

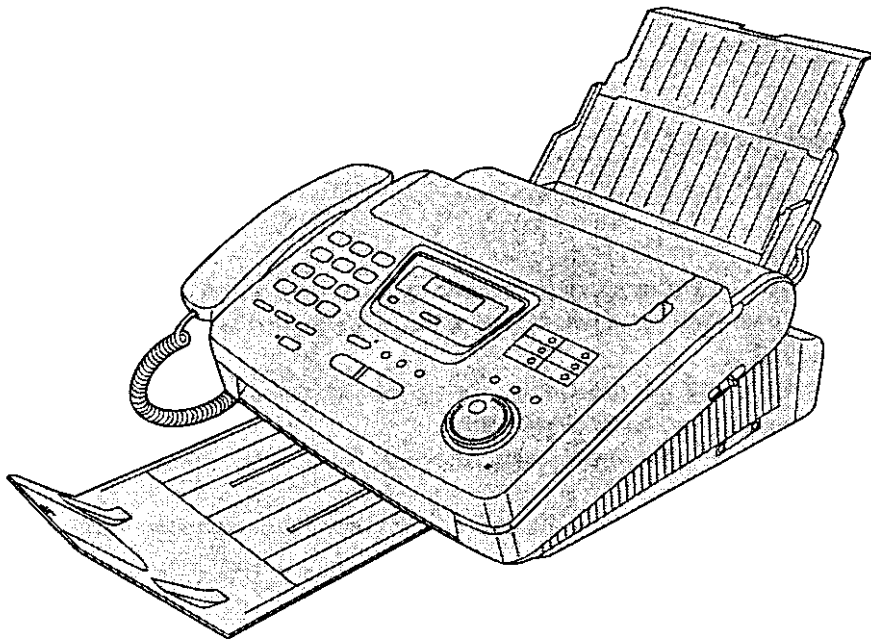
Panasonic

Multi-Function
Plain Paper FAX

Model No.

KX-FM280

OPERATING INSTRUCTIONS



Please read these Operating Instructions
before using the unit and save for future
reference.

**FOR OPERATION ASSISTANCE,
CALL 1-800-HELP-FAX (1-800-435-7329)**

Thank you for purchasing the Panasonic Compact Plain Paper Facsimile.

Welcome to the world of Panasonic facsimiles.

This Panasonic compact plain paper facsimile combines the telephone, fax, copier and TAM interface functions to provide you with more efficient office or home use. By utilizing these convenient features, you can maximize the effectiveness of this unit.

Things you should keep records of

Attach your sales receipt here

For your future reference

Date of purchase _____

Serial No. _____

(found on the bottom of the unit)

Dealer's name and address _____

Dealer's telephone number _____

Caution:

- The Telephone Protection Act of 1991 requires the following information to be clearly stated either at the top or bottom margin of the first message page when transmitting messages via telephone facsimile;
 - Date and time of transmission,
 - Identification of the business, entity or person(s) sending the facsimile, and
 - Telephone number of the business, entity or person(s).To program this information into your facsimile machine, complete all the instructions on pages 16 through 18.
- Note that the images of copied or received documents will remain on the used film. When disposing of the used film, use discretion.
- Do not rub or use an eraser on the printed side, as the print may smear.

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Important safety instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example near a bath tub, wash bowl, kitchen sink, or the like.
5. Place the unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. For safety purposes this product is equipped with a three prong grounded plug. If you do not have this type of outlet, please have one installed. Do not use any type of adaptor plug to defeat this safety feature.
9. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
10. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
11. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
12. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicer when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
13. Unplug this unit from the wall outlet and refer servicing to an authorized servicer when the following conditions occur:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.

- D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicer.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.
14. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
 15. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

INSTALLATION:

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.

WARNING:

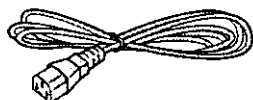
To prevent the risk of fire or electrical shock, do not expose this product to rain or any type of moisture.

OTHER INFORMATION

- Keep the unit away from electrical noise-generating devices, such as fluorescent lamps and motors.
- The unit should be kept free from dust, high temperature and vibration.
- The unit should not be exposed to direct sunlight.
- Do not place heavy objects on top of this unit.
- Do not touch the plug with wet hands.

Included accessories (To order, call toll free 1-800-435-7329)

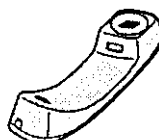
Power cord..... 1 pc.



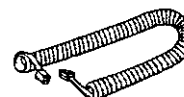
Telephone line cord 1 pc.



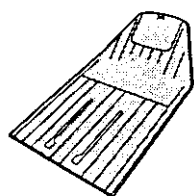
Handset 1 pc.



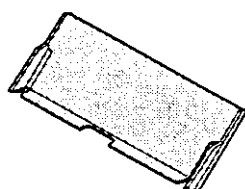
Handset cord..... 1 pc.



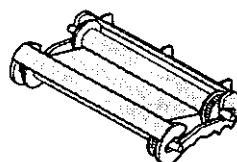
Stacker 1 pc.



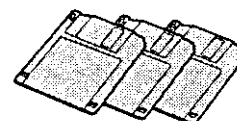
Paper tray 1 pc.



Film cartridge..... 1 pc.
(with starter film)



Panasonic Multi-Function
Center software
(Floppy disks) 3 pcs.



- If any items are missing or damaged, check with the place of purchase.
- Save the original carton and packing materials for future shipping and transporting of the unit.

Accessory order information

The starter film is only 20 meters (65') long. We recommend buying regular film [100 m (328')] for extra stock.

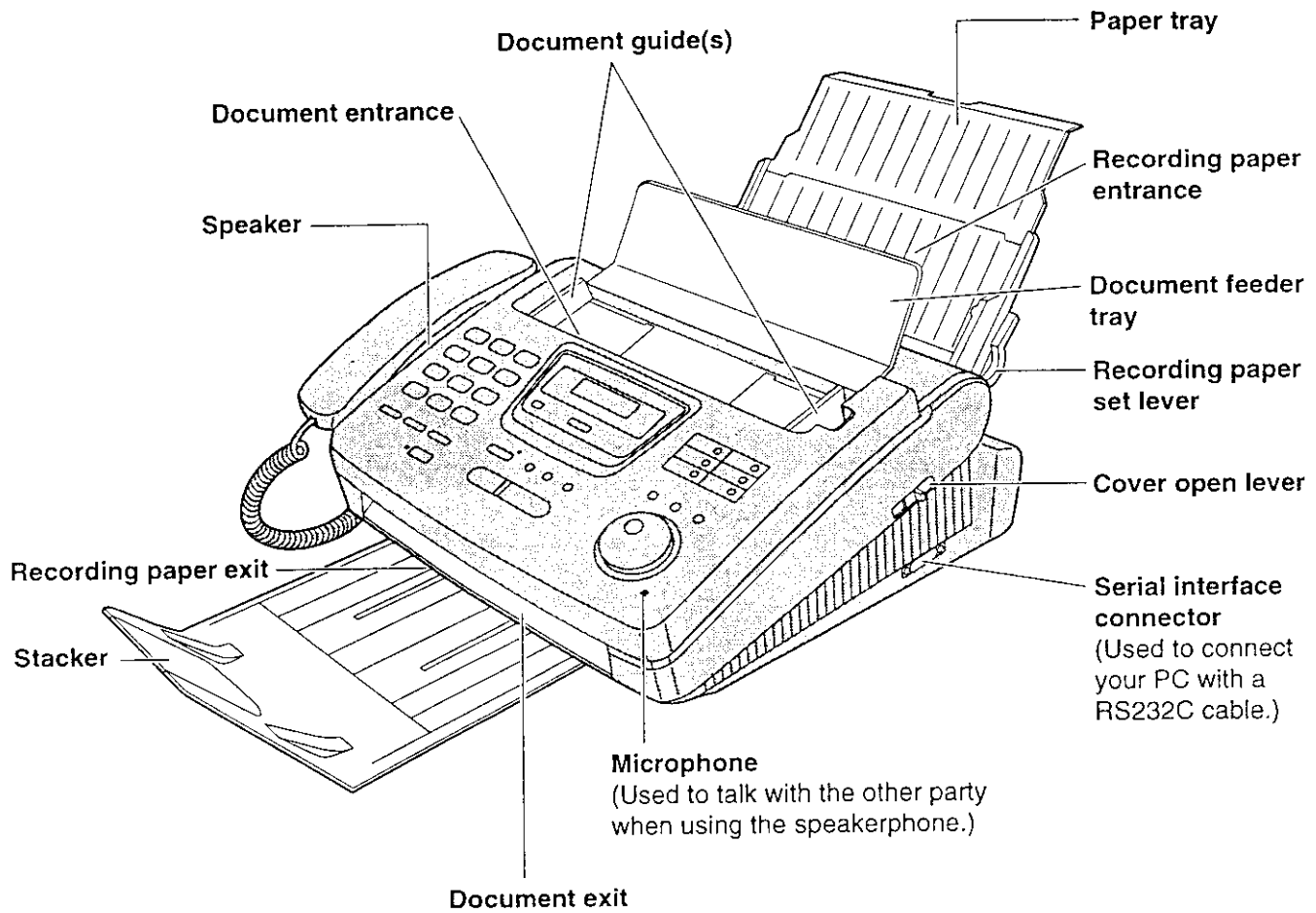
For accessory order, call toll free 1-800-435-7329.

Model No.	Description	Specifications
KX-FA135	Film cartridge	1 cartridge and 1 film [216 mm x 100 m (8½" x 328') roll] (The film has already been installed in the cartridge.)
KX-FA136	Replacement film	2 films [216 mm x 100 m (8½" x 328') rolls] (Film only. Use with your original cartridge.)

Caution:

The film is not reusable. Do not rewind and use the film again.

Overview



Installing the film cartridge

This gift starter kit yields approx. 65 letter size pages. A normal kit yields approx. 330 letter size pages. Purchase one of the following full size replacement consumable items as soon as possible for uninterrupted use of your Panasonic plain paper fax product.

Full size replacement consumable items:

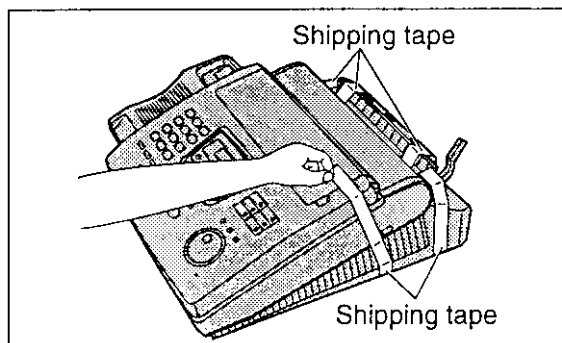
KX-FA135 FILM CARTRIDGE Complete kit including: Film roll, gears and cartridge.
(prints approx. 330 letter size pages)

KX-FA136 FILM ROLL 2 Replacement film rolls only. Use this film roll to refill the cartridge
KX-FA135. (prints approx. 660 letter size pages total)

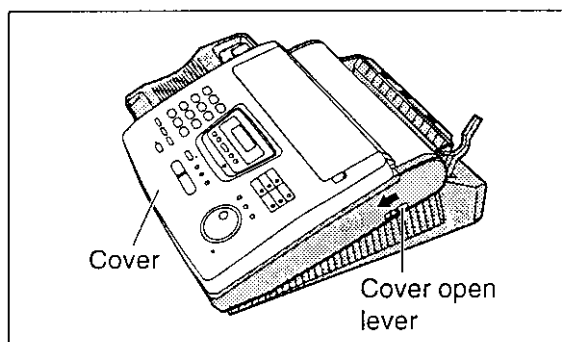
Caution:

- A film ribbon can only be used once. When the unit displays "FILM EMPTY", refill or replace the cartridge with one of the above consumable items.

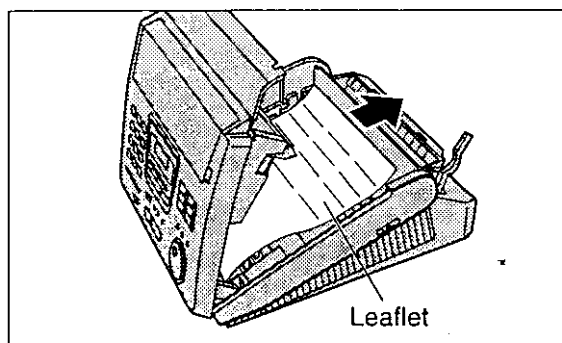
- 1 Remove the shipping tape from the unit.



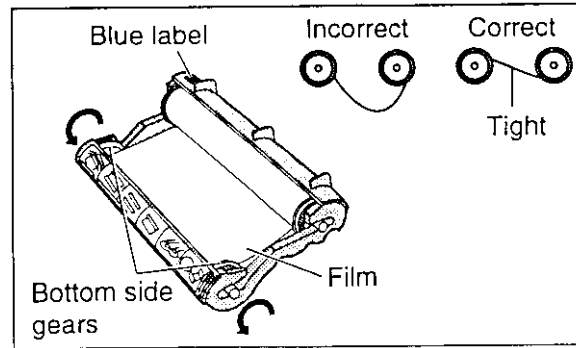
- 2 Slide the cover open lever forward to unlock the cover and lift open.



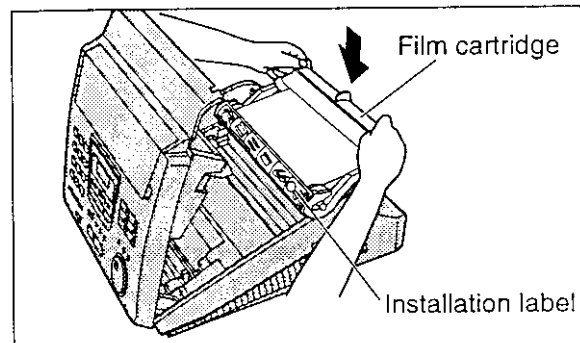
- 3 Remove the leaflet from the unit.



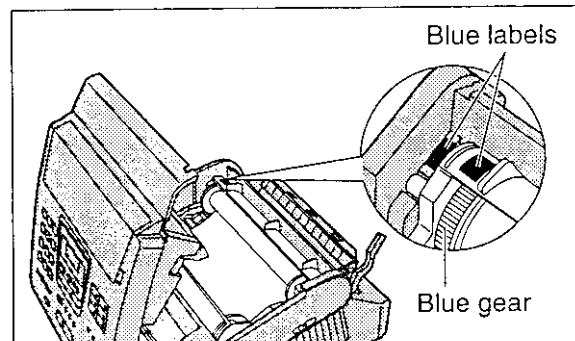
- 4** If the film in the film cartridge is slack, tighten it by winding the bottom side gears.



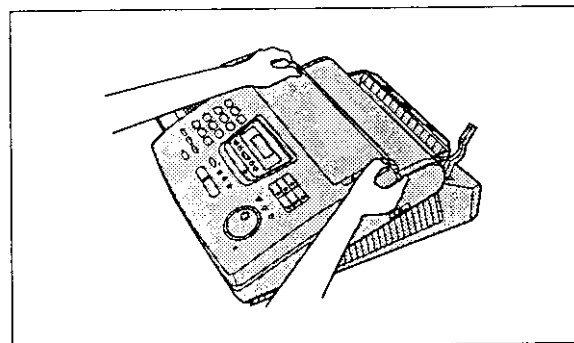
- 5** Install the film cartridge into the facsimile unit.



- 6** Make sure that the blue label on the cartridge is matched with that on the unit.

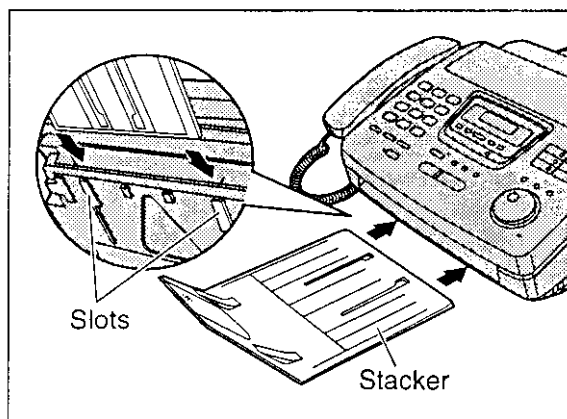


- 7** Close the cover securely by pushing down on both ends.



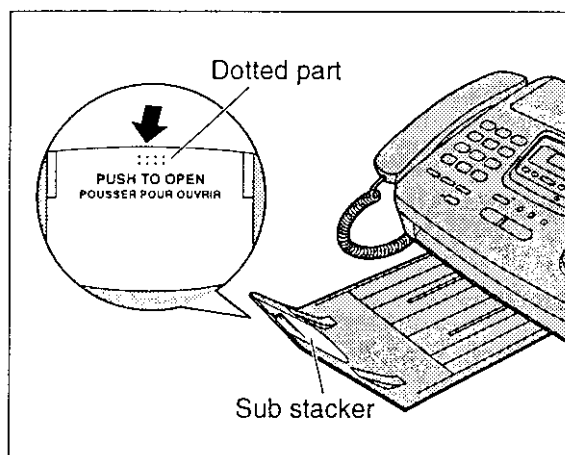
Installing the stacker

Lift the front of the unit, insert the stacker into the slots and slide it until it stops.



Using legal size paper

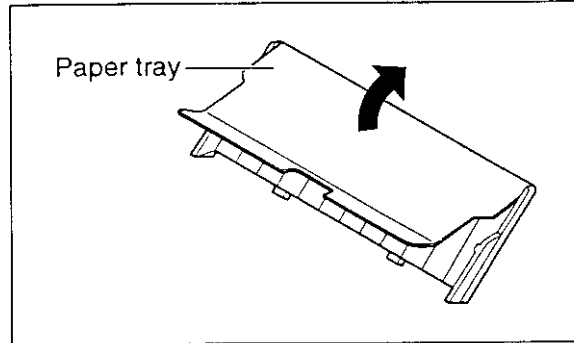
Press the dotted part and open the sub stacker.



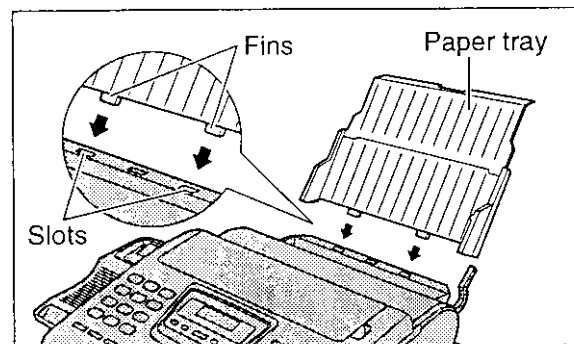
Installing the paper

Letter or legal size recording paper can be loaded. The paper tray can hold up to 150 sheets of 75 g/m² (20 lb.) paper. You may use 60 g/m² to 90 g/m² (16 lb. to 24 lb.) paper.

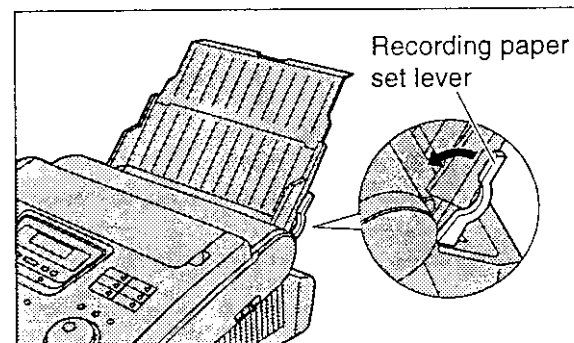
- 1** Open the paper tray.



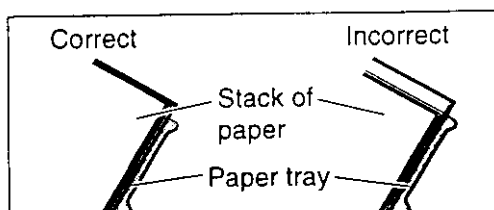
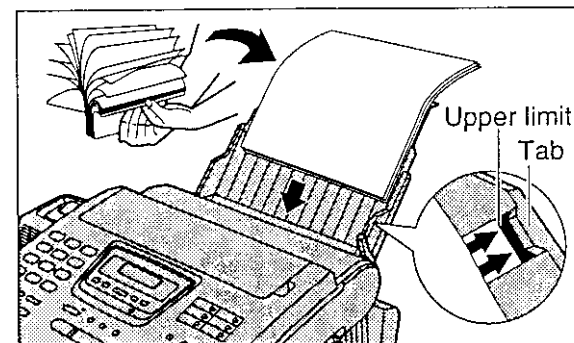
- 2** Insert the two fins on the paper tray into the slots on the back of the unit.



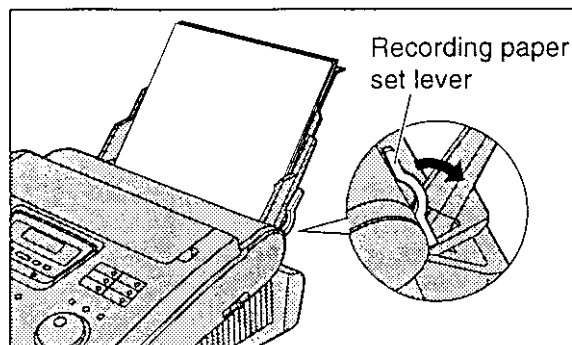
- 3** Pull the recording paper set lever forwards.



- 4** Fan the stack of paper to avoid a paper jam and insert the paper into the paper tray.
- The height of the stack of the paper should not exceed the upper limit on the paper tray, or it may cause a paper jam.
 - The paper should not be over the tab.
 - If the paper is not inserted correctly, readjust the paper or a paper jam may occur.



5 Move the recording paper set lever back.



Note:

- Do not use different types or thicknesses of paper in the paper tray at the same time. This may cause a paper jam.
- Avoid extremely smooth or shiny paper that is highly textured. Also avoid paper that is coated, damaged or wrinkled, or paper with a cotton and/or fiber content that is over 20%.
- Avoid used paper for double-sided printing.
- Do not use paper printed from this unit for double-sided printing with other copiers or printers, or a paper jam may occur.

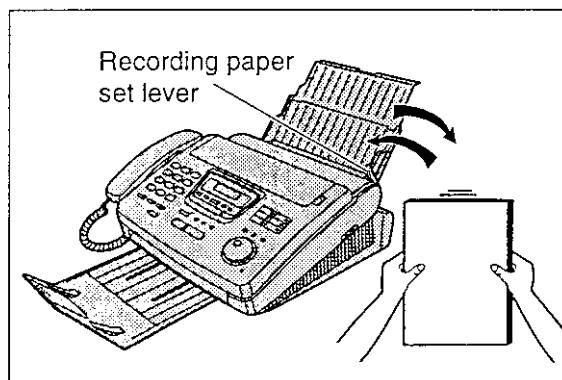
Adding paper to the paper tray

1. Pull the recording paper set lever forwards.
 - The unit will beep and the following message is displayed.

Display:

CHECK LEVER

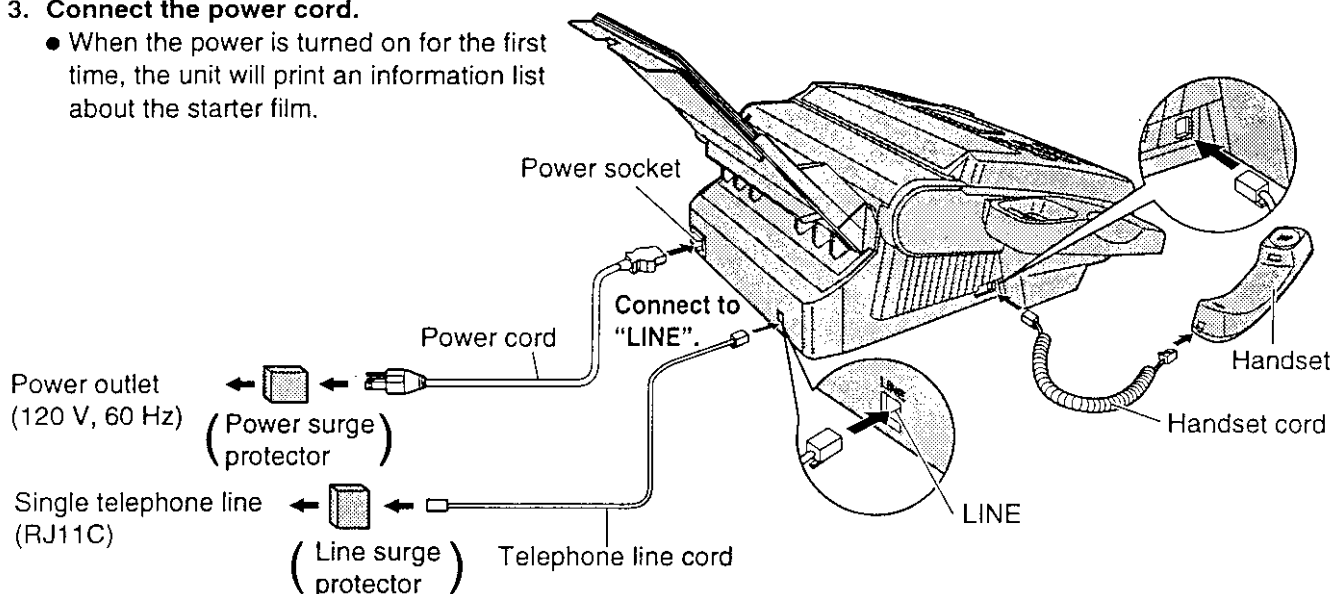
2. Remove the installed paper.
3. Add paper to the removed paper.
4. Fan the stack of paper and insert it into the paper tray.
5. Move the recording paper set lever back.



Connecting the telephone line and the power outlet

1. Connect the handset and handset cord.
2. Connect the telephone line cord.
3. Connect the power cord.

- When the power is turned on for the first time, the unit will print an information list about the starter film.



Note:

- When the telephone line cord and the power cord are connected, the unit will start detecting the dialing mode.

Display: CHECKING LINE

Wait until one of the following messages is displayed.

—If your line has touch tone service,

LINE IS TONE

—If your line has rotary pulse dial service,

LINE IS PULSE

- If the power cord is disconnected or a power failure occurs, the unit will detect the dialing mode again when power is restored.
- You can change the dialing mode setting manually.
- If you connect the power cord before connecting the telephone line cord, the following messages will be shown alternately.

Display: CONNECT TEL LINE ↔ TEL LINE IS OPEN

Connect the telephone line cord.

- For additional equipment protection, we recommend the use of a surge protector. The following types are available; TELESPIKE BLOK MODEL TSB (TRIPPE MFG. CO.), SPIKE BLOK MODEL SK6-0 (TRIPPE MFG. CO.), SUPER MAX (PANAMAX) or MP1 (ITW LINX).
- When you operate this product, the power outlet should be near the product and easily accessible.
- If the following message is displayed when the unit is plugged in, the recording paper set lever is released.

Display: CHECK LEVER

Move the lever back (see step 5 on page 10).

Connecting to a computer

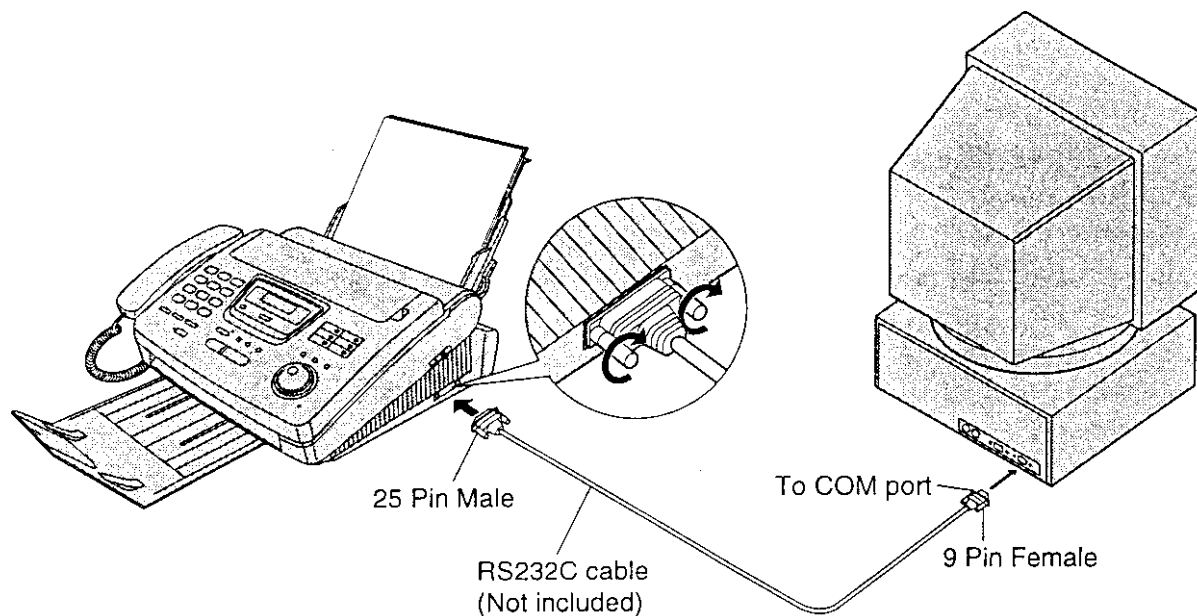
To run the Multi-Function Center software, you need the following software and hard ware.

- IBM PC 386, or higher, or compatible meeting all AT bus specifications (DX 33Mhz minimum recommended)
- Microsoft Windows 3.1, 3.11 or Windows 95
- Hard Disk drive with at least fourteen (14) MB of available storage
- PS232C Serial Port

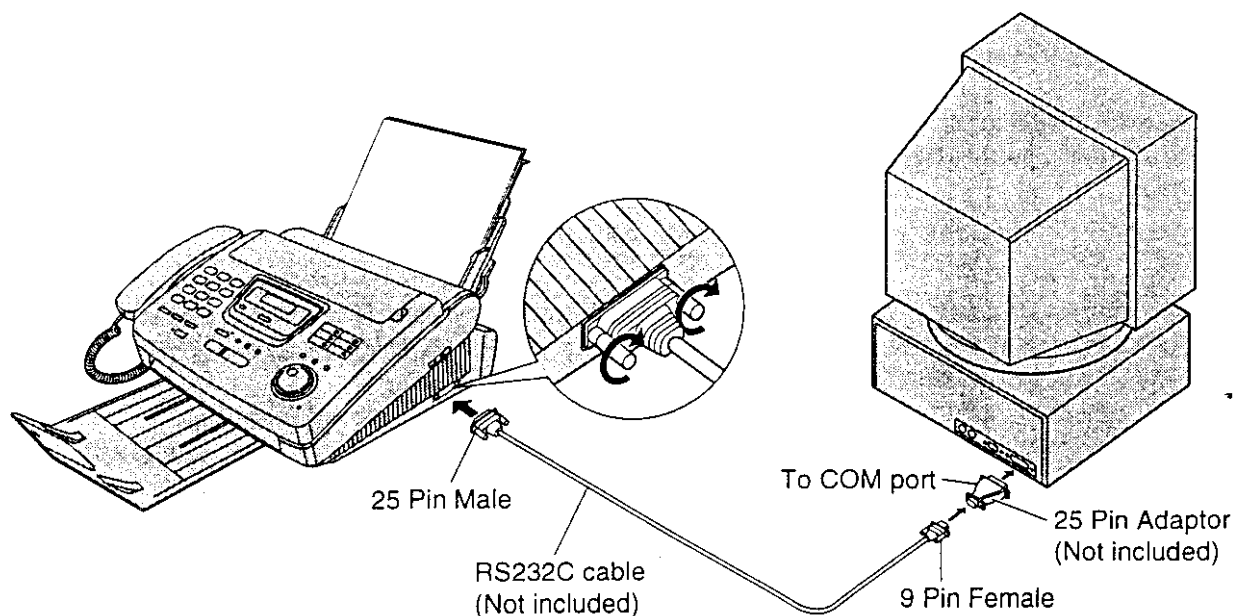
Note:

- The unit cannot print on envelopes.

■ **If your PC has a 9 pin com port:**



■ **If your PC has a 25 pin com port:**



Main functions

The Multi-Function Center is an application that allows you to use your facsimile unit as a printer, scanner and copier with Windows.

Printer functions

- Printing documents from Windows 3.1, 3.11 or Windows 95
- Printing received documents

Fax functions

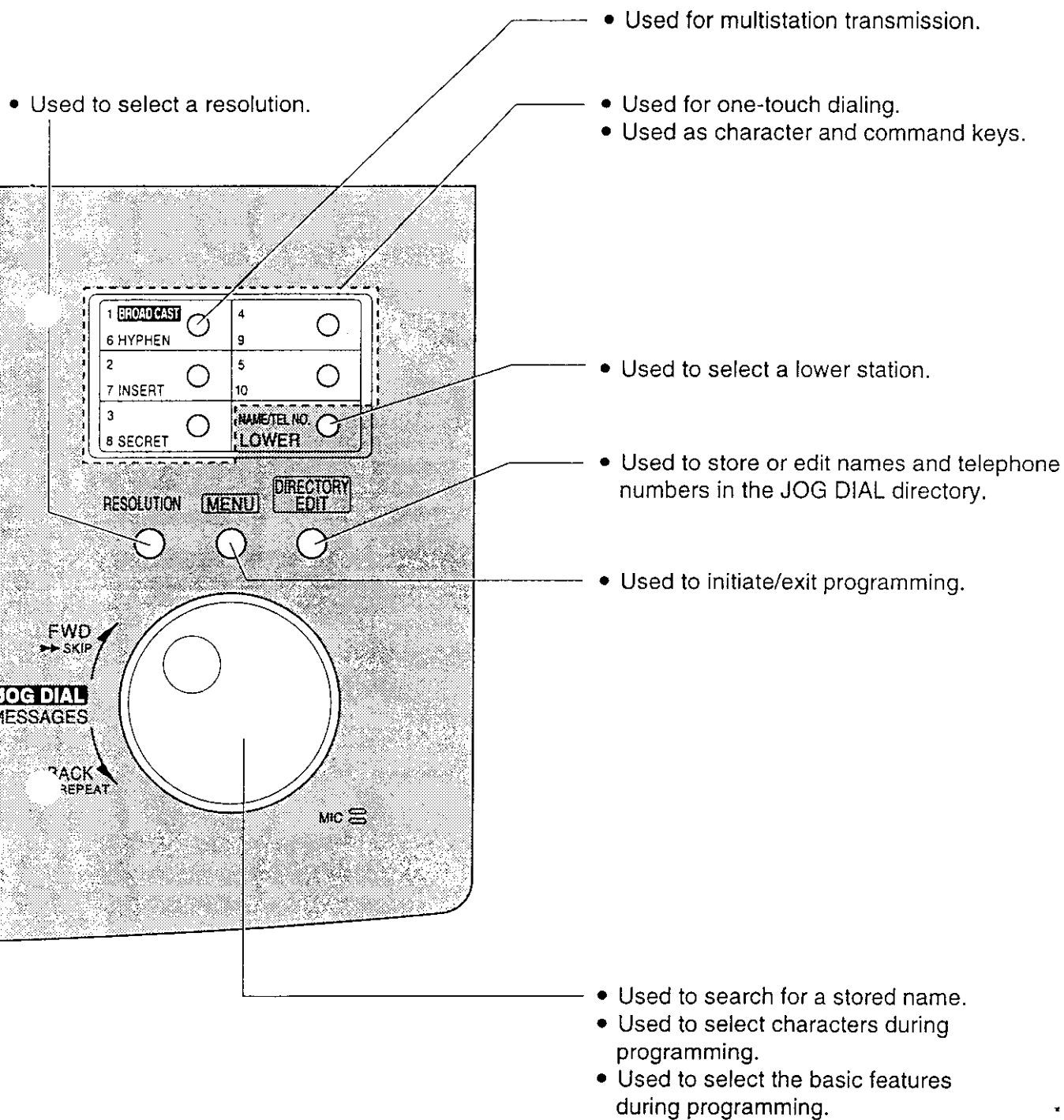
- Personal information database for fax and phone numbers
- Sending documents
- Receiving faxes on your PC
- Viewing faxes on your screen
- Faxing document from the facsimile unit using the PC

Scanner functions

- Using your fax machine as a scanner

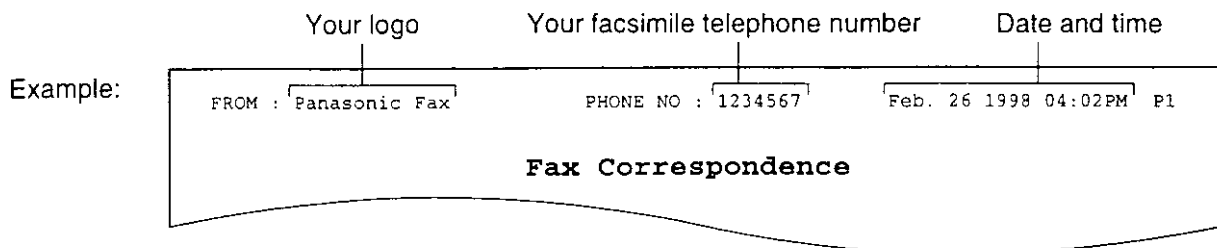
Location of controls

- Used to change from pulse to tone during dialing.
 - Used to print a quick reference.
 - Used to check the amount of remaining film.
 - Used to send fax using internet.
 - Used to turn on/off the auto receive mode.
 - Display panel
-
- Dial keypad
- Used as a hookswitch.
 - Used for the speakerphone operation.
 - Used for voice muting.
 - Used to stop an operation or programming.
 - Used to adjust ringer/handset/speaker volumes.
 - Used as a cursor key or a selection key.
 - Used to initiate fax transmission, reception and copying.
 - Used to store a parameter during programming.
 - Used to redial the last number dialed.
 - Used to insert a pause during dialing.
- FLASH SLOW
- REDIAL/PAUSE
- MUTE QUICK
- DIGITAL SP-PHONE
- HELP RECORD PLAY MESSAGES ERASE CALLER ID SEARCH
- MEMORY%
- IQ-FAX
- AUTO ANSWER TAD/FAX ON/O
- VOLUME RINGER/HANDSET/SPEAKER
- ZOOM
- FILM REMAINING
- STOP START/COPY/SET
- COLLATE



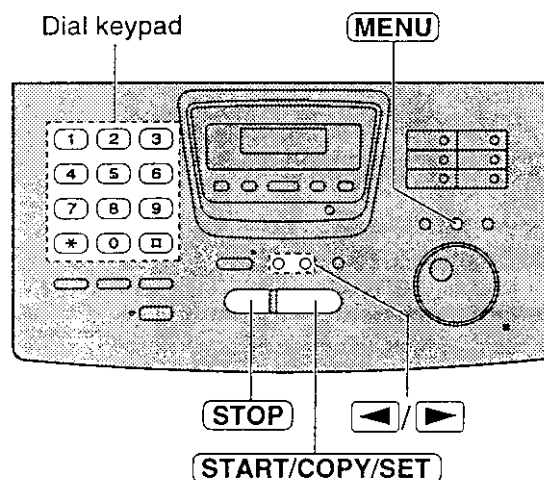
Programming the date and time, your name and facsimile telephone number

You can program the date and time, your logo and facsimile telephone number and this information will be printed on the top of each page transmitted from your unit.



Setting the date and time

- 1 Press **MENU**.
Display: **SYSTEM SET UP**
- 2 Press **1**, then **0** **1**.
SET DATE & TIME
- 3 Press **START/COPY/SET**.
M:01/D:01/Y:98
Cursor
- 4 Enter the correct month/day/year by selecting each 2 digits.
Example: Aug. 10, 1998
Press **08** **10** **98**.
M:08/D:10/Y:98
- 5 Press **START/COPY/SET**.
TIME: 12:00AM
- 6 Enter the correct hour/minute by selecting each 2 digits. Press ***** to select AM or PM.
Example: 3:15PM
1. Press **03** **15**.
TIME: 03:15AM
2. Press ***** until PM is displayed.
TIME: 03:15PM
- 7 Press **START/COPY/SET**.
SETUP ITEM []
- 8 Press **MENU**.



Note:

- The ***** key can be used to select AM or PM wherever the cursor is located.
- The accuracy of the clock will be approximately ± 60 seconds a month.

To correct a mistake

- Press **◀** or **▶** to move the cursor to the incorrect number, then make the correction.
- If you press **STOP** while programming, the display will return to the previous one.

Setting your logo

The logo can be a company, division or personal name.

- 1 Press **MENU**.
Display: **SYSTEM SET UP**
- 2 Press **⇐**, then **0 2**.
YOUR LOGO
- 3 Press **START/COPY/SET**.
LOGO=

- 4 Enter your logo up to 30 characters using the dial keypad and direct call station keys.

For example, when entering "Bill" as your logo:

1. Press **2** twice. **LOGO=B**
2. Press **4** six times. **LOGO=Bi**
3. Press **5** six times. **LOGO=Bill**
4. Press **▶** to move the cursor to the next space and press **5** six times.
LOGO=Bill

Note:

- If you use the same number key continuously to enter the next character, press **▶** to move the cursor.

- 5 Press **START/COPY/SET**.
SETUP ITEM []

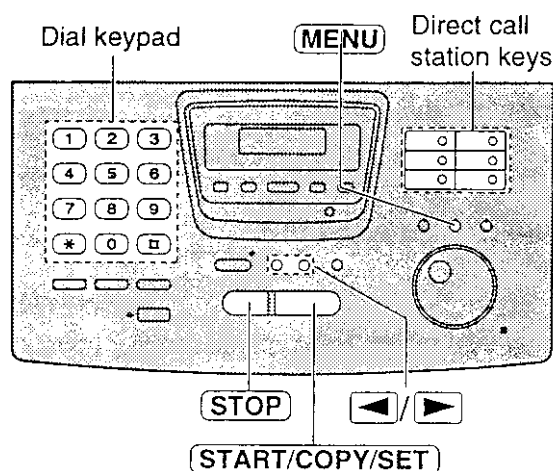
- 6 Press **MENU**.

To correct a mistake

- Press **◀** or **▶** to move the cursor to the incorrect character, then make the correction.

To delete a character

- Move the cursor to the character you want to delete and press **STOP**.

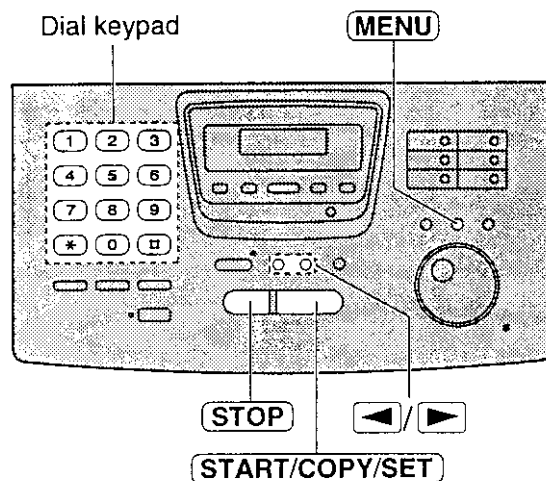


Character table

Keys		Characters
Dial keys	1	1 [] { } + - / = , . _ ' °
	2	A B C a b c 2
	3	D E F d e f 3
	4	G H I g h i 4
	5	J K L j k l 5
	6	M N O m n o 6
	7	P Q R S p q r s 7
	8	T U V t u v 8
	9	W X Y Z w x y z 9
	0	0 () < > ! " # \$ % & ¥
Direct call station keys	1	: ; ? * @ ^ ' →
	2	INSERT key (Used to insert one character or one space.)
	4	SPACE key (Used to replace one character with a space.)
	5	DELETE key (Used to delete one character.)
	LOWER	HYPHEN key (Used to insert a hyphen.)
◀		◀ key (Used to move the cursor to the left.)
▶		▶ key (Used to move the cursor to the right.)

Setting your facsimile telephone number

- 1 Press **MENU**.
Display: **SYSTEM SET UP**
- 2 Press **[]**, then **0 3**.
YOUR TEL NO.
- 3 Press **START/COPY/SET**.
NO. =
- 4 Enter your facsimile telephone number up to 20 digits.
Example: **NO. =1234567**
- 5 Press **START/COPY/SET**.
SETUP ITEM []
- 6 Press **MENU**.



Note:

- The **[]** button inserts a space and the **[*]** button a "+".

Example: +234 5678

Press **[*]234[]5678**.

To correct a mistake

- Press **[◀]** or **[▶]** to move the cursor to the incorrect number, then make the correction.

To delete a number

- Move the cursor to the number you want to delete and press **STOP**.

Making voice calls

- 1 Press **DIGITAL SP-PHONE** or lift the handset.

Display: TEL=

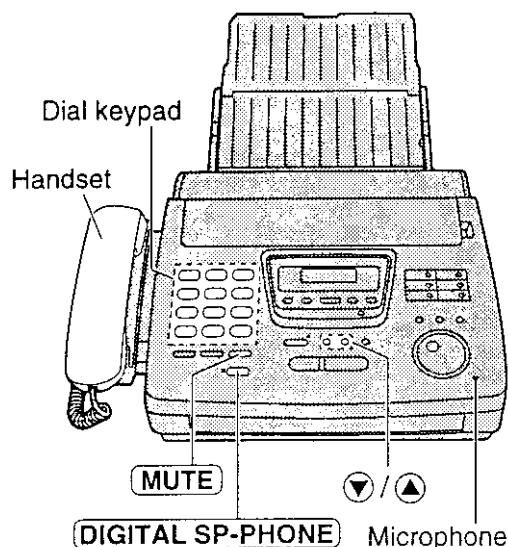
- 2 Dial the telephone number.

Example: TEL=2345678

- If you misdial, hang up and dial again.

- 3 When the other party answers, speak into the microphone or handset.

- 4 When finished, press **DIGITAL SP-PHONE** or hang up the handset.



Voice muting

Using this feature, the other party cannot hear you but you can hear them.

1. Press **MUTE** during a telephone conversation.

Display: <MUTE>

2. To resume the conversation, press **MUTE**.

Handset receiver volume

3 levels (high/middle/low) are available.
Press $\blacktriangledown$ or $\blacktriangle$ while using the handset.

Speaker volume

8 levels (high to low) are available.
Press $\blacktriangledown$ or $\blacktriangle$ while using the speakerphone.

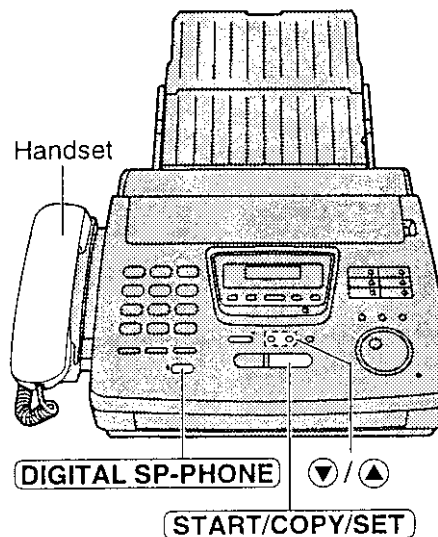
Hints for speakerphone operation

- Use the speakerphone in a quiet room.
- If you have difficulty hearing the other party, adjust the volume using **VOLUME**.
- If you and the other party speak at the same time, parts of your conversation will be cut off.
- To switch to the handset, lift the handset. To switch back to the speakerphone, press **DIGITAL SP-PHONE**.

Answering voice calls

1 When the unit rings, press **DIGITAL SP-PHONE** or lift the handset.

2 When finished, press **DIGITAL SP-PHONE** or hang up the handset.



Ringer volume

4 levels (high/middle/low/off) are available.
Press ▼ or ▲ while the unit is idle.

■ To turn the ringer off:

1. Press ▼ repeatedly until the following message is displayed.

Display: **RINGER OFF= OK?**



YES: PRESS SET

2. Press **START/COPY/SET**.

- To turn the ringer back on, press ▲.

■ While the ringer volume is set to off:

The display will show the following message.

RINGER OFF

When receiving a call, the unit will not ring, but will display the following.

INCOMING CALL

Making a copy

The unit can make single or multiple copies (up to 99). Any transmittable document can be copied.

- 1 Open the document feeder tray.
- 2 Adjust the width of the document guides to the size of the document.
- 3 Insert the document (up to 20 sheets) FACE DOWN until a beep tone is heard.

Display: STANDARD

- 4 Press **RESOLUTION** repeatedly to select the desired setting, if necessary (see below).

- 5 Press **START/COPY/SET**.

Display: NUMBER=1

- If you need two or more copies, enter the number of copies (up to 99).

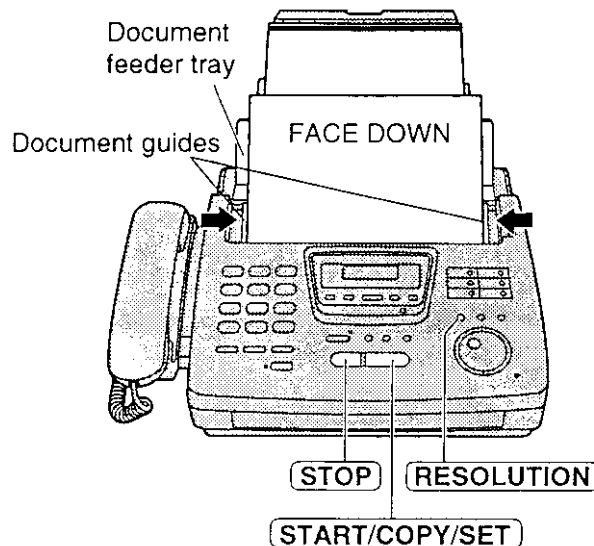
- 6 Press **START/COPY/SET**.

- The unit will start printing.

COPYING

Note:

- If a resolution is not set, FINE resolution will automatically be selected.
- You can make or receive a voice call while making a copy.



To feed 21 or more sheets at a time

Insert the first 20 sheets of the document. Add the extra sheets (up to 20) before the last sheet is fed into the unit.

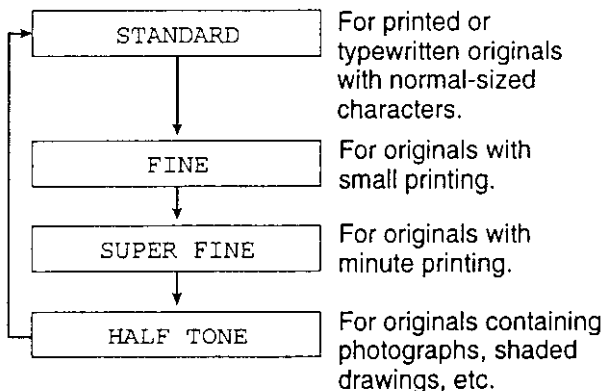
To stop copying

Press **STOP**.

To eject the document, press **STOP** again.

Selecting the resolution

Select the desired resolution according to the type of document.



Note:

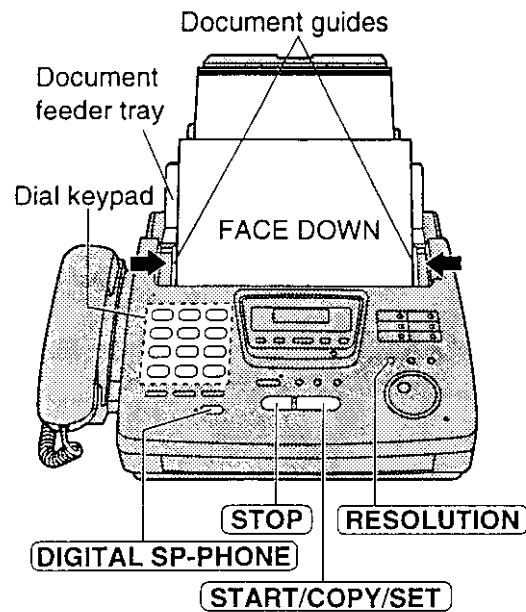
- Using the fine, super fine or half tone setting will increase the transmission time.
- If the resolution setting is changed during feeding, it will be effective from the next sheet.
- The super fine resolution only works with other compatible machines.

When you make two or more copies

The unit will print with sorting. If you wish to print with stacking up, set the sorting feature to off.

Sending faxes manually

- 1 Open the document feeder tray.
- 2 Adjust the width of the document guides to the size of the document.
- 3 Insert the document (up to 20 sheets) **FACE DOWN** until a beep tone is heard.
 Display: STANDARD
- 4 Press **RESOLUTION** repeatedly to select the desired setting, if necessary.
- 5 Press **DIGITAL SP-PHONE** or lift the handset.
TEL=
- 6 Dial the fax number.
 • If you misdial, hang up and dial again.
- 7 When a fax tone is heard, press **START/COPY/SET**, and hang up the handset, if using it.
CONNECTING



To stop transmission

Press **STOP**.

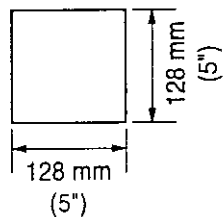
To eject the document, press **STOP** again.

Note:

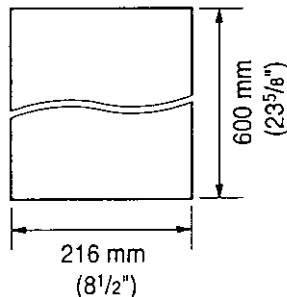
- If the other party answers your call, ask them to start receiving a fax, then press your **START/COPY/SET**.

Documents you can send

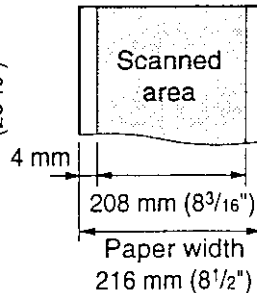
Minimum size



Maximum size



Effective scanning area



Document weight

Single sheet:
 45 g/m² to 90 g/m²
 (12 lb. to 24 lb.)
 Multiple sheets:
 60 g/m² to 75 g/m²
 (16 lb. to 20 lb.)

Note:

- Remove clips, staples or other similar fastening objects.
- Check that ink, paste or correction fluid has dried.
- Do not send the following types of documents. Use copies for fax transmission.
 - Chemically treated paper such as carbon or carbonless duplicating paper
 - Electrostatically charged paper
 - Heavily curled, creased or torn paper
 - Paper with a coated surface
 - Paper with a faint image
 - Paper with printing on the opposite side that can be seen through the front (e.g. newspaper)

Receiving documents (receive mode, etc.)

Setting the receive mode

This unit has two receive modes:

The **AUTO RECEIVE** mode allows your unit to receive all calls automatically without your assistance.

Use this mode when you wish to use the unit solely as a facsimile machine or when you are going out.

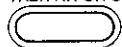
The **MANUAL RECEIVE** mode lets you answer calls by lifting the handset. Use this mode when you are in and wish to answer voice and fax calls.

These modes can be selected by pressing the **AUTO ANSWER** button.

AUTO RECEIVE and MANUAL RECEIVE have two different receive settings.

MANUAL RECEIVE MODE

AUTO ANSWER
TAD/FAX ON ●



The TAD/FAX ON indicator is off.

TEL mode (pre-selected)

Allows you to answer all calls manually.

When the unit rings, you must answer all calls by picking up the handset.

- When a fax call is received, you can start fax reception by pressing the **START/COPY/SET** button.
- If you answer a fax call using an extension telephone connected to the same line, you can start fax reception remotely by pressing ***9**.

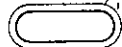
TEL/FAX mode

Automatic voice and fax recognition

When a fax call is detected, the unit will automatically answer the line and start reception.
When a voice call is detected, the unit will start to ring.
You can lift the handset to answer the call.

AUTO RECEIVE MODE

AUTO ANSWER
TAD/FAX ON ○



The TAD/FAX ON indicator is on.

ANS/FAX mode (pre-selected)

Records voice messages and/or receives fax documents

When a voice call is detected, the telephone answering machine will record the voice message.
When a fax call is detected, the facsimile unit will receive fax documents.

FAX mode

Receives fax documents only.

The unit will answer all calls automatically and activate the fax function.

Receiving documents (receive mode, etc.) (cont.) **==**

Allowing you to answer all calls manually (TEL mode) **—**

1 When the unit rings, press **DIGITAL SP-PHONE** or lift the handset to answer the call.

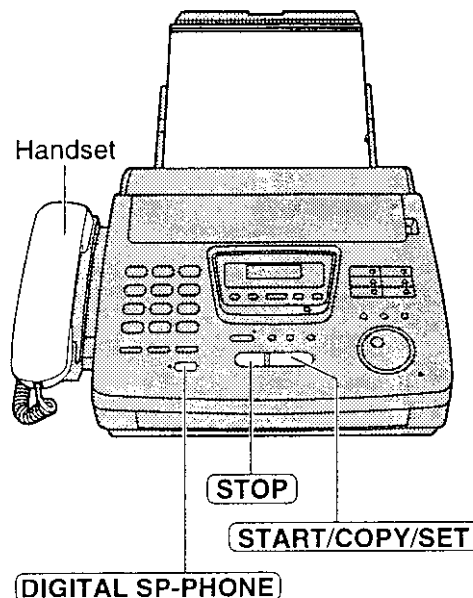
2 When:
—document reception is required,
—a fax calling tone (slow beep) is heard, or
—no sound is heard,
press **START/COPY/SET**.

Display: **CONNECTING**

3 Hang up the handset, if using it.
•The unit will start reception.

Note:

- If you do not answer a call by 15 rings, the unit will temporarily switch to the fax and the caller can send documents.
- If the MANUAL RECEIVE setting is set to the TEL/FAX mode, reset it to the TEL mode.



To stop receiving

Press **STOP**.

Friendly reception

When you answer a call and hear a fax calling (slow beep), the unit will automatically start receiving even if you do not press **START/COPY/SET**.

Memory reception

When a printing problem is detected, the unit will temporarily store the received document into memory.

While documents are in memory, the unit will:
— display an error message and the following message alternately;

Display: **FAX IN MEMORY**

— alert you with a slow beep (Receive alert).

ANS/FAX mode

(use built in answering system and receive voice and fax calls automatically)

When you turn on the AUTO RECEIVE mode (pre-selected setting is ANS/FAX), the unit will work as a facsimile machine and/or answering device.

If a fax call is detected, the unit will automatically switch to receive faxes.

If a voice call is detected, the answering system will begin recording, then the caller can leave a voice message.

- You can use a pre-recorded greeting message or record your own greeting message.

Setup of voice message and document reception

The total recording time (including the greeting messages) is about 18 minutes. If the messages are recorded in a noisy environment the recording time may be shortened up to 11 minutes.

To record incoming voice messages and receive fax documents, follow the steps below.

- 1 Make sure that the AUTO RECEIVE mode is set to ANS/FAX.

- 2 To turn on the AUTO RECEIVE mode, press **AUTO ANSWER** until the TAD/FAX ON indicator light goes on.

- The display shows the following message.

Display: **ANS/FAX MODE**

The remaining time for recording incoming messages will be displayed.

Example: **TIME LEFT=10m13s**



Note:

- Each incoming message recording time can be set to either 1 minute or unlimited.
- When the remaining time is low, erase unnecessary messages from memory.

List of FCC requirements and information

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

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

This 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 FCC 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 FCC 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.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

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

1. 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.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

Panasonic Sales Company
Division of Matsushita Electric of
Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5, San Gabriel
Industrial Park, Carolina, Puerto Rico 00985

PANASONIC Facsimile Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor"), will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico for one (1) year from the date of original purchase in the event of a defect in materials or workmanship.

This Limited Warranty Excludes both Labor and Parts for: batteries, antennas, and cosmetic parts (cabinet).

Carry-in or mail-in service in the USA or Puerto Rico can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory. Or call, toll free, 1-800-HELP FAX (1-800-435-7329) to locate a PASC Factory Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in material or workmanship which occur during normal use and (when applicable) does not cover the print and ink cartridge, the toner cartridge and drum unit or the film cartridge. The warranty does not cover damages which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, misapplication, set-up adjustments, improper operation or maintenance, alteration, modification, power line surge, improper voltage supply, lightning damage, signal reception problems, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the company address indicated above.

Servicenter Directory

**For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-HELP-FAX (435-7329), Monday-Friday 9am - 8pm EST.**

**Web Site: <http://WWW.Panasonic.com>
You can purchase parts, accessories or
locate your nearest servicenter by visiting
our Web Site.**

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue
Cypress, CA 90630

800 Dubuque Avenue
S. San Francisco,
CA 94080

20201 Sherman Way
Suite 102
Canoga Park, CA 91306

3878 Ruffin Road
Suite A
San Diego, CA 92123

COLORADO

1640 South Abilene Street
Suite D
Aurora, CO 80012

FLORIDA

3700 North 29th Avenue
Suite 102
Hollywood, FL 33020

GEORGIA

8655 Roswell Road
Suite 100
Atlanta, GA 30350

ILLINOIS

1703 North Randall Road
Elgin, IL 60123
(Pick-up / Drop-off only)

9060 Golf Road
Niles, IL 60714

MARYLAND

62 Mountain Road
Glen Burnie, MD 21061

MASSACHUSETTS

60 Glacier Drive
Suite G
Westwood, MA 02090

MICHIGAN

37048 Van Dyke Avenue
Sterling Heights, MI
48312

MINNESOTA

7850-12th Avenue South
Airport Business Center
Bloomington, MN 55425

OHIO

2236 Waycross Road
Civic Center Plaza
Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd. West
Suite B
Langhorne, PA 19047

Chartiers Valley
Shopping Center
1025 Washington Pike
Bridgeville, PA 15017

TENNESSEE

919-8th Avenue South
Nashville, TN 37203

TEXAS

7482 Harwin Drive
Houston, TX 77036

13615 Welch Road
Suite #101
Farmers Branch,
TX 75244

WASHINGTON

20425-84th Avenue South
Kent, WA 98032

HAWAII

99-859 Iwaiwa Street
Aiea, Hawaii 96701
Phone (808) 488-1996
Fax (808) 486-4369

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:
Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787) 750-4300 Fax (787) 768-2910

Accessory Purchases:

Customer Orders Only 1-800-HELP-FAX (435-7329)

As of Jan. '98

Specifications

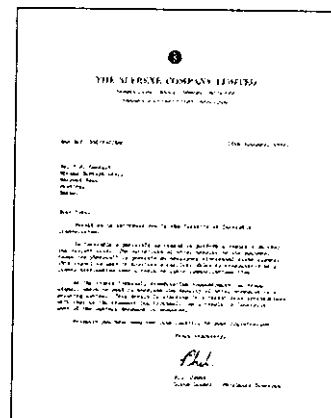
- | | |
|------------------------------|--|
| 1. Applicable Lines: | Public Switched Telephone Network |
| 2. Document Size: | Max. 216 mm (8½") in width
Max. 600 mm (23⅞") in length |
| 3. Effective Scanning Width: | 208 mm (8⅞") |
| 4. Recording Paper Size: | Letter: 216 mm × 279 mm (8½"×11")
Legal: 216 mm × 356 mm (8½"×14") |
| 5. Effective Printing Width: | 208 mm (8⅞") |
| 6. Transmission Time*: | Approx. 9s/page (Original mode)**
Approx. 15s/page (Original mode)***
Approx. 30s/page (G3 Normal mode) |
| 7. Fax Auto Redial: | Up to 5 times |
| 8. Telephone Auto Redial: | Up to 14 times |
| 9. Scanning Density: | Horizontal: 8 pels/mm (203 pels/inch)
Vertical: 3.85 lines/mm (98 lines/inch) —Standard mode
7.7 lines/mm (196 lines/inch) —Fine/Halftone mode
15.4 lines/mm (392 lines/inch) —Superfine mode |
| 10. Halftone Level: | 64-level |
| 11. Scanner Type: | CCD image sensor |
| 12. Printer Type: | Thermal printing |
| 13. Data Compression System: | Modified Huffman (MH), Modified READ (MR) |
| 14. Modem Speed: | 14400/12000/9600/7200/4800/2400 bps; Automatic Fallback |
| 15. Operating Environment: | 5–35 °C (41–95 °F), 20–80 % RH (Relative Humidity) |
| 16. Power Supply: | 120 V AC, 60 Hz (This unit will not function at 50 Hz.) |

*Transmission speed depends upon the contents of the pages, resolution, telephone line conditions and capability of receiving unit.

** 9 second speed based upon the CCITT No. 1 Test Chart on the condition that memory transmission is performed.

***15 second speed based upon the CCITT No.1 Test Chart.

ITU-T No.1 Test Chart



Note:

- Any details given in these instructions are subject to change without notice.
- The pictures and illustrations in these instructions may vary slightly from the actual product.

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

**Panasonic Sales Company,
Division of Matsushita Electric of
Puerto Rico, Inc. ("PSC")**
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park, Carolina,
Puerto Rico 00985