other user to finish. ● A caller is leaving a message. Wait for the caller to finish.
I cannot operate the answering system remotely.	● You are entering the wrong remote access code. If you forget the remote access code, store a new remote access code again (page 54). ● You are pressing the dial keys too quickly. Press each key firmly. ● The answering system is turned off. Turn it on (page 55). ● You are using a pulse telephone. Try again using a touch tone phone.
While recording a greeting message or listening to messages, the unit rings and recording stops.	● A call is being received. Answer the call and try again later.

Data from other devices

Problem	Cause & solution
I cannot reduce the size of a picture.	● You are trying to reduce a phonebook-size picture (64 x 68). Phonebook pictures and pictures smaller than 64 x 68 cannot be reduced.
The wallpaper pattern or ringtone I set has been changed to its default setting.	● You erased the picture or ringtone that you set for wallpaper or user ringtone (handset ringtone, memo alarm, or category ringtone).
Copy failed during an infrared transmission.	● The infrared signal is not being transmitted properly. See page 42 for more information.
I received a phonebook entry, but not all of the data was received.	● Only names and phone numbers (0–9, ✳, #) can be received. ● You can receive up to 3 phone numbers for each entry. ● Only characters shown in the character entry tables (page 61) can be displayed. ● Lowercase letters may be converted to uppercase letters. ● Only the first 16 characters of a name and the first 24 digits of a phone number can be received. Data that exceeds this limit will not be received.

Useful Information

Problem	Cause & solution
I cannot receive pictures or ringtones via infrared interface from a GSM phone.	● The following picture and melody formats are supported: Pictures: JPEG (176 (height) x 144 (width) pixels max., about 50 KB) Melodies: MIDI (about 40 KB), iMelody
The melody sounds different from the original.	● Melodies copied from a GSM phone may sound different from the original when played on the handset. ● Melodies copied from your PC using a USB cable may sound different from the original when played on the handset. Connect the handset to your PC using an audio cable and record the melody (page 31).

TCD820FX(e-e).book Page 71 Tuesday, September 13, 2005 9:10 AM

Specifications

■ **Standard:**
DECT (Digital Enhanced Cordless Telecommunications),
GAP (Generic Access Profile)

■ **Number of channels:**
120 Duplex Channels

■ **Frequency range:**
1.88 GHz to 1.9 GHz

■ **Duplex procedure:**
TDMA (Time Division Multiple Access)

■ **Channel spacing:**
1,728 kHz

■ **Bit rate:**
1,152 kbit/s

■ **Modulation:**
GFSK (Gaussian Frequency Shift Keying)

■ **RF transmission power:**
Approx. 250 mW

■ **Voice coding:**
ADPCM 32 kbit/s

■ **Power source:**
220–240 V, 50 Hz

■ **Power consumption, Base unit:**
Standby: Approx. 1.9 W
Maximum: Approx. 6.8 W

■ **Operating conditions:**
5 °C–40 °C, 20 %–80 % relative air humidity (dry)

■ **Dimensions:**
Base unit: Approx. 54 mm × 110 mm × 168 mm
Handset: Approx. 158 mm × 48 mm × 34 mm

■ **Mass (weight):**
Base unit: Approx. 332 g
Handset: Approx. 154 g

Note:

- Specifications are subject to change.
- The illustrations used in these operating instructions may differ slightly from the actual product.

Connections:

- The unit will not work during a power failure. We recommend you connect a standard telephone on the same line for power protection.

TCD820FX(e-e).book Page 72 Tuesday, September 13, 2005 9:10 AM

Conditions for usage (For Czech)

*1 Připojení tohoto bezdrátového telefonního přístroje k analogovému bodu veřejné telekomunikační sítě a uvedení do provozu může provést účastník sám podle Návodu k použití.

*2 Zařízení je schopno samostatného provozu a je řešeno jako ukončovací. Na účastnické vedení jej lze připojit samostatně, ale i společně s jiným schváleným koncovým zařízením.

*3 Zařízení je dodáváno s odpojitelným telefonním kabelem s konektory typu RJ11 a musí být tímto kabelem k účastnické zásuvce připojeno. Pro připojení zařízení do čtyřkolíkové účastnické zásuvky musí být použita schválená redukce. (není součástí dodávky)

*4 Zařízení je napájeno ze sítě pomocí síťového adaptéru, který je součástí dodávky. Funkčnost zařízení je závislé na tomto druhu napájení. Pro připojení napájení nepoužívejte v žádném případě adaptér jiného typu.

*5 Před použitím zařízení je nutno nabít baterie a to po dobu nejméně 7 hodin. Telefonní kabel připojte až po prvním nabití baterií.

*6 Tento bezdrátový telefonní přístroj lze provozovat v rámci Generální licence č. GL-23/R/2001.

TCD820FX(e-e).book Page 73 Tuesday, September 13, 2005 9:10 AM

Declaration of conformity form (For Czech and Slovakia)

Panasonic

Panasonic Communications Co., Ltd.
1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531 Japan

Declaration of Conformity

Document No. PCTP-050019-01

011767

(Issuer's name & address)
Panasonic Communications Co., Ltd.
Hakata-ku, Fukuoka, Japan

(Object of the declaration)
(Product) : Digital Enhanced Cordless Telephone
(Trade Name) : Panasonic
(Model Nr.) :
Base Unit KX-TCD820E, KX-TCD820FR, KX-TCD820FX, KX-TCD820G, KX-TCD820JT, KX-TCD820NL, KX-TCD820SL, KX-TCD820TR
Portable unit KX-TCA181E, KX-TCA181EX, KX-TCA181FX
AC adapter : PQLV19E, PQLV19CE
Optional Handset : KX-TCA181E, KX-TCA181EX, KX-TCA181FX with ac adapter PQLV200E, PQLV200CE
Charger unit : PQLV30040ZA
(Country of origin) : Thailand, China

The object of the declaration described above is in conformity with the requirements of the following EU legislations and harmonized standards:

(Council directive) : 1999/5/EC
(Harmonized standards) :
EN301 489-01V1.4.1 (08-2002) EN301 489-06V181 (08-2002)
EN60950-1:2001; EN301 406V1.5.1 (07-2003), EN50385:2002, EN 50360 :2001

Signed for and on behalf of :

Printed Name : Shigehiko Kaneko
Title : Director
Date of issue : 24 June 2005

****

Contact:
Panasonic Services Europe
a Division of Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

(Signature) :
(Printed name) : Wolfram Kühl
(Date) : 28. Juni 2005

The object of the declaration described above <Object of the declaration> is in conformity with the requirements of the following EU legislations <1999/5/EC> and harmonized standards <Harmonized standards>.

TCD820FX(e-e).book Page 74 Tuesday, September 13, 2005 9:10 AM

Index

A Additional base units: *57*
Additional handsets: *57*
Alarm: *30*
Answering calls: *18*
Answering system: *51*
  Listening to messages: *52*
  Remote operation: *54*
  Settings: *55*
  Turning on/off: *51*
ARS (Automatic Route Selection): *39*
  Area codes: *39*
  Carrier codes: *39*
Audible call: *23*, *24*, *45*
Auto intercom: *35*
Auto talk: *18*, *34*

B Base unit
  Cancelling: *58*
  Resetting: *41*
  Selecting: *58*
  Settings: *37*
Battery
  Charge: *13*
  Installation: *12*
  Life: *13*
  Replacement: *12*
  Strength: *13*

C Caller ID service: *44*
Call restriction: *40*
Category: *19*
  Display colours: *45*
  Ringtones: *44*
Chain dial: *22*
Character entry: *61*
Conference calls: *59*
Connections: *12*
Copy
  Phonebook: *25*, *42*
  Picture: *43*
  Ringtone: *43*
Customise ringtones: *31*

D Date and time: *15*
Dialling mode: *14*
Direct call: *34*
Display
  Colour: *33*
  Contrast: *33*
  Icons: *9*
  Language: *14*
  Standby mode: *33*
  Wallpaper: *33*

E Emergency numbers: *40*

H Handset
  Cancelling: *58*
  Locator: *18*
  Power on/off: *14*
  Registration: *57*
  Resetting: *36*
  Settings: *26*

I Infrared: *42*
Intercom: *59*

K Key lock: *17*
Keytones: *35*

L LetterWise: *35*, *62*, *63*

M Making calls: *16*
Media browser: *28*
  Memory status: *29*
  Reducing pictures: *28*
  Trimming pictures: *28*
Memo alarm: *30*
Missed calls: *44*
Monitor
  Baby monitor: *34*
  Room monitor: *55*
Mute: *17*

N Night mode
  Base unit: *38*
  Handset: *32*

O One touch dial: *21*

P Pause: *17*, *39*
Phonebook copy: *25*, *42*
Phonebooks
  Handset phonebook: *19*
  Shared phonebook: *23*
PIN
  Base unit: *40*
  Handset: *35*
Power on/off: *14*
Privacy: *35*

R Recall: *17*, *38*

TCD820FX(e-e).book Page 75 Tuesday, September 13, 2005 9:10 AM

Recording
Audible call: *23*
Greeting message: *51*
Telephone conversations: *18*
Voice memo: *53*
Redialling: *16*
Redial list: *16*
Registration: *57*
Repeater: *59*
Ringtones: *30*

S Screen saver mode: *13*
SMS feature: *47*
Speakerphone: *16*

T Temporary tone dialling: *17*
Transfer calls: *59*

U USB GEAR: *3*, *28*

V Voice changer: *17*
Voice enhancer: *17*
Voice mail: *46*
Volume
Receiver: *16*
Ringer (Base unit): *38*
Ringer (Handset): *30*
Speakerphone: *16*

CE0436

1999/5/EC

Sales Department:

GL-23/R/2001 (for Czech)
Panasonic Czech Republic, s.r.o.
Křižíkova 237/36A (Palác Karlín)
186 00 Praha 8
telefon: +420-236 032 511
centrální fax: +420-236 032 411
e-mail:info@panasonic.cz
e-mail:pcsserv@panasonic.cz
aktuální info na www.panasonic.cz

VPR-7/2001 (for Slovakia)
Panasonic Slovakia, s.r.o.
Štúrova 11, 811 02 BRATISLAVA,
Slovenská republika
Tel. číslo:+421-2-5292-1423
Fax: +421-2-5292-1411
e-mail:sales@panasonic.sk
web: www.panasonic.sk

Panasonic Communications Co., Ltd.
1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

Copyright:
This material is copyrighted by Panasonic Communications Co., Ltd., and may be reproduced for internal use only. All other reproduction, in whole or in part, is prohibited without the written consent of Panasonic Communications Co., Ltd.

© 2005 Panasonic Communications Co., Ltd. All Rights Reserved.

PQQX14844ZA CT0905DS0 **FX-2/3**