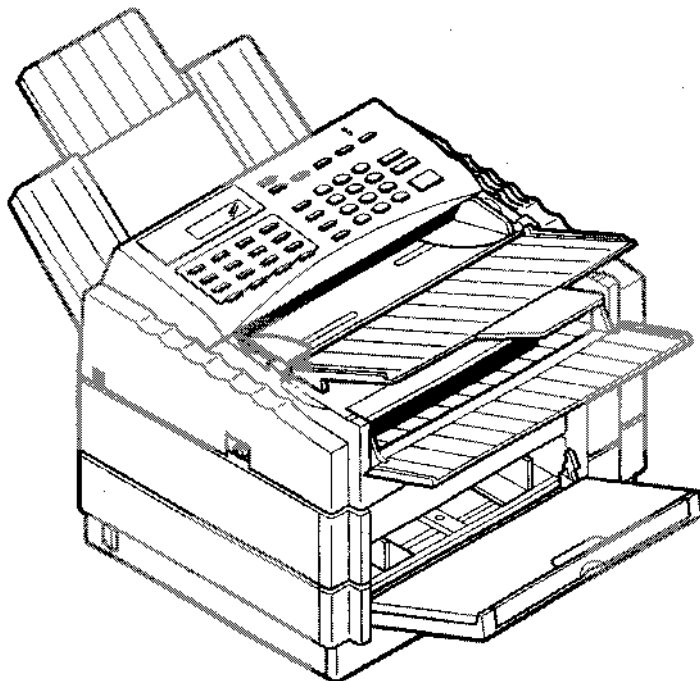# MINOLTAFAX
1800

Operator's Manual

MINOLTA

For U.S.A./Canada Users

As an Energy Star Partner, MINOLTA has determined that this machine meets the Energy Star Guidelines for Energy Efficiency.
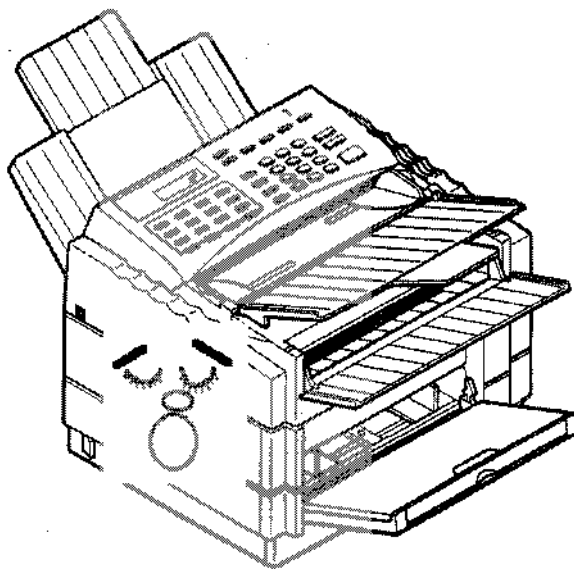
EPA POLLUTION PREVENTER

For Users In Oher Countries

This machine meets the *EPA's Energy Star Guidelines for Energy Efficiency.
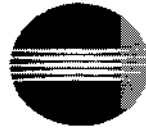*The U.S. Environmental Protection Agency

Z Z
Z Z
ZZ

What is an Energy Star Machine ?

Energy Star Machines have a feature that allows them to automatically turn off or "go to sleep" after a period of inactivity, ensuring night and weekend shut off.

MINOLTA

MINOLTAFAX
1800

This manual explains the functions and operation of the MINOLTAFAX 1800 machine. It also gives some troubleshooting tips as well as general precautions to be observed when operating this Fax machine. To ensure the best performance and effective use of your Fax machine, please read this manual carefully from cover to cover. After you have read through the manual , keep it near your Fax machine for handy reference. It should help in solving any operational questions you may have.

Please follow the instructions given in this manual when handling your Fax machine and do not touch any part of the machine which the manual does not cover. NEVER attempt to disassemble or alter the Fax machine.

LASER SAFETY

This FAX contains a page printer which operates by means of a laser. There is no possibility of danger from the laser, provided the FAX is operated according to the instructions in this manual provided.
Since radiation emitted by the laser is completely confined within protective housing, the laser beam cannot escape from the machine during any phase of user operation.

INTERNAL LASER RADIATION (For all Users)

Maximum Radiation power: 5.0×10^{-4} (W)   Wave Length: 770-810 (nm)

This is a Class IIIb Laser Diode Assy. that has an invisible laser beam. The printer head unit is NOT A FIELD SERVICE ITEM.
Therefore, the printer head unit should not be opened under any cirumstances.

For United States Users

Laser Safety

This FAX is certified as a Class 1 Laser product under the U.S.Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Food, Drug and Cosmetic Act of 1990. This means that the FAX does not produce hazardous laser radiation.

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. Compliance is mandatory for products marketed in the United States. The label shown below indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

> **WARNING:** Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

For Users In Other Countries

> **WARNING:** Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

This is a semiconductor laser. The maximum power of the laser diode is $5.0 \times 10_{-4}$ W and the wavelength is 770-810

For Denmark Users

> **ADVARSEL:** Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråing.

Klass 1 laser produkt der opfylder IEC825 sikkerheds kravene.

For Finland, Sweden Users

VAROITUS: Laitteen Käyttäminen muulla kuin tissä käyttöhjeessa mainitulla tavalla saattaa altistaa käyttäjin turvallisuusluokan 1 ylittiville näkymättömille lasersiteiylle.

VARNNING:Om apparaten anvinds på annat sitt in i denna bruksanvisning specificerats, kan anvindaren utsittas för osynlig laserstrålning som överskrider grinsen för laser klass 1.

VARO!:Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömille lasersiteiylle. älä katso siteeseen.

VARNING!:Osynlig laserstråining nir denna del ir öppnad och spirren ir urkopplad. Betrakta ej strålen.

For Norway Users

ADVARSEL:Dersom apparatet brukes på annen måte enn spesifisert I denne bruksanvisning, kan brukeren utsettes for unsynlig laserstråling som overskrider grensen for laser klasse 1.

Dette er en halvleder laser. Maksimal effeckt til laserdiode er 5.0×10^{-4} W og bØlgelengde er 770-810nm.

WARNING LABELS
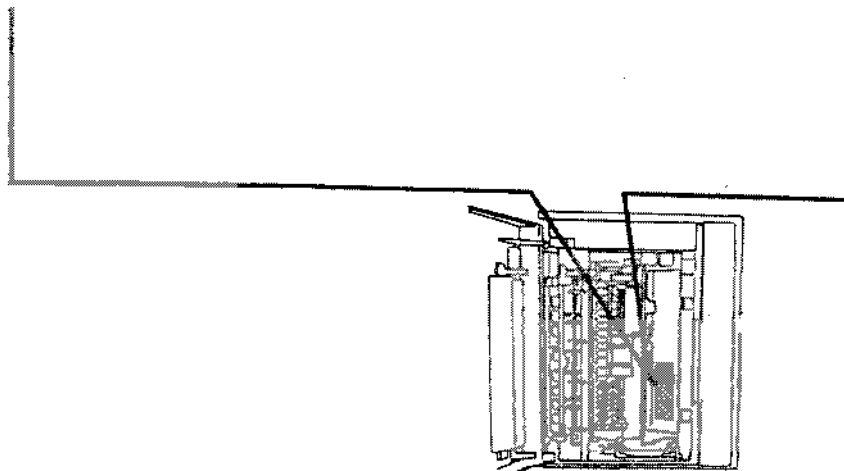
Safety Information

USER INSTRUCTIONS (For U.S.A. Users)

FCC PART 15 - RADIO FREQUENCY DEVICES

WARNING

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 radiates 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, if can be determined by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and the 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.**

This device must be used with shielded interface cables. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under FCC rules.

The design and production of this unit conforms to FCC regulations, and any changes or modifications must be registered with the FCC and are subject to FCC control. Any changes made by the purchaser or user without first contacting the manufacturer will be subject to penalty under FCC regulations.

FCC PART 68 - TELECOMUNICATION DEVICES

This equipment complies with Part 68 of the FCC rules. On the rear panel of this equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. If requested, provide this information to your telephone company.

This equipment uses THE FOLLOWING USOC JACKS : RJ11C.

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

If your telephone equipment causes harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn't practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC.

Your telephone company may make changes to its facilities, equipment, operations, or procedures that could affect the proper operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.

If you experience trouble with this equipment, please contact:

> **Minolta Corporation**
> 101 Williams Drive **Ramsey,**
> New Jersey 07446
> U.S.A

The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. (Contact your state public utility commission or corporation commission for information.)

CUSTOMER INFORMATION FOR PRIVATELY OWNED COIN PHONES

To comply with state tariffs, the telephone company must be given notification prior to connection.

In some states, prior approval of connection must be obtained from the state Public Utility Commisssion, Public Service Commission or state Corporation Commission.

WARNING FOR THE SETTING OF HEADER AND FOOTER

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual.

In order to program this information into your fax machine, you should complete the following steps.(Refer to Chapter 3 Advance Operation page 3-16 an 3-17.)

Safety Information

USER INSTRUCTIONS (For Canada Users)

INTERFERENCE-CAUSING EQUIPMENT STANDARD (ICES-003 ISSUE 2) WARNING

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

IC CS-03-TELECOMUNICATION DEVICE
NOTICE:
Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. IC does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION:
Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of maximum number of terminals allowed to be connected to telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that sum of the Ringer Equivalence Number of all the devices does not exceed 5.

If you experience trouble with this equipment, please contact:
> Minolta Business Equipment (Canada), Ltd.
> 369 Britannia Road East
> Mississauga, Ontario L4Z 2H5
> Tel: 905- 890- 6600

HEARING AID-COMPATIBILITY (For U.S.A / Canada Users)

This equipment complies with the FCC/IC guide lines for hearing aid-compatibility.

Safety Information

USER INSTRUCTIONS (For U.K. Users)

These facsimiles are approved for connection to the British Telecom public switched telecommunication systems in accordance with the British telecommunication Act of 1984. The usage should be subject to the conditions set out in these instructions. Any other usage will **INVALIDATE** this approval.

1. The approval of this facsimile for connection to the public switched telephone network (PSTN) is invalidated if the facsimile is subject used with or connected to:
   (i)internal software that has not been formally accepted by BABT
   or (ii) external control software or external control apparatus which causes the operation of the facsimiles to contravene BABT requirement.

2. This facsimile is approved for the use of the following facilities:
   Tone Dialing (DTMF).
   Automatic Clearing.
   Automatic answering (Facsimile with auto answer to ITU-T T.30).
   Last Number Redial
   Automatic call initiation.
   Automatic dialling facilities.
   Automatic multiple repeat dial attempts.
   Series connection for 'Off Hook' detection.
   Memory dialing.
   Any other usage will **INVALIDATE** the approval of the apparatus if as a result it then ceases to conform to the standard against which approval was granted.

3. This facsimile is suitable for connection to exchange lines on PSTN directly or via a compatible private branch exchange.

4. It cannot be guaranteed that the facsimile will operate under all possible conditions of connection to compatible PBXs. Any cases of difficulty should be referred in the first instance to the supplier of the apparatus.

5. Connection to PSTN must not be hardwired.
   The connection to PSTN must be disconnected before the mains plug is removed.

6. The facsimile may be used on PSTN employing Loop disconnect or MF. However, please note as follows:
   Although the facsimile can use either Loop disconnect or DTMF signaling, on the performance of the DTMF signaling is subject to regulatory requirements for correct operation. It is therefore strongly recommended that the facsimile is set to use DTMF signaling for access to public or private emergency services if it is used with hand-set. DTMF signaling also provides faster call set up.

7. Ringer Equivalent Number (REN) for the facsimile is 1.
   The REN relates to the performance of the facsimile when used in parallel with other items of terminal equipment.
   The REN is a customer guide indicating approximately the maximum number of equipment that should be connected in parallel simultaneously to the line.
   To determine the maximum number of items of items of items that can be connected in parallel simultaneously to an exclusive line, please add the REN values of each item connected to the exclusive line. The sum should not exceed the maximum REN value of 4. For the purposes of the calculation, the REN of a terminal equipment rented or brought from BT plc. should be assumed to be REN of 1.0 unless otherwise specified.

8. When other telephone apparatus is connected in parallel with the facsimile, it must be set on Tone dialing (DTMF) mode only.
   The handset shown in this manual is not available in U.K.. Therefore the details about the hand-set are not applicable.

9. When connecting a telephone onto the same line or PBX extension as this facsimile, the serial socket on the LJU unit (on the unit cord) must be used.

10. Please be advised that should another telephone device be used connected to the PSTN via the serial socket on the LJU unit, then problems may be experienced in the following ways.
    (1) Difficulty making calls.
    (2) Problems in telephone conversation sometimes experienced by both parties. Should difficulties as described above be experienced then the supplier of the facsimile should be contacted for assistance and not the network operator.

11. The facsimile is not suitable as an extension to a pay phone or as a 1+1 carrier system.

12. To this machine on a private exchange (PABX) extension, insert a pause or pauses in the autodial sequence to allow your PABX unit time to connect with the public service telephone network (an outside line) before dialling continues. For example you may require a sequence of 9 "PAUSE." 0908 214315 to transmit a fax message to our Keynes Office.
    To insert pause, press key "PAUSE." One key operation causes a pause of 4 seconds in the dialling sequence.

13. Use of the facsimile to make overseas fax transmissions, it may be necessary to insert a pause in the autodial sequence when sending transmissions overseas in order that the international exchanges have time to interconnect. For example you may require a sequence of 010 "PAUSE" 1555677899 to transmit a fax message to your New York office.
    To insert a pause, press key "PAUSE." One key operation causes a pause of 4 seconds in the dialling sequence.

MAIN PLUG WIRING INSTRUCTIONS

This equipment is fitted with a moulded type main plug since it incorporates a detachable fuse cover; under no circumstances should the plug be used without the fuse cover fitted. In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the main plug and fit an appropriate type observing the wiring code below.

DANGER: The fuse from the cut-off plug should be removed and the plug should be disposed of in a safe manner. Under no circumstances should the cut-off plug be inserted into a socket outlet as a serious electrical shock may occur. If you are not sure how to do this, get help from a qualified electrician.

Safety Information

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW: Earth

BLUE: Neutral

BROWN: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured makings identifying the terminals in your plug, proceed as follows. The wire which is coloured **GREEN-AND-YELLOW** must be connected to the terminal in the plug which is marked by the letter **E**, or by the safety earth symbol , or coloured green or green and yellow.

The wire which coloured **BLUE** must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter L or coloured red.

This apparatus must be protected by a 13A fuse in the mains plug or distribution boad.

"WARNING: THIS EQUIPMENT MUST BE EARTHED"
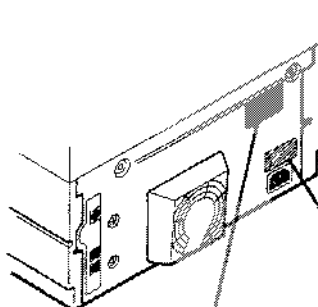
USER INSTRUCTION (For New Zealand)

Warnings

• Immediately disconnect the equipment should it become physically damaged, and arrange for its disposal or repair before reconnecting.

• Disconnect the Telecom Network connection before disconnecting the Power connection prior to relocating the equipment, and reconnect the Power first.

• This equipment may not necessarily provide for the effective hand-over of a call to or from a telephone connected to the same line.

• The operation of this equipment on the same line as telephones or other equipment with audible warning devices or automatic ring detectors will give rise to bell tinkle or noise and may cause false tripping of the ring detector. Should such problems occur, the user is not to contact Telecom Faults Service.

• Not all Standard telephones will respond to incoming ringing when connected to the extension socket at the rear of the equipment.

• As there is no audio monitoring of dialling or calling procedures, please double check that you are dialling a valid fax number, especially in the event of no response to redials.
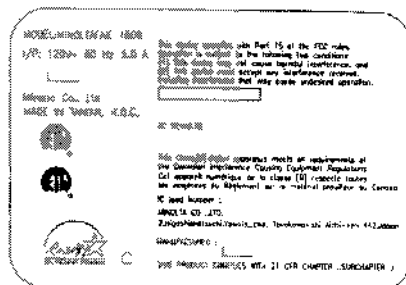
OZONE RELEASE (For all Users)

During printer operation, a small quantity of ozone is released. This amount is not large enough to harm being adversely. However, be sure the room where the FAX is being used has adequate ventilation, especialy if you are printing a high volume of materials, or if the FAX is being used continuously over a long period.
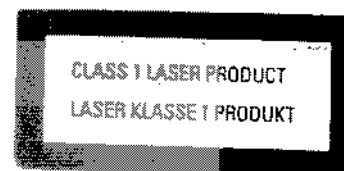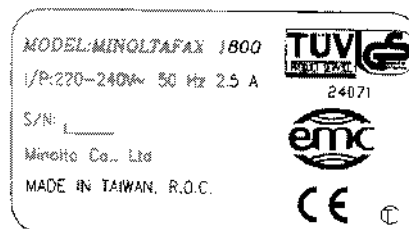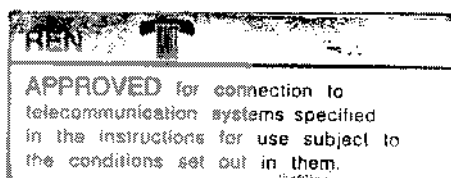
Safety Information

WARNING LABELS

For U.S.A. / Canada Users

For Europe Users

MODEL:MINOLTAFAX 1800
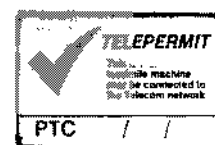
I/P:220-240V~ 50 Hz 2.5 A

S/N: L_____

Minolta Co., Ltd

MADE IN TAIWAN, R.O.C.

24071

CLASS 1 LASER PRODUCT

LASER KLASSE 1 PRODUKT

For U.K. Users

REN

APPROVED for connection to
telecommunication systems specified
in the instructions for use subject to
the conditions set out in them.

For German Users

B
Z
T
A120
638F

For Australia Users

Axx/xxXX

For New Zealand Users

TELEPERMIT

PTC   /   /

Getting acquainted with your plain paper facsimile

Your new plain paper facsimile is a compact size multifunctional and multi-tasking peripheral designed for improving your work efficiency and condensing your fax transaction traffic. With its powerful multi-tasking ability, the unit is able to scan documents into memory for later transmission while it is receiving a fax, and vice versa.

Machine type

- A4 size, G3, desktop laser plain paper facsimile
- High speed 14400 bps transaction
- MH/MR/MMR ECM coding
- 20 pages automatic document feeder
- 150 sheets of cut-sheet plain paper printing
- 16 digits x 2 LCD display
- 16-level gray scale

Dialing function

- 16 one-touch dialing (12 single-location, 4 group dialing)
- 50 abbreviated speed dialing
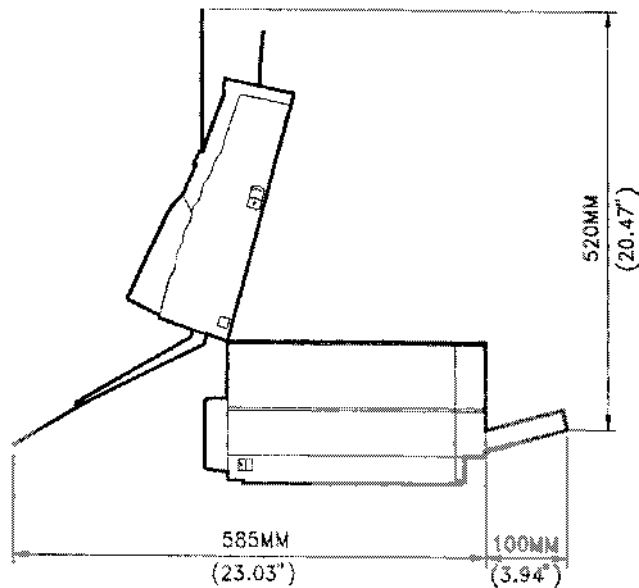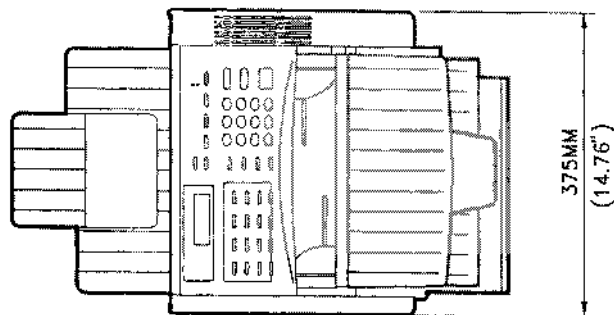- Auto redialing/on-hook dialing/group dialing

Effective function

- Sequential broadcasting
- 24 hours delay transmission
- Page memory (basic model 256K Bytes; optional memory 512K Bytes, 1M Bytes)
- Multi-tasking operation interface
- Bulletin board
- Copier functionality

Giving Your Fax Machine Enough Room

Allow the fax adequate space on all sides as shown in the illustration to ensure reliable operation and ready access.

> You need this much space so you can get at the fax easily to replace consumables, refill the paper cassette, clear paper jams, etc.

375MM (14.76")

520MM (20.47")

585MM (23.03")

100MM (3.94")

Table of Contents

3. Advanced Operation

4. Maintenance

5. Troubleshooting

Appendix: Specifications

1.1 Major Parts Names and Functions

Output tray extender

LCD

Document guide

Telephone terminal

Top cover latch

Document output tray

Operation panel

Document input tray

Print paper tray

Cassette

Power socket

Fan

RS-232C interface connector

Telephone terminal

Line terminal

Imaging cartridge

Cassette cover

Cassette extender

Cassette base

Paper guide

Power switch

The Imaging Cartridge

In a laser fax, characters and images are created through a process that applies toner to the page in the machine's developing section. The toner used in this operation is supplied from the "heart" of the box, the Imaging Cartridge.

The Imaging Cartridge should be handled with care to ensure proper performance when it is installed in the box. Be sure to avoid placing the cartridge in direct sunlight, or exposing it to direct light of any kind. Store the cartridge in an environment that is not subject to extreme heat or humidity. Detailed information on the care and handling of the Imaging Cartridge is provided on the packing box.

The Imaging Cartridge should be replaced every 4,500 pages (when black-to-white ratio on the print is 5% or less). Replacement instructions are given in the Maintenance chapter.

The Imaging Cartridge is made from non-hazardous material, and may be disposed of freely. Consult the regulations for the disposal of such products in your area.

> Note: To avoid damage to the Imaging Cartridge, cover it with a cloth
> as soon as you remove it from the fax.

1.2 Setting Up

To set up your fax follow these procedures.

1.2.1 Open the Top Cover

(1) Pull the latch on the top cover.
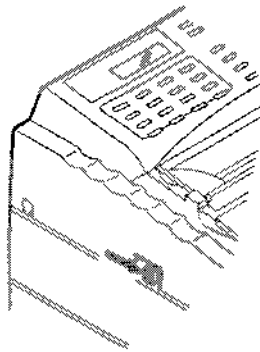
(2) Raise the cover until it is fully open.
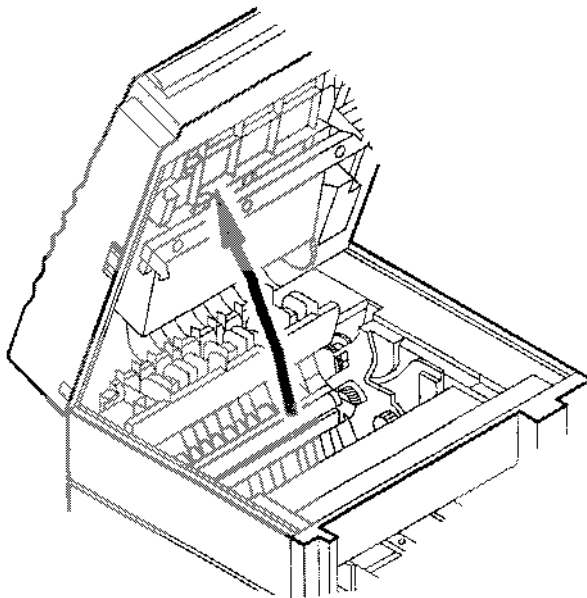
1.2.2 Installing the Imaging Cartridge

(1) Before using, rock the imaging cartridge back and forth about ten times and up and down about ten times. See the figure shown on the left-hand side.
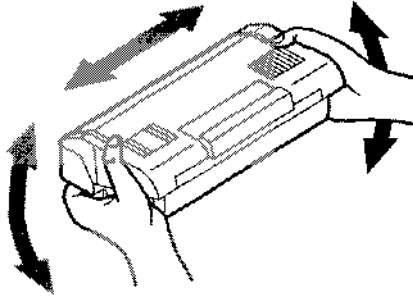
(2) Pull out the toner seal tape.
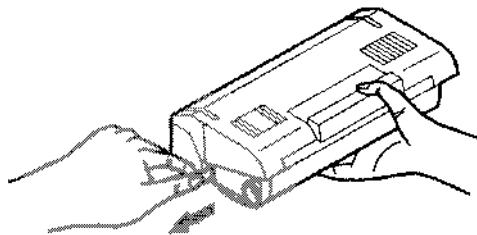
1.2.3. Installing the Imaging Cartridge in the Fax

Insert the imaging cartridge using the imaging cartridge guides inside the fax to seat it properly.
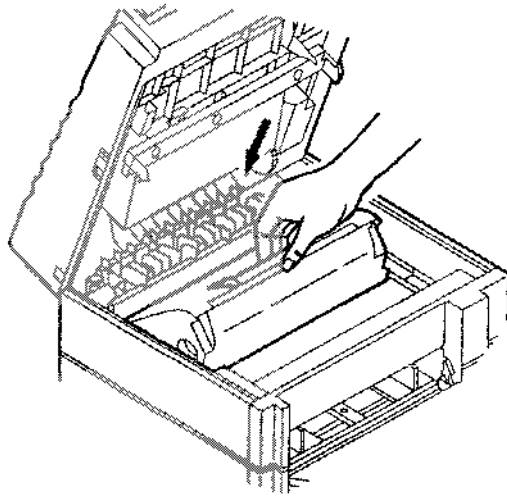
1.2.4 Closing the Top Cover

Gently lower the top cover until it is down, then press on it firmly with both hands until it clicks shut.
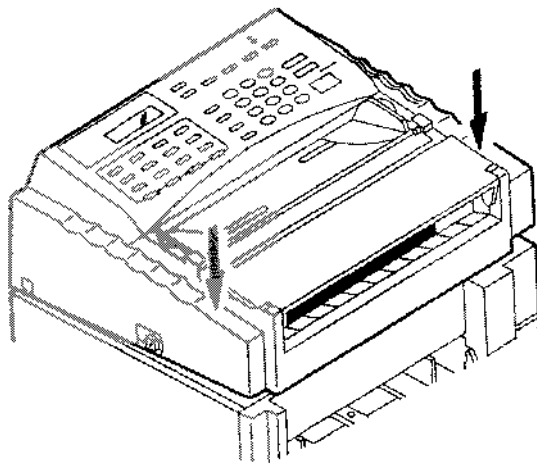
1.2.5 Load Paper
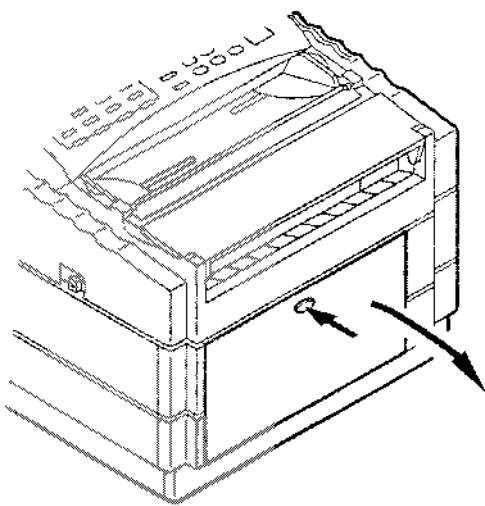
(1) Push the cassette.

(2) Open the cassette.

(3) Open the cassette cover.

(4) Pull out the cassette extender.

(5) Load paper into the paper tray.

(6) Adjust the cassette extender to fit the paper length.
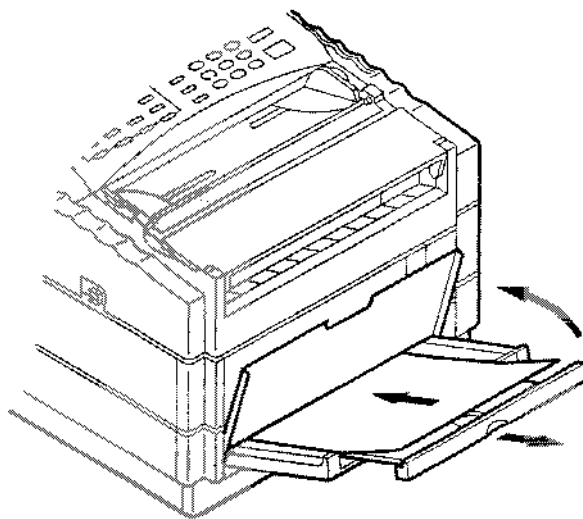
1.2.6 Open the Paper Exit Tray, Print Paper Tray and Document Output Tray
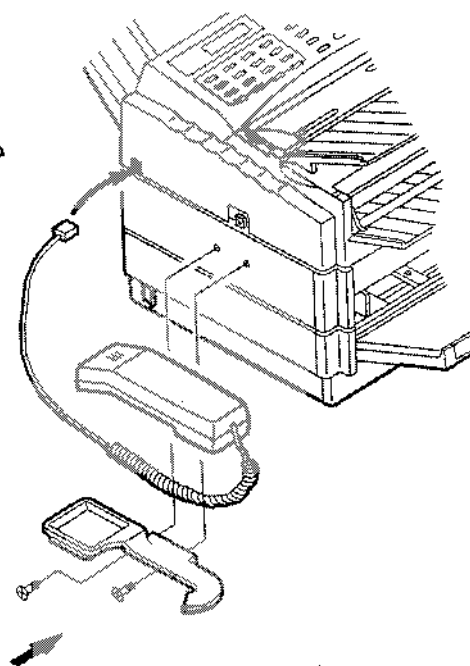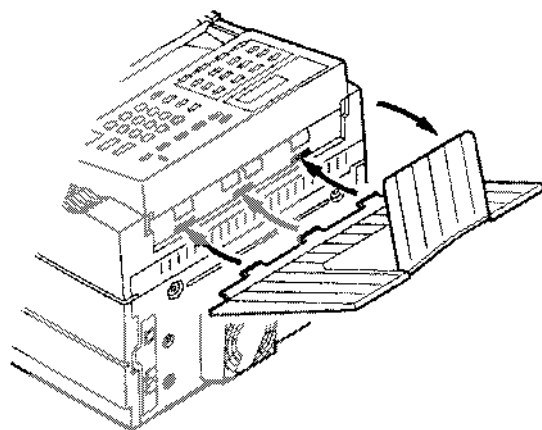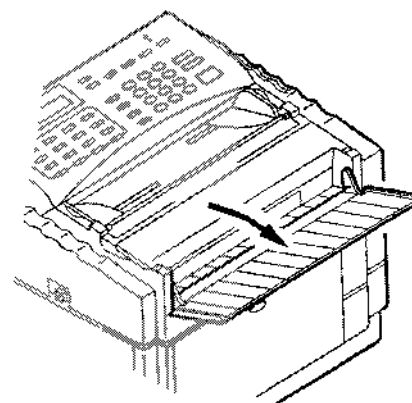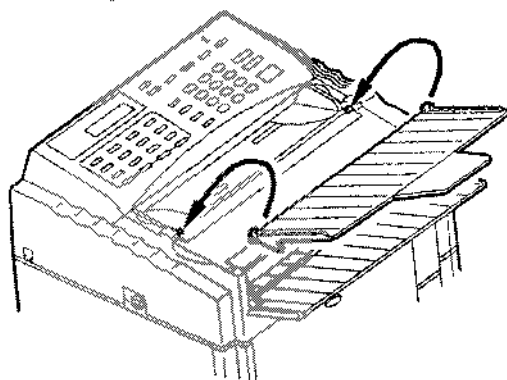
(Optional)

1.2.7 Attach the Power Cord and Telephone Line Cable
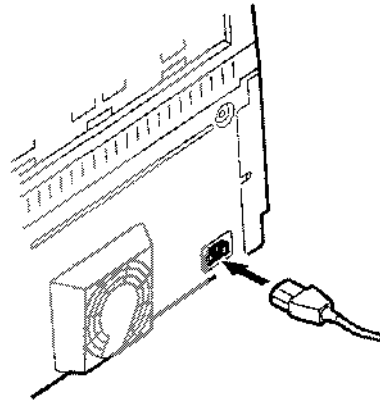
(1) Make sure the power switch is in the off position, then insert the end of the power cord into the facsimile.
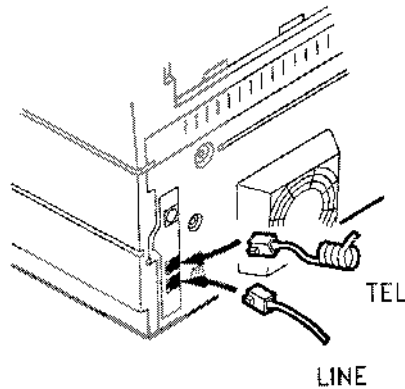
(2) Connect the telephone line cable on the back of the facsimile.

TEL

LINE

1.2.8 Attach the Peripheral Cable
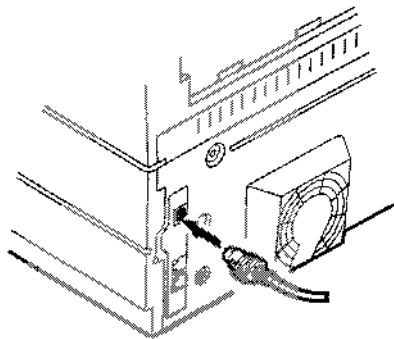
Insert the PC Fax RS-232C cable into the appropriate connector on the back of the fax.

1.2.9 Power On

(1) Turn on the power switch.
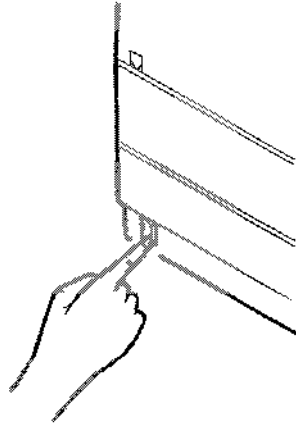
Caution: *Allow at least three seconds after turning the power switch on or off before pressing it again.*

(2) Once the power is ON, you will go into the stand-by mode as follows:

```
10/10    08:00 M100
[FAX]
```

1.3 Loading Paper

1.3.1 Loading the Recording Paper

This fax provides one standard means of supplying paper to the fax. Various types and sizes of paper may be fed into the unit from the multi paper tray.

The fax is capable of printing on standard paper between 60-90 g/m² (16-24 lbs.). The multi paper tray can be used to feed up to 150 sheets of the following paper sizes: A4, Letter and Legal.

For the advanced mode, the multi paper tray can also be used to print on special types of paper. These include thick paper (90-157 g/m² 24-41 lbs.), letterhead paper, OHP transparencies, labels and envelopes.

If you are printing on a special type of paper, be sure to indicate specifically via your personal computer the area of the page to be used for printing. There may be some variation in the quality of printing obtained when using types of paper outside the normal limits of the specifications. Because there is a great deal of variation in the paper quality of envelopes, we suggest that you make print samples on various types of paper before purchasing any in quantity with the intent to print on them with the fax.

The conditions in which paper is stored may affect print quality. Store paper in its original packaging. Do not store paper in rooms where the humidity or temperature may be very high or very low.

1.3.2 Loading the Multi Paper Tray

Follow the instructions below to load the multi paper tray. Up to 150 sheets of standard paper can be inserted into the tray. Special types of paper other than envelopes should be inserted into the tray one sheet at a time. Details of paper sizes and types which may be used are given in the proceeding section.
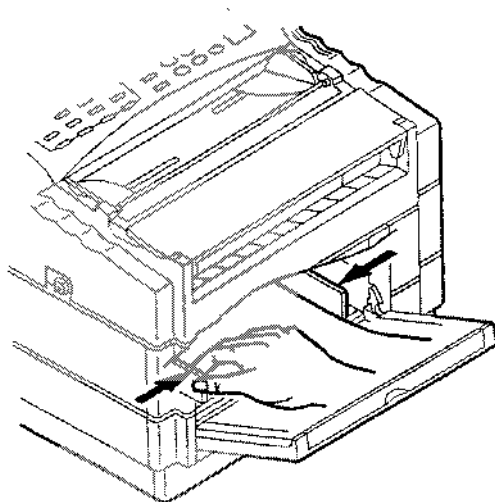
Fan the paper throughly, align the edges of the sheets, and load the stack of paper into the tray. Adjust the paper guides to fit snugly against the edges of the paper.

Notes: 1. *The stack of paper should extend no higher than the mark on the inside of the paper guides.*
2. *Do not load additional paper until all the sheets in the tray have been fed through the fax.*

LCD
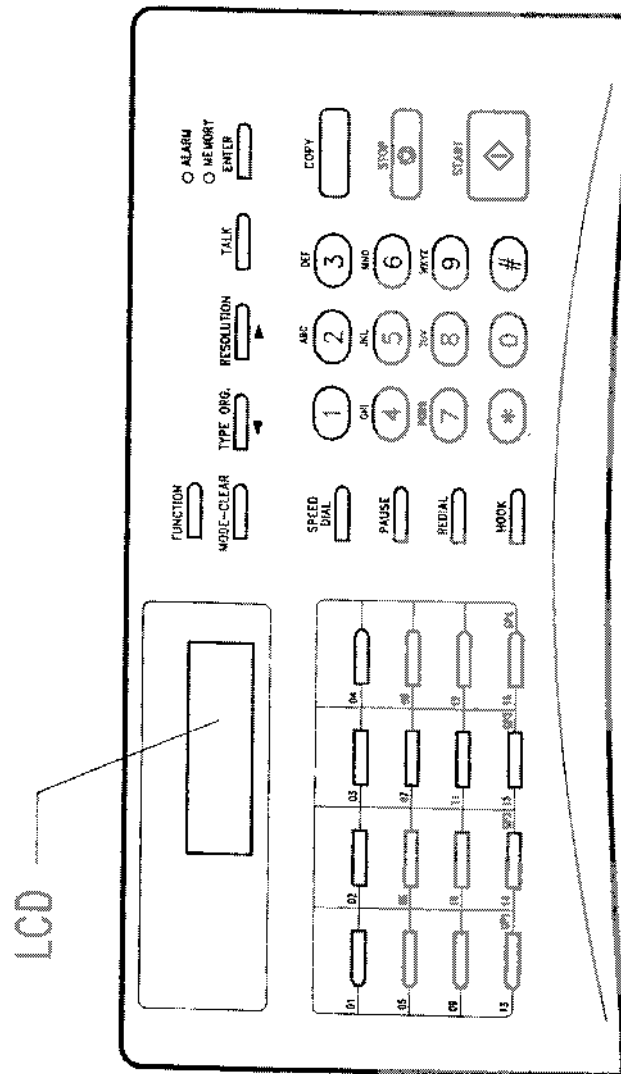
1. LCD DISPLAY
Shows system status and provides various instructions of operation.

2. ONE-TOUCH Key
Press these keys to start one-touch or group transmission.

3. FUNCTION Key
This key is used to access various features of the machine such as setting the communication parameters, setting the clock, and storing the abbreviated facsimile/telephone numbers.

4. MODE-CLEAR Key
(A) Selects the operation mode at the stand-by state as shown below:

```
┌─────────────────┐   ┌─────────────────┐   ┌─────────────────┐
│ 01-16 12:00 M100 │→ │ 01-16 12:00 M100 │→ │ 01-16 12:00 M100 │→
│ [FAX]           │   │ [TEL]           │   │ [TEL/FAX]       │
└─────────────────┘   └─────────────────┘   └─────────────────┘

                      ┌─────────────────┐   ┌─────────────────┐
←─────────────────────│ 01-16 12:00 M100 │← │ 01-16 12:00 M100 │←
                      │ [TAD]           │   │ [POLL TX]       │
                      └─────────────────┘   └─────────────────┘
```
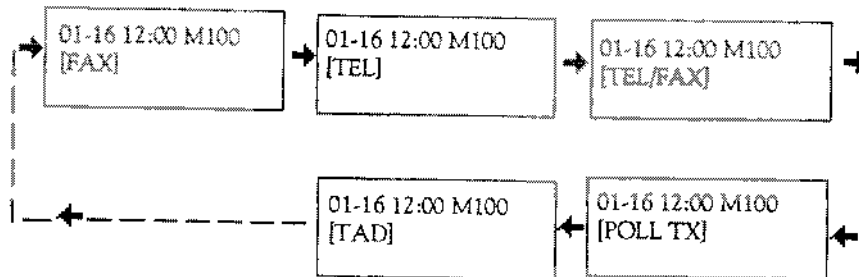
[FAX]: Auto receive mode
[TEL]: Manual receive mode
[TEL/FAX]: Alarm with dummy rings before receiving fax.
[POLL TX]: Transmit document from the feeder upon calling side request.
[TAD]: Connect to the external answering machine device.

(B) Clears data record or current data at the function mode.

5. SPEED DIAL Key
Used to access the two-digit auto dialing function for the programmed Speed Dial number.

6. PAUSE Key
Generates a dialing pause useful when dialing through some telephone exchanges or when calling overseas. Entering a pause within digits delays 2.5 seconds and after digits delays 10 seconds. 40 digits ("P" included) is maximum for dialing any telephone.

7. REDIAL Key
Press this key to redial the last telephone number you dialed with direct dial.

8. TYPE ORG. Key
(1) Moves cursor left one position during data entry or scroll down the function selection.
(2) Before transmission or copy, use this key to choose the contrast setting needed for the type of original that will be transmitted. You can select NORMAL, LIGHT or DARK based on the density of your original document.

Chapter 1: Getting Started

1-13

10. RESOLUTION Key
(1) Moves cursor right one position during data entry or scroll the function selection.
(2) Selects proper printout resolution as STD, FINE, EX.FINE or PHOTO.
    STD: standard mode
    FINE: fine mode
    PHOTO: half-tone mode
    EX.FINE: extra fine mode

11. TALK Key
Press this key to talk with the remote fax operator via the same line after data transmission.

12. COPY Key
Press this key to start copying the documents placed on the document guide.

13. START Key
Starts machine operation like transmission, reception or list printouts.

14. ENTER Key
Sets current function option.

15. STOP Key
Manually terminates transmission, reception, copying and all other operations.

17. ALARM LED
Indicates error. Refer to Chapter 5 Troubleshooting.

18. MEMORY LED
This LED will stay ON during receiving active memory file and will blink during communication.

1.5 Preparing Your Facsimile

Before using your facsimile, please setup the following items.

1.5.1 Select Operation Mode

Press MODE key to select operation mode. Select [FAX] option if your machine works as an automatic receiver machine. Otherwise, you can set it to the manual receiver mode.

1.5.2 Set Correct Date & Time

Your fax can print out a transmit report carrying the transmission date and time, your company name and fax number for identification. Refer to Chapter 3, 3.12 Program User Data.

1.5.3 Set Correct Dialing Type (TONE/PULSE)

Select either TONE or PULSE, depending on the types of telephone line connected to your fax. Refer to Chapter 3, 3.13 Dial Type.

1.5.4 Set Your Line Type (PSTN/PBX)

If your fax line is connected to the public switch telephone network (PSTN), you can select "PSTN". Otherwise, select "PBX". Refer to Chapter 3, 3.13 Dial Type.

Note: In PBX system, you have to dial a prefix number (e.g. "0") to get the outside line for dialing out. If you set the line type to "PBX", you can set the pre-fix number in advance, then the unit will dial the pre-fix number for you every time you dial telephone number.

1.5.5 Store Your Fax Number

You can store the fax number used frequently under One-Touch key or Speed Dial key. Refer to Chapter 3, 3.10 Program Telephone Number.

2.1 Sending

2.1.1 Recommended Document Sizes

The document sizes that can be transmitted by your new plain paper facsimile machine are as follows:

	Minimum	Maximum
Length	110mm (4.33")	1000 mm (39.37")
Width	148 mm (5.83")	280 mm (10.98")
Thickness	0.05 mm (0.0019")	0.13 mm (0.0051" for single page)
		0.06-0.10 mm (0.0024"-0.0039" for multiple page)

If document size longer than 1000 mm(39.37") is detected, an assumption of a document jam will occur.

Up to 20 sheets of documents can be set into the document guide a time.

Improper Document

Make a photocopy of the document with the copying machine and transmit the copy if the original is :

(1) Torn, wrinkled, or curled paper
(2) Coated paper
(3) Thin paper (like transparent paper)
(4) Film copies of document
(5) Thicker than a postcard
(6) Cloth

2.1.2 Placing the Document on the Document Guide

1. Place the original documents face down on the document guide.
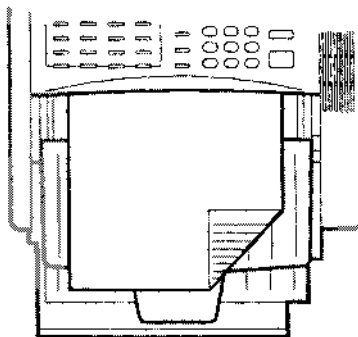
2. Place the documents on the center of the document guide, by placing the document guide to the width of documents.
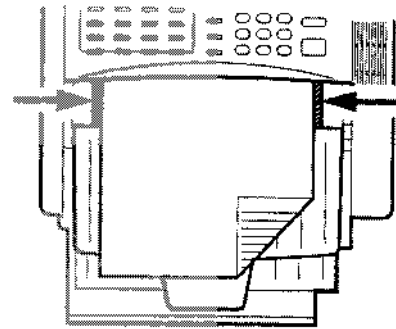
3. Your fax will hold up to 20 sheets of documents at a time. Be sure to load them neatly before transmission.

2.1.3 Quality Choice

This option is not necessary for a standard typed or printed document. However, to assure good-quality transmission, you can press buttons " TYPE ORIG." and "RESOLUTION".

The TYPE ORG. key has three options as follows:
Normal: original documents are normal print.
Light: original documents are light print.
Dark: original documents are dark print.

The Resolution key has four options as follows:
STD: normal resolution for the standard size character (e.g. typed document)
Fine: higher resolution for the small size character (e.g. newspaper)
Photo: suitable for gray scale image as a photograph
Ex. Fine: highest resolution 200 dpi (horizontal) x 400 dpi (vertical) for image data

Note: " Ex. Fine" and "Photo" options will increase the transmission time and the cost of communication.

2.1.4 Dialing Method

You can use the following four methods to dial a remote facsimile number from your machine:

Keypad Dialing

Dial the full number of the remote facsimile, using the numeric keypad. You can also use arrow key to edit the telephone number (Maxmum 40 digits of telephone number are allowed, including "P" (PAUSE)).

One-Touch Dialing

Press **ONE-TOUCH** key (01-16). If the one-touch dialing number has already been registered, it will be blinking on the display and the machine will dial the number automatically after scanning documents. Refer to *Chapter 3 Advanced Operation* for detailed information.

Group Dialing

Press **ONE-TOUCH** key (12-16). If a telephone number has been registered in the key you press, the group name will be displayed on the LCD panel and the fax machine will dial the number automatically after scanning document.

Speed Dialing

Press **SPEED DIAL** key and enter two numeric keys (01-50). The speed dial number will be shown on the display. Press **ENTER** key and the machine will dial the number automatically after scanning the documents.

2.1.5 Basic Principle of Operation

If you have to operate the fax machine but it is in the receiving or transmitting status, you can switch current state to your entry any time, which will not interfere with the ongoing task. See the following example:

Your machine is receiving data:

```
┌─────────────────────┐
│ RECEIVING           │
│ ECM   SP   P:01     │
│          │          │
└─────────────────────┘
           └── speed
```
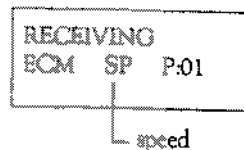
Now if you want to copy a document, you can place the document on the document tray. After loading the paper, the display will change to:

```
┌─────────────────────┐
│ NORMAL  STD         │
│ SELECT  LOC/COPY    │
└─────────────────────┘
```

After scanning, this machine will switch to previous display as follows:

```
┌─────────────────────┐
│ RECEIVING           │
│ ECM   SP   P:01     │
└─────────────────────┘
```
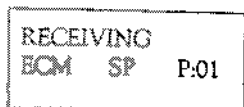
In the standby mode, press the following key to perform different function:

- Press COPY key to copy documents.
- Press FUNCTION key to enter the function mode (see *Chapter 3 Advanced Operation*).
- Pick up your phone and dial the number on the machine's keypad or your telephone set to perform the manual transmission or reception.
- Press HOOK key and dial the number on the machine's keypad to perform the manual transmission or reception.
- To perform the memory transmission, you can press:
  (1) any Numeric key (0-9) and START key
  (2) REDIAL key
  (3) SPEED DIAL key and two Numeric keys
  (4) ONE-TOUCH key

2.1.6 Sending Documents

Sending Documents from Memory

Since your fax machine has multifunctional capabilities, you can scan documents into memory for sending even if your machine is in the process of sending data from memory, receiving data from a remote fax or printing a file. As soon as current operation is completed, the document stored in the machine's memory can be sent out.

Procedures

1. Place the documents face down on the document guide.

2. Select type original & resolution (if necessary).

3. Dial the fax number.

```
TEL=123
PRESS START
```

4. Press START key to read document into memory.

```
MEMORY TX
SCANNING    Mxx
```
⇨ % of free memory available

5. The fax machine will assign this document with three-digit session number for you to trace the result later in the activity report.

```
MEMORY TX
SESSION  NO=XXX
```
⇨ your session number

6. The fax machine can print out memory entry report for your verification. Refer to *Programming User Switch* for detailed information.

If memory is full during scanning document, the scanned document will be removed from memory. Therefore, you need to wait until memory is available to store all documents you wish to send. Otherwise, you can use manual transmission with the telephone handset or on-hook dialing to transmit your document.

```
***************************
* MEMORY ENTRY REPORT *
***************************
```

NAME:xxx
TEL=xxx
DATE:

NO	SESS	START TIME	TYPE	LOCATION	PAGE
1	002	1-15 12:00	..	123	xx

- session number
- location sequence
- transmission type
- location

Sending Documents from the Feeder

If the memory is not enough to scan all documents you want to send, please send documents directly from the feeder. The following shows you the operation procedures.

Procedures

1. Place the documents on the document guide.

2. Select type original & resolution (if necessary).

3. Press **FUNCTION** key and use arrow key to select "Direct Send" and press **ENTER** key.

```
DIRECT SEND
SELECT LOCATION
```

4. Dial the fax number and press **START** key.

```
TEL=xxx
PRESS START
```

5. If your dialing fails, next dialing time will appear on the display and the machine will wait for a few minutes to dial again.

```
DIRECT SEND
DIAL TIME=00:00  ──── next dialing time
```
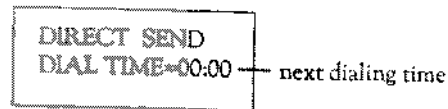
Manual Dialing and Transmitting Documents from the Feeder

If the memory is not enough or you need to talk to the receiving party before transmission, you can use this function. The documents will be sent without being stored in memory.

Procedures:

1. Place the documents on the document guide.

2. Select type original & resolution (if necessary).

3. Pick up phone and dial the fax number using handset to dial.(Can also press HOOK key and dial number using 10-keypad.

4. Wait for fax tone generated from the receiver side.

5. Press START key to start transmission.

6. Replace handset on cradle. (hang up)

On-Hook Dialing and Transmitting Documents from the Feeeder

Procedures

1. Place the documents on the document guide.

2. Select type original & resolution (if necessary).

3. Press HOOK key on the machine's keypad and the LCD will display the following message:

```
OFF HOOK
ENTER TEL NO.
```

4. Dial the telephone number on the machine's keypad ad press START key.

```
TEL= 123
PRESS START
```
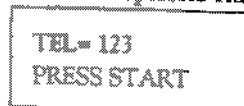
5. If you don't press START key, the number will not be dialed.

Conversation after Communication

This sequence is available when you wish to have a telephone conversation with the other party after transmission.

Procedures

1. Press **TALK** key after or before communication.

2. After the data transmission is completed, an intermittent alarm sounds and an instruction will be shown on the display.

```
PICK UP PHONE
PRESS TALK KEY
```

3. Pick up the handset.

4. Press **TALK** key before the sound is gone.

5. Talk to the remote operator.

Transmission Report

When you have your documents transmitted to the remote machine successfully, your fax can print out a transmit report with the transmission date and time, your identification, the identification of the receiving machine, the number of pages you sent, and the results of your transmission. Refer to *Chapter 3, 3.11 Program User Soft Switch*.

Example: **Confirmation Report**

```
****************************************************
* TRANSMIT MESSAGE CONFIRMATION REPORT *
****************************************************
```

NAME:xxx
TEL=xxx
DATE:...

transmitter's fax number   session number

TRANSMIT: xxx			DURATION	PAGE	SESS	RESULT
TYPE:	MODE	E-96	00'00	00	000	OK

transmission type   error   speed   connection time   result
                           correction
                           mode

reduced data only for the 1st page of the memory send documents

Special Function: Batch and Relay Transmission

Batch Transmission

To save telephone bill and ensure reliability and efficiency, you can program your One-Touch keys to automatically batch documents in the same call at the preset time. Refer to *Chapter 3, 3.10.4 Batch Transmission Setting.*

How to use:

1. Set the transmission time into the one-touch key.

2. Place the doucments face down on the document guide.

3. Press ONE-TOUCH key.

4. All doucuments will be transmitted at the pre-set time by one telephone call.

Relay Transmission

Transmit documents to the remote machine and assign the remote machine to send your documents to the location defined in his One-Touch key. Also, this function can assign the fax machine to send back the activity report to the location defined in speed dial location. Refer to *Chapter 3, 3.10.5 Relay Broadcast Initiate Setting.*

Example:


```
***************************
    * BROADCASTING REPORT *
***************************
NAME: xxx
TEL=XXX
DATE:...
```


	total relay location		transmission O.K. location		transmission failure location	

BROADCAST=xx LOCATION	OK	01 LOCATION	FAIL	00 LOCATION	RESULT
TYPE:	SESS	001	PAGE	00	OK

transmission type | session number | total pages | final result
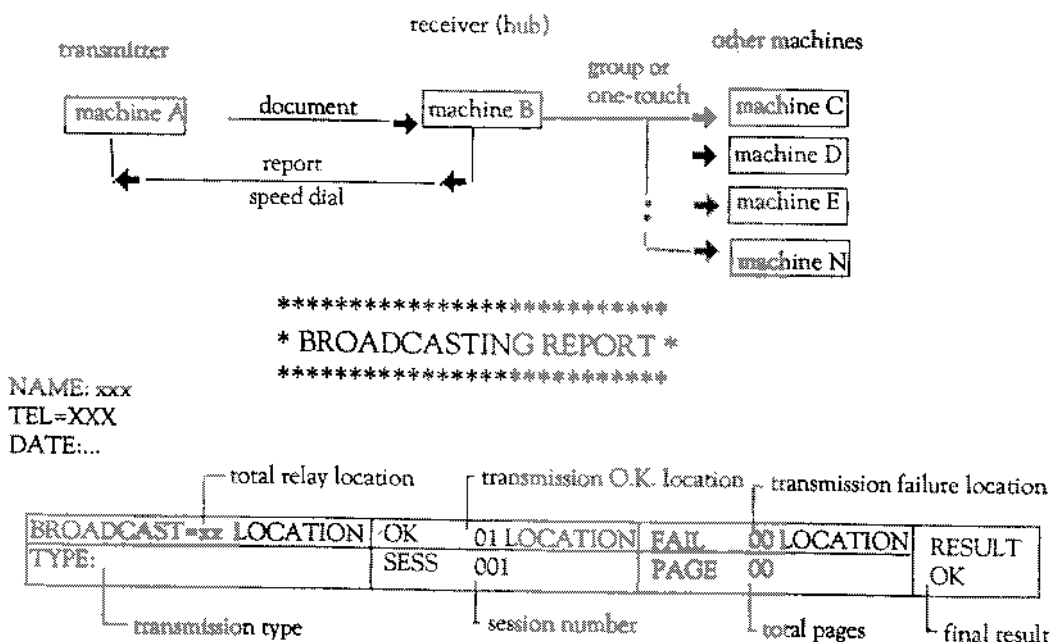
Note: *Machines A and B must be the compatible models with relay broadcast function. Machine C ~ N can be other machines or the same machines.*

2.1.7 Interrupt or Cancel Current Transmission

If you need to interrupt or cancel current transmission file, press STOP key to stop current operation and the fax machine will delay all transmission files stored in memory for 5 minutes then return to the stand-by mode.

Procedures

1. Press STOP key during memory transmission.

```
CANCEL    =0
INTERRUPT = 1
```

2. Enter "1" to postpone current operation and return to stand-by mode.

```
SESSION NO=xxx
PRESS ENTER
```

3. If you enter "0", the LCD will show current transaction session number. Press ENTER to delete the data or press STOP key to quit.

2.1.8 Polling Transmission

This facsimile allows automatic transmission of your stored document by operation of the recipient if this function is set. Before starting operation, you have to prepare documents and set your machine to the [POLL TX] mode.

Operation

1. Press MODE-CLEAR key to select [POLL TX] mode.

2. Place the documents on the document tray.

3. The documents will be transmitted at the request of the remote site.

2.2 Receiving

2.2.1 [TEL] Receiving Mode (Manual Reception)

This option is only available if your telephone set is connected to your machine.

In the manual receiving mode, you can receive data after the conversation is over.

Procedures

1. Lift the handset when your telephone rings and answer the phone.

2. If the call is for a facsimile transmission, press START key to receive the documents and place the the handset on its cradle. Then the machine will start to receive the documents.

   Note: If you hear an intermittent tone after picking up the handset, press START key to start receiving. (In this case, the remote fax must be equipped with the automatic dialing function).

2.2.2 Memory Receiving Mode

If the machine runs out of paper, the received data will be stored in memory and will be printed out automatically once paper sheet has been refilled.

   Note: If the machine runs out of memory, it cannot perform receiving function until memory is released.

2.2.3 Receiving Report Confirmation

After you receive documents successfully, your fax can print out each communication report, including transmission date/time, transmitter's telephone and the number of pages you receive. You can determine whether or not your fax will print this report setting the user switch. Refer to Chapter 3, 3.11 Program User Soft Switch.

Example: (Successful)

```
*******************************************
* RECEIVE MESSAGE CONFIRMATION REPORT *
*******************************************
```

NAME: xxx
TEL=xxx
DATE=...

transmitter's side identification

RECEIVING:xxx				DURATION	PAGE	SESS	RESULT
TYPE :		MODE	E - 96	00'00	00	000	OK

receiving type   error correction   speed   connection   total pages   session   result
                   mode   time   number

Example: (Receiving Failure)

If your fax fails to receive data, "IMAGE RECEIVED ERROR" will appear at the bottom of current page. See the following example.

```
~   ~   ~   ~  ~
~   ~   ~   ~  ~
~   ~   ~   ~  ~
**IMAGE RECEIVED ERROR **
                    └ error indication
```

2.2.4 [TEL/FAX] Receiving Mode

This option allows the machine to monitor the line after connection. The machine will start to receive documents if the sender calls using the fax machine. If not, the machine will alarm or it will receive data as soon as the monitor time is up.

Procedures

1. Set the facsimile machine in [TEL/FAX] mode by pressing MODE-CLEAR key.

2. The fax machine will start to monitor incoming line tone after connection.

3. If the caller is using the fax machine, the fax can start to receive data.

4. If no fax tone is detected after 6 seconds, your fax will generate the simulate ringing tone and the following message will appear on the LCD.

```
PICK UP PHONE
PRESS TALK KEY
```

5. If you hear somebody's voice generated from the monitor speaker, you can pick up phone then press TALK key to talk to the remote side.

2.2.5 [TAD] Mode (Answering Machine Receiving Mode)

This machine can be used along with any model of answering machine and will receive message after a voiced answer.

This fax machine will start receiving data under the following conditions:

1. Answer machine record time is over pre-defined time.

2. Silence time is over pre-defined time interval.

3. Detect DTMF signal (5-9 and "*" programmed).

4. Detect remote fax signal (the calling side must have automatic calling function).

5. The answering machine does not work after pre-defined ringing.

Chapter 3: Advanced Operation

3.1 Key Definition

Key	Definition
TYPE ORIG.	Rotates function backward or moves cursor left one position.
RESOLUTION	Rotates function forward or moves cursor right one position.
START	Starts executing current function.
ENTER	Completes data entry.
STOP	Stops current setting and returns to upper layer.
NUMERIC	Numeric data or function index.
MODE-CLEAR	Deletes current entry data.

3.2 Function Index

1. Broadcast
2. Delay Transmission
3. Direct Send
4. Polling Rx
5. Bulletin Board
6. Memory Files
   a. View File
   b. List File
7. Print Report
   a. Activity Report
   b. One-Touch List
   c. Speed Dial List
   d. Group Dial List
   e. User Data List
8. Program Telephone Number
   a. One-Touch Dial
   b. Speed Dial
   c. Group Dial
   d. Batch Tx
   e. Relay Initiate
9. Program User Switch
   a. Activity Report
   b. Error Report
   c. Transmission Confirmation Message Report
   d. Receiving Confirmation Message Report
   e. Reduction Type
   f. Line Monitor
   g. Header Position
   h. Memory Entry Report
   i. Broadcast Report
   j. Busy Tone
   k. Reception Time/Date
   l. Remote ID Type

*. Program User Data
   a. Your Telephone Number
   b. Your Name
   c. Set Date/Time
0. Dial Type
   a. Tone/Pulse
   b. PSTN/PBX
   c. Redial Time
   d. Redial Interval
#. TAD Setup
   a. Remote Control Code
   b. Record Time (answer machine max. recording time)
   c. Silence Time (to switch line to the auto receive mode)
   d. Ring Counter (to switch to the auto receive if the ring count is over this counter)

3.3 Broadcast

You can use the broadcast function to send the same document to many locations (up to 71 locations) in one session. Your fax will dial and send the document sequentially to each number. If a station is busy or does not answer, the machine will move on to the next number, and then redial the busy number again at the end. When the transmission ends, the multi-station transmit report will print out and the machine will return to stand-by state. Group Dial is more convenient for frequently used phone numbers.

Procedures

1. Place the documents face down on the document guide.

2. Select proper type original & resolution (if necessary).

3. Press **FUNCTION** key.

4. Select "BROADCAST" using the arrow keys or numeric key. Press **ENTER** key.

```
BROADCASTING
SELECT LOCATION
```

5. Dial the fax number using One-Touch, Speed Dialing or Keypad Dialing and press **ENTER** key to set the location.

```
TEL=xxx
PRESS ENTER
```

6. Once all fax numbers have been set, go to step 7 or go to step 5 to set next fax number.

```
LOC. COUNT=xx        ⇨ total location numbers (up to 71 locations)
SEL. LOC/ENTER
```

7. Press **ENTER** key to select transmission time.

```
TIME=x0:00          ⇨ set transmitting time
0-9, START
```

8. Set the transmission time using the numeric keys (24-hour format).

9. Press **START** key to scan the document.

```
BROADCASTING
SCANNING  Mxx
```

10. The fax machine will assign the session number (3 digits) for this transaction. Use this number to trace the result or delete the schedule.

```
BROADCASTING
SESSION NO=xxx      ⇨ session number
```

11. If memory becomes full during scanning , your fax will return to the stand-by mode. Restart the broadcast when memory becomes available or send your documents manually.

```
BROADCASTING
MEMORY FULL
```

3.4 Delay Transmission

The delay transmission is used to delay sending documents (maximum transmissions: 71) to a single location at a specified time. You many also use Broadcast to specify a particular time at which to send documents to multiple locations.

Procedures

1. Place the documents face down on the document guide.

2. Select proper type original & resolution (if necessary).

3. Press **FUNCTION** key.

4. Select "DELAY TX" using the arrow keys or numeric "2" key then press **ENTER** key.

5. Set the transmission time using the numeric keys (24-hour format).

```
TIME=x0:00
0-9, ENTER
```

6. Enter the telphone number and press **START** key.

```
DELAY TX
SELECT LOCATION
```

7. After pressing **START** key, the fax will start to scan documents.

```
DELAY TX
SCANNING  Mxx
```

8. The fax machine will assign the unique session number (3 digits) for this transaction. Use this number to trace the result or delete the schedule.

```
DELAY TX
SESSION NO=xxx
```

9. If memory is full during scanning, your fax will return to the stand-by mode. Restart the Delay TX when memory becomes available or send your documents manually.

```
DELAY TX
MEMORY FULL
```

3.5 Direct Send

The fax can scan document and send it without scanning into memory.

Procedures

1. Place the documents face down on the document guide.

2. Select proper type original & resolution (if necessary).

3. Press **FUNCTION** key.

4. Select "DIRECT SEND" using the arrow keys or numeric 3. Press **ENTER** key.

```
DIRECT SEND
SELECT LOCATION
```

5. Enter the telephone number and press **START** key.

```
TEL=xxx
PRESS START
```

6. If the transmission fails, the next dialing time will be shown on the display. Then the fax machine will wait for a few minutes and try to redial the number.

```
DIRECT SEND
DIAL TIME =00:00
```

7. If the fax has tried several times but still fails to send your document, "OUT OF RE-DIAL" will be shown on the display. This time you can remove the document and try to resend it later or press START key to restart your fax machine.

```
DIRECT SEND
OUT OF REDIAL
```

3.6   Polling Reception

Polling lets you call a remote facsimile and have it send you the documents that have been placed on the ADF tray or stored as a temporary file in the other facsimile. Moreover, if your fax has been prepared for polling, it needs no attendance when the remote fax calls and asks it to begin transmitting. You can also poll documents every day at a fixed time.

Procedures

1. Press FUNCTION key.

2. Select "POLLING RX" using the arrow keys or numeric 4 then press ENTER key.

```
POLLING RX
SELECT LOCATION
```

3. Enter telephone number and press ENTER key.

```
TEL=xxx
PRESS ENTER
```

4. Once all telephone numbers have been set, go to step 5 to proceed or go to step 3 to set next telephone number.

```
LOC. COUNT=xx       ⇨ total location number
SEL. LOC/ENTER
```

5. Press ENTER key to select the password for the remote site.

```
POLLING ID=0000     ⇨ "0000" indiates no password
PRESS ENTER
```

6. Set the polling time using the numeric keys (24-hour format). The fax will poll document at the time you set.

```
TIME=x0:00
PRESS ENTER
```

7. Select repeat polling or press "0" to quit.

```
REPEAT POLLING
0=(NO) 1=(YES)
```

8. Your machine will retrieve documents stored in a remote fax machine daily at the pre-determined time you have set or will continuously poll the remote machine if you do not specify the polling time.
See the following display:

   (1) continuous polling   (2) daily polling
     (without setting time)   (with setting time)

```
CONTINUOUS = ON          DAILY = ON
PRESS ENTER              PRESS ENTER
```

9. Press ENTER key to confirm this setting or press STOP key to quit.

10. The facsimile will return to the standby mode.

3.7 Bulletin Board (Polled)

The Polled function is used to send a document file (up to 30 Bulletin Boards) in response to polling requests from remote facsimile devices. When you prepare a document to be polled by the remote receiver, the fax will scan the document into memory to wait for polling. Polling procedures can be protected with a password and each Bulletin Board can store only one document at a time.

Operation

1. Place the documents face down on the document guide.

2. Select proper type original & resolution (if necessary).

3. Press FUNCTION key.

4. Select "BULLETIN BOARD" using the arrow keys or numeric 5 then press ENTER key.

```
SET DOC.    =1
CLEAR DOC.=0
```

5. Press "1" to select store document and input the polling ID.

```
POLLING ID=1234
PRESS START
```

6. Enter the password (4 digits) and press START key to scan document.

```
BULLETIN BOARD
SCANNING Mxx
```

7. The fax machine will assign the session ID (3 digits) to this document, which will be printed on the activity report.

```
BULLETIN BOARD
SESSION NO=xxx
```

8. If the bulletin board is over 30 files, please clear unnecessary files before inserting new file.

3.8 Memory Files

This function helps you trace or delete the schedule status.

1. View File

   Trace file status, including memory transmission, polling and contents (telephone number and session number).

2. List File

   List file status, including memory transmission, polling and other information.

Procedures

1. Press FUNCTION key.

2. Select "MEMORY FILES" using the arrow keys or numeric 6 then press ENTER key.

```
MEMORY FILES
PRESS ENTER
```

3. Press "0" key to view all file status. Select "1" to list all file status.

```
VIEW FILE  =0
LIST FILE  =1
```

4. Press ENTER key to view all schedule.

```
VIEW FILE
PRESS ENTER
```

5. You can use MODE-CLEAR key to delete file or arrow key to rotate all memory file.

```
001=xxx
<-, ->, CLEAR
```
⇨ session number
⇨ telephone number or one-touch name

6. If the session has multiple locations, you can delete an individual record or whole session record

```
DELETE ALL LOC.
0=(NO) 1=(YES)
```

3.9 Report Printing

You can print the following desired lists using the Report Print function.

One-Touch List/Speed Dial List/Group Dial List/Activity Report/User Data Report

Procedures

1. Press **FUNCTION** key.

2. Select "PRINT REPORT" using the arrow keys or numeric 7 then press **ENTER** key.

```
PRINT REPORT
PRESS ENTER
```

3. Select report and then press **START** key to print the report.

```
ACTIVITY REPORT        ACTIVITY REPORT
1-5, START      ⇨      PRINTING
```

1: ACTIVITY REPORT
2: ONE-TOUCH LIST
3: SPEED DIAL LIST
4: GROUP DIAL LIST
5: USER DATA LIST

4. If you want to print out another report, go back to step 3 or you can press **STOP** key to quit.

Example: Activity Report

TYPE	SESS	DATE/TIME	DURATION	REMOTE ID	SPEED	PAGE	RESULT
	001	00:00 00:00	1'20	123	xx	xx	OK
	002	00:00 00:00	1'20	123	xx	xx	OK
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)

(A):

NO	Message	Description
1	MEMORY TX	Transmits document from memory
2	B'CAST TX	Broadcasting transmission
3	POLLING TX	ADF or bulletin polling Tx
4	MANUAL TX	Manual transmission
5	DELAY TX	Delay transmission
6	POLLING RX	Polling Rx in function mode
7	AUTO RX	Auto receiving
8	PCFAX TX	Transmits document from PC
9	MANUAL RX	Manual receiving
10	DIRECT TX	ADF Tx in function mode
11	RELAY BC	Initiates relay from memory
12	RELAY RX	Relay broadcast receiving
13	RELAY INIT	Relay initiate
14	GROUP TX	Group transmission
15	RELAY RPT	Relay broadcasting report
16	GROUP RX	Group polling receiving

3-8

(B) Session No (three digits, including receiving)

(C) Connection date and time

(D) Duration (e.g. 1 minute, 20 seconds)
    ⇨ 01'20

(E) Remote ID (four choices)
    (1) one-touch name
    (2) dialed number
    (3) called ID
    (4) blank

(F) Speed
    E - error correction mode   14-14400 bps, 12-12000 bps, 96 - 9600 bps, 72 - 7200 bps,
                                48- 4800 bps, 24-2400bps

(G) Total TX/RX pages for session

(H) Result

No	Message	Description
1	OK	Transaction is completed.
2	'NG'	Partial page Tx/Rx is not good or error.
3	NO ANSWER	Out of redial.
4	MEM. FULL	Memory full within receiving.
5	JAM	Document jam in the ADF during transmission.
6	STOP	User stops transmission/reception procedures.

Example: One-Touch Directory

```
***************************
    * ONE-TOUCH DIRECTORY *
***************************
```

NAME:xxx
TEL=xxx
DATE:...

NO	TELEPHONE NUMBER	NAME	START TIME	RELAY LIST NO	REPORT ADDRESS
1	123	001	HH:MM	01	01
2	456			OFF	
3					
~	~	~	~	~	~
16					

↓ batch time   ↓ relay request no.   ↓ relay report address

3.10 Program Telephone Number

This function allows you to program the numbers which are stored in one-touch, speed dial and group dial directories. Also, you can setup special parameter for each one-touch key, including batch time and relay request.

3.10.1 One-Touch Setting

Procedures

1. Press FUNCTION key.

2. Select "PROGRAM TEL. NO." using the arrow keys or numeric 8 then press ENTER key.

```
PROGRAM TEL. NO.
1-5, <-, ->, ENTER
```

3. Press <1> and ENTER to program one-touch dial. Press ONE-TOUCH key.

```
ONE-TOUCH DIAL
PRESS OT KEY
```
(e.g. One-Touch Key 2)

4. Set the One-Touch telephone using the numeric keys or PAUSE key. Press ENTER key to save the One-Touch number.

One-Touch symbol
⇧

```
OT02=xxx
PRESS ENTER
```
⇨ telephone number

5. Set the network number for network system, if necessary (the network number is up to 8 digits), or you can select "0" and go to step 7.

```
NETWORK ADDR
0=(NO), 1=(YES)
```

6. Select network number and press ENTER key.

```
NET ADDR=xxx
PRESS ENTER
```
⇨ network number

7. Set One-Touch name or you can go to step 10.

```
ONE-TOUCH NAME
0=(NO), 1=(YES)
```

8. Use arrow key and "*", "#" key to setup One-Touch name. See the following table for key definition.

```
┌─────────────────────┐
│ ONE-TOUCH NAME      │
│ <-,->, *,#, ENTER   │
└─────────────────────┘
```

9. Press ENTER key to save the One-Touch name, which is used in the activity report or schedule status.

```
┌─────────────────────┐
│ ABCDEFGHIJKLMNOP    │ ⇨ character set
│ ABC                 │ ⇨ your name
└─────────────────────┘
```

10. Set other One-Touch key and go back to step 3 or you can press STOP key to quit.

Key Definition:

Arrow key: moves cursor left and right one position at line 1 and 2.

"#" key: switches cursor between line 1 and line 2.

"*" key: selects character at cursor position at line 1 and puts it at cursor position at line 2.

"1" -"6": selects character set at line 1.

Number	LCD Display Pattern
1	! " # $ % & ' ( ) * + , - . /
2	0 1 2 3 4 5 6 7 8 9 : ; < = > ?
3	@ A B C D E F G H I J K L M N O
4	P Q R S T U V W W Y Z [\ ] - _
5	` a b c d e f g h i j k { | m n o
6	p q r s t u v w x y z { | }

3.10.2 Speed Dial Setting

Procedures

1. Press FUNCTION key. Select "PROGRAM TEL. NO." using the arrow keys or numeric 8 then press ENTER key.

2. Select "SPEED DIAL" using the arrow keys or numeric 2 then press ENTER key.

```
┌─────────────────────┐
│ SPEED DIAL          │
│ 1-5, <-,->, ENTER   │
└─────────────────────┘
```

3. Press "0", "3" and ENTER keys (example: Speed Dial 03).

```
SPEED DIAL #03
01-50, ENTER
```

4. Enter telephone number with numeric key or PAUSE key.

speed dial symbol
⇧

```
SD03=xxx
PRESS ENTER
```
⇨ telephone number

5. Press ENTER key to save current speed dial number and go to step 3.

```
SD03=xxx
DATA ENTER OK
```

6. Set other Speed Dial key to go back to step 3 or press STOP key to quit.

3.10.3 Group Dial Setting

Procedures

1. Press FUNCTION key. Select "PROGRAM TEL. NO." using the arrow keys or numeric 8 and press ENTER key.

2. Select "GROUP DIAL" using the arrow keys or numeric 3 then press ENTER key.

```
GROUP DIAL
1-5, <-, ->, ENTER
```

3. Press One-Touch key (example: One-Touch 13).

```
GROUP DIAL
PRESS OT 13-16
```

4. If current One-Touch key has been set, you cannot use it for Group key.

```
OT13=ONE-TOUCH
NOT AVAILABLE
```

5. If current One-Touch key has been set for group dial setting, press ENTER key to add or delete record. If it has not been set, go to step 7.

```
OT13=GROUP DIAL
PRESS ENTER
```

6. Press **ENTER** key to add or delete new record. You can go to step 7 if this option is not needed.

7. Add One-Touch or Speed-Dial into the record and press **ENTER** key to save current group.

```
OT01=xxx
<-,CLEAR, ENTER
```

8. You can also set the group name according to One-Touch dialing.

```
LOC. COUNT=xx       ⇨ total location number for this One-Touch key
SEL. LOC/ENTER
```

3.10.4 Batch Transmission Setting

You can program your single location One Touch keys to automatically batch documents. By assigning a batch time to a programmed One Touch key you can eliminate frequent dials to the same number throughout the day. The unit calls the other unit at the preset time and transmits all documents stored in memory during the same phone call.

Procedures

1. Press **FUNCTION** key. Select "PROGRAM TEL. NO." using the arrow keys or numeric 8 and press **ENTER** key.

2. Select "BATCH TX" using the arrow keys or numeric 4 then press **ENTER** key.

```
BATCH TX
1-5, <-, ->, ENTER
```

3. Press One-Touch key (example: One-Touch 11).

```
BATCH TX
PRESS OT KEY
```

4. Before you use the batch function, you must set the telephone number for your desired One-Touch key or the LCD will show the following message:

```
OT11=           ⇨ not set before
NO TEL. NUMBER
```

5. Press **ENTER** key to setup memory transmission time for One-Touch key.

```
OT11=xxx
PRESS ENTER
```

6. Use the numeric keys to set transmission time , then collect the documents for the same location and transmit them at the time you set by the same call.

```
START TIME=00:00
0-9, ENTER
```

3.10.5 Relay Broadcast Initiate Setting

You can program your One Touch key to automatically relay documents via a compa compatible Relay Broadcast unit (MINOLTAFAX 1800) by assigning a relay list to the keys. The relay list number is One Touch key number in the unit that contains the group of locations that will receive the document.

Procedures

1. Press FUNCTION key to Select "PROGRAM TEL.NO." using the arrow keys or numeric 8 and press ENTER key.

2. Select "RELAY INITIATE" using the arrow keys or numeric 5 then press ENTER key.

```
RELAY INITIATE
1-5, <-, ->, ENTER
```

3. Press ENTER key.

```
RELAY INITIATE
PRESS OT KEY
```

4. Current One-Touch key must be set in the One-Touch Dial Setting. (example: One Touch 13)

```
OT
NO TEL. NUMBER
```
⇨ indicates that current key is not set before.

5. Press ENTER key to select the One-Touch location at remote site (Relay Broadcast unit).

```
RELAY LIST NO=xx
01-99, ENTER
```
⇨ e.g.: If the remote site uses the same fax model, you can select One-Touch key 01-16.

6. After the relay list number has been set, you have to ask the remote site machine to send the report (activity report) to the location defined in his speed dial key.

```
REPORT ADDRS=xx
01-99, ENTER
```
⇨ e.g.: If the remote site uses the same fax mode, you can select Speed Dial 01-50.

7. Set other batch key to go back to step 3 or press STOP key to quit.

3.11 Program User Switch

The user switch is a software switch which allows you to change the fax settings. See the following table for user switch default settings.

User Switch Default Settings

No.	Switch Name	Default	Alternatives
1	Activity Report	ON	ON/OFF for automatic printing of the Activity Report, showing the transmission results.
2	Error Report	ON	ON/OFF for automatic printing of the TX/RX error report. Error report prints part of the first page if a transmit session was sent from memory. In Group Dial or Broadcast, individual error reports are printed for each call in which an error occurred.
3	Tx Confirmation Report	OFF	ON/OFF for automatic printing of the outgoing transmission
4	Rx Confirmation Report	OFF	ON/OFF for automatic printing of individually received transmission reports.
5	Reduction Type	AUTO	Auto, No reduction or No reduction with lower 10mm cut off. Auto: When receiving, your unit reduces the received image down to 70% of the original size, if necessary, to fit it on the recording paper. No Reduction: Use second sheet. When receiving, your unit does not reduce a received image. If the image length exceeds the length of the recording paper, the fax unit prints the remaining image on a second sheet of paper. No reduction with lower 10mm cut off: When receiving, your unit does not reduce a received image. If the image exceeds the printable length by a small margin, that portion is lost. If the image length exceeds 11 1/4", the fax unit prints the remaining image on a second sheet of paper.
6	Line Monitor	OFF	ON/OFF. Turns the speaker monitor on or off. If the monitor is on, you hear dialing tones at the beginning of a session.
7	Header Position	INSIDE	Outside/Inside the image area for the printed location of the user ID, phone number, and date and time header at the top of the transmitted pages.
8	Memory Entry Report	ON	ON/OFF. Prints a memory report after scanning document into memory.
9	Broadcast Report	ON	ON/OFF. Prints one confirmation report for the entire session. If error occurs in a specific location, a separate error report prints. Refer to Activity Report for specific call information.
10	Rx Time/Date	OFF	ON/OFF. Prints the local time and date on pages you receive along with the phone number of the unit that has sent the document.
*	Busy Tone	ON	ON/OFF. The unit goes immediately to the redial mode when it detects a busy signal.
#	Remote ID Type	NAME	One Touch Name, Dialed Number, TSI/CSI (Transmit Subscriber ID/Called Subscriber ID) or blank. This selection determines what information prints in the remote ID field of the Activity and Confirmation Reports.

The switches are described above in details. To change one of the settings, follow the operation procedures.

Procedures

1. Press FUNCTION key.

2. Select "PROG USER SWITCH" by using the arrow keep or numeric 9 then press ENTER key.

3. Use arrow key or numeric 0-9, *, # to select user switch you want to access.

4. Use the arrow key to select the one you want .

5. Press ENTER key to save your change.

6. If you want to change another switch, please go to step 3 or press STOP key to quit.

3.12 Program User Data

This function allows you to program the following information which is printed out at the top of any fax you send, including your telephone number, your fax station name, current date and time.

This information helps the recipient identify who sends the fax and when it was sent.

Your Telephone Number
This option enables you to program your fax number into the fax machine.

Procedures

1. Press FUNCTION key.

2. Select "PROG USER DATA" using arrow keys or * symbol and press ENTER key.

3. Select "YOUR TELE. NO" using arrow keys or numeric 1 and press ENTER key.

```
YOUR TELE. NO
1-3, <-,-> , ENTER
```

4. Set your telephone number using numeric keys or PAUSE key (Up to 20 digits).

```
TEL=xxx
. PRESS ENTER
```
⇨ your telephone number

5. Press ENTER key to save your telephone number and quit.

Your Fax Station Name

This option enables you to program your name or your company's name into the fax machine.

Procedures

1. Press FUNCTION key.

2. Select "PROG USER DATA" using arrow keys or * symbol and press ENTER key.

3. Select "YOUR NAME" using arrow keys or numeric 2 and press ENTER key.

4. Use arrow key, "*" and "#" key to setup your name. Refer to 3.10.1 One-Touch Setting on page 3-11 to see key definition.

5. Press ENTER key to save your name.

Date and Time

This option enables you to program current date and time.

Procedures

1. Press FUNCTION key.

2. Select "PROG USER DATA" using arrow keys or * symbol and press ENTER key.

3. Select "SET DATE/TIME" using arrow keys or numeric 3 and press ENTER key.

```
SET DATE/TIME
1-3, <-, ->, ENTER
```

4. Enter the date and time using numeric keypad, then press ENTER key.

```
10-17-96   12:00
PRESS ENTER
```

3.13 Dial Type

These options enable you to configure your telephone system and change the auto dial parameter if allowable. The Dial Type function is divided into three parts:

(1) Telephone system: PSTN or PBX
(2) Dial method: tone or pulse
(3) Redial parameter: redial interval and redial times

The default settings are shown below:

No.	Option Item	Default	Alternatives
1	Telephone System	PSTN	PSTN/PBX
2	Dial Method	Tone	TONE/PULSE
3	Redial Interval	1 minute	1-20 minutes
4	Redial Times	11 times	1-10 times

Note: Dial Interval and Redial Times depend on your PTT regulation.

Redial time (1-10 times)

If PTT is not allowed, "NOT AVAILABLE" will be displayed.

Redial interval (1-20 minutes)

If PTT is not allowed, "NOT AVAILABLE" will be displayed.

TONE/PULSE setting

Procedures

1. Press **FUNCTION** key.

2. Select "DIAL TYPE" using arrow keys or numeric 0 and press **ENTER** key. .

3. Select "TONE/PULSE" using arrow keys or numeric 1 and press ENTER key.

```
TONE/PULSE
1-4, <-, ->, ENTER
```

4. Use the arrow keys to select the setting you want.

```
TONE/PULSE
TONE:<-, ->, ENTER
```

5. Press **ENTER** key to save your selection.

6. If you want to change other selections, go back to step 3 or press **STOP** key to quit.

PSTN/PBX Setting

Procedures

1. Press FUNCTION key.

2. Select "DIAL TYPE" using arrow keys or numeric 4 and press ENTER key.

3. Select "PSTN/PBX" using arrow keys or numeric 2 and press ENTER key.

```
PSTN/PBX
1-4, <-, ->, ENTER
```

4. Use arrow key to select the setting you want.

```
PSTN/PBX
PSTN: <-, ->, ENTER
```

5. Press ENTER key to save your selection. If you select PBX mode, you can enter the prefix number, if necessary.

```
PRE-FIX NO=xxxx        ⇨ up to 4 pre-fix number
0-9999, ENTER
```

6. If you want to change other selections, go back to step 3 or press STOP key to quit.

> Note: 1. The prefix number is up to 4 digits. If no prefix number appended, the 1st symbol is regarded as flash key.
> 2. With pre-fix number programmed:
> if the first digit=0-9   (the internal call does not check busy or dial tone)
> if the first digit=#   (access PSTN line after dialing the pre-fix number)

For example, if the pre-fix number =9, follow the table shown below to see the relations between the display and display number.

Phone Type	Input telephone number	LCD Display/Dialing	Access Line
PSTN	123	123	PSTN
PSTN	#123	#123	PSTN
PBX with pre-fix	123	123	Internal PBX
PBX with pre-fix	#123	9-123 '-' delays 2.5s	PSTN
PBX without prefix	123	123	PSTN

3.14 TAD (Telephone Answering Device) Mode

If you attach an Answering Machine to the TEL jack on the rear of the MINOLTAFAX 1800, and set the MINOLTAFAX 1800 Mode Switch to TAD Mode, the MINOLTAFAX 1800 and the Answering Machine can share the same telephone line. There are four functions to program in the MINOLTAFAX 1800 to facilitate this operation: Remote Control Code, Record Time, Silence Time and Ring Counter.

Ring Counter

Choose between 4 and 8 rings. Always set your Answering Machine to a lesser ring count it will answer the call before the MINOLTAFAX 1800 does. If for some reason the Answering Machine does not answer the call, the MINOLTAFAX 1800 will answer after the Ring Counter program number and assume the Fax Receive Mode.

1. Press FUNCTION key.

2. Press the (#) key.

```
TAD SETUP
0-9,*,#,<-,ENTER
```

3. Press ENTER.

```
TAD SETUP
1-4,<-,->
```

4. Press the number 4 on the Keypad then press ENTER.

```
RING COUNTER
1-4, <-,-> ENTER
```

5. Use the Keypad to select the number of desired rings (4 through 8).

```
RING COUNTER=_
4-8, ENTER
```

6. Press the ENTER key to confirm your choice.

7. The display returns to Standby.

Record Time

The choice is from 000 to 200 seconds. If you set the amount of seconds, the MINOLTAFAX 1800 will cut off the line to the Answering after the programmed time elapses and switch to the Fax Receive Mode. If you set the time to 000, the MINOLTAFAX 1800 will not mointor the time and the Answering Machine must terminate the call.

1. Press FUNCTION key.

2. Press the (*) key and then press ENTER.

```
TAD SETUP
0-9,*,#,<-,ENTER
```

3 Press the number 2 on the Keypad.

```
TAD SETUP
1-4, <-,->
```

4 Press ENTER.

```
RECORD TIME
1-4,<-,-> ENTER
```

5 Use the Keypad to select the Record Time.

```
RECORD TIME=000
000-200, ENTER
```

6 Press the ENTER key to confirm your choice.

7 The Display returns to Standby.

Silence Time

The choices are NONE, 3 seconds, 6 seconds, or 9 seconds. If you select 3, 6, or 9, the MINOLTAFAX 1800 will listen for silence on the telephone line for the selected number of seconds. If the set amount of silence is detected, the MINOLTAFAX 1800 switches the line from the Answering Machine to the Fax Receive Mode.

If you select NONE, the machine will not monitor for silence, and the Answering Machine must terminate the call. If you select a time, your Answering Machine Voice message should contain a phrase such as "...if you wish to send a fax, remain silent for xx seconds and you will hear the fax machine come on the line."

1. Press **FUNCTION** key.

2. Press the (#) key then press ENTER.

```
TAD SETUP
0-9,*,#,<-,  ENTER
```

3. Press the number 3 on the Keypad. Pess ENTER.

```
TAD SETUP
1-4,<-,->
```

4. Use the Keypad keys 1-4 to select a Silence Time.
   1=NO   3=6 seconds
   2=3 seconds   4=9 seconds

```
STLENCE TIME
1-4, <-,-> ENTER
```

5. The message "DATA ENTRY OK" and the unit retruns to Standby.

```
SILENCE TIME= NO
1-4, <-,  ENTER
```

Remote Control Code

You can set a Tone Dial code that the remote callers can press on their telephone to switch your MINOLTAFAX 1800 to the Fax Receive mode after your Answering Machine answers the call. You can select one of five possible codes: 5*, 6*, 7*, 8*, or 9*. Your Answering Machine Voice message should contain a phrase such as "...if you wish to send a fax, press the number then star (*) on your telephone and you will hear the fax machine come on the line."

1. Press FUNCTION key.

2. Press the (#) key, then press ENTER.

```
TAD SETUP
0-9,*,#,<-,ENTER
```

3 Press the (#) 1 on the Keypad.

```
TAD SETUP
1-4, <-,->
```

4 Press ENTER.

5 Use the Keypad keys 5-9 to select the Remote Control Code.

```
REMOTE CTRL.CODE
1-4, <-,->, ENTER
```

6 Press the ENTER key to confirm your choice. The unit returns to Standby.
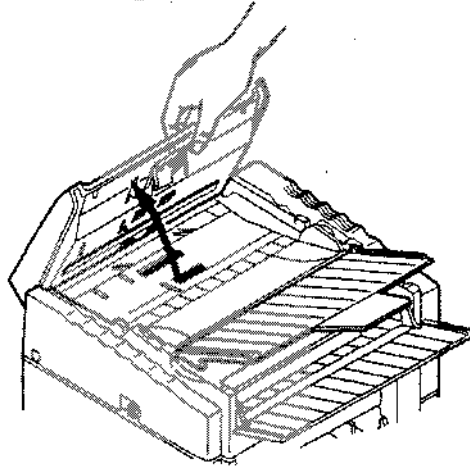
```
CTRL.CODE= 5*
5-9, ENTER
```

4.1 Cleaning the Facsimile

It is important to take routine care of your fax in order to keep it in the best operating condition.

Note: Always turn off the power before routine maintenance.

4.1.1 Cleaning the Scanner Interior and Document Feeder

(1) Open the panel cover.
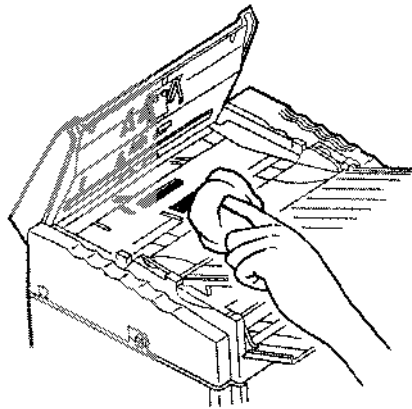
(2) Wipe the ADF roller by rotating the roller with your hand.

(3) Softly wipe the glass of the image sensor.

Note: To transmit your documents more clearly, you can wipe the scanner and document feeder lightly with a clean, soft cloth dampened with water. Use a mild soap or detergent if necessary.

4.1.2 Cleaning the Casing and Labels

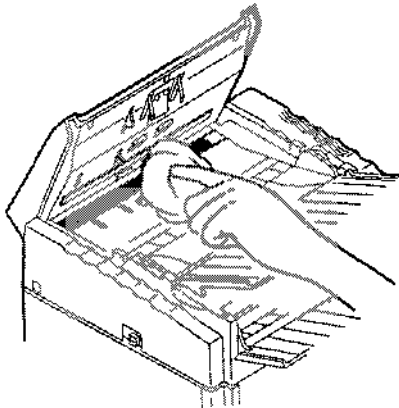Wipe the fax's casing and labels with a slightly damp cloth or a diluted neutral detergent.

CAUTION: *Never use alcohol or other solvents.*

4.1.3 Cleaning the Interior and Consumables

Switch off the fax and remove the imaging cartridge before proceeding.

CAUTION: *Be careful not to damage any of the fax's components or leave any scraps of paper inside the fax.*
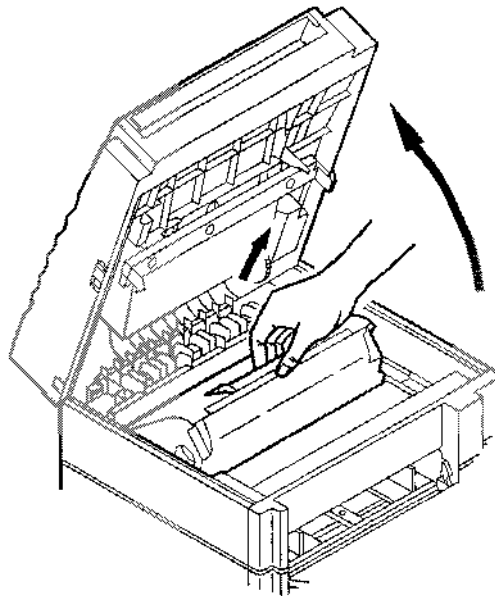
1. Open the top cover and remove the imaging cartridge.

2. Wipe the paper take-up roller using a soft cloth as shown in the illustration.

4.1.4 Replacing the Imaging Cartridge

An imaging cartridge will print approximately 4,500 pages of A4 (or Letter) size paper when the black-to-white ratio on the prints is 5% or less. When the cartridge is nearly out of toner, toner smudges may appear on the prints or the image will become lighter and lighter. Remove the imaging cartridge, shake it a few times, and re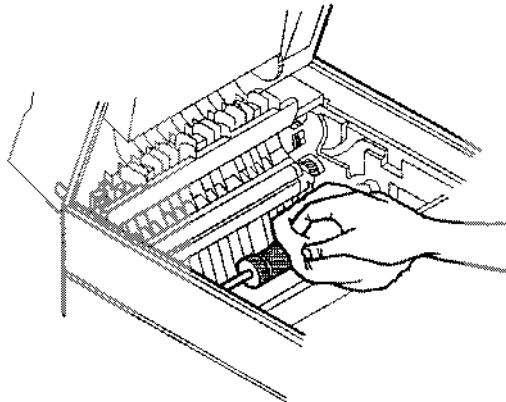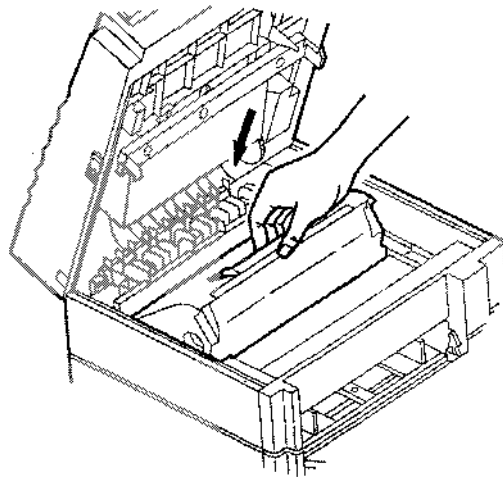install it. If the toner smudges still persist or the image is still light, follow the steps below to replace the imaging cartridge with a new one.
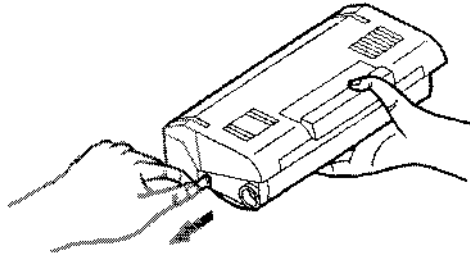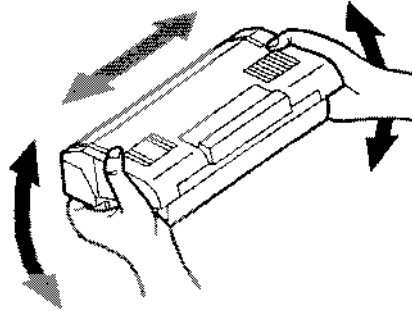
1. Open the fax and remove the used imaging cartridge.

2. Unpack the new imaging cartridge, hold the cartridge with both hands and shake it well in the directions shown in the illustration. Grasp the tag at the side and gently pull it straight out to peel off the toner seal.

3. Shake the cartridge four or five times in the direction shown in the illustration to distribute the toner inside.

4. Slide the imaging cartridge into the fax, using the imaging cartridge guides to locate it. Then push down the imaging cartridge until it is seated.

Note: The imaging cartridge is made from non-hazardous materials, and may be disposed of freely. Consult the regulations for the disposal of such products in your area.

4.2 Cleaning Paper Jams

When a document jam or paper jam occurs, the message "DOCUMENT JAM" or "PAPER JAM" will be displayed on the LCD.

When a paper jam occurs at the places described below, remove the jam according to the procedures described below:

4.2.1 Cleaning Document Jams
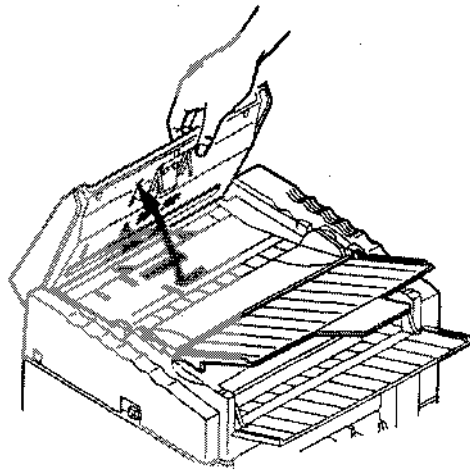
1. Open the panel cover.
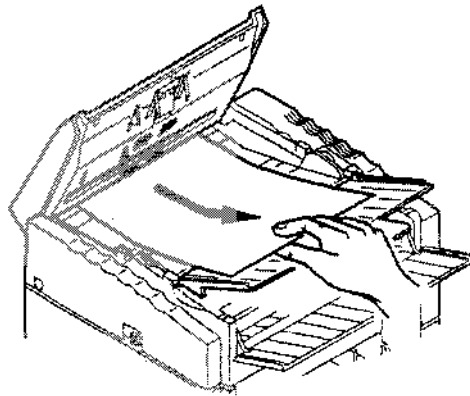
2. Remove the jammed documents.

4.2.2 Cleaning Recording Paper Jams

1. Open the top cover of the fax.

2. Remove the imaging cartridge.

3. Determine the location of the jammed paper.

Ascertain whether it is at point (a) paper eject section
                                          (b) paper transport section
                                          (c) paper feed section

4. Remove the jammed paper.

    (1) If paper is jammed in the paper eject section.
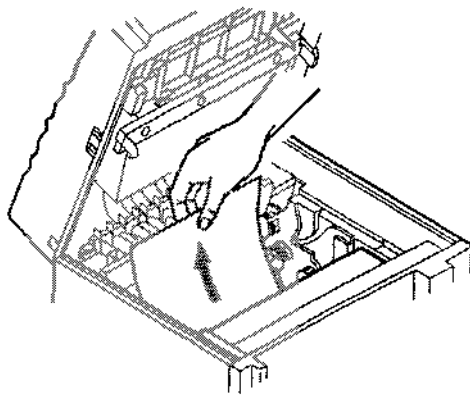
1. Remove the paper by pulling it in the direction of the arrow.

CAUTION: *Do not pull the paper in the opposite direction, as you could stain the inside of the fuser, which may lead to print image problems. Also, the inside of the fuser might be very hot, so be very careful. Avoid getting toner on your hands from the paper when removing it. And avoid not to touching the hot fusing unit.*

2. Check to see if there are any error messages on the LCD.

    Note: *If the error message persists, check again to see if there is still a paper jam inside the printer.*

(2) If paper is jammed in the paper transport section.
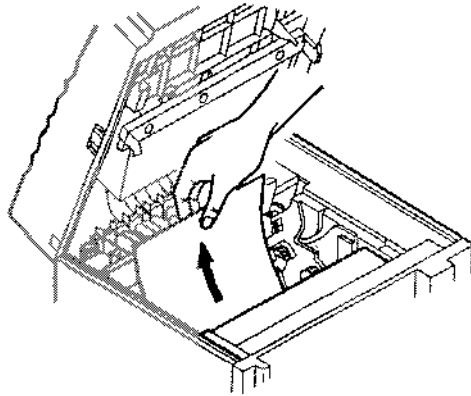
1. If the edge of the paper has not been fed in the fusing unit, remove the paper by pulling it in the direction shown in the illustration.

CAUTION: *Avoid care not getting toner on your hands from the paper when removing it.*
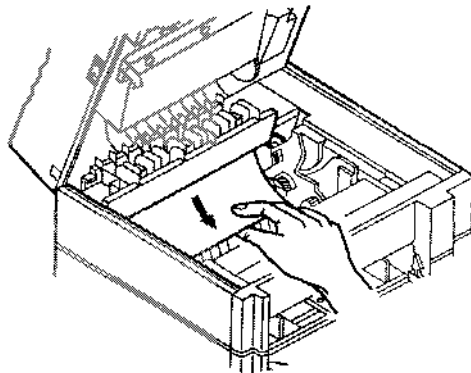
2. If the edge of paper has been fed in the fusing unit, remove the leading edge first by pulling in the direction shown in the illustration, and remove it completely as described above.

Do not remove the jammed paper by pulling it in the direction shown in the illustration.
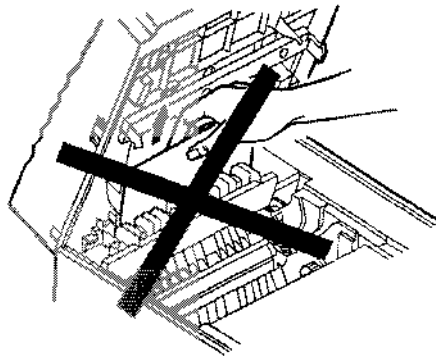
3. Install the imaging cartridge, securely close the printer and vertify that there are no error messages on the LCD.

If the error message persists, check again to see if there is still a paper jam inside the printer.

(3) If paper is jammed in the paper feed section.
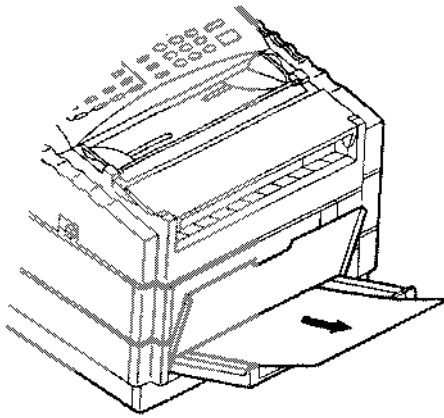
1. If the paper has been fed from the multi paper tray, open the panel cover and remove the jammed paper.

2. Release the printer's lock release lever and open the top cover. Remove the imaging cartridge and check to see if ther is any paper inside the machine.
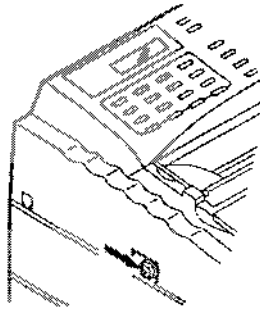
3. Verify that there is no error message on the LCD.

> If the error message persists, check again to see if there is still a paper jam inside the printer.

4. Replace the imaging cartridge.

5. Close the fax's top cover. The alarm lamp will go out and the message on the display panel will return to normal. You are now finished clearing the paper jam.

> During a paper jam there may be more than one sheet of paper stuck inside the fax.

CAUTION: *If you make sure no paper is jammed in the fax but the message "PAPER JAM" still appears, you can open and close the top cover of the fax to solve this problem.*

If your fax is not working properly, please read the following information to fix the basic problems you might encounter before contacting your dealer.

However, if the problem still cannot be resolved, do not attempt further repairs. Turn off your machine and consult your dealer.

Never disassemble or try to fix your fax on your own, as you could damage it and suffer the risk of electric shock.

Problem	Troubleshooting
1. Nothing is shown on the display.	Make sure the power cord is plugged in properly. Check the power switch is in ON position. Check another electric appliance to the AC outlet to check whether the outlet is live.
2. No printing on the receiving side.	Make a local copy to check if your machine has any problem. Make sure the recording paper is properly loaded in the remote receiving unit.
3. The machine fails to enter the reception mode when it is called.	Check whether the machine is in the automatic reception mode. Check whether paper is exhausted and the memory is also full.
4. Automatic document feeder fails to work.	Check the document size. Make sure the documents are properly set in the feeder.
5. When the reception record has black stripes.	Use your fax to make a copy of the document. If the copied document does not have black stripes, ask the transmitting side to check their machine. If the copied document has black stripes, contact service personnel.
6. The LCD displays "DOCUMENT JAMS" or "PAPER JAMS".	Please follow the operation procedures described in "4.3 Cleaning Paper Jams" in Chapter 4 Maintenance to fix this problem. If you still fail to solve the problem, please contact your dealer.
7. No sound can be heard from the telephone set.	Check if the cord of telephone set is properly connected to the terminal of fax. Check if the cord of line is connected properly.

Problem	Troubleshooting
8. Communication error.	Most errors are caused by a bad line connection, so please retry transmission. Try communication test with another facsimile. If this problem still exists, please contact your dealer.
9. The image is slanted on the page when you make a copy or receive a document.	Readjust the guide in the paper cassette.
10. The copy quality is poor.	If any black line appears on the page, please clean the surface of the scanning head under the operation panel. If the image becomes faint or blurry, please remove the image cartridge and rock it as described in " Chapter 1".
11. The pages come out wrinkled or there are frequent paper jams or double feeding.	Check if the paper size and type fits your fax. Check if the paper you are using is rippled or creased.
12. The ALARM lamp stays ON and the LCD displays "CHECK PAPER" and "PRESS START".	Load the paper then press START key.
13. The ALARM lamp stays ON and the LCD displays "CHECK PAPER" even you have refilled the paper in the paper cassette.	Make sure the paper cassette is installed properly.
14. Your machine shows "CHANGE CARTRIDGE".	Replace the imaging cartridge.

General
Type   Desktop
Compatibility   Group 3
Applicable   Public Switched Telephone Network (PSTN)

Communication
Modem Speed   14400, 12000, 9600, 7200, 4800, 2400 w/auto step down
Coding   MH, MR, MMR
ECM   Yes
Polling   Up to 71 locations for one session
                                            Continuous - execute polling until manual delete
                                            Daily   - execute polling at specified time daily until manual delete
                                            Password   - 4 digits (new T.30 function)

Transmission
Transmission time   7 seconds
Transmission memory   256KB (14 pages), Option 512KB or 1024KB that can be added
Delay transmission   Yes, 24 hours
Broadcasting   Sequential: up to 71 locations for one session
                                            One-touch - 16 locations
                                            Speed-dial - 50 locations
                                            10-Keypad dial - 5 locations
Relay broadcast request   Yes
Relay broadcast   Yes
File/batch transmission   One-touch dial memory Tx. only
Sub address capability   Yes (new T.30 function for one-touch key only)
Bulletin board   Fax by request with fax/DTMF tone (up to 30 bulletin files)

Reception
Receiving memory   256K Bytes (14 pages), option 512K Bytes or 1024K Bytes that can be added

User interface
Dual access   Multi-tasking
TTI (Transmit Terminal ID)   Yes, date & time, 20 digits TTI
RTI (Remote Terminal ID)   Yes, 20 digits
One-touch   16, 12 for single dial, 4 for group dial (40 digits/dial)
Speed dial   50 (40 digits/dial)
Group dial   4 groups, 20 numbers each
Tel/Fax auto-changeover   Yes
TAD interface   Yes
Remote control   Yes

Document Input
Scanner type   CIS
Resolution   Horizontal 8 dots/mm
                                            Vertical   3.85 lines/mm (NORMAL)
                                                        7.7 lines /mm (FINE)
                                                        15.4 lines/mm (EXTRA FINE)
Min. size (W x L, mm)   148 x 110 mm (5.83" x 4.33")
Max. size   280 x 1000 mm (10.98" x 39.37")
Max. scan width   210 mm (8.27")
ADF (pages)   20
Document thickness   Single sheet: 0.05 mm to 0.13 mm (0.0019" to 0.0051")
                                                          43 g/m^2 to 100 g/m^2 (13 lbs to 28 lbs)
                                            Multi sheet: 0.06 mm to 0.10 mm (0.0024" to 0.0039")
                                                          45 g/m^2 to 80 g/m^2 (13 lbs to 20 lbs)

Gray scale   16 shades
Scanning speed   11 sec./A4

Document output
Printer type   Laser printer
Print resolution   300 dpi
Print speed   4 ppm
Warm up time   40 sec. (max.)
First print   30 sec. (max.)
Max. print width   208 mm (legal, letter) 207 mm (A4)
Paper type   Plain, cut sheet
                                            A4   : 210 mm (W) x 297 mm (L) or 8.27" x 11.69"
                                            Letter : 216 mm (W) x 279 mm (L) or 8.5" x 11"
                                            Legal   : 216 mm (W) x 355 mm (L) or 8.5" x 14"
                                            150 sheets (copy paper 80 g/m²)
                                            50 sheets (copy paper 80 g/m²)

PC interface (advanced model only)
RS-232C   Yes, 19.2 kbps, DIN connector

Physical data
Dimensions   305 mm (H) x 375 mm (W) x 343 mm (D) (12"(H) x 14.76" (W) x
                                                                                  13.5"(D))
Weight (main body only)   11 kgs (24 lbs)

Power requirement   North America: 120 VAC +/- 10%, 60 Hz +/- 2 Hz
                                            Europe: 220-240 VAC +/- 10%, 50 Hz +/- 2Hz

Engine sleep mode   3 minutes after printing

Power consumption   Stand-by   14.5W
                                            120V   350W (max.)
                                            220-240V   450W (max.)

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