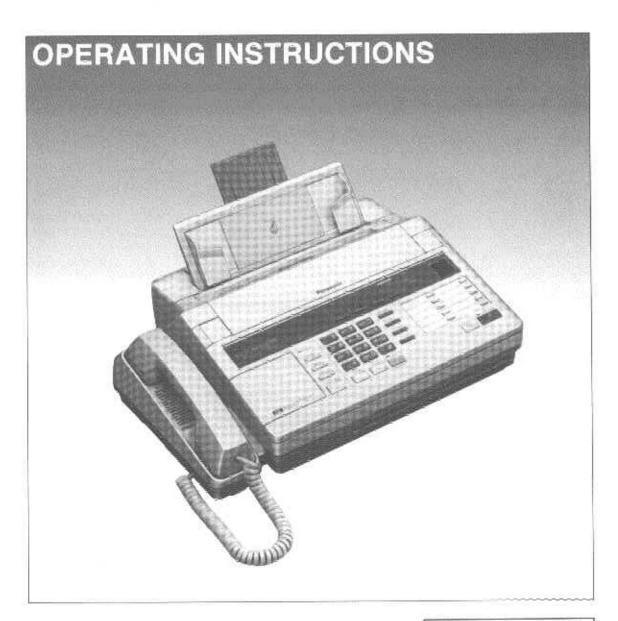
Panasonic

Telephone Answering System with Facsimile

MODEL NO. KX-F155



FOR ASSISTANCE, CALL 1-800-CALL-FAX Thank you for purchasing the Panasonic Telephone Answering System with Facsimile.

Before using the unit, please read these OPERATING INSTRUCTIONS.

You can then easily install, configure and operate the unit properly.

This unit combines multiple functions of Facsimile, Answering Device and Telephone, so you can send and receive both voice-messages and documents on a single telephone line.

Important Information

If required by the telephone company, inform them of the following.

- FCC Registration No.: (found on the rear side of the unit)
- Ringer Equivalence: 0.2B
- The particular telephone line to which the equipment is connected.

The unit must not be connected to a coin operated line. If you are on a party line, check with your local telephone company.

Ringer Equivalence Number (REN):

This REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most but not all areas the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event that terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped. However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.
- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in F.C.C. Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in F.C.C. Part 68. If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications

facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

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

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

This telephone provides magnetic coupling to hearing aids.

WARNING:

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

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

Introduction

Multi-function system using one telephone line

General:

- Desk-top type
- Combined facsimile, answering device and integrated telephone
- Single telephone line operation
- Automatic facsimile/telephone switching
- Clear copies

Facsimile (FAX):

- CCITT G3 compatibility
- Transmission time*: Approximately 17 seconds per page
- Automatic document feeder for up to 10 pages at a time
- One touch transmission with automatic dialer
- Superb image quality
- Polling function
- Sends/receives 216 mm×600 mm (8¹/2"×23⁵/8") pages at CCITT G3
- Automatic fall back (9600/7200/4800/2400 bps)

*Transmission times apply to text data using CCITT No.1 test chart, between same machine models at maximum modem speed.

Transmission times vary in actual usage.

Telephone Answering Device (TAD):

- •AUTO-LOGIC[™] (One touch operation): The unit automatically plays back all recorded messages and stops at the last message, then provides for answering the next call at the touch of a button.
- Record 2-way telephone conversation
- Outgoing Message (OGM) stored on chip
- Remote control from touch tone telephone

Integrated Telephone System:

- •Call monitor for on-hook dialing
- One touch dialing and speed dialing
- Automatic redialing
- Pulse-or-tone dialing capability

Speaking with the other party, and then transmitting/receiving a document

With the automatic facsimile/telephone switching feature, you can switch between facsimile and telephone functions on the same call. This means that even if you are in telephone conversation and want to transmit/receive a document, you need only press the START/COPY button. Thereafter, facsimile transmission/reception can be performed automatically.

Three types of receiving mode

TAD/FAX mode:

When you wish to use the unit as a telephone answering device and a facsimile, select this mode.

When a call is received during your absence, the unit records a voice-message and/or receives a document automatically depending on the caller's choice. In this mode, you also are able to speak with the other party and transmit/receive a document manually.

The unit automatically distinguishes between voice and fax calls. If a fax tone is heard when the call is answered, it will switch automatically to the fax mode. If the caller's voice is heard within 5 seconds of the end of the OGM, the unit functions as an answering device.

FAX mode:

When you wish to use the unit as a facsimile machine only, select this mode.

If someone calls you when you are in the FAX mode, a fax tone sounds and the person cannot talk to you. Please inform your callers that this is a fax only telephone number.

When in the FAX mode, you may still use the fax telephone to place outgoing voice calls.

TEL (Telephone) mode:

When you wish to use the unit as a standard telephone, select this mode. If you wish to receive the incoming fax during telephone conversation, press the START/COPY button.

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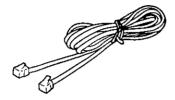
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Accessories

- 1. Carefully remove the unit from the packing carton.
- 2. Examine the unit for signs of shipping damage.
- 3. All of the necessary accessories, hardware, cords, etc., are packed with the unit. Make sure that you have removed all accessories before discarding the packing material.
- 4. Check that all of the accessories are included. If you are missing any item, consult your place of purchase.



Recording paperone



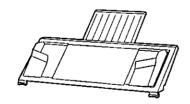
Micro cassette tape one

216 mm×15 m roll (8¹/2"×49' roll)

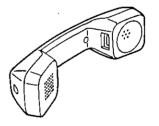


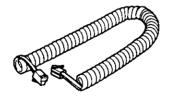
Document tray one

Handset one



Handset cord one



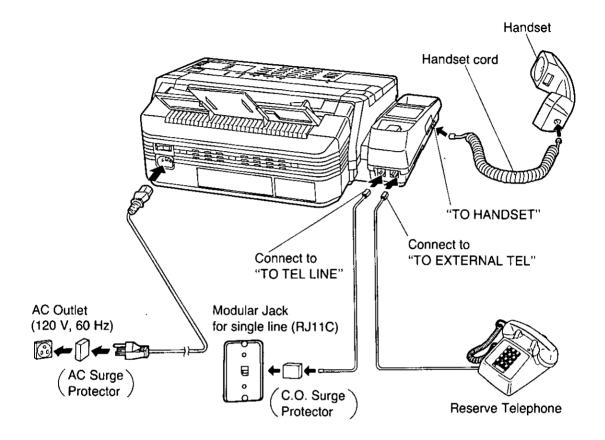


Printed material

Operating instructions
Quick reference guide (English/Spanish)
Dial card (for Remote Operation)
Registration card

Installation Connections

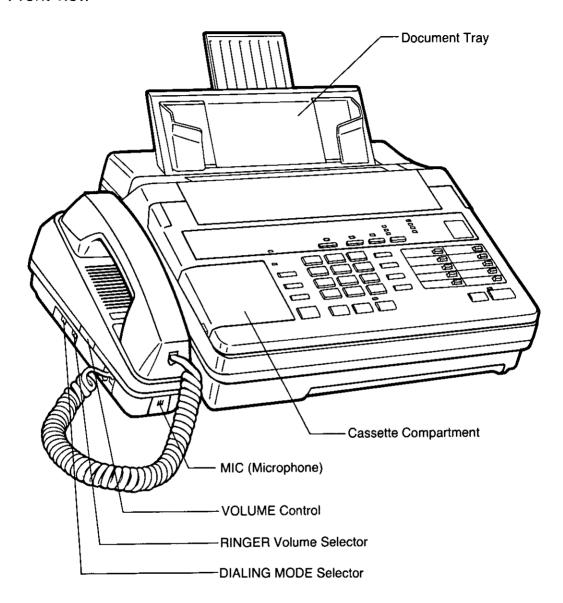
Connect the AC power cord, the telephone line cord and the handset cord as shown below. Then connect your unit to the AC outlet and the telephone line.



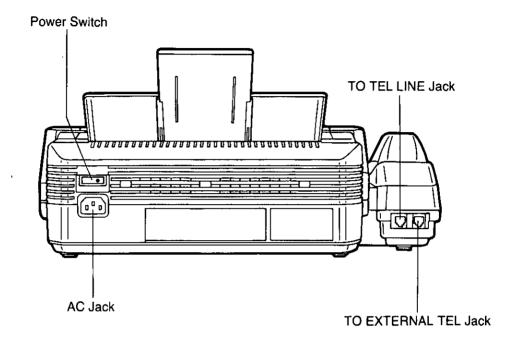
- The unit including the telephone handset will not function during a power failure or power off. However, if you have a reserve telephone connected to the port of the "TO EXTERNAL TEL", you will still be able to make calls during a power failure or power off.
- Avoid using the same AC outlet for the unit and other equipments. We recommend you to use an exclusive AC outlet to avoid interference from other equipment.
- If you connect another extension to the same line that your unit is connected to, do not use another telephone during fax transmission and reception. It will affect image quality.
- This unit is equipped with a 3-wire grounded type plug for safety. This plug will only fit into a grounding-type power outlet. If you are unable to insert the plug into your outlet, contact your electrician to replace your outlet.
- In areas of frequent electrical storms and/or power failure, we recommend, for additional equipment protection, surge protectors such as TELESPIKE BLOK MODEL TSB (TRIPPE MFG. CO.), SPIKE BLOK MODEL SK6-0 (TRIPPE MFG. CO.), SUPER MAX (PANAMAX) or MP1 (ITW LINX).

Location of Controls

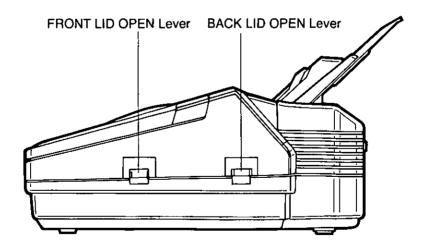
Front view



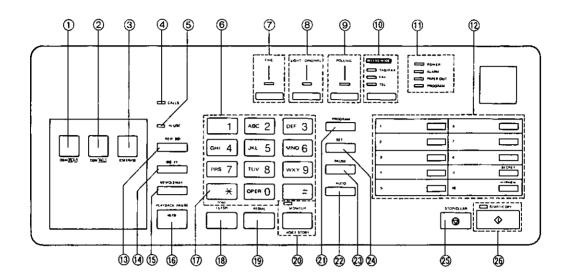
Rear view



Side view



The Buttons and Indicators



(1) OGM PLAY Button: Used to replay your outgoing message.

② OGM REC Button: Used to record your outgoing message.

③ ICM ERASE Button: Used to erase recorded incoming messages at

high speed.

(4) CALLS Indicator: The indicator flashes to show the number of

incoming messages recorded.

(5) IN USE Indicator: The indicator lights or flashes when the

answering device is in use.

6 Dial Keypad: Used to dial or program numbers.

(7) FINE Button and Indicator: Used to set the scanning line density. The

indicator lights when this feature is on.

® LIGHT ORIGINAL Button

and Indicator:

Used to transmit or copy originals with faint writing. The indicator lights when this feature is

on.

POLLING Button and

Indicator:

Used for polling function. The indicator lights

when polling function is being set.

10 RECEIVE MODE Button

and Indicators:

Used to select the desired receiving mode. The indicators light to show the mode in which the

unit is set.

(i) POWER Indicator: The indicator lights when the POWER switch is

turned on.

ALARM Indicator: The indicator lights when any trouble occurs.

PAPER OUT Indicator: The indicator lights when the recording paper

roll is empty.

PROGRAM Indicator: The indicator lights or flashes when you are

programming the unit.

② Direct Call Station Keys: Used for one touch dialing.

(3) REW (REWIND) Button: Used to run the tape quickly backward to a

desired point.

(4) FF (FAST FORWARD)

Button:

Used to run the tape quickly forward to a

desired point.

(5) MEMO/2WAY Button: Used to start and stop recording of a memo

message or a telephone conversation.

(6) PLAYBACK/PAUSE Button: Used to play back recorded messages, or

interrupt playback or FF/REW operation.

(f) TONE Button Used to change the dialing mode from pulse to

tone during a dialing operation.

(B) FLASH Button: Used to access some features of your host PBX.

(9) **REDIAL Button**: Used to redial the last dialed number.

(20 MONITOR (VOICE STDBY)

Button and Indicator:

Used for on-hook dialing and voice contact

features. The indicator lights when these

functions are on.

PROGRAM Button: Used to start or end programming functions.

AUTO Button: Used for speed dialing.

23 PAUSE Button: Used to insert a pause into a facsimile

telephone number during programming.

② SET Button: Used to store parameters during programming.

STOP/CLEAR Button: Used to cancel transmission or copy operation.

Also used during programming to clear the

previously entered parameters.

26 START/COPY Button and

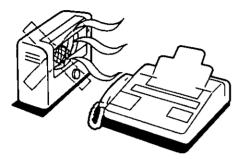
Indicator:

Used to start transmission and copy functions.

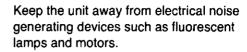
The indicator lights when these functions are on.

Precaution

Keep the unit away from heating appliances such as radiators or air conditioning units.



The unit and the cassette tape should not be exposed to direct sunlight.





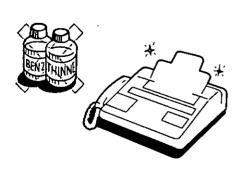
The unit and the cassette tape should be kept free from dust, moisture, high temperature and vibration.

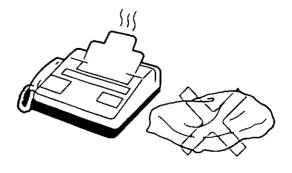


Do not use benzine, thinner, or the like, or any abrasive powder to clean the cabinet. Wipe it with a soft cloth.



Do not place any covering over the unit while it is turned on.

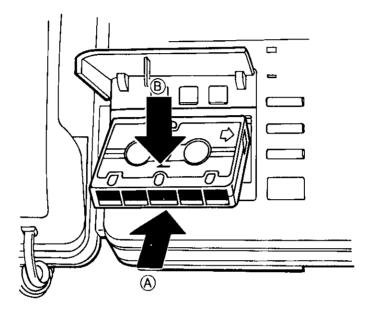




Micro Cassette Tape Installation

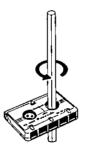
To record your outgoing message, install a micro cassette tape first.

Open the compartment cover, then insert the tape into the cassette compartment by first pushing it in the direction of arrow (A) and then in the direction of arrow (B).



Cassette Tape

•Make sure that there is no slack in the tape. If there is any slack, remove it by rotating the tape reel with an instrument like a pencil, as shown.



- •For optimum sound quality and performance, we recommend that you use the opposite side (side-2) after six months and replace the tape with a new one every year, assuming that the unit answers about ten calls a day.
- •Never place a cassette tape near a magnetic source such as a magnet or a TV set, because it may erase or break the recorded message on the tape.
- •Should the cassette tape break or become worn, replace it with a new cassette tape. We recommend using the Panasonic cassette tape RT-MC30 or RT-MC60.







RT-MC60

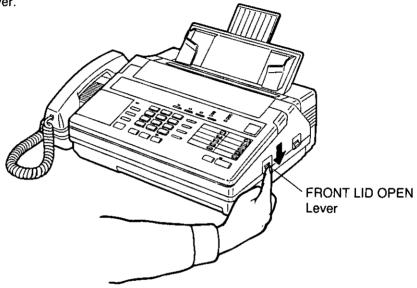
Recording Paper Installation

Follow the steps below to install a new roll of recording paper.

Caution:

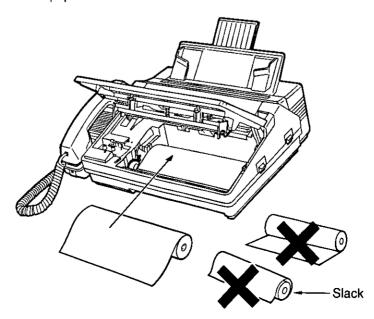
Use only the included roll or specified recording paper (Part No. KX-A106) for supplement or else the print quality may deteriorate or excessive thermal head wear may occur.

Press the FRONT LID OPEN lever in the direction of the arrow to open the cover.

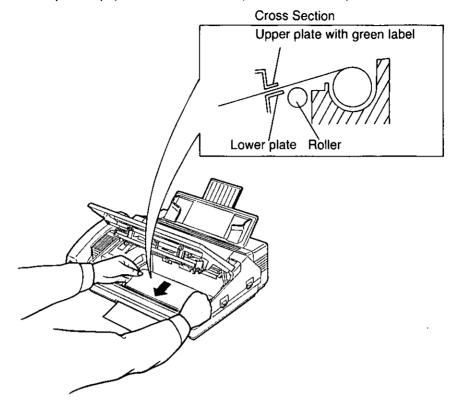


Place a recording paper roll into the paper compartment.

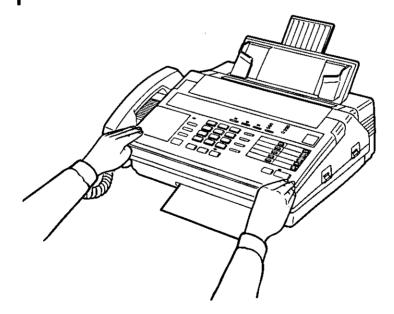
Make sure that the shiny side of the paper is facing up and that there is no slack in the paper roll.



Insert the recording paper between the upper and the lower guide plates and pull the paper a few centimeters (one or two inches) out of the unit.

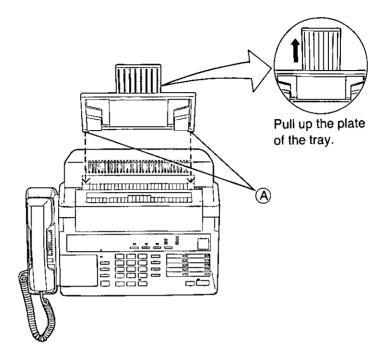


 $oldsymbol{4}$ Close the cover carefully by pressing both ends gently.

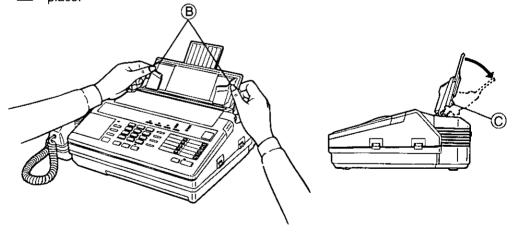


Document Tray Installation

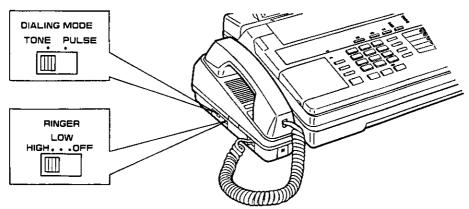
Insert the two tabs (A) of the tray into the two grooves on the unit.



Press B with both hands until the two fins © on the rear of the tray click into place.



Selector Settings



DIALING MODE:

If your line has touch tone service, set the selector to "TONE". If your line has rotary pulse dial service, set to "PULSE".

RINGER volume:

HIGH: The ringing sound will be loud. LOW: The ringing sound will be soft.

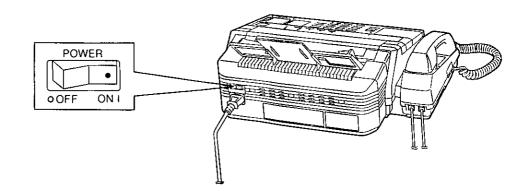
OFF: The unit will not ring.

Turning the Power Switch On

Before turning the POWER switch on, confirm the followings:

- 1. The cassette tape and the recording paper are installed properly.
- 2. The handset is on the cradle.

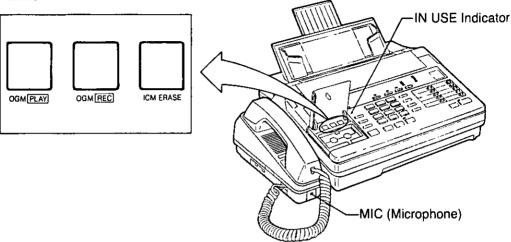
Turn the POWER switch to the "I (ON)" position.



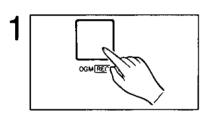
When you use the unit for the first time, the ALARM indicator will light. After recording your outgoing message, the ALARM indicator will go out. See page 1-13.

Recording an Outgoing Message (OGM)

Before using your unit as both an answering device and a facsimile you should first record your outgoing message. You can store a personal outgoing message up to 16 seconds on the voice-recordable microchip. Once recorded, the OGM will be automatically recorded on the micro cassette tape as a backup in case of power failure.

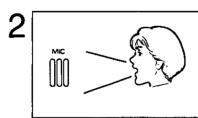


Make sure that the micro cassette tape is properly installed. (See page 1-8.)



Press the **OGM REC** button until a long beep is heard, then release it.

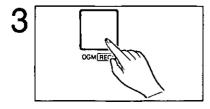
The IN USE indicator lights.



After the beep, speak immediately, clearly and loudly toward the microphone from a distance of approximately 20 cm (8 inches).

The recording time is limited to 16 seconds. For optimum performance we recommend that you record your OGM within 12 seconds. Do not pause for over 2 seconds while recording your OGM.

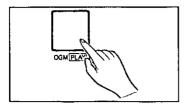
If 16 seconds pass or a pause continues for more than 2 seconds, the unit will finish recording. The rest of your message will not be recorded.



After recording, press the **OGM REC** button again.

The unit plays back your OGM so that you can confirm your message. Adjust the VOLUME control to suitable level.

Verifying your OGM



Press the **OGM PLAY** button.

The unit replays your outgoing message. If you want to change your OGM, perform the operation on page 1-13 again. The previous message will be automatically erased and a new message will be recorded.

Suggested message

Record your OGM referring to the examples below.

"This is (your name, business and/or telephone number). We are out right now. To send a fax, start transmission. To leave a message, speak after the long beep. Thank you."

"This is (your name, business and/or telephone number). We are out right now. To send a fax, start transmission. To leave a message, speak for up to 1 minute after the long beep. Thank you."

You can choose from two types of recording time of incoming messages. When the unit is in the "VOX" position, the recording time is unlimited, and when in the "1 MIN" position, the recording time is limited to 1 minute. The two examples above correspond to these two conditions.

The unit is preprogrammed to the "VOX" position. To change the recording time, see page 4-5.

OGM backup

After your OGM is recorded on the microchip memory, it is recorded onto the tape from the microchip as a backup.

If a power failure takes place or the power switch is turned off, the OGM recorded on the microchip will be erased. However, after the power is restored, the unit will automatically re-record the OGM onto the microchip using the OGM recorded on the tape. You need not re-record your OGM.

Re-recording of OGM

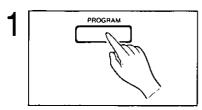
When you replace the cassette tape with a new one or you use the opposite side (side-2), you have to record an OGM again. See page 1-13.

Programming Functions

List of programming functions

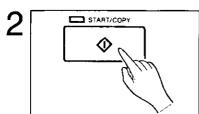
The following functions are user selectable. The most probable choices have been pre-selected as default, but can be changed as needed.

To print out the "SYSTEM SET UP LIST";



Press the **PROGRAM** button.

The PROGRAM indicator lights.



Press the START/COPY button.

The unit starts printing.

```
\star
  --<< HOW TO SET UP >>--
                                       --<<HOW TO PROGRAM PHONE NO.>>--
                                                                     *
                                       1. CHECK "DIALING MODE" SELECTOR
   1. PRESS "PROGRAM"
   2, PRESS "#" THEN "CODE NO."
                                       2. PRESS "PROGRAM"
                                                                     ж
                                      3. PRESS "DIRECT CALL" STATION
   3. ENTER DESIRED VALUE
   4. PRESS "SET" TO STORE YOUR SELECTION
                                          OR PRESS "AUTO" AND "00-19"
                                                                     ж
     OR PRESS "START/COPY" FOR 41 42 43 50 4. ENTER PHONE NO.
                                                                     ж
   5. PRESS "PROGRAM" AGAIN TO END SET UP
                                        5. PRESS "SET" TO STORE PHONE NO. *
                                          TO STORE IN SUCCESSION,
                                          REPEAT STEP 3 TO 5
                                                                     *
                                        6, PRESS "PROGRAM" TO END SET UP
  << SYSTEM SET UP LIST >>
        #02 YOUR LOGO
        #Ø4 YOUR TELEPHONE NUMBER =
        #05 FAX LOGO HEADING = ON
                                       (1 = 0N
                                                  2 = 0FF
                                                                     *
        #06 REMOTE TAD ID
                             = 111
                                                                     *
                             = OFF
        #11 PRINT TX REPORT
                                       (1 = ON
                                                  2 = ERROR
                                                            3 = OFF
        #12 MAIN PASSWORD
                              = 0000
                                                                     *
        #16 POLLING PASSWORD
                             = 0000
                                                                     *
                             = 9600BPS (1 = 9600BPS 2 = 4800BPS)
        #17 FAX TX SPEED
                                                                     *
        #18 FAX RX SPEED
                             = 9600BPS (1 = 9600BPS 2 = 4800BPS)
        #20 TONE DETECT
                             = OFF
                                       (1 = DN
                                                 2 = OFF
        #30 RECORDING TIME
                             = VOX
                                       (1 = VOX)
                                                 2 = 1MIN )
        #31 CPC MODE
                             = A
                                       (1 = A
                                                 2 = B
                                                           )
                                                 0 : TOLL SAVER )
        #32 TAD RING COUNT
                              = 1
                                       (0...4
        #33 FAX RING COUNT
                              = 1
                                       (1...4)
        #41 PRINT TEL LIST
                                                                     *
        #42 PRINTER TEST
        #43 PRINT CHARACTER CODE
        #50 RESET USER PROGRAMMABLE FUNCTIONS (#05 TO #33)
                                                                     *
        #9000* (SERVICE DATA SET UP)
                                                                     ж
```

Programming

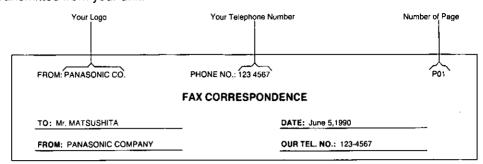
To make a function change;

- 1. Press the PROGRAM button.
- 2. Press "#", then press code number described below.
- If the code number pressed is 02 through 33, enter the desired value and then
 press the SET button to store the programming in memory.
 If the code number pressed is 41 through 50, press the START/COPY button to
 print out reports.
- 4. Press the PROGRAM button again to end setup.

CODE	FUNCTION	DEFAULT	REFERENCE
#02	YOUR LOGO	(not entered)	See page 1-17.
#04	YOUR TELEPHONE NUMBER	(not entered)	See page 1-19.
#05	FAX LOGO HEADING	ON	See page 4-3.
#06	REMOTE TAD ID	111	See page 3-5.
#11	PRINT TX REPORT	OFF	See page 4-1.
#12	MAIN PASSWORD	0000	See page 3-3.
#16	POLLING PASSWORD	0000	See page 3-1.
#17	FAX TX SPEED	9600 BPS	See page 4-3.
#18	FAX RX SPEED	9600 BPS	See page 4-4.
#20	TONE DETECT	OFF	See page 4-4.
#30	RECORDING TIME	vox	See page 4-5.
#31	CPC MODE	A	See page 4-5.
#32	TAD RING COUNT	1 (once)	See page 4-6.
#33	FAX RING COUNT	1 (once)	See page 4-6.
#41	PRINT TEL LIST		See page 4-2.
#42	PRINTER TEST		See page 4-7.
#43	PRINT CHARACTER CODE		See page 4-7.
#50	RESET USER PROGRAMMABLE FUNCTIONS (#05 TO #33)		See page 4-7.
#9000*	SERVICE DATA SET UP		See page 4-8.

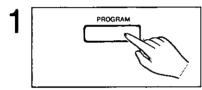
Programming your logo

The logo is a means of identifying your unit. Your logo may consist of alphanumeric letters and symbols. Your programmed logo will be printed on the top of all pages transmitted from your unit.



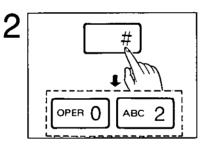
Usually the logo is a company, division or personal name in an abbreviated form. Up to 30 characters can be entered as your logo.

To enter each character, select the correct code (2 digits) referring to the Character Code Table on page 1-18, and program as shown below.

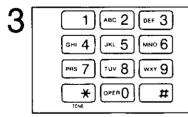


Press the **PROGRAM** button.

The PROGRAM indicator lights.



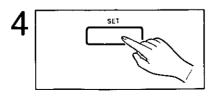
Press "#", then "**02**" for your logo setting.



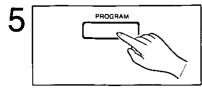
Enter your logo by using the dial keypad.

Example: If you want to program the logo as "COMPANY ABC", press "32 44 42 45 30 43 54 01 30 31 32".

To print out your logo for confirmation during programming, press the START/COPY button.



When you have finished, press the **SET** button to store the programming in memory.



Press the **PROGRAM** button to end the operation.

The PROGRAM indicator goes out.

Character Code Table

Input	Code	Input	Code	Input	Code	Input	Code	Input	Code
(NOTE1)	0 0)	10	0	2 0	A	3 0	K	4 0
(space)	0 1	*	1 1	1	2 1	В	3 1	L	4 1
!	02	+	1 2	2	2 2	С	3 2	М	4 2
″	03	,	1 3	3	2 3	D	3 3	N	4 3
#	0 4	-	1 4	4	2 4	Е	3 4	0	4 4
\$	0 5	•	1 5	5	2 5	F	3 5	Р	4 5
%	0 6	Ĩ	1 6	6	2 6	G	3 6	Q	4 6
&	0 7	:	1 7	7	2 7	Н	3 7	R	4 7
,	0 8	;	1.8	8	2 8		3 8	S	4 8
(0 9	٧	1 9	9	2 9	7	3 9	T	4 9
Input	Code	Input	Code	Input	Code	Input	Code	Input	Code
U	5 0	а	6 0	k	7 0	u	8 0		9 0
V	5 1	Ь	6 1		7 1	>	8 1	1	9 1
W	5 2	C	6 2	m	7 2	W	8 2	{	9 2
Х	5 3	đ	6 3	n	7 3	X	8 3		9 3
Υ	5 4	e	6 4	0	7 4	у	8 4	}	9 4
Z	5 5	f	6 5	р	7 5	Z	8 5	→	9 5
=	5 6	g	6 6	q	7 6	[8 6	(NOTE2)	9 6
>	5 7	h	6 7	r	7 7	¥	8 7		9 7
?	5 8	ì	6 8	S	7 8]	8 8		98
@	5 9	i	6 9	t	7 9	۸	8 9		9 9

NOTE 1: Enter "00" to erase all of the characters that have been programmed. (All Clear) NOTE 2: Enter "96" to delete the last character. (Back Space)

You can write down the correct codes for your logo.

	 	5	 		10			15
Logo								
Code								
Logo								
Code					·			
	 	20			 25	·	 	30

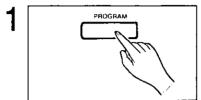
Programming your facsimile telephone number

Your facsimile telephone number can be programmed into your unit.

When you transmit a document, your programmed telephone number will be printed on the top of all pages transmitted from your unit.

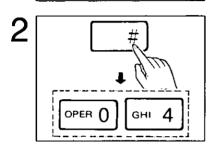
The unit can hold your phone number up to 20 digits long.

Program as shown below.

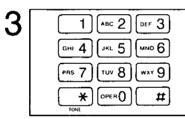


Press the **PROGRAM** button.

The PROGRAM indicator lights.



Press "#", then press "**04**" for your telephone number setting.

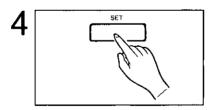


Enter your telephone number by using the dial keypad.

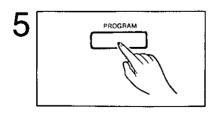
Example: If the phone number is "123 4567", press "123", "#" and "4567".

If you want to insert a space in a phone number, press "#".

To print out your phone number for confirmation during programming, press the START/COPY button.



When you have finished, press the **SET** button to store the programming in memory.



Press the **PROGRAM** button to end the operation.

The PROGRAM indicator goes out.

Note: To correct an error while programming, press the STOP/CLEAR button then repeat from step 2.

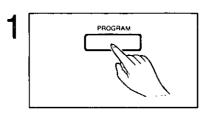
Programming Phone Numbers for Automatic Dialing

The unit's memory allows you to use both one touch dialing (up to 10 phone numbers) and speed dialing (up to 20 phone numbers) for rapid access to your most frequently called numbers.

Programming phone numbers for one touch dialing

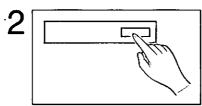
This unit is equipped with 10 direct call stations including SECRET and HYPHEN keys, each of which can store a telephone number for one touch dialing. Each phone number can be programmed up to 30 digits long.

Make sure first whether the DIALING MODE selector is set to TONE or PULSE mode.

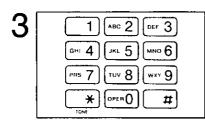


Press the **PROGRAM** button.

The PROGRAM indicator lights.

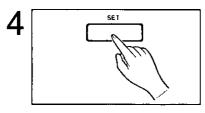


Press one of the direct call station keys where you want to store the phone number.



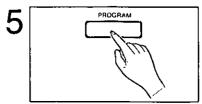
Enter the phone number by using the dial keypad.

If you want to insert a hyphen in the number, press the HYPHEN key during programming. HYPHEN is counted as 2 digits.



Press the **SET** button to store the programming in memory.

To program other phone numbers, repeat steps 2 to 4.



After programming all the numbers, press the **PROGRAM** button to end the operation.

The PROGRAM indicator goes out.

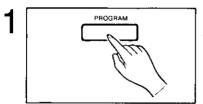
Note: To correct an error while programming, press the STOP/CLEAR button then repeat from step 2.

You can print a list of the stored phone numbers. See page 4-2.

Programming phone numbers for speed dialing

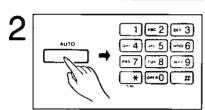
This unit is equipped with 20 stations (00 through 19), each of which can store a telephone number for speed dialing. Each phone number can be programmed up to 30 digits long.

Make sure first whether the DIALING MODE selector is set to TONE or PULSE mode.

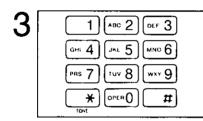


Press the **PROGRAM** button.

The PROGRAM indicator lights.

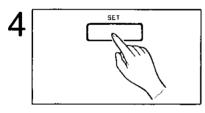


Press the **AUTO** button, then enter the station number at 2 digits ("00" through "19") by using the dial keypad.



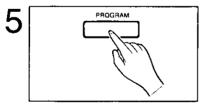
Enter the phone number.

If you want to insert a hyphen in the number, press the HYPHEN key during programming. HYPHEN is counted as 2 digits.



Press the **SET** button to store the programming in memory.

To program other phone numbers, repeat steps 2 to 4.



After programming all the numbers, press the **PROGRAM** button to end the operation.

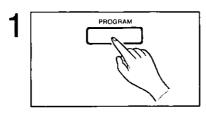
The PROGRAM indicator goes out.

Note: To correct an error while programming, press the STOP/CLEAR button then repeat from step 2.

You can print a list of the stored phone numbers. See page 4-2.

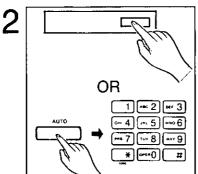
Programming secret phone numbers

This function is useful for keeping the whole or a portion of a telephone number secret. When you print out a list of the stored numbers, this number will not be printed.



Press the **PROGRAM** button.

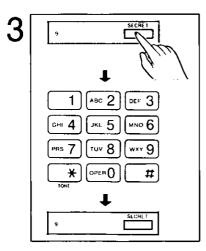
The PROGRAM indicator lights.



Press one of the direct call station keys.

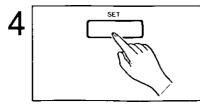
OR

Press the **AUTO** button and enter the station number ("00" through "19") by using the dial keypad.



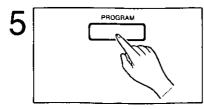
Press the **SECRET** key and enter the phone number, then press the **SECRET** key again.

Pressing the SECRET key once counts as 2 digits.



Press the **SET** button to store the programming in memory.

To program other phone numbers into memory, repeat steps 2 to 4.



After programming all the numbers, press the **PROGRAM** button to end the operation.

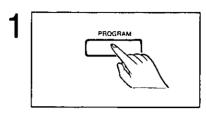
The PROGRAM indicator goes out.

Note: To correct an error while programming, press the STOP/CLEAR button then repeat from step 2.

1-22

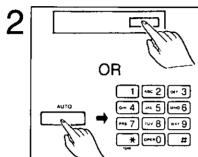
Erasing a phone number

If you wish to erase a phone number programmed into memory, follow the steps below.



Press the **PROGRAM** button.

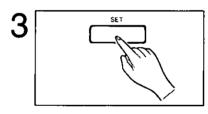
The PROGRAM indicator lights.



Press the desired direct call station key.

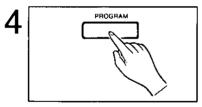
OR

Press the **AUTO** button, then enter the desired station number by using the dial keypad.



Press the SET button.

The number will now be erased. If you wish to erase more than one number, repeat from step 2.

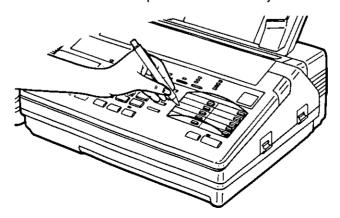


Press the **PROGRAM** button to end the operation.

The PROGRAM indicator goes out.

Listing the directory card

Remove the cover using an instrument with a pointed end, like a pen. Write the names of the other parties in the directory.



Basic Instructions

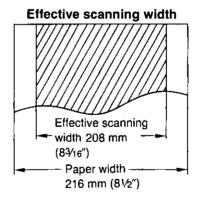
Before Transmitting Documents

Acceptable documents

The unit can transmit documents that meet the following conditions.

- Paper width should be 128 mm (5") to 216 mm (81/2").
- Effective scanning width should be up to 208 mm (83/16").
- Paper weight should be 45 g/m² (12 pounds) to 90 g/m² (24 pounds).

Maximum paper size Minimum paper size Minimum paper size 128 mm (5")



Automatic document feeder:

- •Up to 10 sheets of paper can be set in the document tray at a time.
- ●Paper weight should be 60 g/m² (16 pounds) to 75 g/m² (20 pounds).
- Paper with a coated surface must not be used.

Do not use the following types of documents or it may jam. Make a copy of such documents and feed a copy into the unit.

- Paper with chemically treated surfaces such as carbon paper or carbonless duplicating paper
- Heavily curled, creased or torn paper
- Paper with a coated surface
- Small size paper such as a slip or voucher
- Thin paper less than 45 g/m² (12 pounds)
- Thick paper over 90 g/m² (24 pounds)
- Paper whose contrast between the print and the background is faint
- Paper whose printing on the reverse side can be seen through from the front (e.g. newspaper)

Remove clips, staples or other similar objects from a document before feeding it into the unit.

Make sure that any ink or paste on the document is completely dry before feeding it into the unit.

Note:

- •A document whose length exceeds 600 mm (235/8") cannot be transmitted. When you feed such document, the unit stops transmitting and a long beep will be heard. If this happens, press the STOP/CLEAR button and remove the document.
- If a document is electrostatically charged, the automatic document feeder may not function properly.

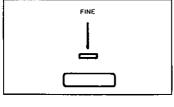
Document loading

Place the documents on the tray FACE DOWN.

After aligning the documents, adjust the document guide according to their width.

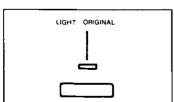
Resolution and contrast

You can set the following functions depending on the quality of an original. Set the functions before transmission or copying. If you set them during transmission, they will be effective from the next sheet to be transmitted.



FINE is suitable for originals written with small characters.

Press the FINE button. The FINE indicator lights.

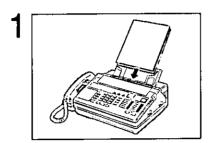


LIGHT ORIGINAL is useful when tansmitting or copying originals with faint writing.

Press the **LIGHT ORIGINAL** button. The **LIGHT** ORIGINAL indicator lights.

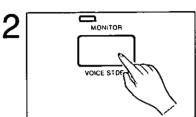
Transmitting Documents

Manual transmission

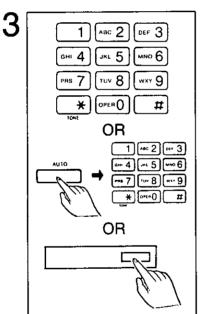


Insert the documents FACE DOWN.

The unit can accept up to 10 sheets of paper at a time.



Press the **MONITOR** button or lift the handset.



Dial the phone number.

OR

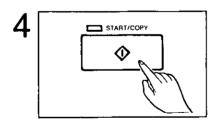
Press the **AUTO** button, then press the desired station number ("00" through "19") by using the dial keypad.

For programming of phone numbers, see page 1-21.

OR

Press the direct call station.

For programming of phone numbers, see page 1-20.



Press the **START/COPY** button when a fax tone is heard.

The unit feeds and transmits the documents. After pressing the START/COPY button, replace the handset if using it.

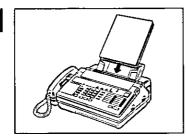
To stop transmission:

Press the **STOP/CLEAR** button until a beep sounds. The transmission is interrupted. To eject the documents, press the **STOP/CLEAR** button again.

One touch transmission

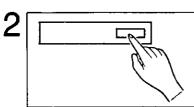
You can dial and transmit documents automatically using direct call station keys. Before using these features, make sure that the desired telephone numbers have been stored in direct call stations.

For programming of phone numbers, see page 1-20.



Insert the documents FACE DOWN.

The unit can accept up to 10 sheets of paper at a time.



Press the desired direct call station key.

The unit dials and transmits the documents automatically.

If there is no answer or the line is busy, the unit will automatically redial the number up to 6 times within 10 minutes. (Automatic redialing function)

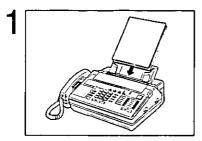
To cancel automatic redialing, press the FLASH button or the STOP/CLEAR button.

Adding extra pages

If you want to send 11 or more sheets at a time, insert the documents up to 10 sheets of paper first, and add the extra pages up to 10 sheets before the last page feeds into the unit.

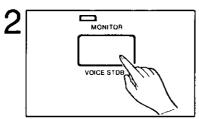
Transmitting documents using the REDIAL button

You can transmit documents to the last dialed number using the REDIAL button.

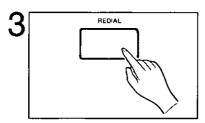


Insert the documents FACE DOWN.

The unit can accept up to 10 sheets of paper at a time.

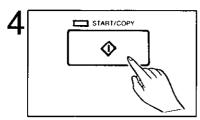


Press the **MONITOR** button or lift the handset.



Press the **REDIAL** button.

The unit dials the last dialed number.



Press the **START/COPY** button when a fax tone is heard.

The unit feeds and transmits the documents. Replace the handset if using it.

To stop transmission:

Press the **STOP/CLEAR** button until a beep sounds. The transmission is interrupted. To eject the documents, press the **STOP/CLEAR** button again.

Receiving Documents and/or Voice-Messages

Receiving mode

The unit can receive documents and/or voice-messages either automatically or manually.

The unit has three types of receiving mode. To select the desired receiving mode, press the RECEIVE MODE button. Each time you press the RECEIVE MODE button, one of the receiving modes will be selected.

■ TAD/FAX mode

Select this mode when you use the unit as a telephone answering device and/or a facsimile machine. The TAD/FAX indicator lights.

When the unit is in the TAD/FAX mode, incoming calls are automatically routed either to the fax or to the telephone answering device.

When a call is received, the unit answers the call and begins playing your OGM to the calling party automatically. The unit automatically distinguishes between voice and fax calls, and then functions as an answering device and/or a facsimile.

If a fax tone is heard when the call is answered, it will switch automatically to the fax mode. If the caller's voice is heard within 5 seconds of the end of the OGM, the unit functions as an answering device.

■ FAX mode

Select this mode when you use the unit only as a facsimile machine. The FAX indicator lights.

When a call is received, the unit answers the call and produces a fax tone for documents reception. Then the unit receives documents automatically. Your OGM is not played back.

If someone calls you when your unit is in the FAX mode, he/she will hear the fax tone and cannot talk to you.

■ TEL (Telephone) mode

Select this mode when you use the unit as a telephone or for manual fax reception. The TEL indicator lights.

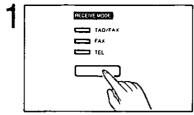
In this mode, if you do not answer the call until the unit rings 15 times, the unit will automatically switch to the TAD/FAX mode.

HELPFUL HINTS:

- •If a caller wishes to transmit a document after recording a voice-message: Advise the caller to "Press the asterisk (*) button to send a document after recording your voice-message.".
- •If a caller wishes to record a voice-message after sending a document:

 Advise the caller to "Make a call reservation following a voice contact procedure on your facsimile during transmission.". The unit will start playing the OGM again, then be able to record a voice-message.

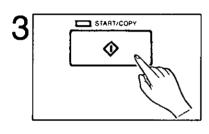
Manual reception



Press the **RECEIVE MODE** button to set to the TEL mode.



When the phone rings, lift the handset to answer the call.



Press the **START/COPY** button to receive documents, and then place the handset on the cradle.

If you do not place the handset on the cradle after pressing the START/COPY button, the unit automatically calls the other party. For further details, see "Voice Contact" on page 2-8.

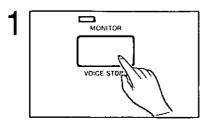
Note:

- When the red lines appear on both sides of the recording paper or the PAPER OUT indicator lights, replace the paper roll with a new one.
 - The unit cannot receive a document without recording paper. To install a recording paper, see page 1-9.
 - If the ALARM indicator lights when you close the cover after installing the paper, open the cover and close it firmly again.
- Begin by transmitting the FAX CORRESPONDENCE leaflet (provided) to several of your associates. In this way you can confirm that your unit is functioning correctly and inform them of the procedure for transmitting documents and/or recording voice-messages on your unit.

Voice Contact

Initiating voice contact

While you are transmitting or receiving a document, you may wish to speak to the other party. If the other party's unit is equipped with a voice contact feature, you can initiate voice contact and notify the other party that you wish to speak after the transmission/reception is completed. This saves the extra expense and time of making a subsequent telephone call to discuss information sent over the fax.



Press the **MONITOR** button or lift the handset while transmitting or receiving the documents.



When the other party answers, start speaking using the handset.

If you initiate voice contact while transmitting documents, you can speak after all the documents have been transmitted.

If you initiate voice contact while receiving documents, you can speak after receiving the current page of the documents.

Receiving a request for voice contact

If the other party initiates voice contact during transmission or reception, your unit will beep after the fax is completed.



When the beep sounds, lift the handset and start speaking.

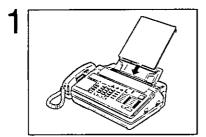
Note:

If you do not answer within 10 seconds after hearing several beeps indicating the request for voice contact, one of the followings occurs:

- •When you have set the unit to the TAD/FAX mode, the unit plays back your OGM and records the voice-message on the tape.
- •When you have set the unit to the FAX mode, the line is disconnected.
- •When you have set the unit to the TEL mode, the line is disconnected.

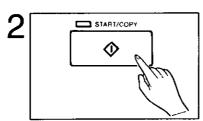
Making Copies

This unit can make a copy. Any transmissible documents can be copied. The unit automatically selects the FINE resolution when copying.



Insert the documents FACE DOWN.

The unit can accept up to 10 sheets of paper at a time.



Press the START/COPY button.

The unit feeds the documents and starts copying.

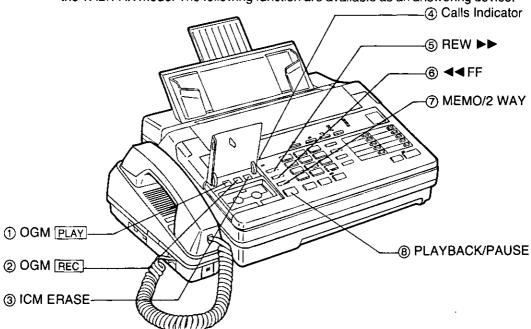
To stop copying:

Press the **STOP/CLEAR** button until a beep sounds.

To eject the document, press the **STOP/CLEAR** button again.

Operating as an Answering Device

The unit also works as an automatic telephone answering and recording system in the TAD/FAX mode. The following function are available as an answering device.



- ① Verifying your OGM: See page 1-14.
- ② Recording your OGM: See page 1-13.

③ Erasing recorded messages:

After reviewing your messages, press the ICM ERASE button.

The messages are erased while the tape is rewinded.

The tape can be erased at high speed even if the record-prevention (knock-out) tabs have been removed.

(4) Calls indicator:

The indicator flashes to show the number of incoming messages recorded up to 15 times. Even if 16 or more calls are recorded, the indicator will flash up to 15 times.

⑤ Rewinding (Resetting) the tape quickly:

Press the REW (Rewind) button.

6 Forwarding the tape quickly: Press the FF (Fast Forward) button. Recording a memo message:
 See page 2-12.
 Recording a 2-way conversation:
 See page 2-13.

® Playing back recorded voice-messages:

Press the PLAYBACK/PAUSE button.

AUTO-LOGIC (one-touch operation):

The unit plays all the recorded messages when the PLAYBACK/PAUSE button is pressed. At the end of the last message the tape stops, and 3 beeps are heard. After 7 seconds, the unit resets itself to the TAD/FAX mode. All calls are saved automatically.

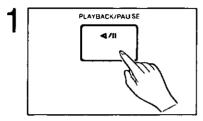
Stopping the tape (pause mode):

Press the PLAYBACK/PAUSE button during playback mode.

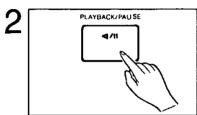
The tape pauses until you restart it by pressing the PLAYBACK/PAUSE button. The unit does not answer calls automatically while in the pause mode.

Recording after the messages you want to save

New incoming messages will automatically be stored after the last message. If you want a new incoming message to be stored after the messages you want to save, perform the following steps.

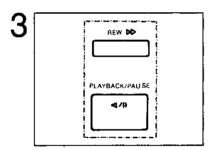


Press the **PLAYBACK/PAUSE** button to play back the tape to the end of the messages you want to save.



Press the **PLAYBACK/PAUSE** button again to stop the tape.

The IN USE indicator flashes.



Press the **REW** and **PLAYBACK**/ **PAUSE** buttons together.

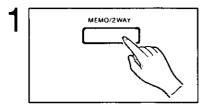
New calls will be recorded after the messages you have saved.

Note:

You can choose between two types of recording time of incoming messages. When the unit is in the "VOX" position, the recording time is unlimited, and when in the "1 MIN" position, the recording time is limited to 1 minute. The unit is preprogrammed to the "VOX" position. To change the recording time, see page 4-5.

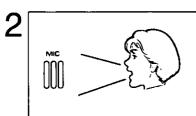
Recording a memo message

If you are going out and you want to leave a private message for someone, you can record a voice memo in the unit. This can then be played back either directly or remotely, exactly like any other incoming messages.

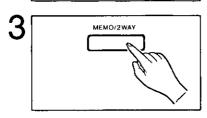


Press the **MEMO/2WAY** button until a beep is heard.

The IN USE indicator lights.



Speak toward the microphone from approximately 20 cm (8 inches) away.

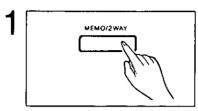


When the recording is finished, press the **MEMO/2WAY** button again.

The IN USE indicator goes out.

Recording a 2-way conversation

While speaking with someone on the telephone, you can record your conversation. Many states have imposed regulations on the manner in which 2-way telephone conversations may be recorded. Consult your local telephone company for further information.



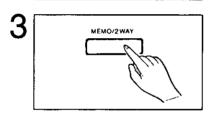
During your conversation, press the **MEMO/2WAY** button until a beep is heard.

The IN USE indicator lights.



Continue your conversation.

A beep sounds every 15 secnds to notify the caller that the conversation is being recorded.



To stop recording, press the **MEMO/ 2WAY** button again.

The IN USE indicator goes out.

Monitoring incoming calls

While an incoming message is being recorded, you can monitor it through the built-in speaker. Adjust the sound level using the VOLUME control.

You can talk to the caller directly by simply lifting the handset. The unit stops recording automatically.

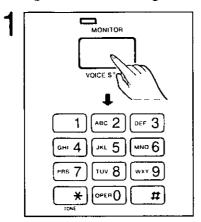
Making and Answering Voice Calls

Making voice calls

Using the handset:

- 1 Lift the handset.
- 2 Dial the phone number.

Using on-hook dialing:



Press the **MONITOR** button, then dial the phone number.

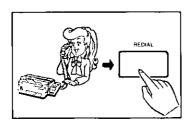
The MONITOR indicator lights, and you will hear the number being dialed, the called line ringing and connection being made.

2

When the other party answers your call, lift the handset and talk with it.

Redialing (Repeat call attempt)

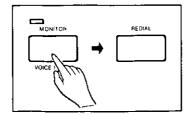
If the line is busy or you wish to redial the last dialed number, you can redial by simply pressing the REDIAL button.



Using the handset:

Lift the handset, then press the **REDIAL** button.

The unit redials the last dialed number once.



Using on-hook dialing:

Press the **MONITOR** button, then press the **REDIAL** button.

If the line is busy, the unit redials the last dialed number automatically up to 15 times within 10 minutes.

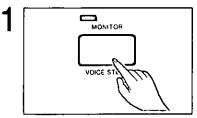
During interval between each redialing, the MONITOR indicator flashes.

To cancel automatic redialing, press the FLASH button or the STOP/CLEAR button.

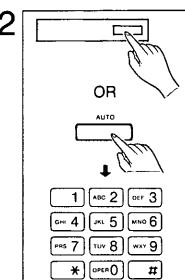
Making voice calls using the automatic dialing

The unit's memory allows you to use both one touch dialing (up to 10 phone numbers) and speed dialing (up to 20 phone numbers) for rapid access to your most frequently called numbers.

Before using these features, make sure that the desired telephone numbers have been stored in memory. See pages 1-20 and 1-21.



Press the **MONITOR** button or lift the handset.



Using one touch dialing:

Press the desired direct call station key.

OR

Using speed dialing:

Press the **AUTO** button, then press the desired station number ("00" through "19") by using the dial keypad.

Answering voice calls

When the phone rings, lift the handset to answer the call.

Advanced Instructions

Polling

Polling means that a facsimile machine "retrieves" a document loaded on the other machine (we call it "polled machine") so that the telephone fee is charged to the receiving unit, not the transmitting one.

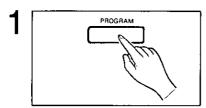
This unit can only receive polled documents; it cannot be "polled".

To activate the polling, the other machine must be prepared for your call.

Setting the polling password

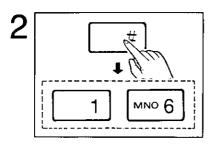
If the document to be retrieved is of a confidential nature and the password is set on the other machine to prevent unauthorized retrieving, you must set the same password on your unit.

The polling using a password is effective only between Panasonic compatible facsimile machines (e.g. KX-F90, KX-F110, KX-F220, KX-F320, etc.).

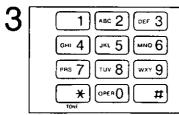


Press the **PROGRAM** button.

The PROGRAM indicator lights.

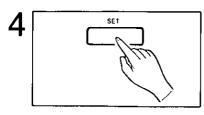


Press "#", then press "16" for the polling password setting.

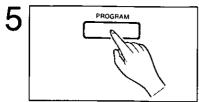


Enter the same polling password of 4 digits using the dial keypad.

The polling password is set to "0000" as the default. Set the same password as the polled machine.



Press the **SET** button to store the programming in memory.



Press the **PROGRAM** button to end the operation.

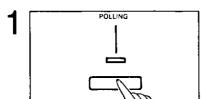
The PROGRAM indicator goes out.

Note: To correct an error while programming, press the STOP/CLEAR button then repeat from step 2. 3-1

Polling another facsimile

The following procedure lets you poll another station.

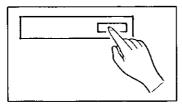
Make sure that documents are loaded on the polled machine.



Press the **POLLING** button.

The POLLING indicator lights.

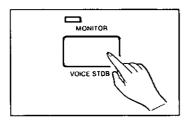
Using one touch dialing:



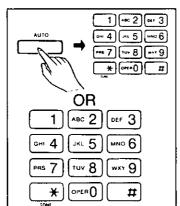
Press the desired direct call station key.

The unit will start receiving documents. When reception ends, the POLLING indicator goes out.

Using speed dialing or manual dialing:



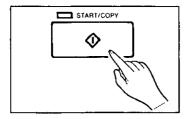
Press the MONITOR button.



Press the **AUTO** button and the desired station number ("00" through "19") for speed dialing.

OR

Dial the phone number for manual dialing.



Press the START/COPY button.

The unit will start receiving documents. When reception ends, the POLLING indicator goes out.

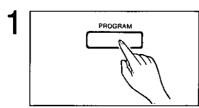
Note: If the polled station is busy or there is no answer when you use one touch dialing, the unit automatically redials up to six times within a 10-minute period.

Setting the Main Password

The password communication means that only the machines which have the same password can transmit/receive confidential documents.

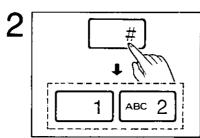
If the main password of 4 digits is set on your unit, you can participate in the password communication among Panasonic compatible facsimile machines (e.g. KX-F90, KX-F110, KX-F220, KX-F320, etc.).

Note: The password for the polling function is not related to this password communication. They are independent functions.

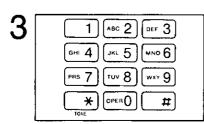


Press the **PROGRAM** button.

The PROGRAM indicator lights.

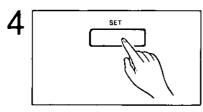


Press "#", then press "12" for the main password setting.

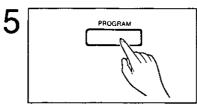


Enter the same main password of 4 digits using the dial keypad.

The main password is set to "0000" as the default. Set the same password as other stations.



Press the **SET** button to store the programming in memory.



Press the **PROGRAM** button to end the operation.

The PROGRAM indicator goes out.

Note: To correct an error while programming, press the STOP/CLEAR button then repeat from step 2.

Operating as an Answering Device from a Remote Phone

You can retrieve the incoming messages and re-record your outgoing message from a remote location with a touch tone telephone.

The following features are available on this unit.

- Message playback
- Newly recorded message playback (Memory Playback)
- Back space and skip forward
- Recording a marker message
- Resetting the tape for future messages
- Room monitor
- •Re-recording the OGM (outgoing message)
- Skipping the OGM for ICM (incoming message) recording

These operations are available only in TAD/FAX mode. If your unit is in the TEL mode, call your unit and wait for 15 rings. The unit will switch to the TAD/FAX mode.

Toll saver

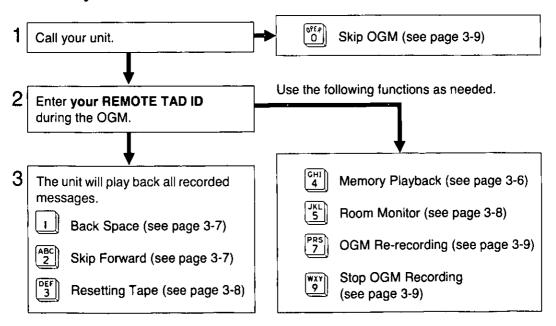
When you call the unit from a remote location, the number of rings tells you if there are any new voice-messages.

If the unit answers on the 1st ring, there is at least one new message recorded. If the unit answers on the 3rd ring, there are no new messages recorded.

Hang up immediately when you hear the 2nd ring. The 2nd ring indicates that there are no new messages. This will save you the toll charge for the call.

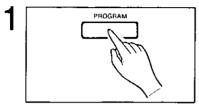
The toll saver works only when TAD RING COUNT is set to the Toll Saver position. See page 4-6.

Summary of remote control functions



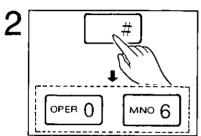
Programming a REMOTE TAD ID number for remote operation

The REMOTE TAD ID number prevents unauthorized persons from accessing your unit and listening to your messages. The REMOTE TAD ID is preset to 111. If you wish to change the number, you can choose any number from "1" to "999" except numbers including "0" and "7".

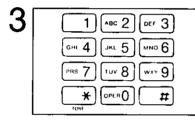


Press the **PROGRAM** button.

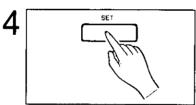
The PROGRAM indicator lights.



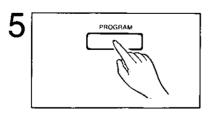
Press "#", then press "**06**" for the REMOTE TAD ID setting.



Enter the desired REMOTE TAD ID using the dial keypad.



Press the **SET** button to store the programming in memory.



Press the **PROGRAM** button to end the operation.

The PROGRAM indicator goes out.

Note: You should not use codes which contain zero (0) since this causes the unit to skip the OGM. (For example, 200, 502, 70 etc.)

We recommend that you do not use seven (7) as a code number, since this number is used as the OGM rerecording command for remote operations. Otherwise the answering features may not operate properly.

Message playback

You can listen to the recorded messages from a remote location.





Call your unit.

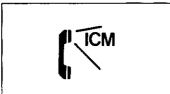
2



Dial your REMOTE TAD ID while the OGM is playing.

A long beep and a short beep(s) will sound. Short beep(s) indicate(s) the number of recorded message(s) up to 8 times. Even if 9 or more calls are recorded, a short beep sounds up to 8 times.



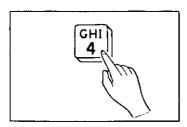


The unit rewinds the tape and plays back the message(s) recorded.

3 beeps will be heard indicating the end of the messages. After hanging up, all the recorded messages are saved and the unit is ready to record further messages.

Newly recorded messages playback (Memory Playback)

It is possible to skip over the recorded messages you have already heard and to play back only new messages.

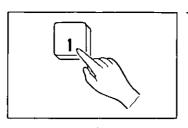


Press "4" immediately after hearing the beeps that indicate the number of recorded messages.

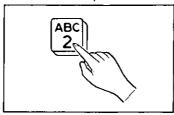
The unit plays back the new messages. Even during the playback of previously heard messages, you can skip to the new messages by pressing "4".

Back space and skip forward

While listening to the recorded messages, you can rewind or forward the tape.



To rewind, press "1".



To fast forward, press "2".

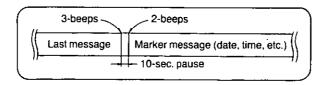
Note:

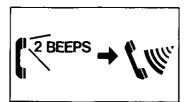
The maximum length of message to be rewound or forwarded by one press is approximately 15 seconds. So you may have to press "1" or "2" several times to rewind or forward the tape to the desired position.

Recording a marker message

After playing back the recorded messages, you can record your new message on the same call.

When replay is finished, wait for 3 beeps indicating the end of the last message. Then wait about 10 seconds for another 2 beeps indicating that the tape is ready for recording.





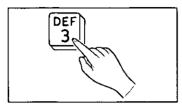
Leave your message after the last 2 beeps.

Hang up when finished. The marker message is recorded after the last message on the tape.

Resetting the tape for future messages

After listening to the recorded messages, you can reset the tape and record future messages from the beginning of the tape.

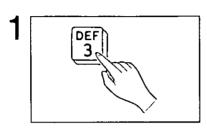
After all the messages have been played back or even while they are being played;



Press "3", then hang up.

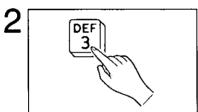
The unit rewinds the tape to the beginning. Future messages will be recorded and the previously recorded messages are lost.

If you have used Memory Playback;



Press "3".

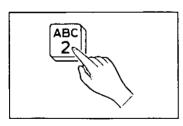
The unit rewinds the tape to the beginning of the newly recorded messages, then beeps.



Press "3" again after hearing the beep.

The unit rewinds the tape to the beginning of the previously recorded messages.

If you have reset the tape by mistake;



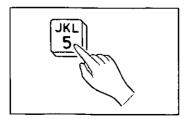
Press "2" after the tape has been reset.

One beep sounds.

The unit advances the tape to the end of the recorded messages.

Room monitor

You can monitor the sound in the room where the unit is installed for about 30 seconds.

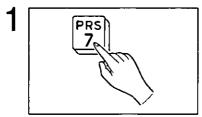


Press "5" to monitor the room sounds after hearing the beeps that indicate the number of recorded messages.

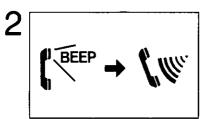
You can hear the room sounds for 30 seconds after one beep. If you wish to continue monitoring, press "5" again within 10 seconds after hearing one beep.

Re-recording an outgoing message

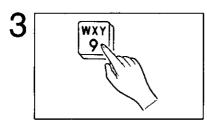
You can change the content of your OGM from a remote telephone.



Press "7" to start re-recording after hearing the beeps that indicate the number of recorded messages.



After hearing a long beep, speak clearly and loudly for up to 16 seconds



When you finish, press "9".

The new OGM is played back to confirm the change.

Note: If you pause for over 2 seconds while recording, the unit beeps and stops the OGM recording. In such a case, repeat from step 1 within 10 seconds.

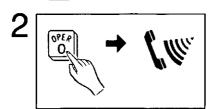
Skipping the OGM for ICM recording

You can leave a message on your unit and without listening to your OGM.



Call your unit.

You need not enter your REMOTE TAD ID.



Press "0" while the OGM is playing.

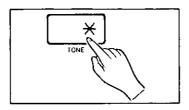
After hearing a long beep, speak clearly and loudly to leave your message.

Other Features

TONE button (Temporary tone dialing)

This function is useful only if your line has rotary pulse dial serivce. Pressing the TONE (*) button will allow you to change from pulse to tone mode during a dialing operation, and enter special tones and codes to operate your answering machine, electronic banking services and other special services.

"TONE" can be programmed into memory with the telephone numbers.



Press the **TONE** (*) button.

When you hang up, the unit automatically returns to pulse mode.

- •"TONE" can be stored in memory in the same way as explained on page 1-20 and 1-21.
- Pressing the TONE button counts as 1 digit while programming.

FLASH button

The FLASH button is used to access special telephone services such as call waiting and call forwarding.

For further details, please see a brochure issued by your telephone company.

Using the FLASH button

- 1. If you are having a conversation and another party calls, you hear a tone.
- 2. Press the FLASH button.

The first conversation is placed on hold and you can answer the second call. To speak to the first caller again, press the FLASH button again. The second caller is placed on hold.

- •"FLASH" can be stored in memory in the same way as explained on page 1-20 and 1-21.
- Pressing the FLASH button counts as 1 digit while programming.

Combination dialing

The following combination of dialing methods can be used.

- Manual dialing and automatic dialing
- Pulse and Tone dialing
- Plural memory stations

PAUSE button

The PAUSE button is used in a dial sequence to access an outside line. Pressing the PAUSE button makes a dialing delay.

Using the PAUSE button

Example: Line access number 9



- •"PAUSE" can be stored in memory in the same way as explained on page 1-20 and 1-21.
- •Pressing the PAUSE button counts as 1 digit while programming.

General Information

Printing Reports and Lists

Individual Transmission Report (TX Report)

One of the following choices are available:

ON mode: The report is always printed to let you know if the transmission is successful or not.

ERROR mode: The report is printed only when a transmission error occurs.

OFF mode: The report is not printed whether the transmission is successful or not. (Default)

```
<< TX REPORT >>
OTHER FACSIMILE = PANASONIC
PAGES = 00 RESULT = NG( 03 )
```

Transmission error codes

Code	Description	
ок	Successful transmission	
NG (02)	The STOP/CLEAR button was pressed to interrupt the operation.	
NG (03)	Document jammed or not fed into the unit properly. Check the paper path and try again.	
NG (04)	Transmission error. Try again.	

■ Setting PRINT TX REPORT mode

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- Press "#", then press "11" for the transmission report mode setting.
- 3 Press "1", "2" or "3", then press the SET button to store your selection in memory. Selection is as follows: Press "1" to set to ON mode. Press "2" to set to ERROR mode. Press "3" to set to OFF mode.
- 4 Press the PROGRAM button to end the operation. The PROGRAM indicator goes out.

List of stored phone numbers (TELEPHONE NUMBER LIST)

You can print a list of the numbers programmed for one touch dialing and speed dialing. Use this function to confirm that you have correctly stored phone numbers.

	KK SIA	TION KEY LIST :		
PHONE NUMBER			PHONE NUMBER	
Ø1 T123-4567		Ø6 TØ12-23	345-67 89	
02 R345-6789		07 R123− <u>[</u>	1	
03 T()		0 8		
04 R[]	0 9	SECRET NUMBER	
25		10	SECHET NOWIDEN	
	<< AUTI	D KEY LIST >>		
PHONE NUMBER			PHONE NUMBER	
00 T233-5555		10 R111-22		
01 T456-P753-7568		11 R123-F4	465-7890	
02 T[1	12 R[)	
03		13		
04		14		
05		15		
Ø 6		16		
07 T456-[]		17		
28		18		
09		19		

■ Codes in each phone number

- T: Shows that you have entered the telephone number in the TONE dialing mode.
- R: Shows that you have entered the telephone number in the PULSE (rotary) dialing mode.
- P: Shows that you have entered PAUSE.
- F: Shows that you have entered FLASH.

■ Printing the TELEPHONE NUMBER LIST

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- 2 Press "#", then press "41" for the PRINT TEL LIST setting.
- 3 Press the START/COPY button. The unit begins printing the list.
- 4 Press the PROGRAM button to end the operation.
 The PROGRAM indicator goes out.

System Programming Functions

FAX LOGO HEADING

The FAX LOGO HEADING setting

ON: Your LOGO and telephone number are printed on the transmitted document. (Default)

OFF: Your LOGO and telephone number are not printed.

Operation:

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- 2 Press "#", then press "05" for the FAX LOGO HEADING setting.
- 3 Press "1" or "2". (1=ON, 2=OFF)
- 4 Press the SET button to store your selection in memory.
- 5 Press the **PROGRAM** button to end the operation.

The PROGRAM indicator goes out.

FAX TX SPEED

The FAX TRANSMISSION SPEED setting

The unit can automatically select the optimum transmitting speed depending on the line condition and the type of the other facsimile unit.

9600 BPS: Maximum speed of 9600 bits

per second. (Default)

4800 BPS: Maximum speed of 4800 bits

per second. If you frequently experience problems such as transmission errors caused by poor line condition, set to

"4800 BPS".

- 1 Press the PROGRAM button. The PROGRAM indicator lights.
- Press "#", then press "17" for the FAX TX SPEED setting.
- 3 Press "1" or "2". (1=9600 BPS, 2=4800 BPS)
- 4 Press the SET button to store your selection in memory.
- 5 Press the PROGRAM button to end the operation. The PROGRAM indicator goes out.

FAX RX SPEED

The FAX RECEPTION SPEED setting

The unit can automatically select the optimum receiving speed depending on the line condition and the type of the other facsimile unit.

9600 BPS: Maximum speed of 9600 bits

per second. (Default).

4800 BPS: Maximum speed of 4800 bits

per second. If you frequently experience problems such as reception errors caused by poor line condition, set to

"4800 BPS".

Operation:

- 1 Press the PROGRAM button. The PROGRAM indicator lights.
- 2 Press "#", then press "18" for the FAX RX SPEED setting.
- 3 Press "1" or "2". (1=9600 BPS, 2=4800 BPS)
- 4 Press the SET button to store your selection in memory.
- 5 Press the PROGRAM button to end the operation.
 The PROGRAM indicator goes out.

TONE DETECT

The TONE DETECT setting

The unit automatically disconnects the line when it detects a busy tone after dialing in on-hook dialing mode.

OFF: The unit does not detect a busy tone. (Default)

ON: The unit detects a busy tone.

- 1 Press the PROGRAM button. The PROGRAM indicator lights.
- 2 Press "#", then press "20" for the TONE DETECT setting.
- 3 Press "1" or "2". (1=ON, 2=OFF)
- 4 Press the SET button to store your selection in memory.
- 5 Press the PROGRAM button to end the operation.
 The PROGRAM indicator goes out.

RECORDING TIME

The RECORDING TIME setting

The recording time for incoming messages can be set to VOX (unlimited) or 1 MIN.

VOX: The unit records an ICM as long

as a caller speaks. (Default)

1 MiN: The unit records an ICM up to 1

minute per message.

Operation:

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- 2 Press "#", then press "30" for the RECORDING TIME setting.
- 3 Press "1" or "2". (1=VOX, 2=1 MIN)
- 4 Press the **SET** button to store your selection in memory.
- 5 Press the PROGRAM button to end the operation.
 The PROGRAM indicator goes out.

CPC MODE

The CPC (Calling Party Control) mode setting

Select the CPC mode "A" or "B" depending on your line condition.

- A: Set to this mode if your line does not have special telephone services.
 (Default)
- B: Set to this mode if your line has special telephone services such as call waiting and call forwarding. If some incoming messages are cut off in mode "A", set the mode to "B".

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- 2 Press "#", then press "31" for the CPC MODE setting.
- 3 Press "1" or "2". (1=A, 2=B)
- 4 Press the SET button to store your selection in memory.
- 5 Press the PROGRAM button to end the operation.
 The PROGRAM indicator goes out.

TAD RING COUNT

The TAD RING COUNT setting

This function is available only in the TAD/FAX mode when receiving a call.

If you find there is difficulty in receiving from machines that have an automatic transmission feature, set the TAD RING COUNT number to "1" (once).

- 0: Toll Saver*
- 1: The unit answers on the 1st ring. (Default)
- 2: The unit answers on the 2nd ring.
- 3: The unit answers on the 3rd ring.
- 4: The unit answers on the 4th ring.

Operation:

- Press the PROGRAM button.
 The PROGRAM indicator lights.
- 2 Press "#", then press "32" for the TAD RING COUNT setting.
- 3 Press "0", "1", "2", "3" or "4".
 (0=Toll Saver, 1=once, 2=twice,
 3=three times, 4=four times)
- 4 Press the SET button to store your selection in memory.
- 5 Press the PROGRAM button to end the operation.
 The PROGRAM indicator goes out.

* Toll Saver function:

When you set the mode to "0", the number of rings tells you if there are any new voice-messages recorded.

If the unit answers on the 1st ring, there is at least one new message.

If the unit answers on the 3rd ring, there are no new messages.

Hang up immediately when you hear the 2nd ring. The 2nd ring indicates there are no new messages. This will save you toll charge for the call.

FAX RING COUNT

The FAX RING COUNT setting

This function is available only in the FAX mode when receiving a document.

If you find there is difficulty in receiving from machines that have an automatic transmission feature, set the FAX RING COUNT number to "1" (once).

- 1: The unit answers on the 1st ring. (Default)
- 2: The unit answers on the 2nd ring.
- 3: The unit answers on the 3rd ring.
- 4: The unit answers on the 4th ring.

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- 2 Press "#", then press "33" for the FAX RING COUNT setting.
- 3 Press "1", "2", "3" or "4".
 (1=once, 2=twice, 3=three times,
 4=four times)
- 4 Press the SET button to store your selection in memory.
- Press the PROGRAM button to end the operation.
 The PROGRAM indicator goes out.

PRINTER TEST

If you have any trouble with the print quality of your unit, check it using this feature.

Operation:

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- 2 Press "#", then press "42".
- 3 Press the START/COPY button. The unit prints the pattern as shown in Figure 1. If the print pattern has any blurred points or lines or dirty pattern, consult with your service center.
- 4 Press the PROGRAM button to end the operation. The PROGRAM indicator goes out.

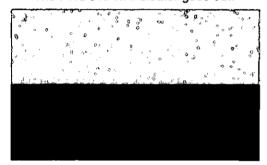


Figure 1

PRINT CHARACTER CODE

You can print the character code list for fax logo setting.

Operation:

- 1 Press the PROGRAM button. The PROGRAM indicator lights.
- 2 Press "#", then press "43".
- 3 Press the **START/COPY** button. The unit starts printing.
- 4 Press the PROGRAM button to end the operation. The PROGRAM indicator goes out.

RESET USER PROGRAMMABLE FUNCTIONS

This operation enables you to return the user programmable functions of 05 through 33 to their initial default settings. The function number 02 (YOUR LOGO setting) and 04 (YOUR TELEPHONE NUMBER setting) will not be erased.

Operation:

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- 2 Press "#", then press "50".
- 3 Press the START/COPY button. The following message is printed.

USER PROGRAMMABLE FUNCTIONS RESET OK? YES: PRESS "START/COPY" NO: PRESS "STOP/CLEAR"

4 Press the START/COPY button to return to initial settings. The following message will be printed.

USER PROGRAMMABLE FUNCTIONS RESET COMPLETED!

OR

Press the **STOP/CLEAR** button to cancel.

5 Press the PROGRAM button to end the operation.
The PROGRAM indicator goes out.

Service Functions

The following service functions can be changed as the need arises. For further details, consult with your service center.

List of service functions (SERVICE DATA LIST):

```
= 050*100ms(000...600)*100ms
     01 PAUSE TIME
     02 FLASH TIME = 70*10ms [00 ... 99 ]*10ms
03 DIG SPEED = 10pps [1 = 10 2 = 20
                             [1 = 10  2 = 20]
                    = 10pps
                                              1pps
     03 DIAL SPEED
                    = 6sec
                             [1 = 6]
                                      2 = 4
                                              lsec
     10 VOX TIME
                    = 2100Hz
                             [1 = 2100 \ 2 = 1100 ]Hz
     20 CED FREQ.
     21 INTL. MODE
                                      2 = 0 FF 1
                             [1 = QN
                   = ON
                             [1 = ON
                                      2 ≈ QFF
                                              1
     22 AUTO STANDBY = ON
                    = 1.8 \text{Km}  [1 = 0.0 2 = 1.8 3 = 3.6]
                                                       4 = 7.2 \text{ } 1 \text{Km}
     23 RX EQL.
                    = 1.8 \text{Km} [1 = 0.0 2 = 1.8 3 = 3.6
                                                       4 = 7.2 \text{ } 1\text{Km}
     24 TX EQL.
     << SPECIAL SERVICE SETTINGS >>
                                         74
                                                     82
                                 72
                                             80
                                                 81
                59
                   63
                       70
                            71
                                     73
        52
            53
                                                  2
                                     15
                                                      1
                    16
                             15 030
         2
                                         94
                                             95
                             91
                                 92
                                     93
            84
                86
                    87
                        90
                                            100 -10
                                  2 0075
                                         1
                         Ø6 Ø45
       170
            1
                 1
                     1
```

Printing the SERVICE DATA LIST

You can print a list of service functions (SERVICE DATA LIST).

Operation:

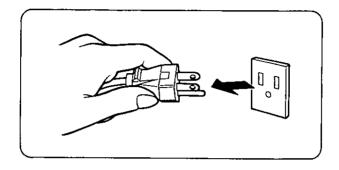
- Press the PROGRAM button.
 The PROGRAM indicator lights.
- Press "#", "9", "0", "0", "0" and "*".
- 3 Press the START/COPY button to start printing.
- 4 Press the **PROGRAM** button to end the operation.
 The PROGRAM indicator goes out.

Programming the service functions

- 1 Press the **PROGRAM** button. The PROGRAM indicator lights.
- Press the "#", "9", "0", "0", "0" and "*".
- 3 Enter the desired code number.
- 4 Press the desired value.
- 5 Press the SET button to store your selection in memory.
- 6 Press the PROGRAM button to end the operation. The PROGRAM indicator goes out.

Maintenance

Be sure that the AC plug is disconnected from the outlet before performing any maintenance.

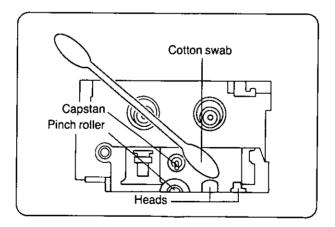


Cassette deck

Since the head and capstan assemblies are in contact with the tape, dirt and residue from the tape may easily adhere to these parts, causing distortion. Clean these parts periodically in the manner described below for the best sound quality.

Clean the head surfaces, pinch roller and capstan with a cotton swab.

If these surfaces are extremely dirty, wipe them with a cotton swab dampened with alcohol, then wipe them with a dry soft cloth.



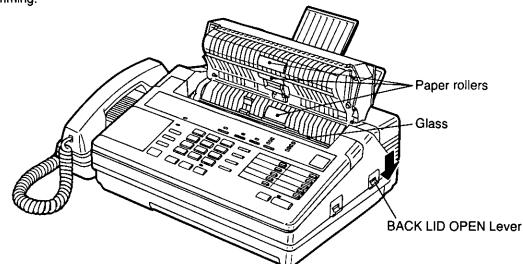
Note:

- •Do not bring magnetic or metal objects, such as a screwdriver, near the head assembly, as such objects could magnetize the heads.
- Do not oil any part of the unit.

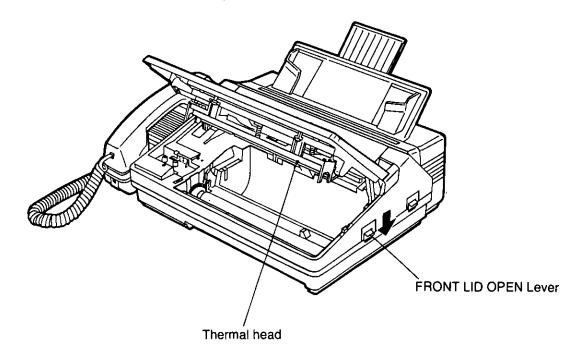
Facsimile machine

If a streak or a dirty pattern appears on a copied, transmitted or received document;

- 1. Clean the glass with a dry soft cloth.
- 2. Clean the paper rollers with a damp cloth then dry thoroughly to prevent the paper from jamming.



If you cannot get a clear copy after performing the above steps 1 and 2, clean the thermal head with a cloth moistened with denatured alcohol (alcohol without water), then dry thoroughly. To prevent malfunction due to static electricity, do not use a dry cloth and do not touch the thermal head with your finger directly.



Troubleshooting Guide

Facsimile

PROBLEM	CAUSE & REMEDY
I cannot receive documents automatically.	 Make sure recording paper is installed properly. Make sure the RECEIVE MODE of the unit is set to TAD/FAX or FAX mode and not to TEL mode. Shorten your OGM.
Recording image is faint and I cannot read it well.	 The sender transmitted a faint document. Request him to transmit the cleared document (e.g. copied one) again.
The other party complains that the letters on the document are distorted.	 If your line has special telephone service such as call waiting, it may have been activated by another telephone call. Connect the unit to a line that does not have such service. Be sure any other telephone is not connected to the same line as your unit.
The START/COPY indicator flashes for about 40 seconds after the unit receives a call automatically, but nothing is recorded.	 The caller hangs up during or immediately after playing back your OGM. This may occur if the disconnect signal is not transmitted from the central office.
When I receive or copy a document that has a dark background or contains photographs, the unit produces a high pitched noise.	●This is quite normal.
The unit does not operate properly.	•Turn the POWER switch off, then turn it on again.
Problems when receiving international facsimiles.	 Shorten your OGM to 10 seconds or less. FAX RX SPEED may need to be set to 4800 bps. See page 4-4.

Answering Device & Telephone

PROBLEM	CAUSE & REMEDY
The unit does not work when any button is pressed.	•Turn the POWER switch off, then turn it on again.
The unit has been set to the TAD/FAX mode, but no voice-messages have been recorded.	 The tape is not installed properly or is broken (cut, worn out or twisted). Install the tape or replace it with a new one.
When the tape is played, the sound level is low or nothing can be heard.	 Raise the sound level using the VOLUME control. Clean the head of the cassette deck compartment. See page 4-9.
I have played back all the recorded messages and I want to record the next call after the last message.	 Leave the unit as it is after hearing the messages.
I cannot retrieve recorded messages from a remote phone.	 Make sure that you use your REMOTE TAD ID number correctly. When you press your REMOTE TAD ID number, press the buttons firmly.
Some voice-messages have not been fully recorded.	•Set the calling party control (CPC) to "B". See page 4-5.
When a caller hangs up after leaving a message, the tape does not stop.	VOX TIME should be set to 4 seconds. See page 4-8.
The unit does not ring.	Set the RINGER volume selector to the HIGH or LOW position.
The ALARM Indicator	
PROBLEM	CAUSE & REMEDY
The indicator flashes after transmission.	•A transmission error has occured. Try again
The indicator lights.	 Confirm that the covers of the unit are closed firmly. Your OGM is not recorded. See page 1-13.
The indicator lights during transmission.	 Over than 600 mm (235/8") document are transmitted. A document is jamming. Remove it. Connect the unit to a line that does not have special telephone service such as call waiting.
The indicator lights during copying or receiving.	●A recording paper is jamming. Remove it.

Accessory Order Information

- Repalcement parts and accessories are available through your local authorized parts distributor.
- •For the authorized distributor in your area, call toll free: 1-800-545-2672.

Part No.	Picture	Description	Comment
RT-MC30 RT-MC60		Micro Cassette Tape	For replacement
KX-A106		Recording Paper 216 mm×30 m roll (8½"×98' roll)	For supplement

Specifications

Type: Desktop

Applicable Lines: Public Switched Telephone Network

Compatibility: CCITT G3

Document Size: Max. 216 mm (8½") in width,

Max. 600 mm (235/8") in length

Effective Scanning Width Max. 208 mm (83/16")

Printing Paper Size: 216 mm (letter)×30 m roll (81/2"×98' roll)

Effective Printing Width: 208 mm (83/16")

Transmission Time*: Approx. 30 sec/page (G3 Normal mode)

Approx. 17 sec/page (Original mode)
Horizontal 8 pels/mm (203 pels/inch)

Scanning Density: Horizontal 8 pels/mm (203 pels/inch)

Vertical 3.85 lines/mm (98 lines/inch)—Standard 7.7 lines/mm (196 lines/inch)—Fine

Scanner Type: CCD image sensor Thermal printing

Data Compression System: Modified Huffman (MH)

Modem Speed: 9600/7200/4800/2400 bps; Automatic Fallback

Automatifc Document Feeder: Max. 10 sheets

Temperature Range: 5°~35°C (41°~95°F)
Humidity Range: 45%~85%

Dimensions (H×W×D): 125×429×312 mm (429/32"×167/6"×99/32")

Weight: 5.2 kg (11 lb 7.4 oz.)

Power Consumption: Approx. 65 W

Power Supply: AC 120 V, 60 Hz

*Transmission Time: Transmission times apply to text data using CCITT No. 1 test chart,

between same machine models at maximum modem speed.

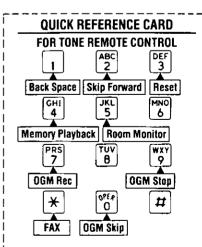
Transmission times vary in actual usage.

SPEED DIALER LIST

CODE	NAME	CODE	NAME
00		10	
01		11	
02		12	
03	•	13	
04		_ 14	
05		15	
06		16	
07		17	
08		18	
09		19	

Transmitting a document using the speed dialer:

Insert the documents FACE DOWN, then press the AUTO button and the code number (00 through 19).



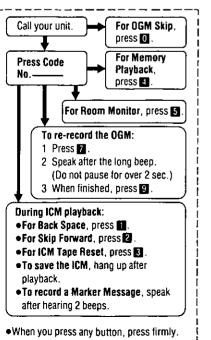
- To set the TAD/FAX mode, call your unit and wait for 15 rings. The unit will answer, then hang up.
- •To send the document, press ■.
 The "beep" (answering carrier tone) is heard. Then start transmission.

SPEED DIALER LIST

CODE	NAME	CODE	NAME
00		10	
01		11	
02		12	
03		13	
04		14	
05		15	
06		16	
07		17	
08		18	
09		19	

Transmitting a document using the speed dialer:

Insert the documents FACE DOWN, then press the AUTO button and the code number (00 through 19).



For your ful	ture reference ———————
SERIAL NO (found on the rear side of the unit)	DATE OF PURCHASE
PLACE OF PURCHASE	
ADDRESS	

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

Panasonic Sales Company ("PSC"), Division of Matsushita Electric of Puerto Rico, Inc.

San Gabriel Industrial Park, 65th Infantry Avenue, KM 9.5, Carolina, P.R. 00630

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