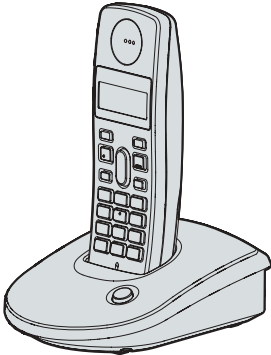# Panasonic

Operating Instructions

Digital Cordless Phone

Model No. **KX-TG1070FX**
KX-TG1072FX

Digital Cordless Answering System

Model No. **KX-TG1090FX**

KX-TG1070

Charge the batteries for about 10 hours before initial use.

Table of Contents

You must subscribe to Caller ID service to use this feature.

Caller ID

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

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 unit)
Date of purchase
Name and address of dealer

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
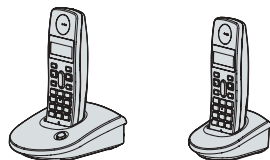Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Your phone

KX-TG1070 / KX-TG1090


The pictured model is KX-TG1070.

KX-TG1072

Included accessories

No.	Accessory items	Quantity	
		KX-TG1070 KX-TG1090	KX-TG1072
1.	AC adaptor for base unit Part No. PQWATG1070CE	1	1
2.	Telephone line cord	1	1
3.	Rechargeable batteries AAA (R03) size Part No. HHR-55AAAB or HHR-4EPT	2	4
4.	Handset cover*	1	2
5.	Charger Part No. PQWETGA107CE	–	1

* The handset cover comes attached to the handset.

1.   2.   3.

4.   5.
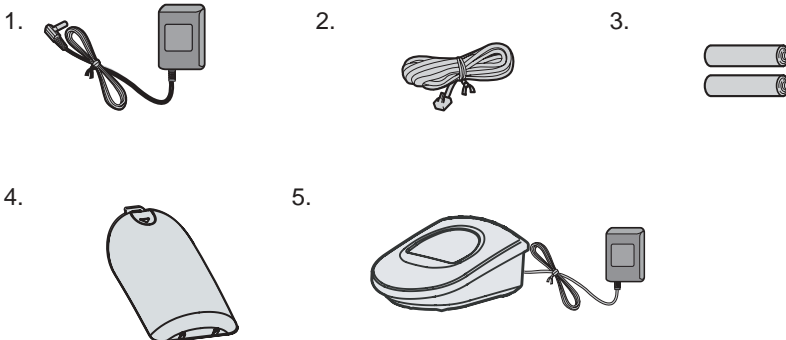
Note:
- When replacing the batteries, use only 2 rechargeable AAA (R03) size nickel metal hydride (Ni-MH) batteries of capacity up to 750 mAh. We recommend using Panasonic rechargeable batteries (Model No. P03P).
- We cannot be responsible for any damage to the unit or degradation of performance which may occur from using non-Panasonic rechargeable batteries.

Important information

General
- Use only the AC adaptor included with this product, noted on page 3.
- 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.
- Do not open the base unit, charger 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.
- Only the included handset can be used with the base unit. No other handsets can be registered or used.

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 3. **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.

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.

Connections

Base unit

Hook

→ 1

→ 2
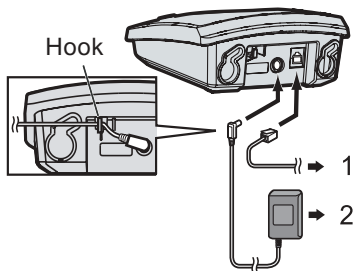
1. To telephone network
2. 220-240 V, 50 Hz

Note:
- Use only the included AC adaptor and telephone line cord.
- Connect the AC adaptor securely to the AC outlet.
- To mount the base unit to the wall, see page 23.

Charger
KX-TG1072

→ 1

1. 220-240 V, 50 Hz

Note:
- Never install telephone wiring during a lightning storm.
- 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
Important:
- Wipe the battery ends (+,–) with a dry cloth.
- Install the batteries without touching the battery ends (+,–) or the unit contacts.
1 Press the notch of the handset cover firmly and slide it in the direction of the arrow.
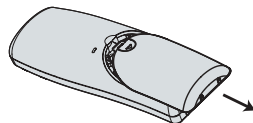
2 Insert the batteries negative (–) terminal first. Close the handset cover.
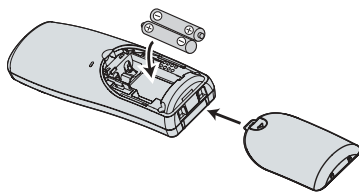
Note:
- Use only the included rechargeable batteries.

Battery charge

Place the handset on the base unit or charger for about 10 hours before initial use.

When charging, ⌷ and ▣ are alternately shown on the display. When the batteries are highly charged, ▣ remains on the display.

Battery strength

Battery icon	Meaning
▣	The handset can be used.
☼	Needs to be charged.

Panasonic Ni-MH battery performance

When you charge the batteries for 10 hours from the battery empty status, the following performance is available.

Operation	Operation time
In continuous use	10 hours max.*
In continuous standby mode	120 hours max.*

* When operation temperature is 25 °C.

Note:
- It takes 10 hours to fully charge the batteries, however, you can use the handset if ▣ remains on the display while charging.
- It is normal for batteries not to reach full capacity at the initial charge. Maximum battery performance is reached after a few complete cycles of charge/discharge (use).
- Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).
- Even after the handset is fully charged, the handset can be left on the base unit or charger without any ill effect on the batteries.
- The battery strength may not be displayed correctly after you replace the batteries. In this case, place the handset on the base unit or charger and charge for at least 10 hours.
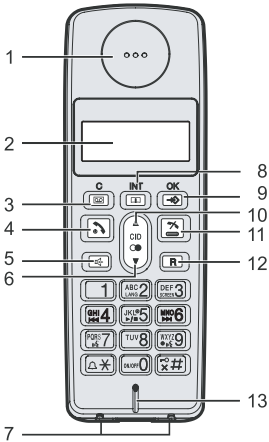
Controls

Handset
KX-TG1070/KX-TG1072
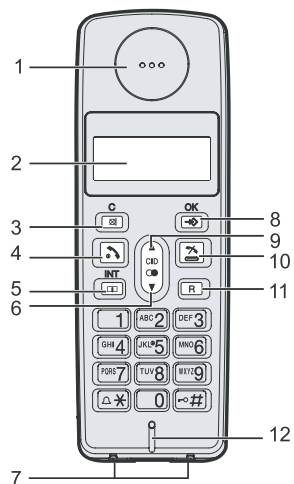
1. Receiver
2. Display
3. [⌧/C] Mute / Clear
4. [↘] Talk
5. [☎/INT] Phonebook / Intercom
6. [▾ /⟲●] Volume down / Redial list
7. Charge contacts
8. [➪ /OK] Setting / OK
9. [▴ /CID] Volume up / Call log
10. [☒] Off
11. [R] Recall
12. Microphone

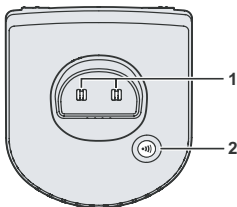## Handset
KX-TG1090

1. Receiver
2. Display
3. [/C] Answering system / Clear / Mute
4. [ ] Talk
5. [ ] Speakerphone
6. [/] Volume down / Redial list
7. Charge contacts
8. [/INT] Phonebook / Intercom*
9. [/OK] Setting/OK
10. [/CID] Volume up / Call log
11. [ ] Off
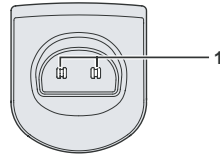12. [R] Recall
13. Microphone
* For models with 2 or more handsets included.

Base unit

1. Charge contacts
2. [ ] Page

Charger
KX-TG1072

1. Charge contacts

Displays

Icons	Meaning
Ψ	Handset within range of base unit • When this icon is not displayed: out of range, no registration or no power on base unit
➔>	Setting mode
☎	Making or answering a call
☎	Incoming call
•))	Intercom call in progress
⌀	Ringer volume is off
⊶	Key lock is on
⊠	Microphone is muted
☐	Phonebook
▣	The handset can be used.
▱	Needs to be charged.

Icons	Meaning
L	Displayed when you press [✳]
⊔	Displayed when you press [#]
Ʀ	Displayed when you press [**R**]
Ρ	Displayed when you long press [**0**]
[2]	If the current handset number is 2, "[**2**]" is displayed
ꓭꓭꓭ	Displayed when you press and hold [**INT**].

For KX-TG1090 only

Icons	Meaning
⊄⟩	Speakerphone is on
⚏	Answer system is on
⚏	Answer system setting mode is selected
⚏	New message in message box
⚏	Answering system answers a call or new message is being recorded.
F	Answering system memory is full

Symbols used in these operating instructions

Symbol	Meaning
[⇢ /**OK**]	Press [⇢ /**OK**]
>	Proceed to the next operation

Guide to telephone settings

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

Items	Default setting	Page
Date and time	-	Page 10
12 and 24-hour display format	24-hour	Page 10
Handset ringer tone	1	Page 10
Handset ringer volume	5	Page 11
Handset key tone	On	Page 11
Dial mode *	Tone	Page 11
Auto talk	Off	Page 11
Recall time *	600 ms	Page 11
PIN *	0000	Page 11

* You do not need to program the same item using another handset (for models with 2 or more handsets included).

Date and time
1 [➙/**OK**] > [**1**]
2 Enter the current hour and minute (in the 24-hour format).
3 [➙/**OK**]
4 Enter the current day, month, and year (dd-mm-yy).
5 [➙/**OK**] to save the setting.
Note:
- (KX-TG1072 only) If you set the date and time with handset 1, press [➘] and [✕] on another handset to show the time on that handset.
- The date and time may be incorrect after a power failure. In this case, set the date and time again.

12 and 24-hour display format
1 [➙/**OK**] > [**2**]
2 Press [▲] or [▼] to select between "12" and "24"-hour display format.
3 [➙/**OK**] to save the setting.
Note:
- When 12-hour format is selected, "A" or "P" shows next to the current time to indicate AM or PM time.

Handset ringer tone
1 [➙/**OK**] > [**4**]
2 Press [▲] or [▼] to select a tone.
- 6 tones are available.
3 [➙/**OK**] to save the setting.

Handset ringer volume

1 [➔/**OK**] > [**5**]
2 Press [▲] or [▼] to select handset ringer volume.
• 5 levels are available.
• The handset plays the selected tone at that volume while selecting.
3 [➔/**OK**] to save the setting.

Handset key tone (On/Off)

1 [➔/**OK**] > [**6**]
2 Press [▲] or [▼] to select handset key tone "On" or "OFF".
3 [➔/**OK**] to save the setting.

Dial mode (Tone/Pulse)

1 [➔/**OK**] > [**7**]
2 Press [▲] or [▼] to select between tone "1" and pulse "2" dial modes.
3 [➔/**OK**] to save the setting.
Note:
• Consult your service provider/telephone company for details of this setting.

Auto talk

Auto talk feature allows you to answer calls simply by lifting the handset off the base unit or charger. You do not need to press [✆] key.
1 [➔/**OK**] > [**8**]
2 Press [▲] or [▼] to select between "On" and "OFF".
3 [➔/**OK**] to save the setting.

Recall time

8 recall time values are available for selection.
1 [➔/**OK**] > [**R**]
2 Press [▲] or [▼] to select a value (options: 80, 100, 120, 180, 250, 300, 600 and 800 ms) (factory setting: 600 ms).
3 [➔/**OK**] to save the setting.

Note:
• Consult your service provider/ telephone company for details of this setting.

Setting PIN

Set the PIN to prevent others from accidentally resetting the telephone settings.
• Factory setting is "0000".

Changing to a new PIN

If you change the PIN, please write down your new PIN as the unit will not reveal the PIN to you.
1 [➔/**OK**] > [✳]
2 Enter the current 4 digit PIN > [➔/**OK**]
• If a wrong PIN is entered, a long beep will be heard.
3 Create a PIN (4 digits).
4 [➔/**OK**]
5 Enter the newly created PIN again for confirmation.
6 [➔/**OK**] to save PIN.
• If a wrong PIN is entered, a long beep will be heard.

Resetting to default settings

Telephone settings (page 10) and answering system settings (page 16 -18) are reset to default settings.
1 [➔/**OK**] > [**9**]
2 Enter the PIN (4 digits).
3 Press [➔/**OK**] again to reset to default settings.
Note:
• If a wrong PIN is entered, a long beep will be heard.
• Date and time will not be reset.
• The following items will be deleted:
   -Redial list
   -Phonebook entries
   -Call log
   -Recordings, including your greeting message and caller messages

Making calls
1 Predial the phone number > [↘]
• If you make a mistake while predialling a phone number, press [**C**] to clear it. Press and hold [**C**] to clear all inputs.
2 When finished talking, press [✖] or place the handset on the base unit or charger.

Adjusting the receiver volume
Press [▲] or [▼] while on a call. 5 levels are available.

Speakerphone (KX-TG1090 only)
The handset features a digital speakerphone, which allows you to have hands-free conversations.
1 During a conversation, press [◁≈] to turn on the speakerphone.
2 When finished talking, press [✖] or place the handset on the base unit.
Note:
• For best performance, use the speakerphone in a quiet environment.
• To switch back to the receiver, press [↘].

Adjusting the speaker volume
Press [▲] or [▼] during the call. 5 levels are available.

Answering calls
1 Press [↘] to answer the call.
2 When finished talking, press [✖] or place the handset on the base unit or charger.
Note:
• With Auto Talk function switched on, you can talk directly when the handset is picked up from the base unit or charger during incoming call (page 10)*.*

Handset locator
1 Press [•))] on the base unit.
• While paging the handset, the time and handset number displays will temporarily disappear from the handset screen.
2 To stop paging, press [•))] on the base unit again or press [↘] on each handset.
• The handset beeps for 1 minute.

Pause button (for PBX/long distance service users)
A pause is sometimes required when making calls using a PBX or long distance service. Press and hold [**0**] for about 2 seconds to create one pause.

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.
2 Press [✳] when prompted to enter your code or PIN, then press the appropriate dial keys.
• The dialling mode will return to pulse when you hang up.

Redialling

The last 4 numbers dialled (each 20 digits max.) are stored in the redial list.

1 [▼ / ◯●] > Press [▲] or [▼] to select a desired number.
2 Press [↘] to start redialling.

Note:
• If the number is more than 12-digit long, only the last 11 digits will be displayed preceded by a "_".

Deleting a number in the redial list

1 [▼ / ◯●] > Press [▲] or [▼] to check the numbers.
2 [**C**] to delete the selected number.

Deleting the whole redial list

1 [⇥ /**OK**] > [**0**] > [▼ / ◯●]
2 [⇥ /**OK**] to confirm deletion.

Key lock

The handset can be locked to prevent accidental key activation. 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.
• To turn key lock off, press [#] for about 2 seconds again.

Note:
• ⊶ shows on the display while key lock is on.

Silent mode

To switch off ringer, press and hold [✳] until " ⌀ " shows on the display.
• When an incoming call is received, only " ⟋⟍ " flashes on the display to indicate an incoming call.
To switch on ringer, press and hold [✳] until " ⌀ " disappears from the display.

Note:
• Even if the silent mode is set, the handset will ring for paging at the maximum volume.

Muting

1 During a call, press [⊠] for **KX-TG1070/KX-TG1072** or [☎] for **KX-TG1090** to mute handset.
• The other party cannot hear you.
• When muting is on, "⊠" shows on the display.
2 Press [⊠] for **KX-TG1070/KX-TG1072** or [☎] for **KX-TG1090** to cancel muting.

R button (to use the recall feature)

[**R**] is used to access optional telephone services. Contact your service provider/ telephone company for details.

Note:
• You can change the recall time (page 11).

Adding entries to the phonebook

The phonebook allows you to make calls without having to dial manually. You can add 10 phone numbers to the phonebook.

1 [➙/**OK**] > [▭]
2 Press [▲] or [▼] to select a phonebook location (**0-9**).
3 Enter the party's phone number (20 digits max.).
4 [➙/**OK**] to save the phone number in the phonebook.

Making calls

1 [▭] > Press [▲] or [▼] to display the desired entry.
2 [➘]
Note:
- (**KX-TG1090**) - Press [➘] to talk through the earpiece. If you want to use the speaker instead, press [◁⊄]**.**

Editing numbers

1 [➙/**OK**] > [▭]
2 Press [▲] or [▼] to select a phonebook location (**0-9**).
3 Press [**C**] to erase a digit backward, or press and hold [**C**] to erase all digits.
4 Enter new phone number.
5 [➙/**OK**] to save the edited phone number in the phonebook.

Deleting the whole phonebook

1 [➙/**OK**] > [**0**] > [▭]
2 [➙/**OK**] to confirm deletion.

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/ telephone company for details.

Caller ID features
When new calls have been received, the display will show the number of new calls. If a call is not answered, phone numbers of the last 10 different callers will be listed in the call log and "-CALL-" is shown on the display.

• The following will not be left in the call log:
- "-O-" (Out of area):The caller dialled from an area which does not provide Caller ID service.
- "-P-" (Private caller):The caller requested not to send caller information.
- Caller information for the answered calls.

Checking call log
[▲ /CID] > Press [▲] or [▼] to check the numbers.
• If the date and time is set or caller information includes the date and time, you can display it by pressing [**#**]. If you want to return to the phone number, press [**#**] again.

Note:
• Press [↘] to start calling the selected number.
• If a call number in the log has never been read, "n‾" shows prior to the number.
• If the number is more than 10-digit long, only the last 10 digits will be displayed preceded by a "_".

Deleting a number in the call log
1 [▲ /CID] > Press [▲] or [▼] to check the numbers.
2 [**C**] to delete the selected number.

Deleting the whole call log
1 [⇾ /**OK**] > [**0**] > [▲ /**CID**]
2 [⇾ /**OK**] to confirm deletion.

Answering system

The unit contains an answering system which can answer and record calls for you when you are unavailable to answer the phone. The total recording capacity (including your greeting message and caller messages) is about 8 minutes.

Important:
- When callers leave messages, the unit records the date and time of each message. Make sure the date and time have been set (page 10).
- Messages are retained even if a power failure occurs.

Turning the answering system on or off

1 [🔜]
- "🔜" flashes on the display.
2 [**0 ON/OFF**]
3 Press [▲] or [▼] to select between "On" and "OFF".
4 [➔ /**OK**] to save the setting >[✖]
- When the answering system is turned on, "🔜" is displayed.

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. Prerecorded greeting message will be used if there is no user's recorded message. Prerecorded greeting message cannot be deleted.

Selecting language for prerecorded greeting message

4 language versions are available for your selection. The default setting is English.
1 [🔜]
- "🔜" flashes on the display.
2 [**2 LANG**]
3 Press [▲] or [▼] to select a language version "1" (English), "2" (Polish), "3" (Hungarian) or "4" (Turkish).
4 [➔ /**OK**] to save the setting >[✖]

Recording your own greeting message

1 [🔜]
- "🔜" flashes on the display.
2 [**9 ●**]
3 Start recording your own greeting after a tone. Hold the handset about 20cm away and speak clearly into the microphone. The maximum length of the greeting message is 60 seconds (minimum 1 second) with counter counting down from 60 while recording.
4 [🔜] to save the recording.
- The greeting message is played back.
5 [✖]

Playing back the greeting message

1 [🔜]
- "🔜" flashes on the display.
2 [**7**]
- The user's (if available) or prerecorded greeting message will be played through the speaker.
3 After playing back, press [✖].

Deleting the greeting message
1 [📼]
• "📼" flashes on the display.
2 [**7** 🔔]
3 Press [**#x**] to delete user's greeting message while listening to the greeting message. Prerecorded greeting message cannot be deleted. After you have erased your own greeting message, the unit will play a prerecorded greeting message.
4 [☎]

Recording incoming messages

After the answering system is turned on, it will pick up incoming calls after 4 rings without user's answering. Callers can leave their voice message after the greeting message and then a tone. The maximum length of the message is 60 seconds (minimum 1 second).

Message full

When the message box is full, callers cannot leave messages after listening to the greeting message and then 6 beep tones before the line is cut. "F" flashes on the display to indicate the message box is full. You can still control the TAM remotely even the message box is full.

Deleting all messages in the message box
1 [➔/**OK**] > [**0**] > [**#x**]
2 [➔/**OK**] to delete.

Listening to messages

Messages are stored and played back in chronological order (new message first).
1 [📼]
• "📼" flashes on the display.
2 [**5 ▶/■**]

• New messages start to be played back through the speaker.
• If there are no new messages, all messages will be played back after a beep.
• Refer to the following table and press keys for corresponding operation.

Direct commands

Keys	Functions
5 ▶/■	Starts and stops message playback
4 ◀◀	Repeats the current message *
6 ▶▶	Skips forward a message
#x	Deletes the current message

* If you press [**4 ◀◀**] again, the previous message is played.
Note:
• Message information display
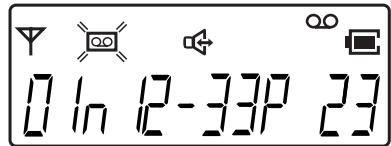
"01" – the message's sequential number
"n" – the current message is new
"12-33P" – the message recorded time (12:33 PM)
"23" – the message recorded date
• New and old messages are separated by a long beep sound. It can also be heard at the end of all messages.

Call screening

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

Turning call screening on / off

1 [🔄]
• "🔄" flashes on the display.
2 [**3 SCREEN**]
3 Press [▲] or [▼] to select between "On" and "OFF"**.**
4 [➡ /**OK**] to save the setting. >[✂]

Screening calls

While a caller is leaving a message, you can listen to the call through the handset speaker. To adjust the speaker volume, press [▲] or [▼] repeatedly. You can answer the call by pressing [📞] on the handset.

Remote accessing

Using a touch tone phone, you can call your phone number from outside and access the unit to listen to the voice messages.

Important:
• In order to operate the answering system remotely, you must first set a remote code. This code must be entered each time you operate the answering system remotely.

Remote access code

A remote access code must be entered when operating the answering system remotely. This code prevents unauthorised parties from listening to your messages remotely. The factory setting is "0000".

Changing remote access code

If you change the access code, please write down your new access code as the unit will not reveal the access code to you.

1 [🔄]
• "🔄" flashes on the display.
2 Press [✳] and enter the previous access code then press [➡ /**OK**] to confirm.
• If a wrong access code is entered, a long beep will be heard.

3 Input a new access code (4 digits) then press [➡ /**OK**] key.
4 Input this new access code once again for confirmation. >[➡ /**OK**]
• If a wrong access code is entered, a long beep will be heard.
5 [✂]

Using the answering system remotely

1 Use a touch tone phone and call your phone number from outside.
2 Press [✳] after you hear the greeting, the greeting will be stopped.
3 Enter the remote access code.
• New messages start to be played back.
• If there are no new messages, all messages will be played back after a long beep.
4 Refer to following table and press keys for corresponding operation.

Note:
• You can hang up at any time.

Remote commands

Keys	Functions
5	Starts and stops message playback
4	Repeats the current message
6	Skips forward a message
#	Deletes the current message

Note:
• Error tones (2 long beeps) will sound if a wrong remote access code is entered. You can enter the remote access code again. If this fails again, the phone will release the line.

Intercom between handsets

Intercom calls can be made between handsets.

Example: When handset 1 calls handset 2
1 **Handset 1:**
   Press and hold [**INT**] until " ▪))) " shows on the display. Press [**2**] (desired handset number).
2 **Handset 2:**
   Press [↘] to answer.
3 When finished talking, press [✖].
Note:
• If phonebook is shown when you press [**INT**], press [**C**], then press and hold [**INT**].

Switching calls between outside call and intercom with a handset

Example: When handset 1 switches between an outside call and handset 2
1 **Handset 1:**
   During an outside call, press and hold [**INT**] until " ▪))) " shows on the display. Press [**2**] (desired handset number).
• The outside call will be put on hold. If there is no answer, press [✖] to return to the outside call.
2 **Handset 2:**
   Press [↘] to answer the call.
• Handset 2 can talk with handset 1.
3 **Handset 1:**
   Press and hold [**INT**] to return to the outside call.
   Handset 2:
   Press [✖] to end the call.

Transferring an outside call to handsets

Example: When handset 1 transfers an outside call to handset 2
1 **Handset 1:**
   During an outside call, press and hold [**INT**] until " ▪))) " shows on the display. Press [**2**] (desired handset number).
• The outside call will be put on hold. If there is no answer, press [✖] to return to the outside call.
2 **Handset 2:**
   Press [↘] to answer the call.
• Handset 2 can talk with handset 1.
3 **Handset 1:**
   Press [✖] to transfer the outside call to handset 2.
Note:
• The external call can only be transferred when the intercom is established successfully.

Conference call with an outside call and a handset

Example: When handset 1 talks with an outside call and handset 2
1 **Handset 1:**
   During an outside call, press and hold [**INT**] until " ▪))) " shows on the display. Press [**2**] (desired handset number).
• The outside call will be put on hold. If there is no answer, press [✖] to return to the outside call.
2 **Handset 2:**
   Press [↘] to answer the call.
• Handset 2 can talk with handset 1.
3 **Handset 1:**
   Press [↘] to establish a conference call with the outside call and handset 2.

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit's AC adaptor and remove the handset batteries. Then reconnect the AC adaptor and install the batteries.

Problem	Cause & Solution
Ψ disappears.	• 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. Place the handset and base unit away from interference sources, such as antennas and mobile phones. • The handset registration is cancelled. Register the handset to the base unit (page 23).
Ψ flashes.	• You pressed [➚] or [🔊] when your handset was not linked to the base unit (Ψ is not displayed). Refer to the solutions for Ψ disappears. • You pressed [➚] when another handset was on a telephone call. Wait for the other user to finish.
I cannot make or receive calls.	• The AC adaptor or telephone line cord is not connected. Check the connections. • The key lock feature is turned on. Turn it off (page 13).
The unit does not ring.	• The ringer volume is turned off. Adjust the ringer volume (page 11).
The handset will not turn on.	• Make sure that the batteries are installed correctly (page 6). • Charge the batteries for 10 hours (page 7).
Static, sound cuts in/out, fades. Interference from other electrical units.	• Place the handset and the base unit away from other electrical appliances. • Move closer to the base unit. • Your unit is connected to a telephone line with DSL service. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.

Problem	Cause & Solution
Noise is heard during a call.	• You are using the handset or base unit in an area with high electrical interference. Place the handset and base unit away from interference sources, such as antennas and mobile phones.
Pressing [◯●] does not display/dial the last number dialled.	• The redialled number was more than 20 digits long. Redial the number manually.
I tried to charge the batteries, but they do not charge at all.	• Make sure the charge contacts are not dirty and the AC adaptor is connected properly, then try again.
I charged the batteries for 10 hours, but ⸾⊏⸾ still flashes.	• Clean the charge contacts and charge again (page 7,8). • It is time to replace the batteries (page 6).
I charged the batteries for 10 hours, but the operating time seems to be short.	• Wipe the battery ends (+, −) and the unit contacts with a dry cloth.
Caller information is not displayed.	• You must subscribe to Caller ID service. • Consult your service provider/telephone company. • Your unit is connected to a telephone line with DSL service. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack. • When you answer the calls, the caller information will not be left in the call log.
I reset the handset but a long beep is heard and the display returns to telephone setting mode.	• Reset has failed. Please try again (page 11).
I found the numbers stored in the phonebook and in the redial list are cleared.	• If you reset to default, the numbers in the phonebook and redial list are cleared.
I cannot enter the PIN.	• If you have changed PIN but forgot it, please contact your nearest Panasonic Service Centre for help.
-CALL- is displayed.	• Caller information has been received (page 15).

Answering system (KX-TG1090)

Problem	Cause & Solution
The unit does not record new messages.	• The answering system is turned off. Turn it on (page 16).
The other party complains that they cannot leave a message.	• The answering system is turned off. Turn it on (page 16). • Message memory is full. Erase unnecessary messages (page 17).
I cannot operate the answering system with the handset.	• A caller is leaving a message. Wait for the caller to finish. • The handset is too far from the base unit. Move closer.
I cannot operate the answering system remotely.	• You are entering the wrong remote access code. If you forget the remote access code, reset to the default settings (page 11, 18). • You are pressing the dial keys too quickly. Press each key firmly. • The answering system is turned off. Turn it on (page 16). • 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. Answering the call and try again later.

Handset registration

The included handset and base unit are preregistered. If ⑂ is not shown on the handset display when the unit is turned on, the handset is not registered to the base unit. Register the handset.

1 Base unit:

Press and hold page button [•))] for about 10 seconds to go to registration mode.

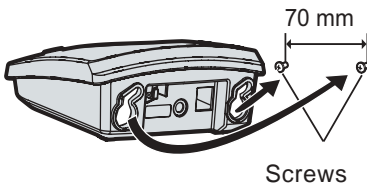• If all registered handsets start ringing in step 1, press [•))] to stop and try again.

2 Handset:

[➜ /OK] > [▾] > Input PIN (factory setting "0000", page 11) > [➜ /OK]

• "-Sub-" flashes on the display.

• Handset will search base unit for registration.

• When the registration is completed, ⑂ lights and a beep sounds.

Wall mounting

Base unit

70 mm

Screws

Specifications

• **Standard:** DECT (Digital Enhanced Cordless Telecommunications)
• **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
• **Power source:** 220–240 V, 50 Hz
• **Voice coding:** ADPCM 32 kbit/s
• **Power consumption:**
  Base unit:
  Standby: Approx. 3.5 W
  Maximum: Approx. 9.2 W
  Charger[1]**:**
  Standby: Approx. 0.6 W
  Maximum: Approx. 5.0 W
• **Operating conditions:** 5 °C–40 °C, 20 %–80 % relative air humidity (dry)
• **Dimensions:**
  Base unit: Approx. 47 mm × 116 mm × 107 mm
  Handset: Approx. 142 mm × 34 mm × 47 mm
  Charger[1]**:** Approx. 45 mm × 88 mm × 79 mm
• **Mass (weight):**
  Base unit: Approx. 120 g
  Handset: Approx. 120 g
  Charger[1][2]**:** Approx. 230 g

[1] KX-TG1072
[2] Includes the AC adaptor.

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.

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1999/5/EC

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