Panasonic®
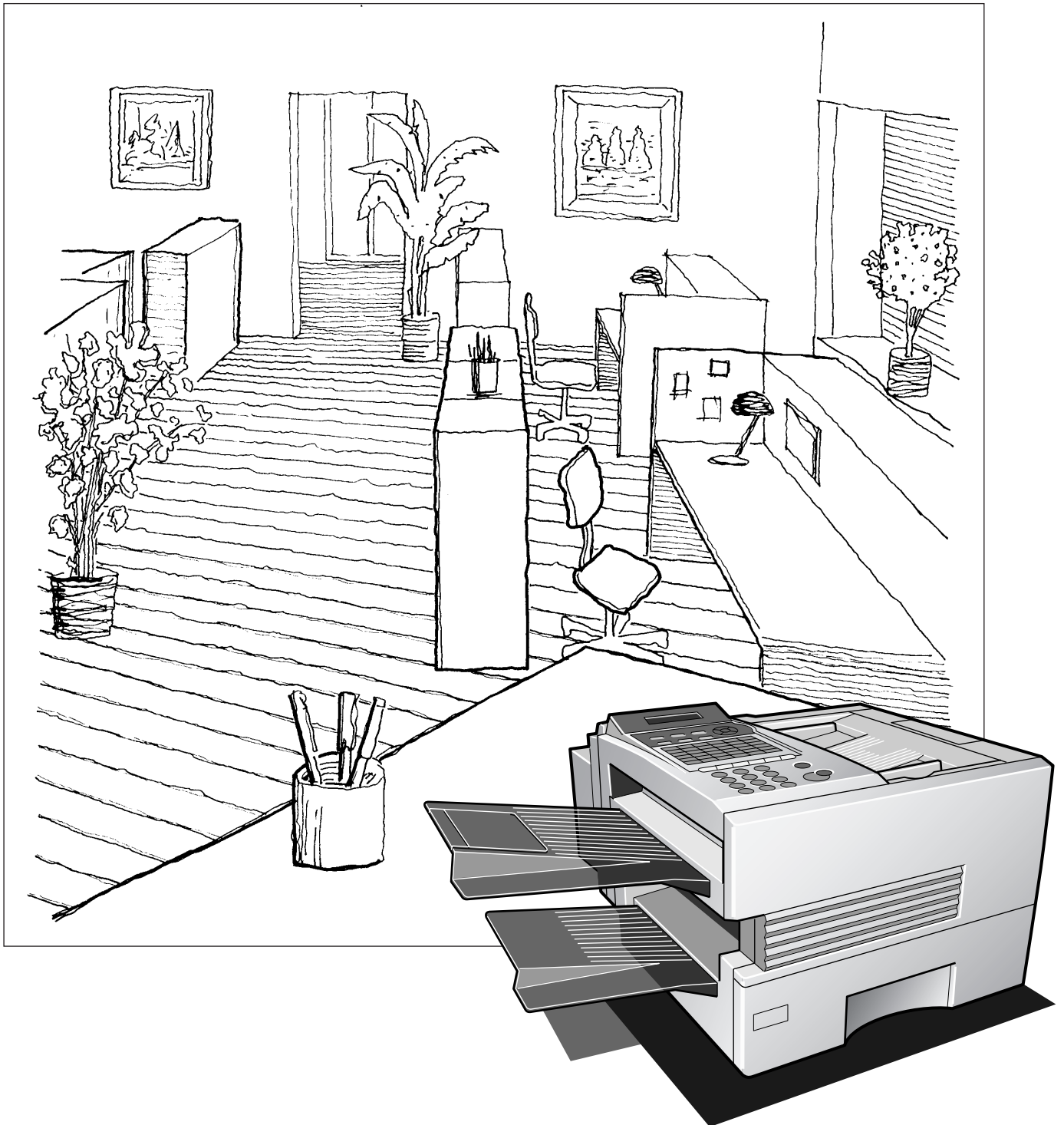
Facsimile

Panafax® DX-2000
User's Guide

IMPORTANT INFORMATION

When requesting information, supplies or service, always refer to the model and serial number of your machine. The model and serial number plate (Main Name Plate) is located on the machine as shown below. For your convenience, space is provided below to record information you may need in the future for reference or troubleshooting.

Model No._____ Serial_____

Date of Purchase _____

Dealer _____

Address _____

Telephone Number_____(   )_____−_____

Supplies Telephone Number_____(   )_____−_____

Service Telephone Number_____(   )_____−_____

For the total system to work properly via LAN, certain information and additional parameters must be set. Please contact your network administrator for the required information and connection to the LAN.

User Information		
Company Name:		
Address:		
Dept.:		
City:	State:	Zip Code:
Tel. No.:	Fax No.:	

Internet Parameters (See page 41 to 45)		
IP Address:		
Subnet Mask:		
SMTP Server Name:	or	SMTP Server IP Address:
Default Router IP Address:		
Email Address:		
DNS Server IP Address:		
POP Server Name:	or	POP Server IP Address:
POP User Name:		
POP Password: *(for security, do not write it in - but beep it in a safe place)*		
Host Name:		
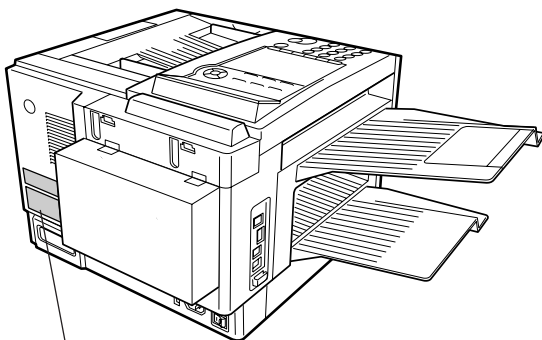
Model and Serial Number

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The contents of this User's Guide are subject to change without notice.

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►Safety Information

This product complies with the requirements of EC Council Directives 73/23/EEC amended by 93/68/EEC, and 89/336/EEC amended by 92/31/EEC, 93/68/EEC and 98/13/EC.
The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not of, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.
In the event of problems, you should contact your equipment supplier in the first instance.

⚠ WARNING   denotes a potential hazard that could result in serious injury or death.

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

- TO MINIMIZE THE POSSIBILITY OF SHOCK OR DAMAGE TO THE MACHINE, IT MUST BE PROPERLY GROUNDED.

- THIS PRODUCT CONTAINS HAZARDOUS RADIATION. IF YOU DO NOT FOLLOW THESE INSTRUCTIONS OR USE CONTROLS, MAKE ADJUSTMENTS OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, YOU MAY EXPOSE YOURSELF TO HAZARDOUS RADIATION.

- WHEN YOU OPERATE THIS EQUIPMENT, THE SOCKET-OUTLET SHOULD BE NEAR THE EQUIPMENT AND BE EASILY ACCESSIBLE.

- MAKE SURE THAT THE MACHINE IS INSTALLED IN A SPACIOUS OR WELL-VENTILATED ROOM SO AS NOT TO INCREASE THE AMOUNT OF OZONE IN THE AIR. SINCE OZONE IS HEAVIER THAN AIR, IT IS RECOMMENDED THAT AIR AT FLOOR LEVEL BE VENTILATED.

- PLUG POWER SUPPLY CORD INTO ORDINARY AC OUTLET BEFORE CONNECTING TELEPHONE LINE CORD. DISCONNECT TELEPHONE LINE CORD BEFORE UNPLUGGING POWER SUPPLY CORD FROM AC OUTLET.

- DISCONNECT THE EQUIPMENT IMMEDIATELY SHOULD IT EVER SUFFER PHYSICAL DAMAGE WHICH RESULTS IN THE INTERNAL PARTS BECOMING ACCESSIBLE IN NORMAL USE. IN THIS INSTANCE USERS SHOULD HAVE THE EQUIPMENT REPAIRED OR DISPOSE OF.

- IF THE POWER SUPPLY CORD AND/OR TELEPHONE LINE CORD OF THIS EQUIPMENT ARE DAMAGED, THEY MUST BE REPLACED BY THE SPECIAL CORDS SUPPLIED BY AN AUTHORIZED PANASONIC SERVICE CENTRE.

⚠ CAUTION   denotes hazards that could result in minor injury or damage to the machine.

- THIS PRODUCT CONTAINS A LITHIUM BATTERY. DANGER OF EXPLOSION IF BATTERY ISE OF USE INCORRECTLY REPLACED.
  REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS OF YOUR LOCAL SOLID WASTE OFFICIALS.

1 When you know that a thunderstorm is coming, we recommend that you:
  (1) Unplug the telephone line cord from the phone jack.
  (2) Turn off the power and unplug the power supply cord from AC outlet.

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

3 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 problem occur, the user is not to contact telecom (telephone company) faults service.

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For New Zealand Users

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates noendorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

This equipment is not capable, under all operating conditions, of correct operation at the higher speeds for which it is designed. Telecom will accept no responsibility should difficulties arise in such circumstances.

IMPORTANT NOTICE

Under power failure conditions, this telephone may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use in emergencies.

This equipment should not be used under any circumstances which may constitute a nuisance to other Telecom customers.

This equipment shall not be set to make automatic calls to the Telecom '111' Emergency Service.

Not all telephones will respond to incoming ringing when connected to the extension socket.

Manufacturer's Network Compatibility Declaration to the user

The products, Model DX-2000-** (** means country suffixes as table below.), are designed to comply with the requirements, *TBR21:1998 and EG201121 (V1.1.2): 1998*, and are designed to work with the Analogue Public Switched Telephone Networks under the scope of above requirements.

If it is desired to use the equipment on anther network, please contact the vender.

**	Country	**	Country	**	Country	**	Country
AA	Austria	AJ	Spain	AQ	Ireland	EE	Itary
AD	Denmark	AM	Switzerland	AR	Belgium	YG	Greece
AF	Finland	AN	Norway	AS	Sweden		
AH	The Netherlands	AP	Portugal	AV	France		

►Safety Information

⚠ **CAUTION** denotes hazards that could result in minor injury or damage to the machine.
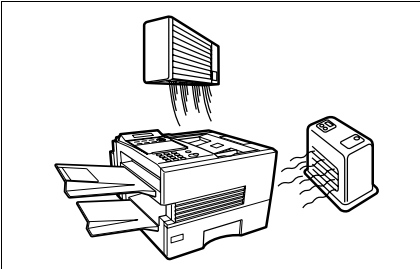
Do not install the machine near heating or an air conditioning unit.
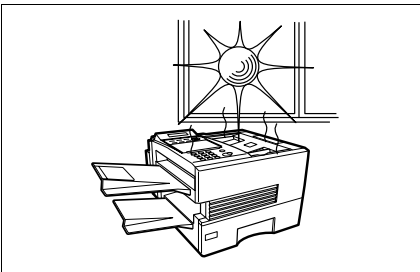
Avoid exposure to direct sunlight.
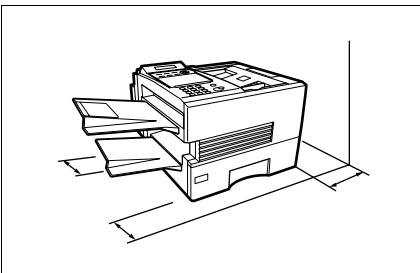
Install the machine on a flat surface, leave at least 10 cm of space between the machine and other objects.
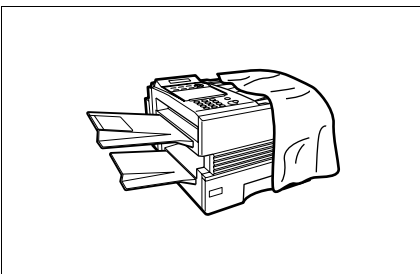
Do not block the ventilation openings.
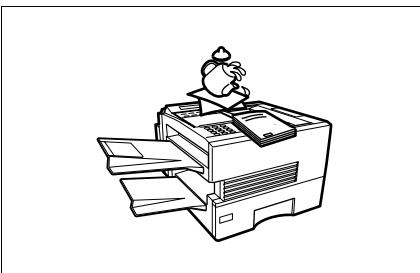
Do not place heavy objects or spill liquids on the machine.

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Thank you very much for purchasing the Panafax **DX-2000**.

The **DX-2000** is one of the most advanced models in the Panafax family of Super G3 compatible, desktop facsimile machines.

Some of its many features are

1. Plain Paper Printing	Plain paper printing means you can easily write on received documents with a pen or pencil. Documents do not curl, making filing easier. In addition, plain paper does not fade, making it ideal for long term storage of important documents.
2. Quick Scanning	The **DX-2000** Quick Scan speeds up the fax process by scanning and storing documents into memory in about 1.0* seconds per page. This means that you no longer have to wait around until a transmission is completed before retrieving your originals. *(* Standard Resolution, based on ITU-T Image No. 1 Test Chart, Scanning speed applies to the feeding process from the leading to the lagging edge of a single page test chart. Time for the storing process is not applied for this definition.)*
3. Quick Memory Transmission	Unlike conventional memory-based fax machines, the **DX-2000** dials as soon as the first page has been scanned. You can continue to scan additional pages while transmission is taking place. With simultaneous scanning and sending, you will save even more time.
4. Easy Maintenance	Maintenance requires only changing a toner cartridge, making it quicker and easier than with other types of plain paper fax machines.
5. Memory Function	A standard image memory feature allows you to store up to 120 standard pages into the document memory. After the **DX-2000** stores your documents, it can send them to selected station(s) automatically. You do not have to wait until the transmission ends before retrieving your originals.
6. Multi-Access Operation	A convenience feature on the **DX-2000** that allows the user to perform multiple operations simultaneously. For example, reserve the next transmission while the machine is sending or receiving documents from or into memory. The user can scan additional documents into memory or can receive during document storage.
7. Internet Communication	Connected to an Ethernet LAN (local area network), the **DX-2000** allows you to send documents over the Internet to a remote Internet Fax or a PC terminal. It also allows you to receive and print an email transmitted by a remote PC. Furthermore, the **DX-2000** is capable of performing email and fax forwarding functions. Execute relayed transmission requests, and can be used as a network scanner and printer.
8. Dual Port Communication	The **DX-2000**'s dual port capability, allows simultaneous G3 Fax Communication over regular telephone line (PSTN) and LAN Communication.

With a little practice, anyone can learn how to use the most popular features of the **DX-2000**.

This User's Guide will help you to use your **DX-2000** quickly and easily. The Table of Contents shows where to find information on each feature. Although we recommend that you review each section briefly, it will only be necessary to read the sections that contain the feature(s) you will be using.

▶Function Key

Any function can be started by first pressing $\boxed{\text{FUNCTION}}$ and then enter the function number, or by pressing $\boxed{\blacktriangledown}$ or $\boxed{\blacktriangle}$ scroll key repeatedly until the desired function appears on the display.

FUNCTION

(2) Relayed Transmission
(See Note)

(3) Polling

(6) Printout
1 = Journal (Print/View)
2 = One-Touch/Abbreviated/ Directory Search List
3 = Program List
4 = Fax Parameter List
5 = Not used
6 = Not used
7 = Directory Sheet

(7) Set Mode
1 = User Parameters
 • Date & Time
 • Logo
 • Character ID
 • ID Number (Fax Telephone Number)
 • Internet Parameters
2 = One-Touch/Abbreviated Numbers
3 = Program Keys
4 = Fax Parameters
5 = Not used
6 = Cleaning Printer Roller

(9) Edit File Mode
1 = File List (Print/View)
2 = Change Station
3 = Delete File
4 = Print File
5 = Not used
6 = Retry Incomplete File

⚠ *Note:*
 1. If Fax Parameter is not preset to a Valid position, which enables you to use the function, the display will not show the function.

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Handset
(Available as an option, see page 201)

ADF Door

Document Guides

Control Panel

Document Sub Tray

Printer Cover

Document Return Tray

Recording Paper Tray

500 sheets Recording
Paper Cassette
(Standard)

500 sheets Recording Paper Cassette
(Available as an option, see page 201)

250 sheets Recording Paper Cassette
(Available as an option, see page 201)
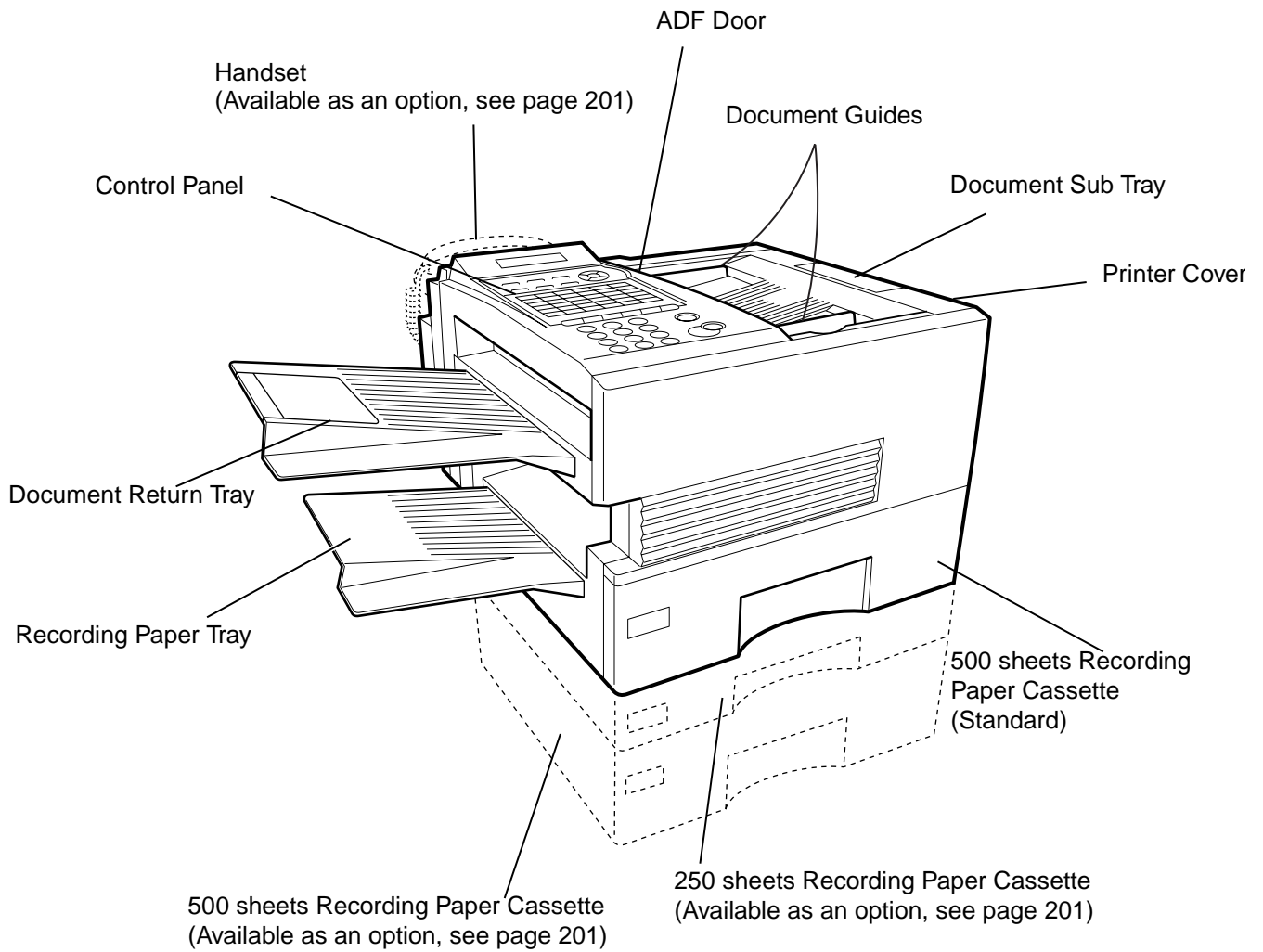
! *Note:*
1. For some countries, the handset may not be available because of the country's regulation or specification.

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►Control Panel

LCD Display
Indicates date and time, or the current operation.

☐ ON LINE	Blinks when the machine is transmitting a document or receiving.
☐ TONER	Blinks when the remaining toner is getting low and lights when the toner is running out. (See page 28)
☐ ALARM	Lights when trouble occurs. (See page 181)

One-Touch Keys (01-32)
Used for One-Touch Dialling.
(See page 94 and 99)

Program Keys (P1-P8)
Used to record long dialling procedures or Group Dialling Number keys.
(See page 119 to 124)

Character Keys
The One-Touch Keys and Program Keys also serve as character and symbol input keys which are used to record the Email address, your LOGO, character ID and station name. The character key template is printed on the panel under the directory sheet cover.

SPACE	Used to insert a space while entering LOGO, character ID and station name.
SYMBOLS	Used to enter a symbol (**, ' & ( ) : + / %**) for LOGO, character ID and station name. Use ▼ or ▲ to select the symbols.
CAPS	Used to switch between upper and lower character set.

Panasonic

☐ ON LINE   ☐ TONER   ☐ ALARM

☐ DARKER   ☐ 400 dpi   ☐ FAST
☐ LIGHTER   ☐ FINE   ☐ QUALITY
CONTRAST   RESOLUTION   HALFTONE

+   VOLUME   −

MEMORY   INTERNET   DIRECTRY SEARCH
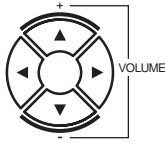
01 a	02 b	03 c	04 d	05 e	06 f
07 g	08 h	09 i	10 j	11 k	12 l
13 m	14 n	15 o	16 p	17 q	18 r
19 s	20 t	21 u	22 v	23 w	24 x
25 y	26 z	27 @	28 .	29 -	30 _
31	32	P1	P2	P3	P4
P5	P6 SPACE	P7 SYMBOLS	P8 CAPS	STAMP	MONITOR

PAUSE REDIAL   ABBR   SUB-ADDR FLASH   FUNCTION   CLEAR   SET

1 2 3   STOP
4 5 6
7 8 9   COPY
TONE ✱ 0 #   START

12
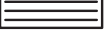
CONTRAST	Used to set Normal, Lighter, or Darker. (See page 79)
RESOLUTION	Used to set Standard, Fine and 400 dpi. (See page 79)
HALFTONE	Provides OFF, QUALITY or FAST settings for halftone documents. (See page 80)

VOLUME

Used for the following:
- Adjust the monitor and ringer volume. (See page 35)
- Move the cursor while entering numbers and characters.
- Search the station name for Directory Search Dialling.
- Confirm the entered station for multi-station communication.
- Select functions.
- Confirm the current communication modes (e.g. Page number, ID, Dialed Telephone number, File number) when the unit is ON LINE.

MEMORY	Used to select either memory or direct communication. (See page 91 to 101)
INTERNET	Used to select Internet communication. (See page 82)
DIRECTORY SEARCH	Used to search for a station name. (See page 85 and 96)

PAUSE REDIAL	Used to enter a pause when recording or dialling a telephone number, or to redial the last dialed number. (See page 106)
ABBR	Used to start Abbreviated Dialling. (See page 95 and 100)
SUB-ADDR FLASH	Used to separate the Sub-address from the telephone number when dialling, or to access some features of your PBX.
FUNCTION	Used to start or select the function and sub-functions. These functions are explained in detail on page 10.

CLEAR	Used to erase the previously entered input.
SET	Used to set operations.
STAMP	Used to turn the verification stamp ON or OFF. (See page 80)
MONITOR	Used to start On-Hook Dialling. (See page 103)

1	2	3
4	5	6
7	8	9
TONE ✳	0	#

Used for Manual Number Dialling, recording phone numbers, and selecting functions.

TONE ✳

Used to temporarily change the Dialling Mode to Tone when Pulse mode is set.

STOP

Used to cancel operations. When it is pressed, the machine will return to standby.

COPY

Used to make copies. (See page 117)

START

Used to start operations.

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▶Pre Installation Information

Before setting up the DX-2000 on your network, please read this entire section to be familiar with its functions.

The DX-2000 is able to perform the following when connected to a 10Base-T Ethernet LAN (local area network):

- Send paper-based information as an Internet Email.
- Receive and print an Internet Email automatically.
- Forward received G3 fax message or Email automatically to the preprogrammed Email address or regular G3 fax machine (see "Fax Forward" on pages 138).
- Route received G3 fax message automatically to the sender-specified Email address or G3 fax machine using ITU-T SUB-Address (see "Inbound Routing" on pages 130 to 134).
- Route received G3 fax messages automatically to the preprogrammed Email address or G3 fax machine using the sender's fax ID code (see "Inbound Routing" on pages 130 to 134).
- Relay an Internet Email to a G3 fax machine via regular fax transmission (see "Relay Transmission" on pages 155 to 167).
- Network scanning and printing.

To utilize the above functions, the DX-2000 needs to be set up properly on your network. ***Please contact your network administrator for actual network setup.***

Copy the Pre-installation Information form found at the end of this section on page 17, record the MAC Address on the form and ask your network administrator to complete the remaining information on the form. The MAC Address of your DX-2000 can be found on the 2nd page of the Fax Parameter List printout (press ⌷FUNCTION⌷ ⑥④⌷ SET ⌷).

The DX-2000 can be set up as either **SMTP mail server** or **POP3 client**. Dependent on the type of setup, different functions are available as follows.

Function	SMTP Server Setup	POP3 Client Setup
Sending paper-based information as an Internet Email	Yes	Yes
Receive and print an Internet Email automatically	Yes	Yes
Receive and print an Internet Email manually	No	Yes
Forward received G3 fax message or Email automatically	Yes	Yes
Route received G3 fax message automatically	Yes	Yes
Relay an Internet Email to G3 fax machine	Yes	No

⚠ *Note:*

1. *To function as SMTP mail server, the DX-2000's email address must include its unique Host name within your company domain. This unique Host name must be registered within your network's DNS (Domain Name System) server. Example: DX2000@fax01.panasonic.com*
2. *Automatically refers to immediate SMTP transfer or immediate POP3 retrieval. Manually refers to manual retrieval of mail when configured as POP3 client.*
3. *The DX-2000 will receive, print, forward or relay emails in text message format and TIFF-F image file attachment only.*
4. *Dynamic Host Configuration Protocol (DHCP) is not supported.*

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Setup as SMTP mail server

1

To install the DX-2000 as SMTP mail server, the following network parameters need to be programmed on your network and on the DX-2000.

- IP Address of the DNS Server (if not available, see Note)
- IP Address of the DX-2000
- Subnet Mask of the DX-2000
- Name or IP Address of the Default SMTP mail server
- IP Address of the Default Router
- Email Address of the DX-2000 (see Note)
- Host Name

Email Transmission (from the DX-2000 to a PC)
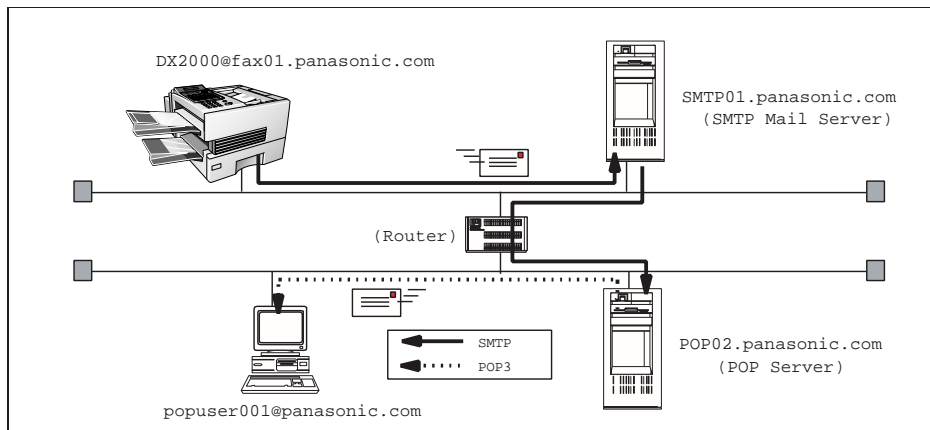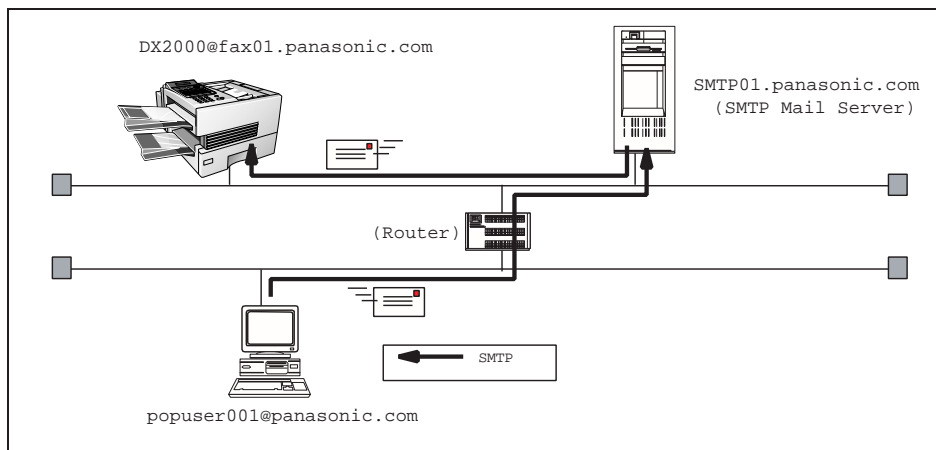
Email reception (from a PC to the DX-2000)

> ⚠ **Note:**
> 1. To function as SMTP mail server, the DX-2000's email address must include its unique Host name within your company domain. This unique Host name must be registered within your network's DNS (Domain Name System) server. Example: DX2000@fax01.panasonic.com
> 2. By default the machine requires the IP Address of the DNS Server and prompts you to enter the SMTP Server Name. If the DNS Server is not available, change the Fax Parameter No. 161 (DNS SERVER) to "1:Invalid". Then the machine will prompt you to enter the IP Address of the SMTP Server.
> 3. Dynamic Host Configuration Protocol (DHCP) is not supported.

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►Pre Installation Information

Setup as POP3 Client

To install the DX-2000 as POP3 Client, the following network parameters need to be programmed on your network.

- IP Address of the DNS Server (if not available, see Note)
- IP Address of the DX-2000
- Subnet Mask of the DX-2000
- Name or IP Address of the Default SMTP mail server
- IP Address of the Default Router
- POP Server Name or IP Address
- POP User Account Name
- POP Password
- Email Address of the DX-2000 (see Note)

Email transmission (from the DX-2000 to a PC)
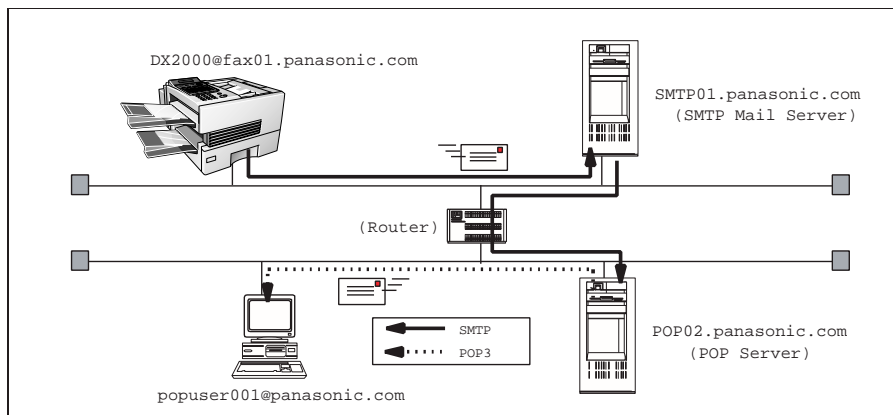
Email reception (from a PC to the DX-2000)
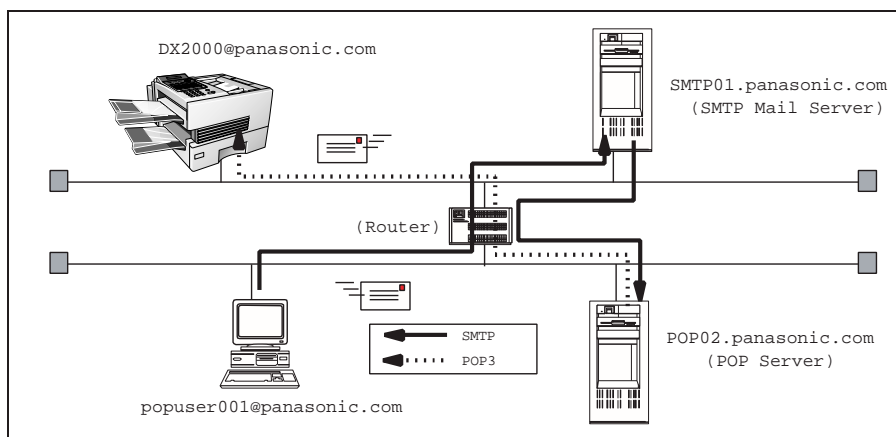
⚠ *Note:*

1. *The email address format can be the same as your regular email address. If your email address is popuser001@panasonic.com, the DX-2000's email address can be DX-2000@panasonic.com.*
2. *By default the machine requires the IP Address of the DNS Server and prompts you to enter the SMTP and POP Server Names. If the DNS Server is not available, change the Fax Parameter No. 161 (DNS SERVER) to "1:Invalid". Then the machine will prompt you to enter the IP Address of the SMTP and POP Servers.*

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For the total system to work properly via LAN, certain information and additional parameters must be set. Please contact your network administrator for the required information and connection to the LAN.

Important: Make a copy of this page and ask the Network Administrator to complete the required information. After its returned, transfer the information to the back side of the front cover for future reference and troubleshooting.

User Information		
Company Name		
Address		
Dept.		
City	State	Zip Code
Tel. No.	Fax No.	

Internet Parameters (See page 41 to 45)		
(1) **IP Address:**		
(2) **Subnet Mask:**		
(3) ***SMTP Server Name:**	or	***SMTP Server IP Address:**
(4) **Default Router IP Address:**		
(5) **Email Address:**		
(6) **DNS Server IP Address:**		
(7) **POP Server Name:**	or	***POP Server IP Address:**
(8) **POP User Name:**		
(9) **POP Password:**		
(10) **Host Name:**		
(11) Default Subject:		
(12) Default Domain:		
(13) Remote Password:		
(14) Relay XMT Password:		
(15) Manager's Email Address:		
(16) Acceptable Domain Name(s) for Relay Transmission:		
1.	6.	
2.	7.	
3.	8.	
4.	9.	
5.	10.	

! **Note:**

  1. Items in Bold, depict information obtained from you Network Administrator.
  2. By default the machine requires the IP Address of the DNS Server and prompts you to enter the SMTP and POP Server Names (items 3 and 7 above). If the DNS Server is not available, change the Fax Parameter No. 161 (DNS SERVER) to "1:Invalid". Then the machine will prompt you to enter the IP Address of the SMTP and POP Servers.
  3. If required, the MAC Address of the DX-2000 can be obtained from the 2nd page of the Fax Parameter List printout, by pressing FUNCTION ⑥ ④ SET .
  4. Dynamic Host Configuration Protocol (DHCP) is not supported.

Continued on the next page...

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►Pre Installation Information

Explanation of contents

	MAC Address	: *MAC Address from the 2nd page of the Fax Parameter List printout (press [FUNCTION][6][4][SET]).*
(1)	IP Address	: The Internet Protocol (IP) address assigned to your machine.
(2)	Subnet Mask	: The Subnet Mask number.
(3)	SMTP Server Name or SMTP Server IP Address	: The SMTP Server Name (up to 60 characters). The SMTP Server IP Address.
(4)	Default Router IP Address	: The Default Router's IP Address.
(5)	Email Address	: The email address assigned to your machine. (Up to 60 characters)
(6)	DNS Server IP Address	: The IP address of the DNS Server.
(7)	POP Server Name or POP Server IP Address	: The POP Server Name. (Up to 60 characters) The POP Server IP Address.
(8)	POP User Name	: POP User Name. (Up to 40 characters)
(9)	POP Password	: POP Password. (Up to 10 characters)
(10)	Host Name	: The name assigned to your DX-2000. (Up to 60 characters)
(11)	Default Subject	: The information to be added to the Subject Line for all outgoing emails. (Up to 40 characters)
(12)	Default Domain	: Specify the Domain Name (up to 50 characters) to be added to frequently used or incomplete outgoing email addresses (i.e. @yourcompany.com).
(13)	Remote Password	: Enter a security password (up to 10 characters) to allow Remote Programming of the Internet Parameters and the Auto Dialler and the retrieval of the Journal via email.
(14)	Relay XMT Password	: Enter a password to provide network security to your Relay Station (for G3 relay purposes). (Up to 10 characters)
(15)	Manager's Email Address	: Enter you Department Manager's email address for notification of all Internet relayed transmissions for supervision and cost control purposes. (Up to 60 characters)
(16)	Domain Name (01 to 10)	: Enter up to 10 Domain Names that are authorized to access your Internet Fax for Relayed Transmission Request. (Up to 30 characters)

! *Note:*
1. All IP Addresses consist of 4 parts separated by dots (i.e. 165.113.245.2).

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Internet Communication Features◄

Internet Fax Transmission

The DX-2000 allows you to transmit documents over the Internet to another Internet Fax or a PC. The document is first scanned and converted into a TIFF-F formatted image file, and then transmitted to the remote location as an attachment file to an email using MIME encoding.
The email system at the receiving end must support MIME. Otherwise, the attachment file will be detached and lost.
When you send an email message to someone, the DX-2000 uses Simple Mail Transfer Protocol (SMTP) to transfer your outgoing mail to your SMTP mail server, which in turn uses SMTP to send your mail to the Internet.

Internet Mail Reception

The DX-2000 allows you to receive and print a PC transmitted email automatically or manually, depending on its setup configuration. However, if the received email includes file attachment in a format other than TIFF-F, such as Word, Excel, Power Point, the DX-2000 prints an error message instead.

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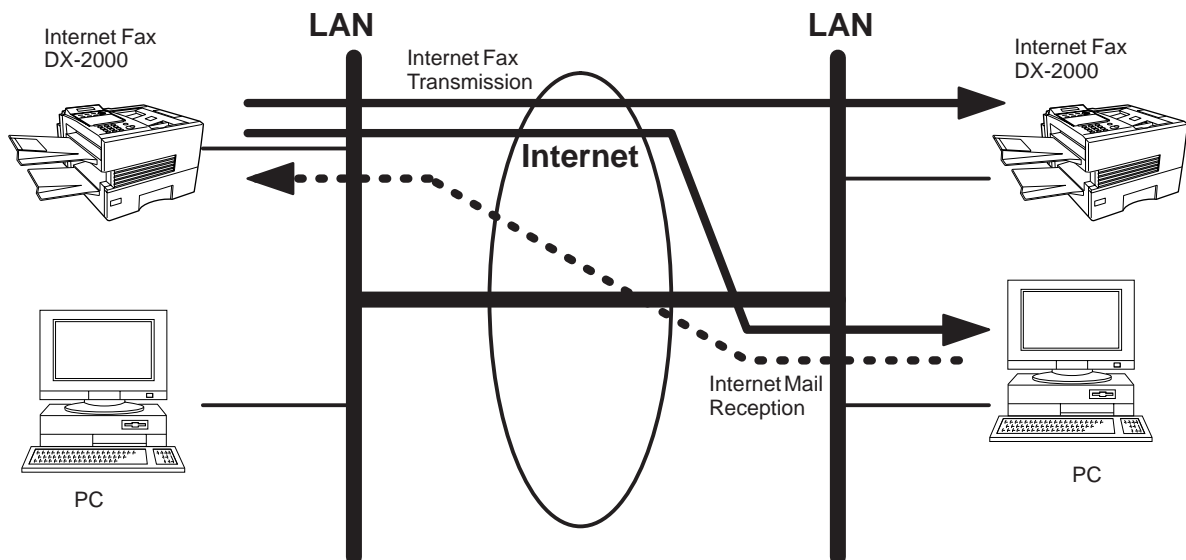
▶Internet Communication Features

Inbound Routing

Using the Inbound Routing feature, the DX-2000 can route documents received from a G3 fax machine to email address(s) or to Internet Fax machine(s) connected to a LAN as an email, as well as to other G3 fax machine(s) over the telephone line.

When an incoming Internet Fax, email or a regular fax document is received, the DX-2000, checks for the following:

1. First, the DX-2000 checks whether a sub-address is included. If it is, it will look for a sub-address match within its auto dialler and will route the documents to the corresponding stations email address(s) and/or telephone number(s).

2. If no sub-address is specified, then the DX-2000 tries to match the originating fax machine's Numeric ID (TSI) with the TSI routing within its auto dialler and will route the documents to the corresponding stations email address(s) and/or telephone number(s).

Internet Fax
DX-2000

LAN

Fax Reception

Email

Internet Fax
DX-2000

G3 Fax

Transfer to
a G3 Fax

PC

G3 Fax

⚠ **Note:**
1. If the originating fax machine does not support the above sub-address function, sub-address destination(s) cannot be selected.
2. The DX-2000 will allow you to register the same sub-address number for an email address and a telephone number.

20

Fax Forward

The DX-2000 is capable of transferring all received Internet email or regular G3 fax documents to a pre-programmed G3 fax or a PC destination.
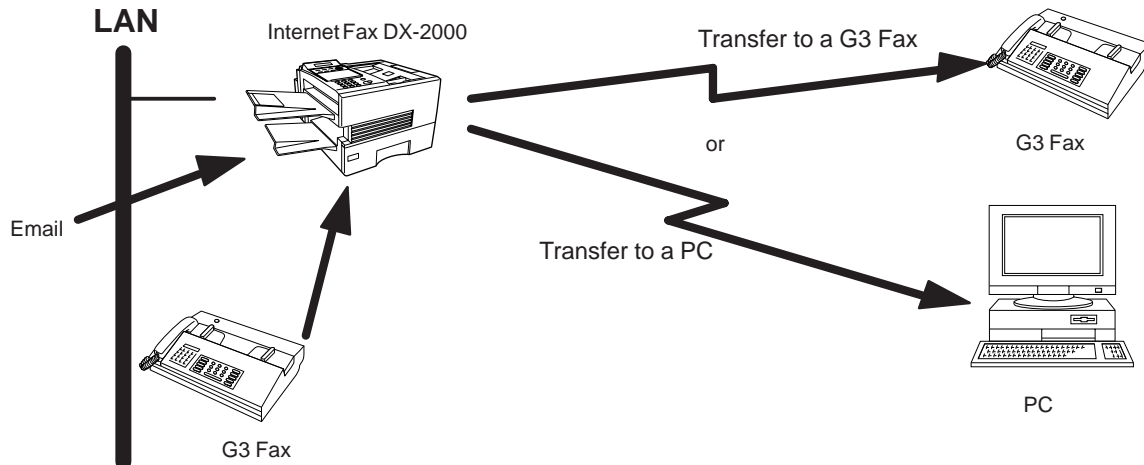
Network Scanner

The DX-2000 can be utilized as a network scanner by simply transmitting an image to a PC as TIFF-F attachment to an email.

This feature was enhanced with an addition of a new Fax Parameter No. 164 (IFAX XMT HEADER), giving you a selection of whether to include the header when sending a document to an addressee in the same Domain as specified in the Default Domain parameter. (See Note 1)
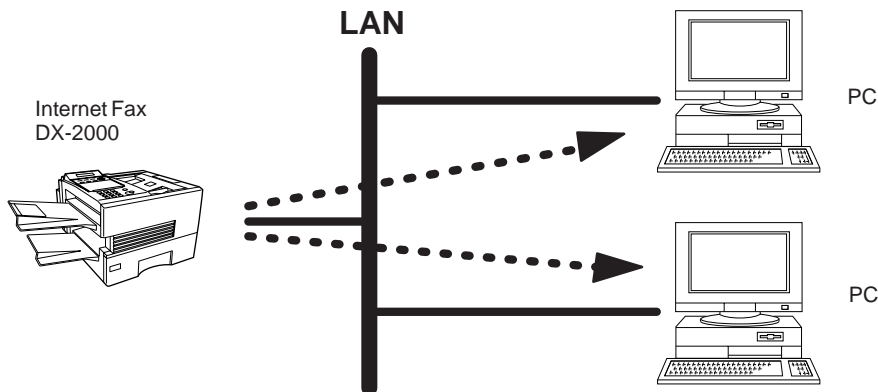
! *Note:*

1. When sending to a Domain other than as specified in the Default Domain parameter, the header will be included regardless of the selection.

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▶Internet Communication Features

Network Printer

The DX-2000 can be utilized as a network printer by simply sending the documents created on your PC using various software applications to the DX-2000 via TCP/IP protocol.

There a two parts to setting up the DX-2000 as a network printer. Part 1 requires you to download the software (printer driver and LPR) from the web site listed below.

The second part requires you to install and configure the software on your PC to work with the DX-2000. (See the web site for details about the printer driver installation and operation.)

You can download the Panasonic's printer driver and LPR monitor from any of the following URL addresses:
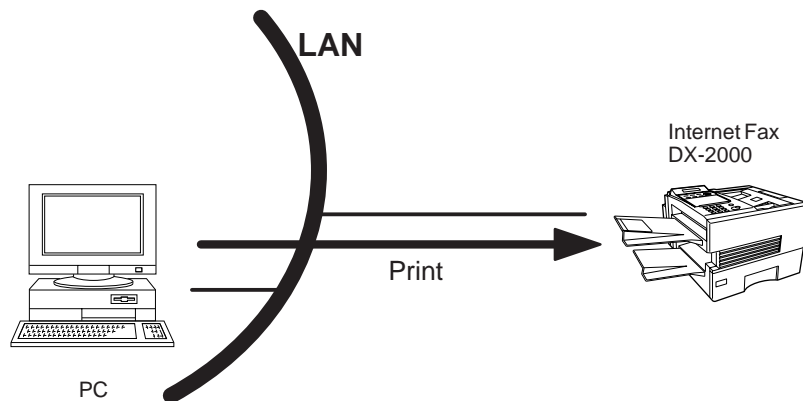
http://www.panasonic.co.jp/mgcs/internetfax/

http://www.panasonic.com/internetfax

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Relayed Transmission

The DX-2000 allows you to transmit an email received from an Internet Fax or PC connected to the LAN to multiple fax machines via a telephone line. You can attach files with the TIFF-F format to this email.

Using the Sub-address specified by the originating fax machine, the DX-2000 can then route the received documents to the remote DX-2000 via an email, which can then relay these documents to final destinations where the final recipient is a regular G3 fax machine.

The DX-2000 also allows you to convert a data file from various application programs such as spreadsheet into a TIFF-F format file and then transmit this file attached to an email.

To convert applications into a TIFF-F formatted file, however, requires you to first download the software (printer driver) from the web site listed below. The second part requires you to install the software on your PC. (See the web site for details about the printer driver installation and operation.)

You can download the Panasonic's printer driver from any of the following URL addresses:

http://www.panasonic.co.jp/mgcs/internetfax/

http://www.panasonic.com/internetfax

23
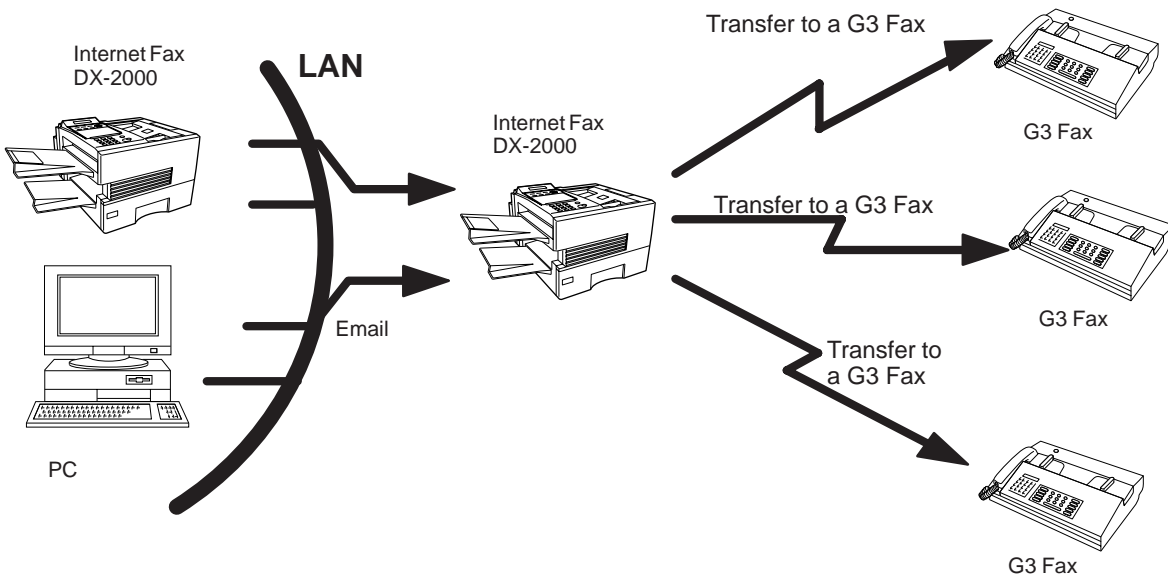
►Important Information

The DX-2000 uses the same communication protocols as email: the Simple Mail Transfer Protocol (SMTP). The differences from a standard G3 fax communication using the Public Telephone Network (PSTN) are as follows.

Differences between Internet Fax and Regular Fax

A regular Fax machine goes off-hook, dials, and the phone network completes a circuit over phone lines to the receiving fax. You pay for the circuit. The two faxes negotiate a connection, synchronize and exchange image data.

The Internet Fax works like an email, the image data is broken down into packets and transmitted through your Local Area Network (LAN) to the Internet or Intranet instead of using a telephone company's network, thus saving you long distance costs.

Transmitted Document Confirmation

1. The DX-2000 does not directly connect to the final destination, but rather connects to a Mail Server via LAN. Therefore, if a document cannot be correctly transmitted due to an error, the erroneous mail may be returned from the Mail Server to the DX-2000.

2. The erroneous mail may take a long time to return (20 to 30 minutes) depending on the destination location, traffic on the network or LAN system configuration.

3. Depending on the Mail Server, it is also possible that erroneous mail is not returned at all. Therefore, when transmitting important or time sensitive documents, it is recommended that you follow up with a telephone call to confirm reception.

4. Documents cannot be transmitted correctly if the destination Mail Server does not conform to the MIME protocol. Erroneous mail may not be returned depending on the Mail Server.

DX-2000 Cannot Make a Phone Call via LAN

The DX-2000 can only make a phone call using a regular telephone line (PSTN).

Dual Port Communication

The DX-2000's dual port capability, allows simultaneous G3 Fax Communication over regular telephone line (PSTN) and LAN Communication.

Transmission Resolution

In view of PC transmission, the factory default setting for the resolution is set to FINE mode. If required, this setting can be changed to Normal.

Internet Mail Reception

1. The DX-2000 can receive text email from a PC and print ANSI characters. It will print a "■" symbol if an unrecognized character is received.

2. Received email font and character size are fixed and cannot be changed.

3. Text email will be printed at about 72 lines per page. It is recommended that you use A4/Letter size recording paper.

4. If the received text email includes a file attachment in a format other than TIFF-F, such as Word, Excel, Power Point, the DX-2000 prints an error message instead.
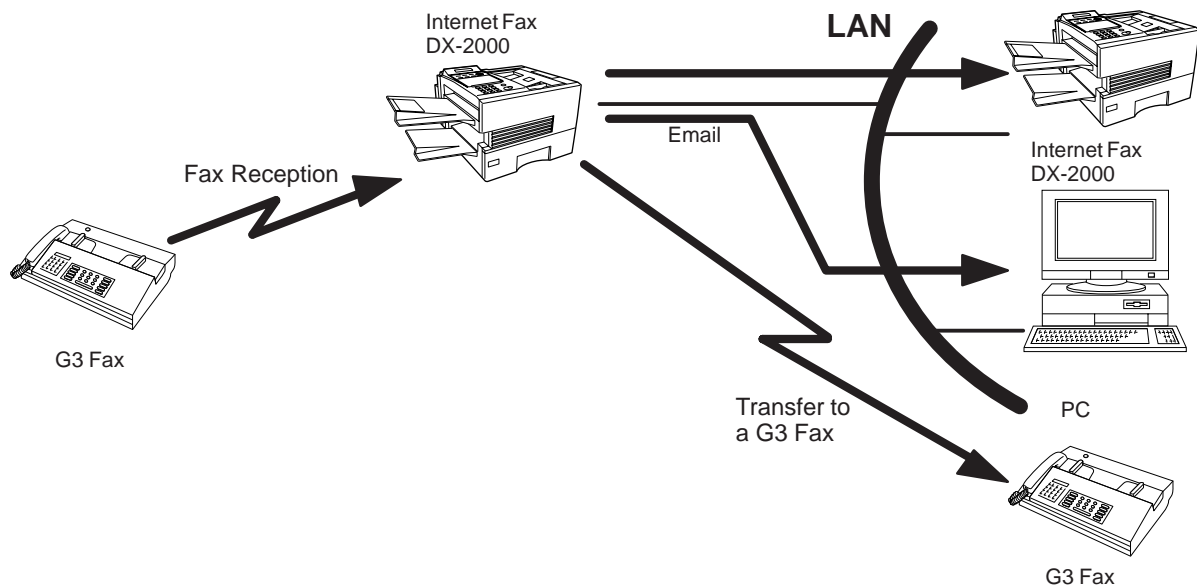
5. If the received email includes attached TIFF-F formatted image files, the text and TIFF-F formatted image file will be printed on separate pages.

1

Sending Document Size via LAN

When transmitting via LAN, the transmitter is incapable of identifying the receiver's recording paper size capability, and thus it will not reduce the document size. Therefore, when transmitting via LAN, it is recommended that you use only A4/Letter size documents. If a B4 size document is transmitted and the receiver is only able to print A4 size, the communication will fail when the Fax Parameter No. 141 (LAN XMT REDUCTION) is set to "1:Invalid". (See page 74.)

Sending a Document to a PC via LAN

When transmitting a document to an email address, the following instructions are sent as text message in addition to the TIFF-F formatted image file.

An Image data in TIFF-F format has been attached to this email. You can download the TIFF-F Image Viewer from the following URL addresses:

http://www.panasonic.co.jp/mgcs/internetfax/

http://www.panasonic.com/internetfax/

Internet Relayed Transmission

To prevent unauthorized stations from accessing your Relay Station for Internet Relayed Transmission, you must set up your Network security. Enter a Relay Station Name, which is concealed from the final destinations and a Manager's Email Address for notification of all Internet Relayed Transmissions.

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▶Main Unit and Accessories

Unpack the carton and check that you have all the illustrated accessories.

Machine	Toner Cartridge	Document Return Tray
Recording Paper Tray	Telephone Line Cable	Power Cord
User's Guide / Quick Guide	Paper Size Label	Lithium Battery and Holder
LAN Cable		

2
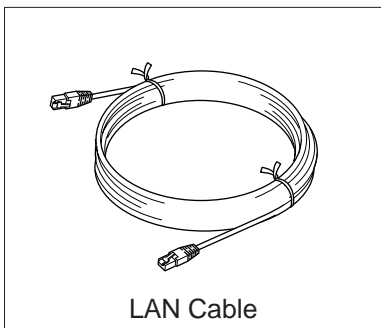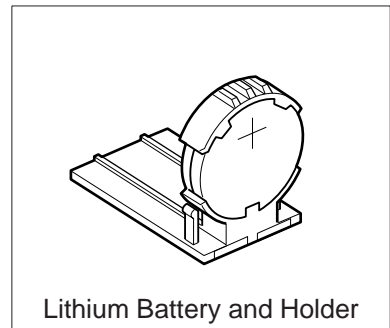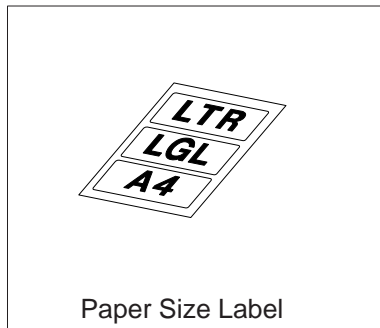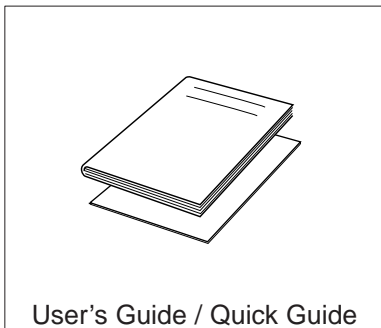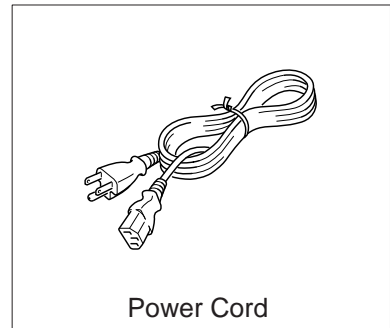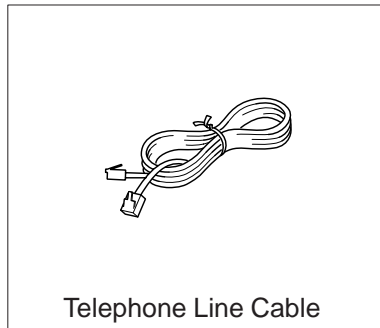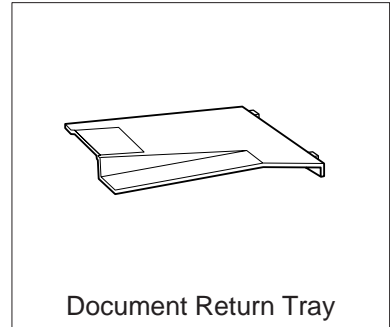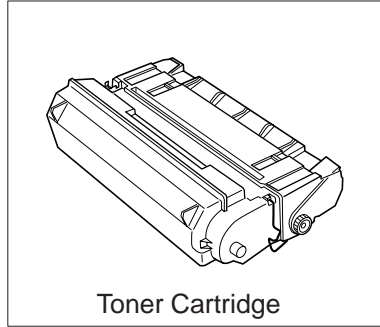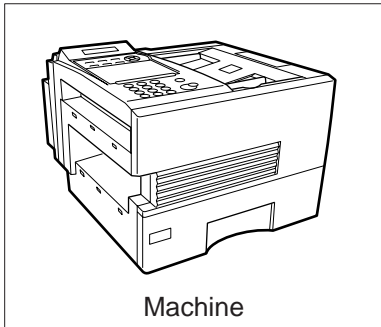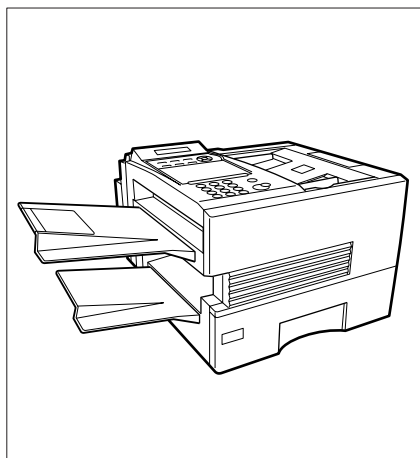
Installing the Lithium Battery
(This battery is used to backup the clock during power failures, see page 194.)

(1) Open the ADF Door.

(2) Install the Battery Holder, slide it to the Left until it latches and close the ADF Door.

ADF Door

Final Installed View
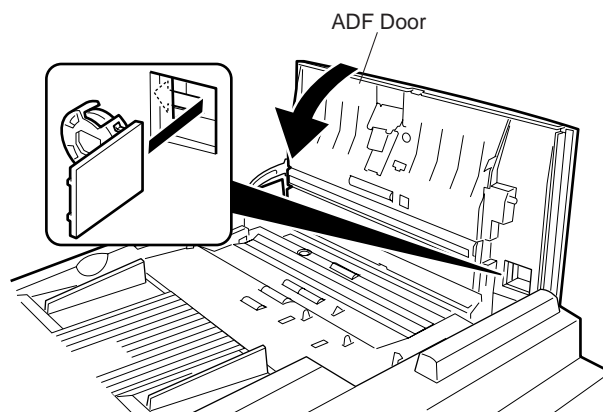
Handset Cradle [*Available as an Option*]
Hook the projections into the square holes on the machine.
Connect the cable into the HANDSET jack on the machine.

Document Return and Recording Paper Trays
Hook the projections into the square holes on the machine.
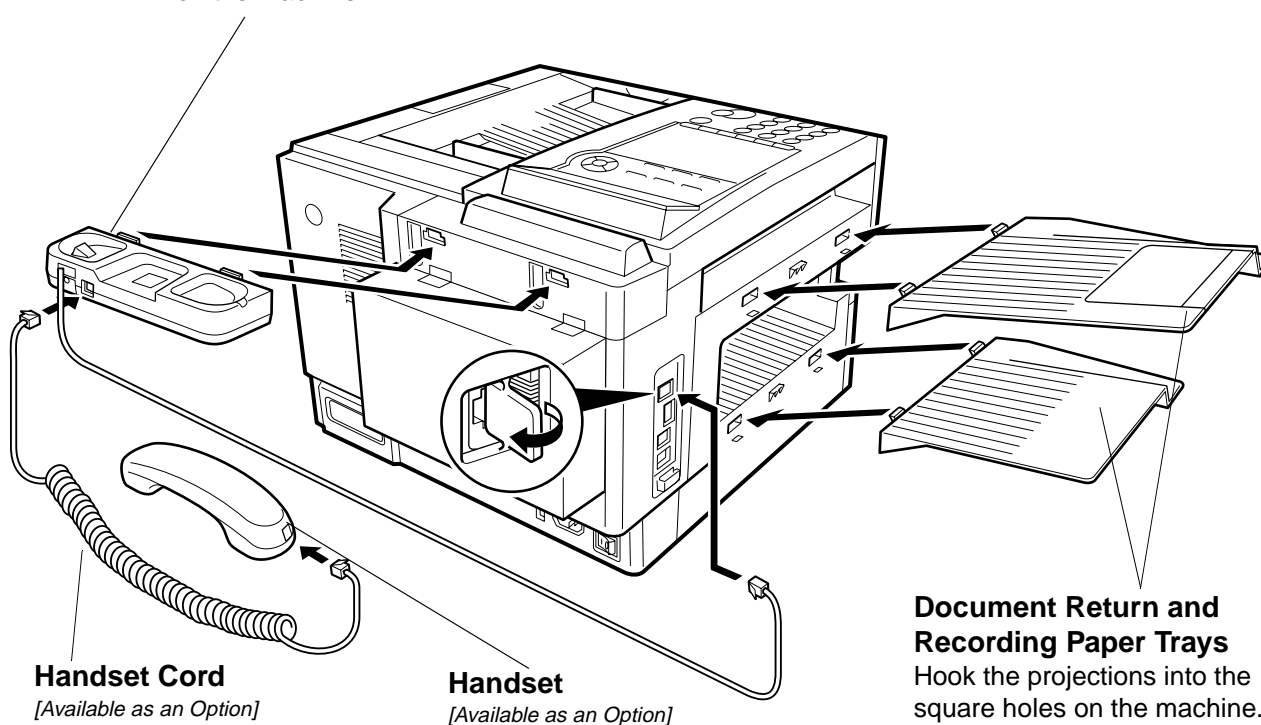
Handset Cord
[*Available as an Option*]

Handset
[*Available as an Option*]

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▶Installing the Toner Cartridge

1
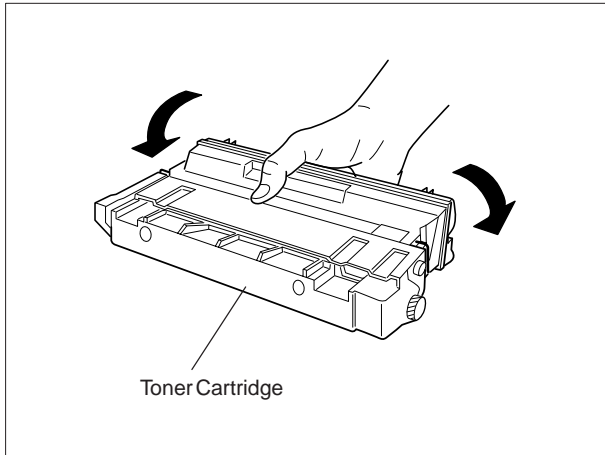
Unpack the Toner Cartridge and rock it back and forth as shown for 5 or 6 times to even the toner inside.

Toner Cartridge

2
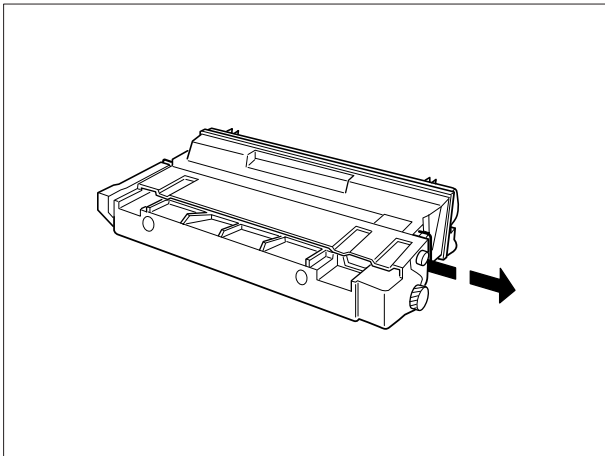
Remove the protective seal.

Note: Pull on the seal slowly and straight out.

3
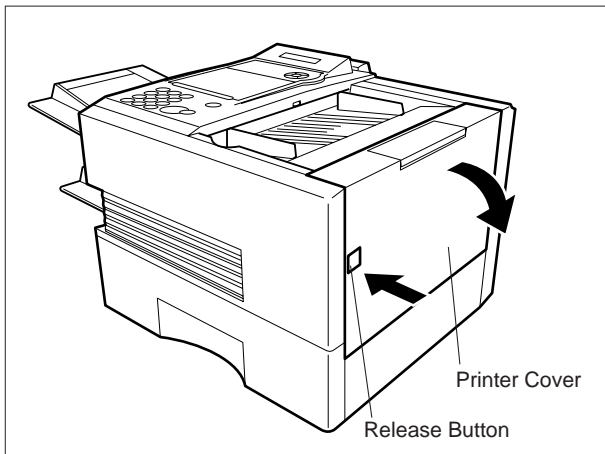
Push the Release Button to open the Printer Cover.

Printer Cover

Release Button

28

4
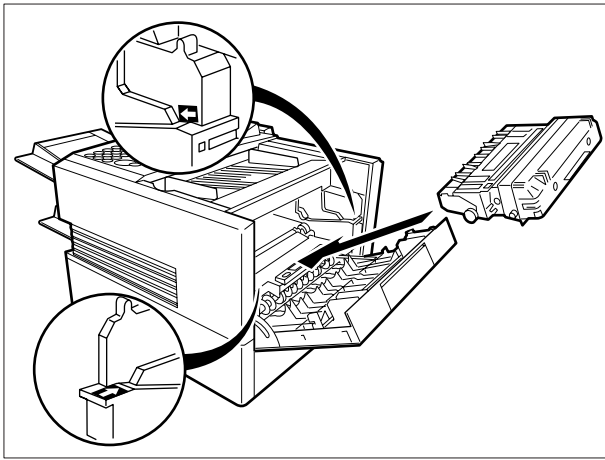
Align the arrow and the projection on both sides as shown and insert the Toner Cartridge into the machine.

5
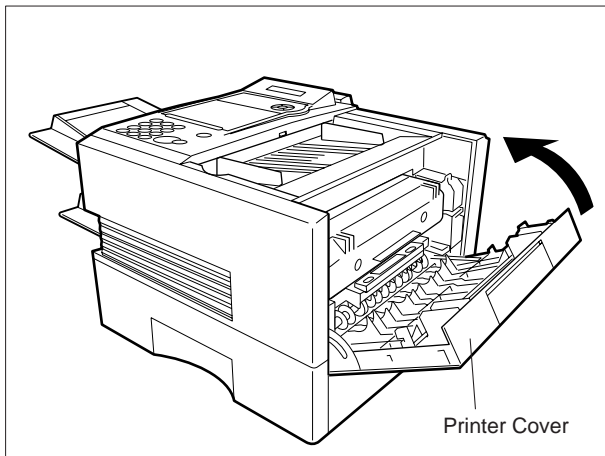
Printer Cover

Close the Printer Cover firmly.

6 If you are replacing the Toner Cartridge, it is recommended to clean the Printer Roller to maintain good printing quality. To clean the Printer Roller, follow the procedure on page 191.

◤Loading the Recording Paper

Paper Specifications

In general, most bond papers will produce excellent results. Most photocopy papers will also work very well. There are many "name" and "generic" brands of paper available. We recommend that you test various papers until you obtain the results you are looking for.   For detailed recommended paper specifications, see page 200.

How to Load the Recording Paper

1
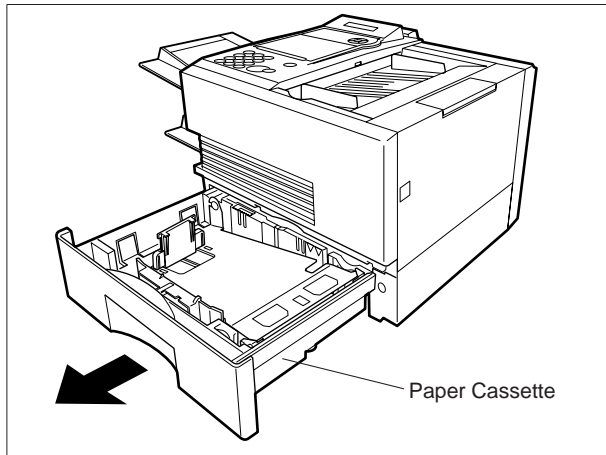
Paper Cassette

Slide out the Paper Cassette from the machine.

2
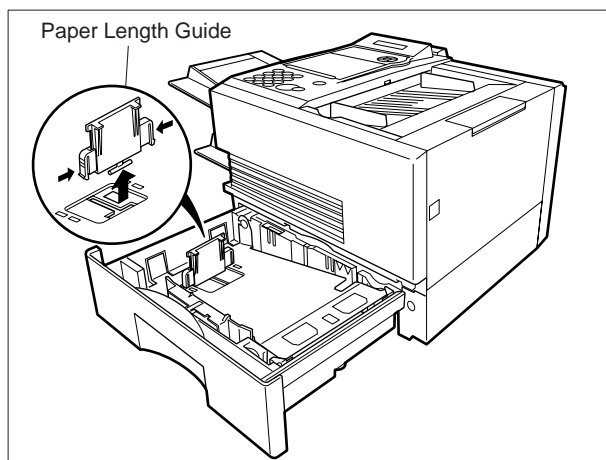
Paper Length Guide

Adjust the Paper Length Guide to the proper paper size (A4, LTR, or LGL).
For LGL size paper, remove the Paper Length Guide and store it in the provided slot in the front left side of the Paper Cassette.
If reloading the same size of paper, skip the step 2 and 3.

3

Paper Width Clip
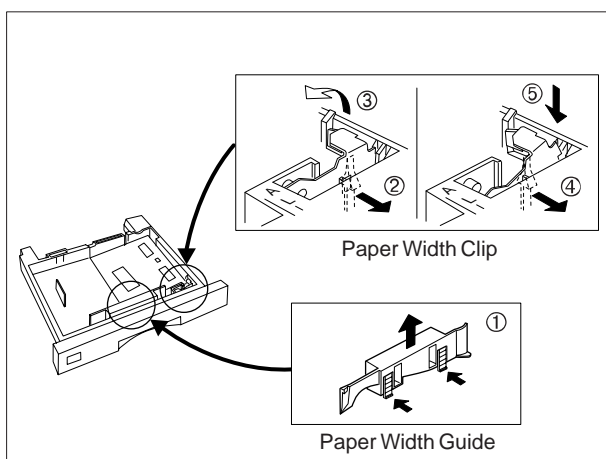
Paper Width Guide

Adjust the Paper Width Guide and Clip to the proper paper (A4, or LTR/LGL).
The factory default for the Paper Width Guide and Clip are on A4 or LTR/LGL position. For another paper size, adjust by following the steps below.
(1) Replace the Paper Width Guide into the proper slot (A4 or LTR/LGL).
(2) Release the Paper Width Clip latch.
(3) Pull upwards to remove the Paper Width Clip.
(4) Replace the Paper Width Clip into the A(A4) or L(LTR/LGL) slot.
(5) Push down on the Paper Width Clip to latch it in place.

30

4
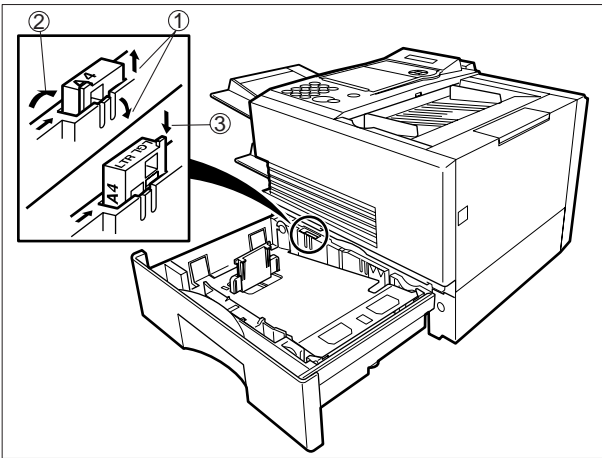
(1) Release the hook and remove the Paper Size Selector.
(2) Rotate the Paper Size Selector until the appropriate setting marked on the Selector is facing upward and the wording is upright.
(3) Reinstall the Paper Size Selector.

5

Clip
Clip
Clip
① ② Recording Paper ③
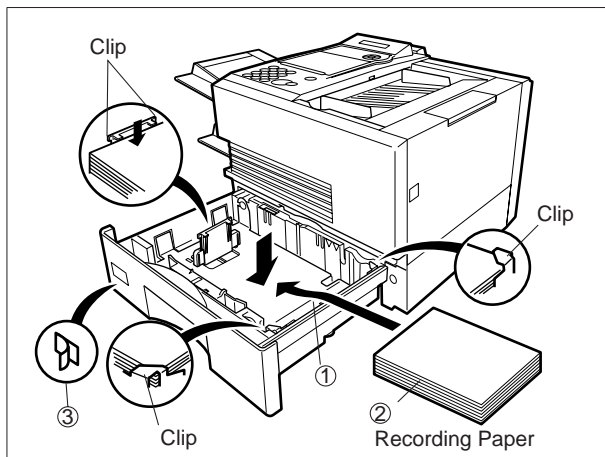
(1) Push the Pressure Plate until it is locked down.
(2) Load the paper into the Paper Cassette.

   Caution: Make sure that the paper is set under the clips of the Paper Cassette. You can load about 500 sheets with standard weight paper (20 lb. or 75 g/m^2). For paper specification see page 200.
(3) Set the proper paper size label.

6
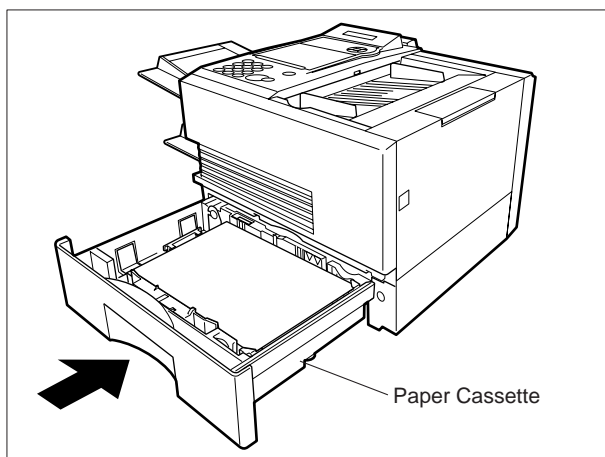
Paper Cassette

Slide the Paper Cassette into the machine.

! *Note:*

   1. Your machine will properly print on A4, Letter and Legal size paper only. If other size of paper (B4, B5, A5) is used, your machine may not print properly.

▶Connecting the Telephone Line Cables and Power Cord

10Base-T Ethernet Hub

Ethernet LAN (10Base-T) Cable
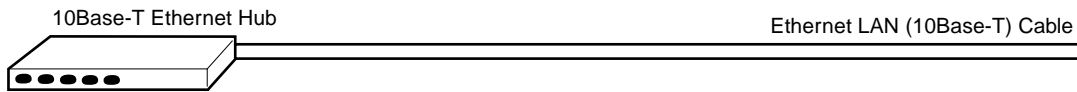
■ **Power Cord**
Plug one end of the power cord into an ordinary AC outlet and the other end into the receptacle on the rear of the machine.

Warning : This apparatus must be properly grounded through an ordinary AC outlet.

Power Cord (Included)
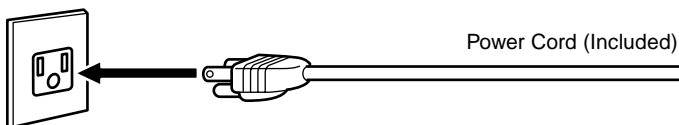
■ **Telephone Line Cable**
Plug one end of the telephone line cable into the telephone jack supplied by the telephone company and the other end into the LINE jack on the left side of the machine.

Telephone Jack

Telephone Line Cable (Included)
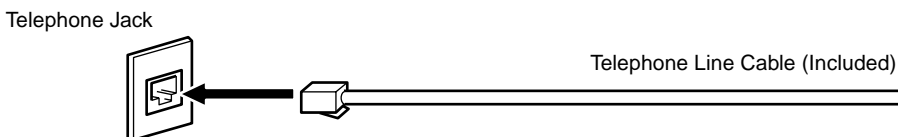
! **Note:**
1. Your machine uses little power and you should keep it ON at all times.

32

Connecting the Telephone Line Cables and Power Cord◄

■ **Power Switch**
After connecting all cables and Power Cord, turn the power switch ON.

⚠ *Note:*

Attach the cables to the Hook to prevent recording paper jam.
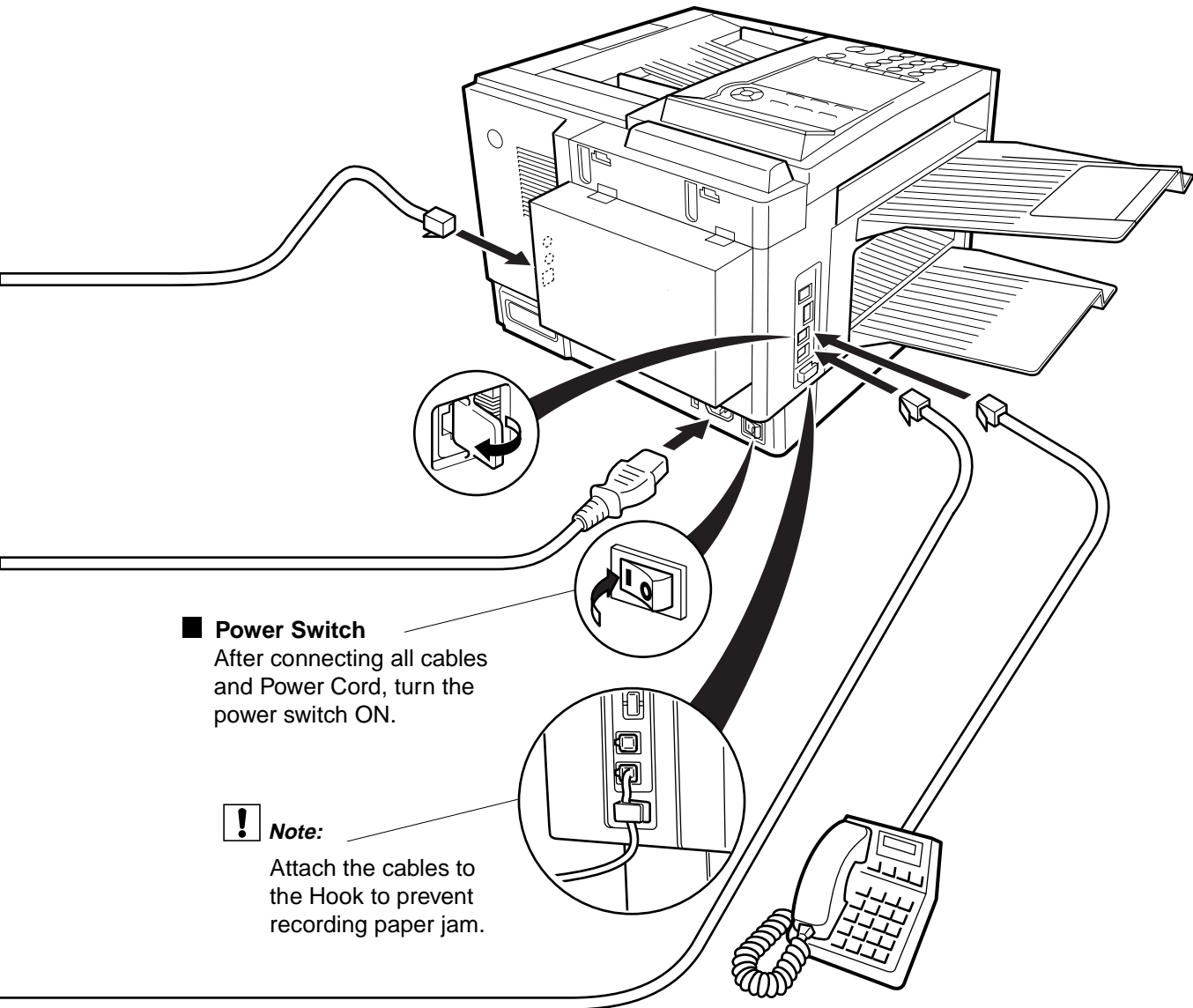
▶Setting the Dialling Method (Tone or Pulse)

Your machine can operate with either of two dialling methods (Tone or Pulse), depending on the type of telephone line you are connected to. If you need to change the dialling method to Tone or Pulse, follow the procedure below.

1 FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 4 SET

```
FAX PARAMETER(1-164)
       NO.=▮
```

3 0 0 6 SET

```
06 DIALLING METHOD
 2:TONE
```

4 1 for "PULSE".

```
06 DIALLING METHOD
 1:PULSE
```

or

2 for "TONE".

or

```
06 DIALLING METHOD
 2:TONE
```

5 SET STOP

⚠ **Note:**
   1. For some countries, this feature is not available depending on the country's regulation.
      The display may not show this feature.

34

You can adjust the monitor and ringer volume on your machine. The built-in speaker enables you to hear the dial tone, dialling signals, and busy tone. The ringer sounds when your machine receives a call.

Setting the Monitor Volume

1 MONITOR

```
* MONITOR *
■
```
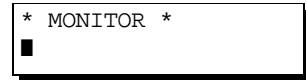
You will hear the dial tone through the speaker.

2 VOLUME

repeatedly to raise the volume.

```
MONITOR VOLUME
LOW  ■■■■■■■■  HIGH
```

or

VOLUME

repeatedly to lower the volume.

```
MONITOR VOLUME
LOW              HIGH
```

3 MONITOR
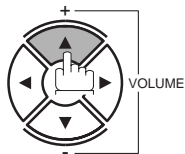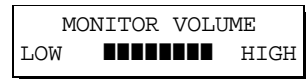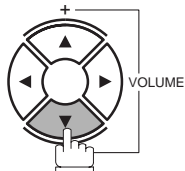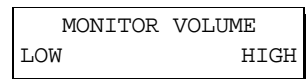
Setting the Ringer Volume

1 Standby

```
12-DEC-1999 15:00
               00%
```

2 VOLUME

repeatedly to raise the volume.

```
RINGER VOLUME
 (((( ☎ ))))
```

or

VOLUME

repeatedly to lower the volume.

```
RINGER VOLUME
      ☎
```

3 STOP
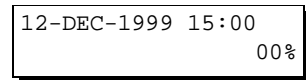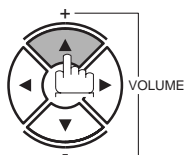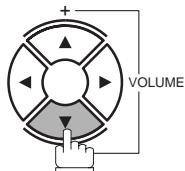
⚠ **Note:**
1. *You can also adjust the volume of the key touch tone and the volume of the buzzer in the Fax Parameter No. 010 (KEY/BUZZER VOLUME). (See page 72)*

35

►User Parameters

Your facsimile machine has several basic settings (User Parameters) to help you keep records of the documents you send or receive. For example, the built-in clock keeps the current date and time, and your LOGO and ID Number help to identify you when you send or receive documents.

Setting the Date and Time

At standby the display will show the date and time. Once the standby display is set, it will automatically be updated.

1 FUNCTION ⑦

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 ①

```
1:USER PARAMETERS?
PRESS SET TO SELECT
```

3 SET
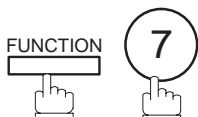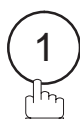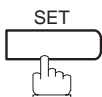
```
DATE & TIME
 ■1-01-1999 00:00
```

4 Enter the new date and time.

Ex: ① ②   Date   : 12th
   ① ②   Month   : December
   ① ⑨ ⑨ ⑨ Year   : 1999
   ① ⑤ ⓪ ⓪ Time   : 3:00 PM

```
DATE & TIME
 12-12-1999 15:00
```

If you make a mistake, use ◄ or ► to move the cursor beyond the incorrect character, press CLEAR then re-enter the new character.

5 SET STOP

36
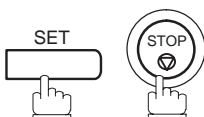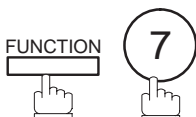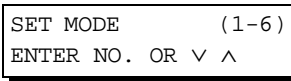
Setting Your Time Difference

The Time Zone is required as part of the E-mail header information when sending Internet faxes. To set up your Time Zone in the machine, please follow the steps below:

2

1 FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 1

```
1:USER PARAMETERS?
PRESS SET TO SELECT
```

3 SET repeatedly until display shows

```
TIME ZONE
          GMT ▮:
```
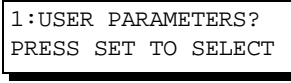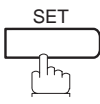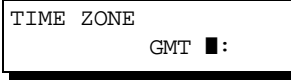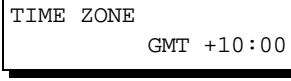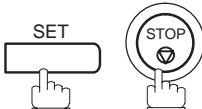
4 Enter the Time Difference between -12:00 to +12:00.

Press ✳ to switch between +/-.

```
TIME ZONE
          GMT +10:00
```

Ex: +01:00

5 SET STOP

Example of Time Difference:

+00:00 – UK
+01:00 – Germany
+08:00 – Hong Kong
+10:00 – Australia

! *Note:*
1. GMT stands for Greenwich Mean Time.

37

▶User Parameters

Setting Your LOGO

When you send a document, your LOGO appears on the top of the copy printed out at the other station.

The LOGO helps to identify you to someone who receives your document.

1 FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 1

```
1:USER PARAMETERS?
PRESS SET TO SELECT
```

3 SET repeatedly until display shows;
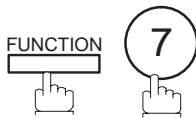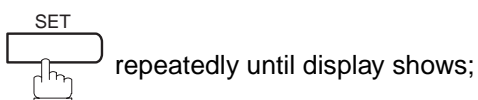
```
LOGO
■
```

4 Enter your LOGO (max. 25 characters and digits) by using the Character keys (see page 12).

Ex: P P8   CAPS a n a s o n i c

```
LOGO
Panasonic■
```

If you make a mistake, use ◀ or ▶ to move the cursor beyond the incorrect character, press CLEAR then re-enter the new character.
If more than 19 characters are entered, the left side characters will scroll off the display. (See Note 2)

5 SET STOP
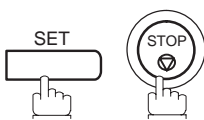
! Note:
  1. To switch between upper and lower character set, press P8   CAPS key.

38

Setting Your Character ID

If the remote machine has a Character ID capabilities, when you are sending or receiving, your Character ID will appear on the remote machine's display and the remote machine's Character ID will appear on your display.

1 FUNCTION 7
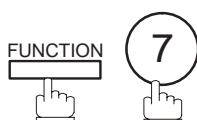
```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 1

```
1:USER PARAMETERS?
PRESS SET TO SELECT
```
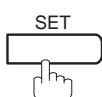
3 SET repeatedly until display shows;

```
CHARACTER ID
■
```

4 Enter your Character ID (max. 16 characters and digits) by using the Character keys (see page 12).

Ex: H E A D SPACE O F F I C E

If you make a mistake, use ◀ or ▶ to move the cursor beyond the incorrect character, press CLEAR then re-enter the new character.

```
CHARACTER ID
HEAD OFFICE■
```

5 SET STOP
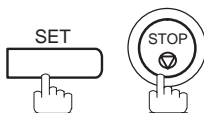
⚠ **Note:**
    1. The special characters of Å, Ä, Ö, Ü, Æ, è and é cannot be used for Character ID.
    2. To switch between upper and lower character set, press P8   CAPS key.

39

▶User Parameters

Setting Your ID Number (Fax Telephone Number)

If the remote machine does not have a Character ID but it has an ID Number, when sending or receiving, your ID Number will appear on the remote machine's display and their ID Number will appear on your display.

We suggest you use your facsimile telephone number as your ID number (max. 20 digits).

1 FUNCTION (7)

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 (1)

```
1:USER PARAMETERS?
PRESS SET TO SELECT
```

3 SET repeatedly until display shows;
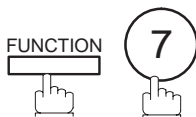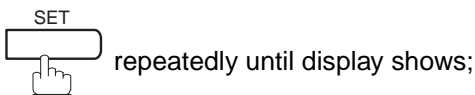
```
ID NO.
■
```

4 Enter your ID (max. 20 digits) by using the key pad and SPACE.

Ex: (2) (0) (1) SPACE (5) (5) (5)
SPACE (1) (2) (1) (2)

```
ID NO.
201 555 1212■
```

If you make a mistake, use ◀ or ▶ to move the cursor beyond the incorrect character, press CLEAR then re-enter the new character.

5 SET (STOP)
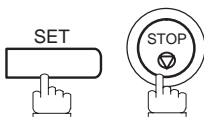
⚠ **Note:**
1. You may use TONE to enter a "+" character at the beginning of the ID number to indicate the following digit(s) for your country code.
   Ex : +1 201 555 1212   +1 for U.S.A. country code.
   +81 3 111 2345   +81 for Japan country code.
2. To enter a space, press P6   SPACE.
3. For some countries, this feature is not available depending on the country's regulation. The display may not show this feature.

40
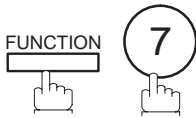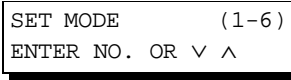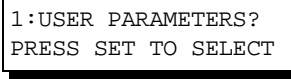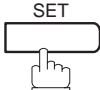
Setting the parameters for the LAN Interface
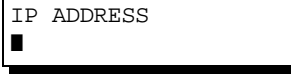
Depending on how the DX-2000 will be configured to communicate on the LAN, the appropriate parameters listed in the table below must be stored first. (See pages 14 to 18)

2
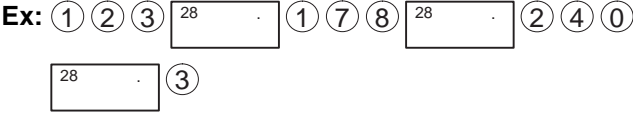
|	Parameter	Comments
1	DATE & TIME	Current Date and Time. (See page 36)
2	LOGO	Up to 25 characters & digits. (See page 38)
3	CHARACTER ID	Up to 16 characters & digits. (See page 39)
4	ID NO.	Your Fax Telephone Number. (Up to 20 digits, see page 40)
5	MAC ADDRESS	Hardware Address hard-coded into the DX-2000. (If required, can be obtained from the 2nd page of the Fax Parameter List printout, by pressing [FUNCTION][6][4][SET])
6*	IP ADDRESS	IP Address assigned to your DX-2000.
7*	SUBNET MASK	Subnet Mask assigned by the Network Administrator.
8*	SMTP SERVER NAME	The name of the SMTP Mail Server. (Up to 60 characters)
8*	SMTP SERVER IP ADDR	IP Address of the SMTP Mail Server.
9*	DEF. ROUTER IP ADDR	IP Address of your Default Router.
10*	EMAIL ADDRESS	The Email Address assigned to your DX-2000 for sending and receiving. (Up to 60 characters)
11*	DNS SERVER IP ADDRESS	IP Address of the DNS Server.
12*	POP SERVER NAME	Name of the POP Mail Server.
12*	POP SERVER IP ADDR	IP Address of the POP Mail Server.
13*	POP USER NAME	User Name assigned to your DX-2000. (Up to 40 characters)
14*	POP PASSWORD	Password assigned to your DX-2000. (Up to 10 characters)
15*	HOST NAME	The Host Name assigned to your DX-2000. (Up to 60 characters)
16	DEFAULT SUBJECT	The default information to be added to the Subject Line for all outgoing email (up to 40 characters). To manually input this information before transmission, change the Fax Parameter No. 159 (SUBJECT LINE ENTRY) to "2:Valid".
17	DEFAULT DOMAIN	When the outgoing email address is incomplete by SMTP standards, the Frequently Sent Domain specified here will be automatically added to the email address. This feature is also useful as a shortcut when manually entering email addresses to a frequently used Domain. (Up to 50 characters)
18	REMOTE PASSWORD	This is a security password that allows Remote Programming of the Internet Parameters and the Auto Dialler and the retrieval of the Journal via an Email. (Up to 10 characters)
19	RELAY XMT PASSWORD	A password that provides Network security for your Relay Station (used exclusively for G3 relay purposes). (Up to 10 characters)
20	MANAGER'S EMAIL ADDR	Department Manager's Email Address for notification of all Internet relayed transmissions for supervision and cost control purposes. (Up to 60 characters)
21	DOMAIN NAME (01)	Enter the Domain Name(s) that have been authorized to access your Internet Fax for Relayed XMT Request. (Up to 30 characters)
22	DOMAIN NAME (02)	
23	DOMAIN NAME (03)	
24	DOMAIN NAME (04)	
25	DOMAIN NAME (05)	
26	DOMAIN NAME (06)	
27	DOMAIN NAME (07)	
28	DOMAIN NAME (08)	
29	DOMAIN NAME (09)	
30	DOMAIN NAME (10)	
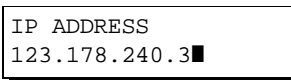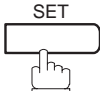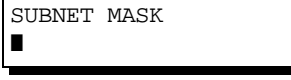
* Contact your Network Administrator for this Information.

►Setting the Internet Parameters

1

FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2

1

```
1:USER PARAMETERS?
PRESS SET TO SELECT
```

3
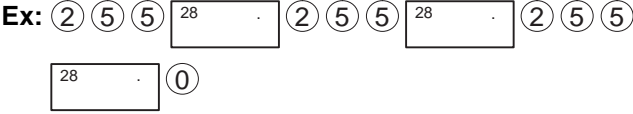
SET   repeatedly until display shows;

```
IP ADDRESS
■
```
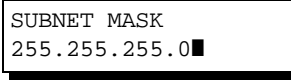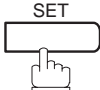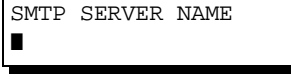
4

Enter the IP Address using the keypad. Press [28 .] for the period ".".

```
IP ADDRESS
123.178.240.3■
```

Ex: ① ② ③ [28 .] ① ⑦ ⑧ [28 .] ② ④ ⓪
[28 .] ③

5

SET

```
SUBNET MASK
■
```
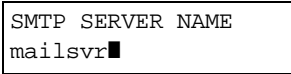
Enter the Subnet Mask using the keypad. Press [28 .] for the period ".".

Ex: ② ⑤ ⑤ [28 .] ② ⑤ ⑤ [28 .] ② ⑤ ⑤
[28 .] ⓪

```
SUBNET MASK
255.255.255.0■
```

6

SET

```
SMTP SERVER NAME
■
```

Enter the SMTP Server Name using the Character Key (up to 60 characters). (See Note 3)

Ex: m a i l s v r

```
SMTP SERVER NAME
mailsvr■
```

42

2

7 SET

```
DEF. ROUTER IP ADDR
■
```
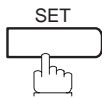
Enter the Default Router IP Address using the keypad.
Press ⌷28   .⌷ for the period ".".

Ex: ① ② ③ ⌷28 .⌷ ① ⑦ ⑧ ⌷28 .⌷ ② ④ ⓪
⌷28 .⌷ ②

```
DEF. ROUTER IP ADDR
123.178.240.2■
```

8 SET
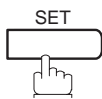
```
EMAIL ADDRESS
■
```

Enter the Email Address using Character keys (up to 60
characters).

Ex: ⌷a⌷ ⌷b⌷ ⌷c⌷ ⌷27 @⌷ ⌷p⌷ ⌷a⌷ ⌷n⌷ ⌷a⌷ ⌷s⌷ ⌷o⌷ ⌷n⌷ ⌷i⌷ ⌷c⌷
⌷28 .⌷ ⌷c⌷ ⌷o⌷ ⌷m⌷

```
EMAIL ADDRESS
abc@panasonic.com■
```

9 SET

```
DNS SERVER IP ADDR
■
```
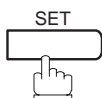
Enter DNS Server IP Address using the keypad. Press
⌷28   .⌷ to enter the period ".".

Ex: ① ③ ③ ⌷28 .⌷ ① ⑧ ⑤ ⌷28 .⌷ ② ④ ⑦
⌷28 .⌷ ④ ⑤

```
DNS SERVER IP ADDR
133.185.247.45■
```

10 SET

```
POP SERVER NAME
■
```
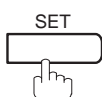
Enter the POP Server Name using the Character Key (up to
60 characters). (See Note 3)

Ex: ⌷m⌷ ⌷a⌷ ⌷i⌷ ⌷l⌷ ⌷s⌷ ⌷v⌷ ⌷r⌷

```
POP SERVER NAME
mailsvr■
```

11 SET

```
POP USER NAME
■
```
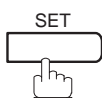
Enter the POP User Name (up to 40 characters).
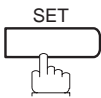
Ex: ⌷a⌷ ⌷b⌷ ⌷c⌷ ⌷d⌷ ⌷e⌷ ⌷f⌷ ⌷g⌷ ① ② ③

```
POP USER NAME
abcdefg123■
```

Continued on the next page...

43

12 SET
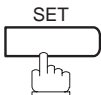
Enter the POP Password (up to10 characters).

Ex: e f g h i k 1 2 4

```
POP PASSWORD
■
```

```
POP PASSWORD
efghik124■
```

13 SET
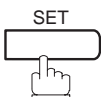
Enter the Host Name (up to 60 characters).

Ex: f a x 0 0

```
HOST NAME
■
```

```
HOST NAME
fax00■
```

14 SET
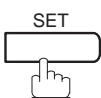
Enter the Default Subject (up to 40 characters).

Ex: I N T E R N E T SPACE M A I L SPACE A B C

```
DEFAULT SUBJECT
■
```

```
DEFAULT SUBJECT
INTERNET MAIL ABC■
```

15 SET
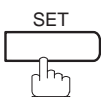
Enter the Default Domain (up to 50 characters).

Ex: P a n a s o n i c 28 . c o m

```
DEFAULT DOMAIN
■
```

```
DEFAULT DOMAIN
panasonic.com■
```

16 SET
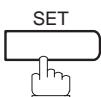
Enter the Remote Password (up to 10 characters).

Ex: a b c d e f g h i j

```
REMOTE PASSWORD
■
```

```
REMOTE PASSWORD
abcdefghij■
```

17 SET

Enter your Relay XMT Password if applicable (up to 10 characters). (See page 45)
To return to standby, press STOP .

```
RELAY XMT PASSWORD
■
```

! *Note:*

1. Use ◀ or ▶ to move the cursor beyond the incorrect character, press CLEAR *then re-enter the new character.*

2. You can search for the User Parameters by pressing ▼ or ▲.

3. If the DNS Server is not available, change the setting of the Fax Parameter No. 161 (DNS Server) to "Invalid", then enter the IP Address instead.

44

Setting the Internet Relay Station

To use the Internet Relayed Transmission, you must first store the following parameters into your machine.

1 FUNCTION (7)

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 (1)

```
1:USER PARAMETERS?
PRESS SET TO SELECT
```

3 SET repeatedly until display shows:
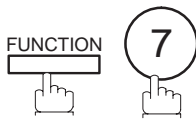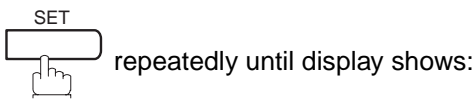
```
RELAY XMT PASSWORD
■
```

4 Enter the Relayed Transmission Password using the Character keys (up to 10 characters).

Ex: n e w y o r k

```
RELAY XMT PASSWORD
newyork■
```

5 SET

```
MANAGERS EMAIL ADDR
■
```
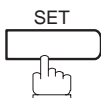
Enter the Manager's Email Address using the Character keys (up to 60 characters).

Ex: m g r ²⁷ @ p a n a s o n i c

²⁸ . c o m

```
MANAGERS EMAIL ADDR
mgr@panasonic.com■
```

6 SET

```
DOMAIN NAME (01)
■
```

7 SET
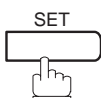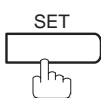
```
DOMAIN NAME (02)
■
```

You can now set additional Domain Names by repeating the procedures from Steps 8 to 9, or return to standby by pressing STOP.

! *Note:*

1. *Use ◄ or ► to move the cursor beyond the incorrect character, press* CLEAR *then re-enter the new character.*
2. *You can search for the User Parameters by pressing ▼ or ▲.*
3. *Register up to 10 Domain Names that are authorized to use your DX-2000 for Relayed XMT Requests. (If the Domain Name fields are left blank, anyone can access your machine for Relayed XMT)*

►Programming or Retrieving Parameters via Email

Using Email to Program or Retrieve Parameters

This feature is a powerful tool, which provides a convenient and easy way of retrieving or programming Internet Parameters, One-Touch, ABBR Dialling Numbers, Program keys and Journal retrieval from your PC by sending a text email message to the DX-2000.

Using your email application's "Subject:" line as a command-input field, you can request the DX-2000 to perform the following commands:

	"Subject:" line command	Function
1	#set parameters(password)#	Programs the Internet Parameters
2	#get parameters(password)#	Retrieves the Internet Parameters
3	#set abbr(password)#	Programs the Auto Dialler
4	#get abbr(password)#	Retrieves the Auto Dialler Data
5	#get jnl (password)#	Retrieves the current Journal data

Where: "set" is used to program the data
"get" is used to retrieve the data
"parameters" represents Internet Parameters
"abbr" represents Auto Dialler
"jnl" represents Journal
"password" is the Remote Password programmed in the DX-2000's User Parameters
(i.e. 123456789). Must be enclosed within the parenthesis "( )".
The command must be enclosed within the hash (#) signs.

Using a PC to Input the Internet Parameters Remotely

This feature provides a convenient and an easy way to input the Internet Parameters right from your PC by sending a text email message to the DX-2000.

The following parameters can be input remotely via a PC. The other parameters must be entered from the machine in the User Parameters (see page 41).

- Sender Selection (up to 24 User Names, see page 125)
- Domain Name (up to 10 authorized Domain Names, see page 41)
- Default Domain
- Manager's Email Address
- Relay XMT Password
- Remote Password

The DX-2000 interprets the command that you enter in the "Subject" line of your email message and performs one of the following functions, it Retrieves or Stores data into the Internet Parameters (User Parameters).
The two types of commands that can be entered in the "Subject" line of your email:

1) To Store data, type : **#set parameters(password)#** : where the password is the Remote Password programmed in the DX-2000's User Parameters (i.e. 123456789).
You can enter the Internet Parameters shown above with this command the first time. However, if these fields already contain data, do not use this command as the existing information will be deleted and overwritten. Use the Retrieve command below instead, refer to pages 47 to 52.

2) To Retrieve data, type : **#get parameters(123456789)#**

! **Note:**
1. To activate this feature, change the Fax Parameter No. 158 (PC REMOTE UPDATE) to "2:Valid". (See page 76)

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To Input the Internet Parameters for the First Time

Create a script in the message body of a plain text email and send it to the DX-2000's email address. The "Subject" line of the email must be as follows:

2

#set parameters(password)#:	where the password is the Remote Password programmed in the DX-2000's User Parameters. For security, always input a Remote Password in the User Parameters. [If it was not programmed, signify with "()" (i.e. #set parameters()#) and assign one now].
Important:	Do not use the above command if these fields already contain data, the existing information will be deleted and overwritten. Retrieve and backup the existing data onto your PC first by following the procedures for Retrieving and Editing the Internet Parameters on pages 47 to 52.

The script sample to input the Internet Parameters is shown below.
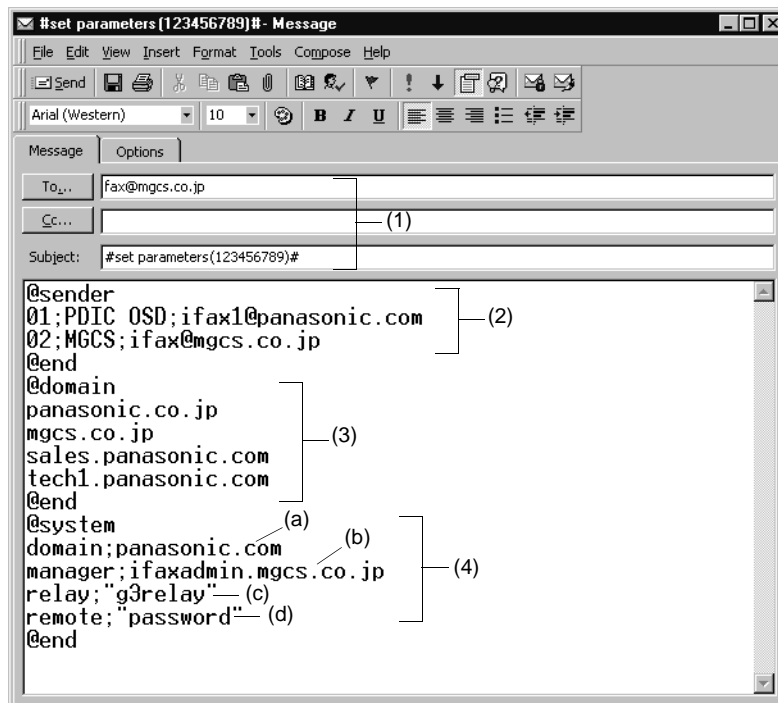
▶Programming or Retrieving Parameters via Email

(1) To	:	The DX-2000's email address
From	:	This field is normally not visible when creating new email message(s). It is your default email address (email application), for retrieving the Internet Parameters and for error message notification. (Can be programmed with the configuration tool of your email program.)
Subject	:	To Store data, type: #set parameters(password)#
(2) @sender to @end	:	Defines the Sender information to be set in section (2) between @sender to @end block. Register up to 24 User Names and their Email Addresses for the Sender Selection feature (See page 125). Separate each data field with a semicolon (;). (If the remaining fields are to remain blank, insert a semicolon (;) for each blank field) The data string for each Sender Selection should be defined within a single line. The syntax is: <Sender Selection Number>;<User Name>;<Email Address>
		(a) 01 to 24: Indicates the Sender Selection Numbers (b) User Name (25-characters maximum) (c) Email Address (60-characters maximum)
(3) @domain to @end	:	Defines the Domain Names to be set in section (3) between @domain to @end block. Register up to 10 the Domain Names that have been authorized to access your Internet Fax for Relayed XMT Request. (30-characters maximum)
(4) @system to @end	:	Defines the Internet Parameters to be set in section (4) between @system to @end block. Register the following Internet Parameters.
		(a) Default Domain (30-characters maximum). The syntax is: domain; <Default domain name> (b) Manager's Email Address (60-characters maximum). The syntax is: manager; <Manager's Email Address> (c) Relay XMT Password (10-characters maximum). The syntax is: relay; <Relay XMT Password>. Quotation marks " " enclosing the password, are required, as shown in the example above. (d) Remote Password (10-characters maximum). The syntax is: remote; <Remote Password>. Quotation marks " " enclosing the password, are required, as shown in the example above.

! **Note:**
 1. The machine cannot be programmed via email while it is communicating or printing.
 2. Some email applications automatically insert a line feed in the middle of a line when the number of characters in a line exceed a specific number. Turn "Off" the automatic line feed, or define the number of characters per line to prevent a line feed, or the data will be ignored.

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To Retrieve the Internet Parameters for Backup

To retrieve the existing Internet Parameters, send a plain text email to the DX-2000's email address with the following command in the "Subject" line:

#get parameters(password)# : where the password is the Remote Password programmed in the DX-2000's User Parameters (i.e. 123456789).   For security, always input a Remote Password in the User Parameters. If it was not programmed, signify with "()" (i.e. #get parameters()#).
Make sure that the CC..., Bcc... lines and the body of the email message is Blank.

Retrieving the Internet Parameters Sample
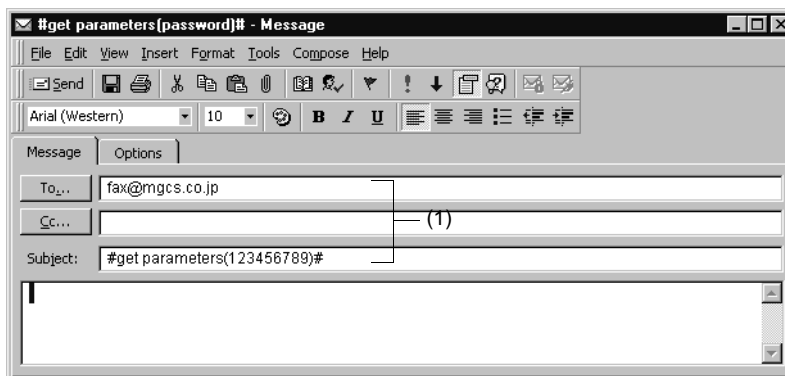
(1) To	: The DX-2000's email address.
From	: This field is normally not visible when creating new email message(s). It is your default email address (email application), for retrieving the Internet Parameters and for error message notification. (Can be programmed with the configuration tool of your email program.)
Subject	: To Retrieve data, type: #get parameters(password)#

▶Programming or Retrieving Parameters via Email

After receiving the email message requesting the Internet Parameters, the DX-2000 sends back an email to the address specified in the "From:" line with the Internet Parameters in the body of the email.

DX-2000 Internet Parameters Email Sample
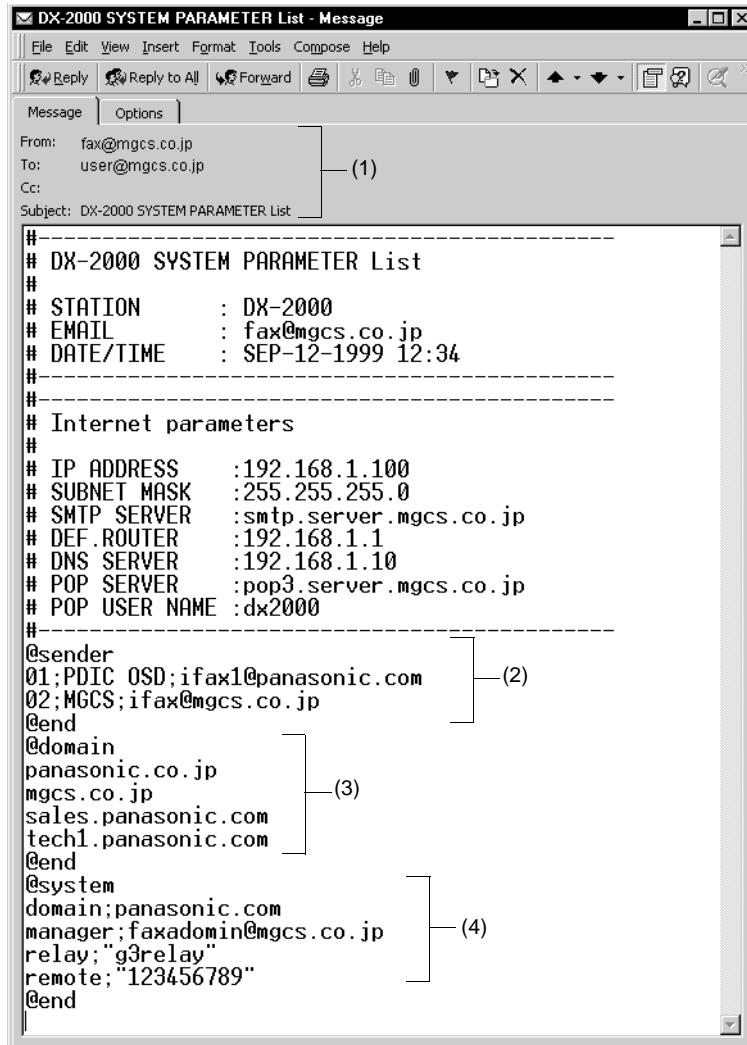
(1) To	: Your email address (email application) that was used to retrieve the Internet Parameters.
From	: The DX-2000's email address.
Subject	: DX-2000 System Parameter List
(2) @sender to @end	: Defines up to 24 User Names and their Email Addresses programmed in the DX-2000 for the Sender Selection in section (2) between @sender to @end block.
(3) @domain to @end	: Defines up to 10 Domain Names programmed in the DX-2000 that have been authorized to access you Internet Fax for Relayed XMT Request in section (3) between @domain to @end block.
(4) @system to @end	: Defines the following Internet Parameters programmed in the DX-2000 in section (4) between @system to @end block.

> (a) Default Domain
> (b) Manager's Email Address
> (c) Relay XMT Password
> (d) Remote Password

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To Edit the Retrieved or Backup Internet Parameters File

After receiving the DX-2000 email with the Internet Parameters, store the email file as text (.txt) on your PC for backup purposes.

2

To change or update the Internet Parameters, follow the steps below:

1. Create a New Email Message, fill out the "To" and "From" Address line and the Subject line information for section 1) below:
   To :   The DX-2000's email address.
   From :   This field is normally not visible when creating new email message(s). It is your default email address (email application), for retrieving the Internet Parameters and for error message notification.
   Subject : To Store data, type: #set parameters(password)#

2. Open the backup, Internet Parameter text file. Copy the body text and paste it on the body of the newly created email message.

3. Delete any headers that may be present in the body of the email, as unsupported data will be rejected. The information following the "#" sign is ignored by the DX-2000.

4. Edit a parameter and/or add additional Sender Name(s) or Domain Name(s).

5. When finished, use the "File/Save as.." command and save the updated file with ".txt" extension as a backup.

6. Send the email message to the DX-2000 to update the Internet Parameters.

►Programming or Retrieving Parameters via Email

DX-2000 Internet Parameters Email Sample

```
┌─────────────────────────────────────────────────────────────┐
│ ✉ #set parameters(123456789)# - Message              _ □ ×  │
├─────────────────────────────────────────────────────────────┤
│ File  Edit  View  Insert  Format  Tools  Compose  Help       │
├─────────────────────────────────────────────────────────────┤
│ ⊟ Send  🖫 🖨  ✂ 🖹 🖺 🔗  🕮 ✅  ▼ ! ↓  🖹🗗  🖂 🖂         │
│ Arial (Western)      ▼  10  ▼  ◉  B  I  U  ▤▤▤▤▤ ▦ ▦         │
├──────────────┬──────────────────────────────────────────────┤
│ Message │ Options                                            │
├─────────────────────────────────────────────────────────────┤
│ To...   │ fax@mgcs.co.jp                                     │
│ Cc...   │                                    ──(1)           │
│ Subject:│ #set parameters(123456789)#                        │
├─────────────────────────────────────────────────────────────┤
│ From:      "DX-2000" <fax@mgcs.co.jp>                        │
│ Subject:   DX-2000 SYSTEM PARAMETER List      (5)            │
│ To:        user@mgcs.co.jp                                   │
│                    [Delete this header before sending email.]│
│ #------------------------------------------                  │
│ # DX-2000 SYSTEM PARAMETER List                              │
│ #                                                            │
│ # STATION     : DX-2000                                      │
│ # EMAIL       : fax@mgcs.co.jp                               │
│ # DATE/TIME   : SEP-12-1999 12:34                            │
│ #------------------------------------------                  │
│ #------------------------------------------                  │
│ # Internet parameters                                        │
│ #                                                            │
│ # IP ADDRESS    :192.168.1.100                               │
│ # SUBNET MASK   :255.255.255.0                               │
│ # SMTP SERVER   :smtp.server.mgcs.co.jp                      │
│ # DEF.ROUTER    :192.168.1.1                                 │
│ # DNS SERVER    :192.168.1.10                                │
│ # POP SERVER    :pop3.server.mgcs.co.jp                      │
│ # POP USER NAME :dx2000                                      │
│ #------------------------------------------                  │
│ @sender                                                      │
│ 01;PDIC OSD;ifax1@panasonic.com      ──(2)                   │
│ 02;MGCS;ifax@mgcs.co.jp                                      │
│ @end                                                         │
│ @domain                                                      │
│ panasonic.co.jp                                              │
│ mgcs.co.jp                           ──(3)                   │
│ sales.panasonic.com                                          │
│ tech1.panasonic.com                                          │
│ @end                                                         │
│ @system                                                      │
│ domain;panasonic.com                                         │
│ manager;postmaster@mgcs.co.jp        ──(4)                   │
│ relay;"rlypass"                                              │
│ remote;"rmtpass"                                             │
│ @end                                                         │
└─────────────────────────────────────────────────────────────┘
```

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(1) To : The DX-2000's email address

From : This field is normally not visible when creating new email message(s). It is your default email address (email application), for retrieving the Internet Parameters and for error message notification.
(Can be programmed with the configuration tool of your email program.)

Subject : To Store data, type: #set parameters(password)#

(2) @sender to @end : Defines the Sender information to be set in section (2) between @sender to @end block. Edit, Delete or Register up to 24 User Names and their Email Addresses for the Sender Selection feature (see page 125).
Separate each data field with a semicolon (;). (If the remaining fields are to remain blank, insert a semicolon (;) for each blank field)
The data string for each Sender Selection should be defined within a single line. The syntax is:
<Sender Selection Number>;<User Name>;<Email Address>

(a) 01 to 24: Indicates the Sender Selection Numbers
(b) User Name (25-characters maximum)
(c) Email Address (60-characters maximum)

(3) @domain to @end : Defines the Domain Names to be set in section (3) between @domain to @end block. Register up to 10 the Domain Names that have been authorized to access your Internet Fax for Relayed XMT Request. (30-characters maximum)

(4) @system to @end : Defines the Internet Parameters to be set in section (4) between @system to @end block. Register the following Internet Parameters.

(a) Default Domain (30-characters maximum).
The syntax is: domain; <Default domain name>
(b) Manager's Email Address (60-characters maximum).
The syntax is: manager; <Manager's Email Address>
(c) Relay XMT Password (10-characters maximum. The syntax is: relay; <Relay XMT Password>. Quotation marks " " enclosing the password, are required, as shown in the example above)
(d) Remote Password (10-characters maximum. The syntax is: remote; <Remote Password>. Quotation marks " " enclosing the password, are required, as shown in the example above)

(Notice that for the above example, we have changed the Manager's Email Address, Relay XMT Password and the Remote Password)

(5) : This header must be deleted before the email is sent to the DX-2000 for reprogramming of Internet Parameters.
The information following the "#" sign is ignored by the DX-2000, therefore, you can leave it as is or delete it if you wish.

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▶Programming or Retrieving Parameters via Email

Using a PC to Update the Auto Dialler Remotely

This feature provides a convenient and an easy way to Update, Backup or Restore the One-Touch and Abbreviated dialling numbers right from your PC by sending a text email message to the DX-2000.

The DX-2000 interprets the command that you enter in the "Subject" line of your email message and performs one of the following functions, it Retrieves or Stores data into the Auto Dialler (One-Touch and/or ABBR No.).

The two types of commands that can be entered in the "Subject" line of your email:

1) To Store data, type :**#set abbr(password)#**   : where the password is the Remote Password programmed in the DX-2000's User Parameters (i.e. 123456789). You can program any known unused Auto Dialler location(s) with this command for the first time, without having to Retrieve the One-Touch / ABBR No. data first. If the desired Auto Dialler location already contains data, the DX-2000 will overwrite the existing data, therefore, we recommend that you use the Retrieve command below instead, to edit existing Auto Dialler locations, refer to pages 58 to 60.

2) To Retrieve data, type :**#get abbr(123456789)#**

! *Note:*
  1. To activate this feature, change the Fax Parameter No. 158 (PC REMOTE UPDATE) to "2:Valid".
     (See page 76.)

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Deleting the Entire Auto Dialler

If you wish to delete the entire Auto Dialler data in the DX-2000, type the following command in the body of the email message:

@command
delete
@end

This command can also be inserted before the @begin to @end block, to erase the entire Auto Dialler data first, then reprogramming it with new data.
This method will also prevent the "Overwrite Warning Message" that is sent back from the DX-2000, when the current Auto Dialler station is overwritten.

To erase the entire Auto Dialler data, type the following command in the "Subject" line of your email:

#set abbr(password)# :   where the password is the Remote Password programmed in the DX-2000's User Parameters. Retrieve and backup the existing data onto your PC first by following the procedures for Retrieving and Editing on pages 58 to 61.
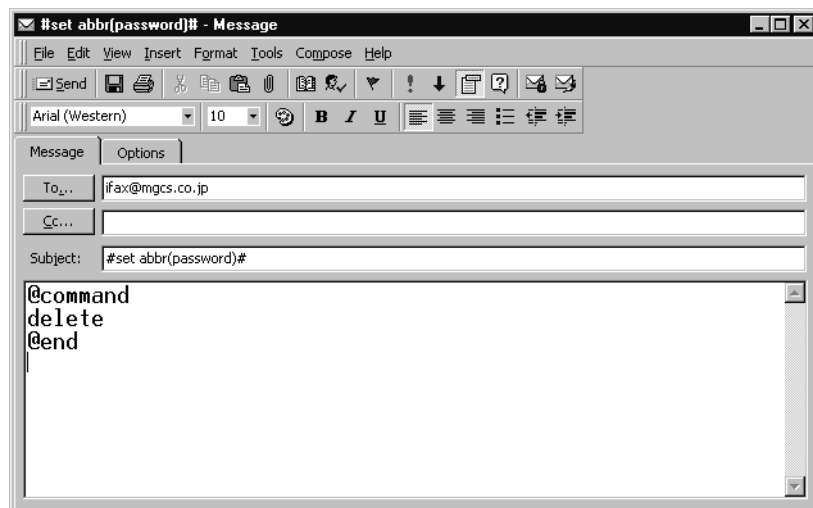
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To Program One-Touch / ABBR No. for the First Time

Create a script in the message body of a plain text email and send it to the DX-2000's email address.The "Subject" line of the email must be as follows:

#set abbr(password)#: where the password is the Remote Password programmed in the DX-2000's User Parameters.

The script sample to program One-Touch / ABBR No. for the first time is shown in the illustration below:

First Time Remote Programming of One-Touch / ABBR No. Sample
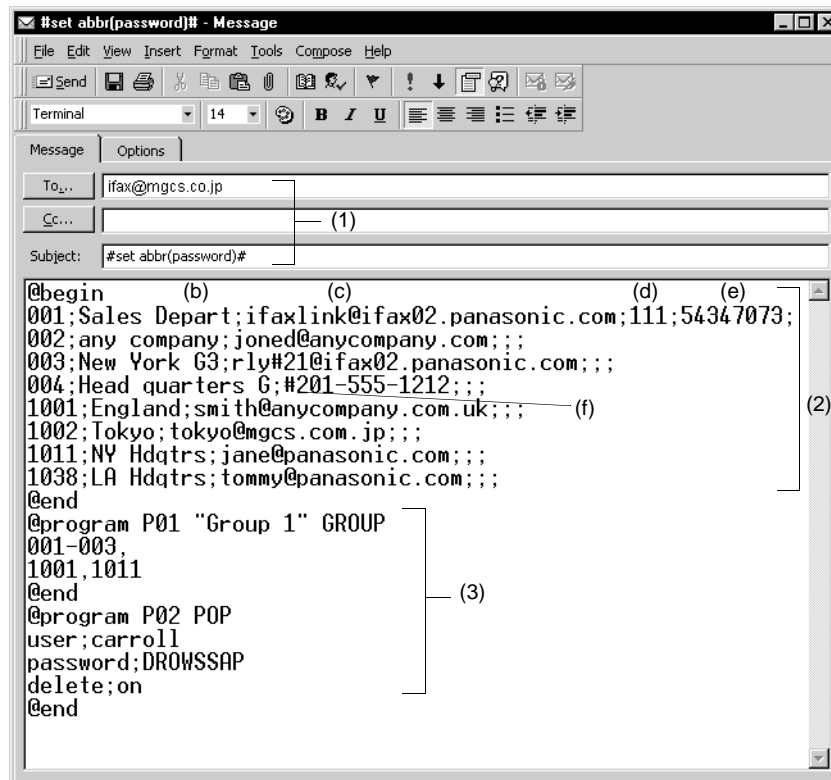
(1)	To	: The DX-2000's email address.
	From	: This field is normally not visible when creating new email message(s). It is your default email address (email application), for retrieving the One-Touch / ABBR No. data and for error message notification. (It can be programmed with the configuration tool of your email program)
	Subject	: To Store data, type: #set abbr(password)# : To Retrieve data, type: #get abbr(password)#

(2) @begin to @end block   : Defines the data to be set into One-Touch / ABBR No. between @begin to @end block.
Separate each data field with a semicolon (;). (If the remaining fields are to remain blank, insert a semicolon (;) for each blank field)
The data string for each station should be defined within a single line.

    (a) Entry-number: One-Touch, ABBR No. or Program Keys to be programmed
       000 to 999: indicates ABBR No.s 000 to 999 (160 stations maximum)
       1001 to 1032: indicates One-Touch numbers from 01 to 32
       1033 to 1040: indicates Program Keys (P1 to P8 programmed as One-Touch dialling numbers)
    (b) Station-name: Name of the station being programmed (15 alpha-numeric characters maximum)
    (c) Station-address: email address or telephone number of the station being programmed
    (d) Routing-subaddress: sub-address to be used for routing (20-digit maximum)
    (e) Routing-id-number: TSI to be used for routing (20-digit maximum)
    (f) The End Receiving Station's telephone number is entered after the hash sign (#)

(3) @program to @end   : Defines the data to be set into Program Keys as a Group Key or POP Access Keybetween @program to @end block.

    (a) Program Key: P01 - P08
    (b) Station-name as a Group Key: Name of the station being programmed (15 alpha-numeric characters maximum)
    (c) GROUP: The syntax used to set the Program Key as a Group Key
    (d) Entry-number: One-Touch, ABBR No. or Program Keys to be programmed
       000 to 999: indicates ABBR No.s 000 to 999 (160 stations maximum)
       1001 to 1032: indicates One-Touch numbers from 01 to 32
       1033 to 1040: indicates Program Keys (P1 to P8 programmed as One-Touch dialling numbers)
    (e) POP: The syntax used to set the Program Key as a POP Access Key
    (f) POP User-name: Name of the station being programmed (40 alpha-numeric characters maximum)
    (g) POP Password: POP Password (10 alpha-numeric characters maximum)
    (h) Set whether the emails on the POP Server are deleted after retrieving the emails.

! **Note:**
    1. If a POP server is programmed into the P1 to P8 program keys, the data programmed for this key cannot be deleted, even when the delete command is specified.
    2. The email address and the telephone number cannot be programmed via email when:
       • A One-Touch Dialling number has been used for communication reservation.
       • Received documents are stored in the image data memory of the machine.
       • While the machine is communicating or printing.
    3. When the email address and telephone number are programmed via email, a program result email is sent back.
    4. Some email applications automatically insert a line feed in the middle of a line when a number of characters in a line exceed a specific number. Turn Off the automatic line feed, or define a number of characters per line to prevent a line feed, or the data will be ignored.

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▶Programming or Retrieving Parameters via Email

To Retrieve One-Touch / ABBR No. Data for Backup

To retrieve the existing auto dialler data, send a plain text email to the DX-2000's email address with the following command in the "Subject" line:

#get abbr(password)# : where the password is the Remote Password programmed in the DX-2000's User Parameters (i.e. 123456789)

Make sure that the CC, Bcc lines and the body of the email message is Blank.

Retrieving One-Touch / ABBR No. Data Sample
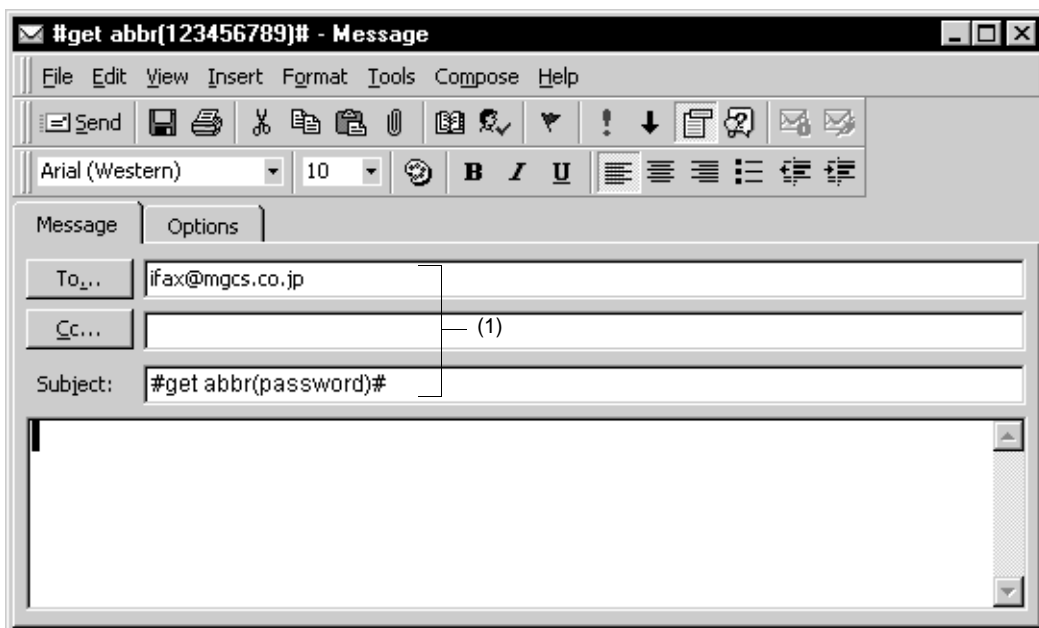
To	: The DX-2000's email address.
From	: This field is normally not visible when creating new email message(s). It is your default email address (email application), for retrieving the One-Touch / ABBR No. data and for error message notification. (It can be programmed with the configuration tool of your email program.)
Subject	: To Retrieve data, type: #get abbr(password)#

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Programming or Retrieving Parameters via Email

After receiving the email message requesting the existing auto dialler data, the DX-2000 sends back an email to the address specified in the "From:" line with the auto dialler information in the body of the email.

DX-2000 Auto Dialler Email Sample


```
# DX-2000 ONE-TOUCH/ABBR List - Message

File  Edit  View  Insert  Format  Tools  Compose  Help

Reply  Reply to All  Forward

Message  |  Options

From:    ifax@mgcs.co.jp
To:      user@mgcs.co.jp                          (1)
Cc:
Subject: DX-2000 ONE-TOUCH/ABBR List

#---------------------------------------------
# DX-2000 ONE-TOUCH/ABBR List
#
# STATION      : DX-2000
# EMAIL        : ifax@mgcs.co.jp
# DATE/TIME    : SEP-12-1999 14:15
#---------------------------------------------
@begin
001;Sales Depart;ifaxlink@ifax02.panasonic.com;111;54347073;
002;any company;joned@anycompany.com;;;
003;New York G3;rly#21@ifax02.panasonic.com;;;
004;Head quarters G;#201-555-1212;;;              (2)
1001;England;smith@anycompany.com.uk;;;
1002;Tokyo;tokyo@mgcs.com.jp;;;
1011;NY Hdqtrs;jane@panasonic.com;;;
1038;LA Hdqtrs;tommy@panasonic.com;;;
@end
@program P01 "group 1" GROUP
001-003,1001,1011
@end
@program P02 "" POP                               (3)
user;carroll
password;"*****"
delete;off
@end
```

(1) To	:	Your email address (email application) that was used to retrieve the Auto Dialler data.
From	:	The DX-2000's email address.
Subject	:	DX-2000 ONE-TOUCH/ABBR List
(2) @begin to @end block	:	Defines One-Touch Keys, Abbreviated Dialling Numbers and Program Keys stored as a One-Touch Key programmed in the DX-2000 in section (2) between @begin to @end block.
(3) @program to @end	:	Defines Program Keys stored as a Group Key or POP Access Key programmed in the DX-2000 in section (3) between @program to @end block.

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▶Programming or Retrieving Parameters via Email
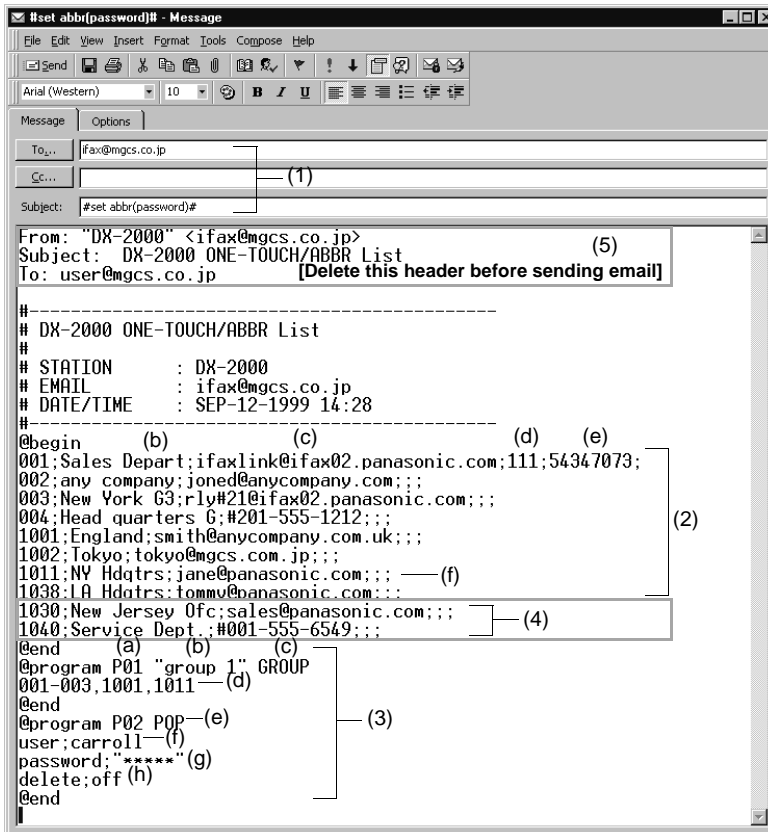
To Edit the Retrieved or Backup One-Touch / ABBR No. Data File

After receiving the DX-2000 email with the auto dialler data, store the email file as text (.txt) on your PC for backup purposes.

To change or update the auto dialler, follow the steps below:

1. Create a New Email Message, fill out the "To" and "From" Address line and the Subject line information for section 1) below:
   To :   The DX-2000's email address.
   From :   This field is normally not visible when creating new email message(s). It is your default email address (email application), for retrieving the One-Touch / ABBR No. data and for error message notification.
   Subject :   To Store data, type: #set abbr(password)#
2. Open the backup, auto dialler text file. Copy the body text and paste it on the body of the newly created email message.
3. Delete any headers that may be present in the body of the email, as unsupported data will be rejected.
   The information following the "#" sign is ignored by the DX-2000.
4. Edit and/or add additional One-Touch / ABBR No. stations.
5. When finished, use the "File/Save as..." command and save the updated file with ".txt" extension as a backup.
6. Send the email message to the DX-2000 to update the auto dialler.

DX-2000 Auto Dialler Email Sample

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Programming or Retrieving Parameters via Email◀

(1) To : The DX-2000's email address.

 From : This field is normally not visible when creating new email message(s). It is your default
email address (email application), for retrieving the One-Touch / ABBR No. data and for
error message notification.
(Can be programmed with the configuration tool of your email program.)

 Subject : To Store data, type: #set abbr(password)#

(2) @begin to @end block: : Defines the One-Touch Keys, Abbreviated Dialling Numbers and Program Keys stored as a
One-Touch Key to be set in section (3) between @begin to @end block. Edit, Delete or
Register the infomation.
Separate each data field with a semicolon (;). (If the remaining fields are to remain blank,
insert a semicolon (;) for each blank field)
The data string for each station should be defined within a single line. The syntax is:
<Entry-number>;<Station-name>;<Station-address>;<Routing-subaddress>;<Routing-id-
number>;<Telephone number>

 (a) Entry-number: One-Touch, ABBR No. or Program Keys to be programmed
   000 to 999: indicates ABBR No.s 000 to 999 (160 numbers maximum)
   1001 to 1032: indicates One-Touch numbers from 01 to 32
   1033 to 1040: indicates Program Keys (P1 to P8 programmed as One-Touch dialling
   numbers)
 (b) Station-name: Name of the station being programmed (15 alpha-numeric characters
   maximum)
 (c) Station-address: email address or telephone number of the station being programmed
 (d) Routing-subaddress: sub-address to be used for routing (20-digit maximum)
 (e) Routing-id-number: TSI to be used for routing (20-digit maximum)
 (f) The End Receiving Station's telephone number is entered after the hash sign (#)

(3) @program to @end block: : Defines the Program Keys stored as a Group Key or POP Access Key to be set in section
(4) between @program to @end block.
Edit, Delete or Register the information.

 (a) Program Key: P01 - P08
 (b) Station-name as a Group Key: Name of the station being programmed (15 alpha-
   numeric characters maximum)
 (c) GROUP: The syntax used to set the Program Key as a Group Key
 (d) Entry-number: One-Touch, ABBR No. or Program Keys to be programmed
   000 to 999: indicates ABBR No.s 000 to 999 (160 stations maximum)
   1001 to 1032: indicates One-Touch numbers from 01 to 32
   1033 to 1040: indicates Program Keys (P1 to P8 programmed as One-Touch dialling
   numbers)
 (e) POP: The syntax used to set the Program Key as a POP Access Key
 (f) POP User-name: Name of the station being programmed (40 alpha-numeric
   characters maximum)
 (g) POP Password: POP Password (10 alpha-numeric characters maximum)
 (h) Set whether the emails on the POP Server are deleted after retrieving the emails.

(4) These 2 One-Touch stations were added to the list.

(5) This header must be deleted before the email is sent to the DX-2000 for reprogramming of One-Touch / ABBR No.
The information following the "#" sign is ignored by the DX-2000, therefore, you can leave it as is or delete it if you wish.

►Programming or Retrieving Parameters via Email

Using Email to Retrieve the Journal

To retrieve the existing Journal data, send an email to the DX-2000's email address with the following command in the "Subject" line:

#get jnl (password)#: where the password is, the Remote Password programmed in the DX-2000's User Parameters (i.e. 123456789).

The Journal will be send back to the originating station's email address.
After receiving the journal, use a fixed width Font (i.e. Courier), in order to align the received journal's contents on the PC.
A separate email message is sent by the DX-2000, an "Internet Fax Return Receipt" to the Manager's email address programmed in the User Parameters, informing of the Journal Transfer.

! **Note:**
  1. *To activate this feature, change the Fax Parameter No. 158 (PC REMOTE UPDATE) to "2:Valid". (See page 76)*

Programming Email Address and Telephone Numbers◀

Entering One-Touch/Abbreviated Dialling Numbers
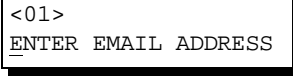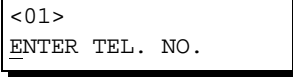
One-Touch and Abbreviated Dialling are two fast ways of dialling full telephone numbers or email addresses. To use these dialling methods, you must first store the telephone number or email address using the following procedure.

To enter a One-Touch key, follow the steps below

1

FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨∧
```

2

2 SET

```
1:ONE-TOUCH
2:ABBR NO.
```

3

1

```
ONE-TOUCH<  >
PRESS ONE-TOUCH
```

4

Ex: 01

To change the input mode (between "ENTER EMAIL ADDRESS" and "ENTER TEL. NO."), press INTERNET .

```
<01>
ENTER EMAIL ADDRESS
_
```

or

```
<01>
ENTER TEL. NO.
_
```

5

Enter the email address using character keys (up to 60 characters).

Ex: a b c 27 @ p a n a s o n i c

28 . c o m

or

Enter the telephone number
(up to 36 digits including pauses and spaces).
Ex: 9 PAUSE 5 5 5 SPACE 1 2 3 4

```
<01>
abc@panasonic.com■
```

or

```
<01>
9-555 1234■
```

63

6

SET

```
<01> ENTER NAME
abc@panasonic.com
```

or

```
<01> ENTER NAME
9-555 1234
```

7 Enter the station name using character keys
(up to 15 characters).

Ex: Ⓢ Ⓐ Ⓛ Ⓔ Ⓢ ⓈⓅⒶⒸⒺ Ⓓ Ⓔ Ⓟ Ⓣ

```
<01> SALES DEPT█
abc@panasonic.com
```

or

```
<01> SALES DEPT█
9-555 1234
```

8

SET

```
ONE-TOUCH<   >
PRESS ONE-TOUCH
```

To record another number, repeat step 4 to 8.
To return to standby, press ⌐ STOP ⌐.

64

To set an Abbreviated Dialling Number, follow the steps below

1   FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨∧
```

3

2   2   SET

```
1:ONE-TOUCH
2:ABBR NO.
```

3   2

```
ABBR[■  ]
ENTER ABBR NO.
```

4   **Ex:** ⓪②② (000 to 999, up to 160 stations)

To change the input mode (between "ENTER EMAIL ADDRESS" and "ENTER TEL. NO."), press ⎡INTERNET⎤.

```
[022]
ENTER EMAIL ADDRESS
```
or
```
[022]
ENTER TEL. NO.
```

5   Enter the email address using character keys (up to 60 characters).

Ex: ⎡a⎤ ⎡b⎤ ⎡c⎤ ⎡27 @⎤ ⎡p⎤ ⎡a⎤ ⎡n⎤ ⎡a⎤ ⎡s⎤ ⎡o⎤ ⎡n⎤ ⎡i⎤ ⎡c⎤

⎡28 .⎤ ⎡c⎤ ⎡o⎤ ⎡m⎤

or

Enter the telephone number
(up to 36 digits including pauses and spaces).
Ex: ⑨ ⎡PAUSE⎤ ⑤⑤⑤ ⎡SPACE⎤ ②③④⑤

```
[022]
abc@panasonic.com■
```

or

```
[022]
9-555 2345■
```

65

6   SET
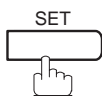
```
[022]ENTER NAME
abc@panasonic.com
```

or

```
[022]ENTER NAME
9-555 2345
```

7   Enter the station name using character keys
(up to 15 characters).
Ex: A C C O U N T I N G

```
[022]ACCOUNTING■
abc@panasonic.com
```

or

```
[022]ACCOUNTING■
9-555 2345
```

8   SET
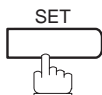
```
ABBR[■  ]
ENTER ABBR NO.
```

To record another number, repeat step 4 to 8.
To return to standby, press STOP .

! Note:
1. If you require a special access number to get an outside line, enter it first and then press PAUSE .
   A hyphen "-" is displayed for pause.
2. Use SPACE or MONITOR to enter a space between the numbers to make it easier to read.
3. If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling sequence, press
    TONE (represented by a"/"). The dialling method will be changed from Pulse to Tone after dialling the digit "/".
   Ex : 9 PAUSE TONE 5551234

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Programming Email Address and Telephone Numbers◀

Changing or Erasing One-Touch/Abbreviated Dialling Numbers

If you have to change or erase any of the One-Touch/Abbreviated dialling numbers, follow the steps below.

To change the settings of a One-Touch/ABBR dialling number
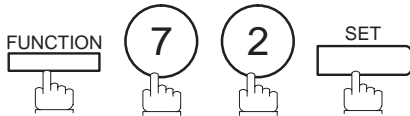
1 FUNCTION ⑦ ② SET

```
1:ONE-TOUCH
2:ABBR NO.
```

2 Select 1 for One-Touch Dialling number.
Select 2 for ABBR Dialling Number.

Ex: ①

```
ONE-TOUCH<  >
PRESS ONE-TOUCH
```

3 Enter the station you wish to change.

Ex: 01

```
<01> SALES DEPT
abc@panasonic.com
```
or
```
<01> SALES DEPT
9-555 1234
```

4 CLEAR
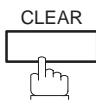
```
<01> SALES DEPT
ENTER EMAIL ADDRESS
```
or
```
<01> SALES DEPT
ENTER TEL. NO.
```

5 To change the input mode (between "ENTER EMAIL ADDRESS" and "ENTER TEL. NO."), press INTERNET .

6 Enter a new email address. (See Note 1 and 2.)
Ex: x y z 27 @ p a n a s o n i c
28 . c o m

```
<01> SALES DEPT
xyz@panasonic.com■
```
or
```
<01> SALES DEPT
9-555 3456■
```

or

Enter a new telephone number. (See Note 1 and 2.)
Ex: ⑨ PAUSE ⑤ ⑤ ⑤ SPACE ③ ④ ⑤ ⑥

Continued on the next page...

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7   SET

```
<01> SALES DEPT
xyz@panasonic.com
```

8   CLEAR
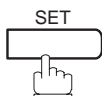
```
<01> ENTER NAME
xyz@panasonic.com
```

or

```
<01> ENTER NAME
9-555 3456
```

then enter a new station name. (See Note 1 and 3.)

Ex: P A N A F A X

```
<01> PANAFAX■
xyz@panasonic.com
```

or

```
<01> PANAFAX■
9-555 3456
```

9   SET

```
ONE-TOUCH<   >
PRESS ONE-TOUCH
```
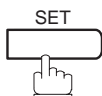
To return to standby, press ⌐STOP⌐.

⚠ *Note:*

1. *If you make a mistake, use* ◀ *or* ▶ *to move the cursor beyond the incorrect number, press* ⌐CLEAR⌐ *then re-enter the new number.*

2. *If the One-Touch/Abbreviated dialling number has been used for a communication reservation, the settings cannot be changed or erased until the communication has finished.*

3. *If you press* ⌐INTERNET⌐ *in step 5, a previously entered telephone number or email address is erased.*

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To erase the settings of One-Touch/ABBR Dialling number

1   FUNCTION (7) (2) SET
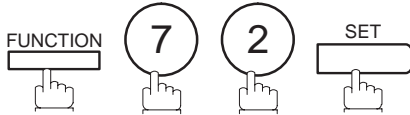
```
1:ONE-TOUCH
2:ABBR NO.
```

3

2   Select 1 for One-Touch Dialling number.
Select 2 for ABBR Dialling Number.

Ex: (1)

```
ONE-TOUCH<  >
PRESS ONE-TOUCH
```

3   Enter the station you wish to change.

Ex: | 01 |

```
<01> SALES DEPT
abc@panasonic.com
```
or
```
<01> SALES DEPT
9-555 1234
```

4   CLEAR

```
<01> SALES DEPT
ENTER EMAIL ADDRESS
```
or
```
<01> SALES DEPT
ENTER TEL. NO.
```

5   SET

```
ONE-TOUCH<  >
PRESS ONE-TOUCH
```
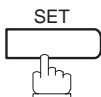
To return to standby, press ⌷ STOP ⌷.

⚠ **Note:**

1. *If the One-Touch/Abbreviated dialling number has been used for a communication reservation, the settings cannot be changed or erased until the communication has finished.*

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►Programming Email Address and Telephone Numbers

Printing Out a Directory Sheet

After programming a one-touch dialling number, you can print out the directory sheet which includes the first 12 characters of each station name. Cut along the dotted line and place it over the One-Touch key under the Directory Sheet Cover. To print out a directory sheet, follow the steps below.

1 FUNCTION 6

```
PRINT OUT     (1-7)
ENTER NO. OR ∨∧
```

2 7 SET
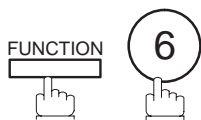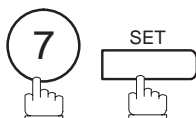
```
* PRINTING *
DIRECTORY SHEET
```

Your machine prints out the directory sheet.

```
***************** -DIRECTORY SHEET- ****************** DATE  SEP-12-1999 ***** TIME 15:00 *****


    01           02           03           04           05           06
    SALES DEPT   ENG. DEPT    ACCT. DEPT   EXPORT DEPT  R & D DEPT   MARKET DEPT

    07           08           09           10           11           12


    13           14           15           16           17           18


    19           20           21           22           23           24


    25           26           27           28           29           30


    31           32           P1           P2           P3           P4


    P5           P6           P7           P8

         dotted line                            -PANASONIC                -
********************************************** -HEAD OFFICE  - ***** -   201 555 1212- *******
```

Directory Sheet Cover
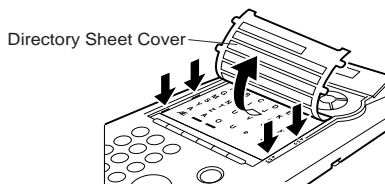
! Note:
1. *When a station name is not programmed for an email auto dialer, the email address is printed on the Directory Sheet. For stations with telephone numbers, no information is printed if the station's name is not programmed.*

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Your facsimile machine has a variety of adjustable Fax Parameters. These parameters, listed in the Parameter Table, are preset for you and do not need to be changed. If you do want to make a change, read the table carefully. Some parameters, such as the Resolution, Contrast, and Verification Stamp parameters, can be temporarily changed by simple key operation just before a transmission is made. When the transmission ends, however, these parameters return to their preset values (Home position). Other parameters can only be changed by the procedure described below.

3

Setting the Fax Parameters

1   FUNCTION   (7)

```
SET MODE       (1-6)
ENTER NO. OR ∨∧
```

2   (4)   SET
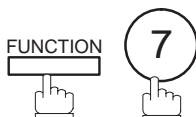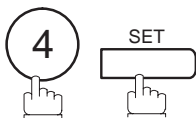
```
FAX PARAMETER(1-164)
        NO.=■
```

3   Enter Fax Parameter number from the Parameter Table (see pages 72 to 76).

Ex: (0)(0)(1) for **CONTRAST**

```
FAX PARAMETER(1-164)
        NO.=001
```

4   SET
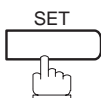
```
01 CONTRAST
 1:NORMAL
```

5   Enter the new setting value.

Ex: (2) for **LIGHTER**

```
01 CONTRAST
 2:LIGHTER
```

6   SET
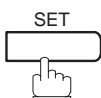
```
02 RESOLUTION
 2:FINE
```

To set another parameter, press [CLEAR] to return to step 3, or to return to standby, press [STOP].

[!] *Note:*
    1. To scroll the Fax Parameters in Step 2 or 4, press ▼ or ▲.
    2. To print out a Fax Parameter List, see page 178.

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►Customizing Your Machine

Fax Parameter Table

No.	Parameter	Setting Number	Setting	Comments
001	CONTRAST	1	Normal	Setting the home position of the CONTRAST key.
		2	Lighter	
		3	Darker	
002	RESOLUTION	1	Standard	Setting the home position of the RESOLUTION key.
		2	Fine	
		3	400 dpi	
004	STAMP	1	Off	Setting the home position of the STAMP key. To select the stamp function when document is stored in memory, see Fax Parameter No. 028.
		2	On	
005	MEMORY	1	Off	Setting the home position of the MEMORY key.
		2	On	
006	DIALLING METHOD	1	Pulse	Selecting the dialling method.
		2	Tone	
007	HEADER PRINT	1	Inside	Selecting the printing position of the header. **Inside** : Inside TX copy area. **Outside** : Outside TX copy area. **No print** : Header is not printed.
		2	Outside	
		3	No print	
008	HEADER FORMAT	1	Logo, ID No.	Selecting the header format.
		2	From To	
009	RCV'D TIME PRINT	1	Invalid	Selecting whether the machine prints the received date & time, remote ID, percentage of reduction and page number on the bottom of each received page.
		2	Valid	
010	KEY/BUZZER VOLUME	1	Off	Selecting the volume of the Key/Buzzer tone.
		2	Soft	
		3	Loud	
012	COMM. JOURNAL	1	Off	Selecting the home position of printout mode for COMM. Journal Off/Always/INC. **Off** : Does not print. **Always** : Always prints. **Inc. only** : Prints only when communication has failed.
		2	Always	
		3	Inc. only	
013	AUTO JOURNAL PRINT	1	Invalid	Selecting whether the machine prints the journal automatically after every 100 transactions.
		2	Valid	
014	FILE ACCEPTANCE REPORT	1	Invalid	Selecting whether the machine prints the file acceptance journal. If you set this parameter to valid, a journal will print after any memory communication.
		2	Valid	
017	RECEIVE MODE	1	Manual	Setting the reception mode to automatic or manual.
		2	Auto	

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3

No.	Parameter	Setting Number	Setting	Comments
022	SUBSTITUTE RCV	1	Invalid	Selecting whether the machine receives to memory when recording paper runs out, toner runs out or recording paper is jammed.
		2	Valid	
024	PRINT REDUCTION	1	Fixed	Selecting print reduction mode. **Fixed**: Reduce received document according to setting of Parameter No. 025. **Auto**: Reduce received document according to the length of received documents.
		2	Auto	
025	REDUCTION RATIO	70	70%	Selecting fixed print reduction ratio from 70% to 100%. This parameter functions only when fixed print reduction is selected on Fax Parameter No. 024.
		----	----	
		100	100%	
026	POLLING PASSWORD		(----)	Setting a 4-digit password for secured polling. (See page 151)
028	STAMP AT MEM. XMT	1	Invalid	Selecting whether the machine stamps the original documents when storing the documents into memory. (depending on the Stamp setting on the Control Panel)
		2	Valid	
030	DRD SERVICE	1	Invalid	Selecting whether or not the machine is available "DRD Service". If this parameter is set to "Valid", your machine detects the specified ring pattern only to receive a document automatically.
		2	Valid	
031	INCOMPLETE FILE SAVE	1	Invalid	Selecting whether the machine retains the document in memory if the document is not successfully transmitted.
		2	Valid	
032	COPY REDUCTION	1	Manual	Selecting whether the machine performs the copy reduction ratio automatically or manually. **Manual** : The machine will prompt you for the Zoom ratio (100% to 70%) when making copies. **Auto** : The machine will automatically determine the reduction ratio according to the length of the original document.
		2	Auto	
033	XMT REDUCTION	1	Invalid	Selecting whether the machine performs reduction when the transmitting document is wider than the recording paper used at the receiving machine.
		2	Valid	
034	ENERGY SAVER MODE	1	Off	To reduce the power consumption in standby, specify the Delay Time (1 to 120 minutes) for the machine to enter into the Energy-Saver mode. **Off** : The unit will remain in standby mode and consume more energy than when in Energy-Saver. **Energy-Saver Mode** : Saves energy by consuming less power than when in standby mode by turning off the fuser unit after the specified time.
		2	Energy-Saver	
035	DAYLIGHT TIME	1	Invalid	Selecting whether the clock adjusts for Daylight Saving Time automatically. The built-in clock will advance 1 hour at 2:00 am on the first Sunday in April and fallback 1 hour at 2:00 am on the last Sunday in October.
		2	Valid	

Continued on the next page...

▶Customizing Your Machine

No.	Parameter	Setting Number	Setting	Comments
038	ACCESS CODE		(----)	Enter a 4-digit Access Code to secure the machine from unauthorized use. (See page 146) **All** : Restricts access to all operations of the machine. **Parameters** : Restricts access to User Parameters (F-7-1), Fax Parameters (F-7-4) and Fax Parameter List Printing (F-6-4) only.
048	TELEPHONE LINE	1	PSTN	Selecting the type of line connected.
		2	PBX	
049	PSTN ACCESS CODE		(----)	Setting PSTN Access Code. (max. 4 digits)
050	FLASH KEY	1	Earth	Selecting to use FLASH on control panel either as Earth key or Flash key.
		2	Flash	
052	DIAGNOSTIC PASSWORD		(----)	Setting the password for Remote Diagnostic Mode. Please ask your Panasonic Authorized Dealer for details.
053	SUB-ADDRESS PASSWORD		(----)	Setting a 20-digit password for secured sub-address communication.
054	FAX FORWARD	1	Invalid	Selecting whether the machine performs Fax Forwarding to the specified destination. (See page 138)
		2	Valid	
058	LANGUAGE	1	French	Selecting the language to be shown on the display and reports.
		2	English	
060	OPTION PAGE MEMORY (D-RAM Card)	1	0MB	Set the size of the page memory to match the optional Expansion D-RAM Card installed in the machine. (See page 201)
		2	2MB	
		3	4MB	
		4	8MB	
065	PRINT COLLATION	1	Invalid	Selecting whether the machine prints out documents in sequence. (See page 116)
		2	Valid	
082	QUICK MEMORY XMT	1	Invalid	Selecting whether the machine performs QUICK Memory Transmission. (See page 92 to 96) **Invalid** : Stores all documents into memory first before dialling the telephone number.
		2	Valid	**Valid** : Starts dialling the telephone number immediately after storing the first page or when the storing data reaches 10KB.
099	MEMORY SIZE (Flash Memory)	-	-	Displays the amount of base and optional memory installed. (Base Memory + Optional Memory)
140	LAN RELAY XMT REQUEST	1	Invalid	Selecting whether the machine performs LAN Relay XMT Request.
		2	Valid	
141	LAN XMT REDUCTION	1	Invalid	Selecting whether to automatically reduce from B4 to A4, when B4 documents are transmitted via LAN. **Invalid** : No reduction **Valid** : Automatic reduction from B4 to A4
		2	Valid	
142	RELAY XMT (a.k.a. LAN RELAY STATION on UF-770i)	1	Invalid	Selecting whether the machine accepts and performs G3 relayed transmission. (Relay Station Functions)
		2	Valid	

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No.	Parameter	Setting Number	Setting	Comments
143	RELAY XMT REPORT	1	Off	Setting how the COMM. Journal for relayed transmission is sent to the originator. **Off** : Don't send. **Always** : Always send. **Inc.only** : Send only if communication has failed.
		2	Always	
		3	Inc. only	
144	EMAIL CHARACTER SET	1	Japanese	Selecting the Character Set when receiving or sending email text.
		2	English	
145	SENDER SELECTION	1	Invalid	Selecting a pre-programmed sender's name and email address before each transmission. (See page 125)
		2	Valid	
146	POP TIMER	--	0 to 60 min.	Setting the time interval for the machine to check for email on the POP Server. (0 = Does not check the POP Server for email.)
		3	3 min.	
147	AUTO POP RCV	1	Invalid	Selecting whether the machine automatically downloads an email from the POP Server.
		2	Valid	
148	DELETE POP RCV EMAIL	1	Invalid	Selecting whether the email will be deleted automatically after retrieval from the POP Server.
		2	Valid	
149	DELETE POP ERR EMAIL	1	Invalid	Selecting whether to delete the email that includes an incompatible file attachment from the POP Server.
		2	Valid	
150	IFAX RETURN RECEIPT	1	Invalid	Selecting whether to send a return receipt when receiving from another Panafax Internet Fax.
		2	Valid	
151	EMAIL HEADER FORMAT	1	All	Selecting the header information to print when an email is received. (Normally used for Troubleshooting. It shows the path of the email transmission before arriving at the DX-2000.)
		2	Subject/From/To	
		3	Off	
152	SUB-ADDRESS ROUTING	1	Invalid	Selecting whether to automatically route a received fax or email using ITU-T sub-address.
		2	Valid	
153	TSI ROUTING	1	Invalid	Selecting whether to route a received fax to a telephone number or an email address preprogrammed in One-Touch, ABBR No. or Program Key using the originating fax's Numeric ID (TSI frame information).
		2	Valid	
154	ROUTING HEADER FORMAT	1	Originator	Selecting the type of email header to be included in the "From" field of each routed faxes. **Originator** : The originating fax machine's TSI will appear in the "From" field of the routed email. **Relay Station** : The routing station's email address will appear in the "From" field of the routed email.
		2	Relay Station	
155	PRINT ROUTED DOCUMENT	1	Inc. only	Selecting whether a received fax to be routed is always printed or only when the routing operation fails.
		2	Always	

3

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►Customizing Your Machine

No.	Parameter	Setting Number	Setting	Comments
156	PRINT FORWARDED DOCUMENT	1	Inc. only	Selecting whether a memory received fax or email to be forwarded is always printed or only when forwarding is incomplete.
		2	Always	
157	TRANSACTION JOURNAL	1	Invalid	Selecting whether the machine sends a transaction journal to the pre-programmed email address.
		2	Valid	
158	PC REMOTE UPDATE	1	Invalid	Selecting whether the machine will accept commands from an email application, to: (See page 46 to 62)
		2	Valid	(a) Program the Internet Parameters (b) Program the Auto Dialler (c) Allow retrieval of the Journal
159	SUBJECT LINE ENTRY	1	Invalid	Selecting whether the "Subject" line can be programmed during each transmission.
		2	Valid	
160	DEFAULT DOMAIN	1	Invalid	Selecting whether the machine accepts to insert the Default Domain (See page 41) when entering Manual Number Dialling.
		2	Valid	
161	DNS SERVER	1	Invalid	Selecting whether to use the DNS Server for the Internet communication.
		2	Valid	
162	TIFF VIEWER URL	1	None	Selecting whether to include the URL address in the email message body.
		2	English	
		3	English +Japanese	
163	ROUTING HEADER	1	Invalid	Selecting whether to add the Header Print information of the Routing Station on the top edge of each routed pages.
		2	Valid	
164	IFAX XMT HEADER (Email only)	1	Included	Selecting whether to include the header when sending a document to an addressee in the same Domain as specified in the Default Domain parameter. (This is useful when using the machine to scan documents back to your PC)
		2	Not included	**Note:** When sending to a Domain other than as specified in the Default Domain parameter, the header will be included regardless of the selection.

! Note:
1. The standard setting are printed on the Fax Parameter List. To print out Fax Parameter List, see page 178.
2. The contents of Fax Parameter may differ depending on the each country's regulation or specification.

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Documents You Can Send

In general, your machine will send any document printed on A4 size paper.

| Document Size | | Document Thickness |

4

Maximum Size

280 mm

2000 mm

Direction

Minimum Size

148 mm

128 mm

Direction

Single sheet:
0.06 mm(45 g/m^2) to
0.15 mm(112 g/m^2)

Multiple sheets:
0.06 mm(45 g/m^2) to
0.12 mm(75 g/m^2)
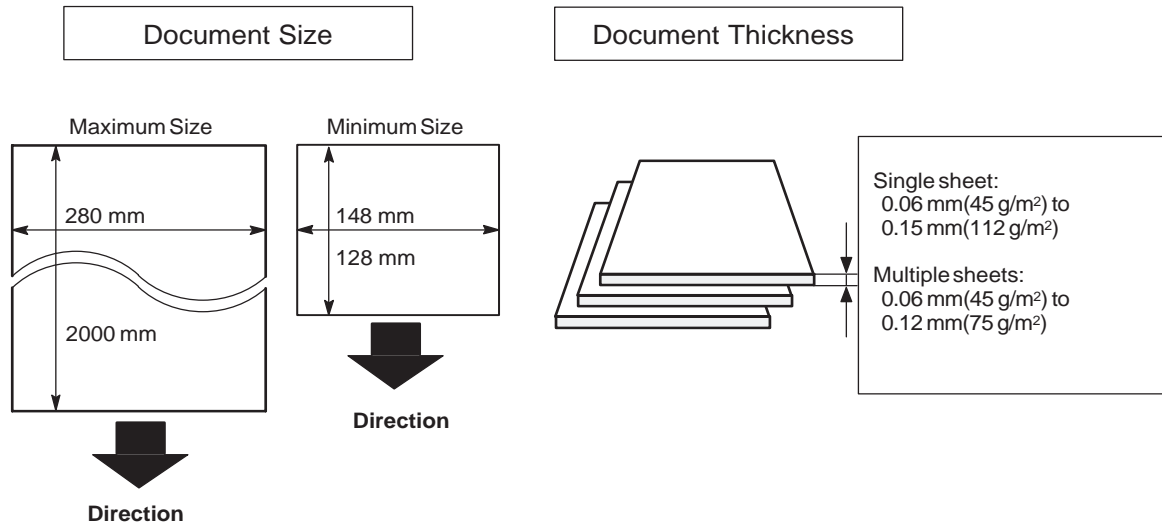
Documents You Cannot Send

You must never try to send documents that are:
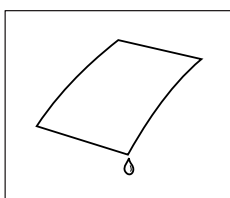
Wet
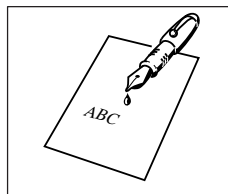
Covered with wet ink
or paste
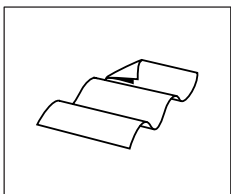
Too thin (e.g., onionskin,
airmail paper, pages from
some magazines, etc.)
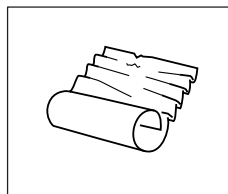
Wrinkled, curled or
folded
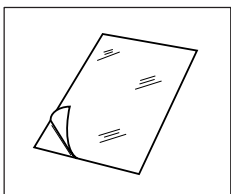
Coated (e.g., glossy
paper, etc.)
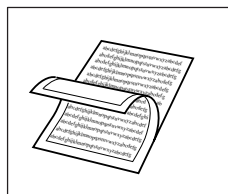
Chemically processed
(e.g., pressure-sensitive paper,
carbon-coated paper, etc.)
or made of cloth or metal

To transmit these kinds of documents, make a photocopy first and then transmit the copy instead.

How to Load Documents

6. Be sure the document(s) is free of staples, paper clips and is not torn, greasy or covered by foreign objects.
7. Place the document(s) **FACE DOWN** on the Automatic Document Feeder (ADF) until the leading edge placed into the machine stops.
   If you are sending multiple pages, make sure that **the bottom sheet enters first**. You can also stack **up to 50 PAGES** on the ADF at one time. If you have more than 50 pages, wait until transmission or storing in memory starts as pages feed through, place any remaining pages on top of the last page in the feeder.
8. Adjust the Document Guides to center the document on the ADF.

Document Guides

CORRECT

INCORRECT
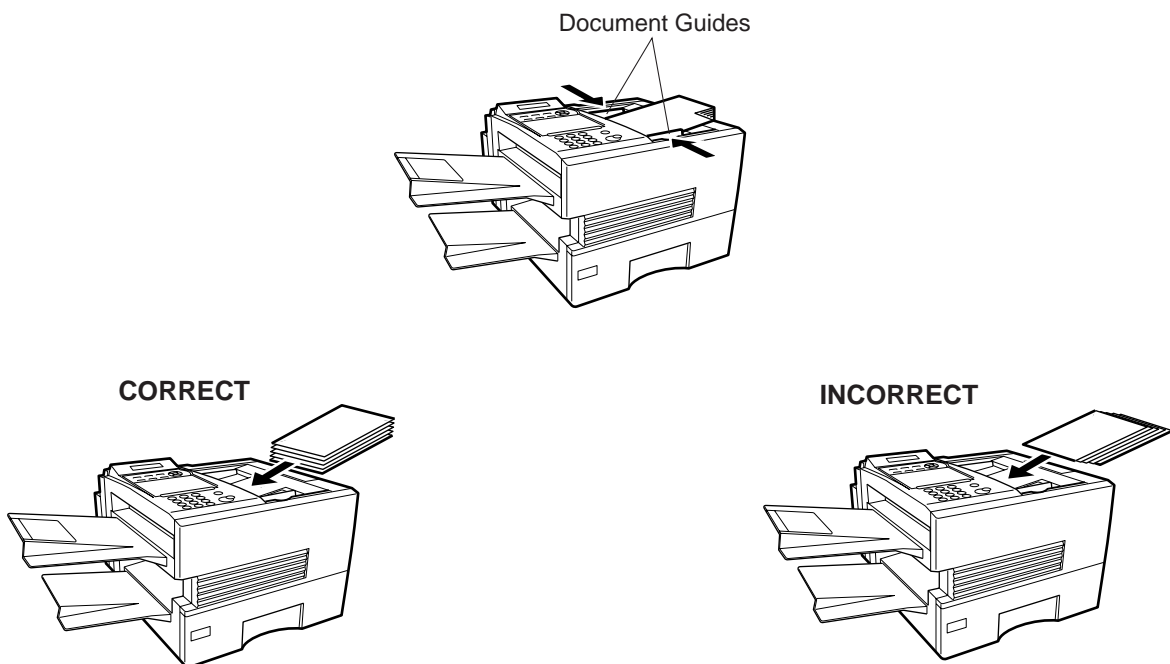
When you set a document on the ADF, the display message will change from date and time (standby) to the following message. You can now change basic transmission settings, or begin the dialling procedure.

```
ENTER STATION(S)
THEN PRESS START 00%
```

⚠️ *Note:*
　　1. *Transmitting documents longer than 356 mm requires user's assistance.*
　　2. *When transmitting documents longer than A4 size, please extend the sub-tray as shown below.*

Sub - Tray

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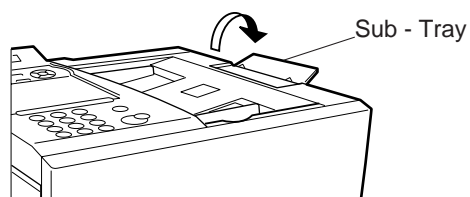
You can temporarily change the transmission settings either before or after you place the document on the ADF. These settings are as follows;
- Contrast
- Resolution
- Halftone
- Stamp

After your document has been sent, your machine will automatically return to the preset settings.

4

Contrast

Your machine is preset to **Normal** contrast. If you wish to send a document with lighter contrast, change the setting to **Lighter**. If you wish to send a document with darker contrast, change the setting to **Darker**.

Press CONTRAST to:

☐ DARKER ☐ LIGHTER CONTRAST	☐ DARKER ▣ LIGHTER CONTRAST	▣ DARKER ☐ LIGHTER CONTRAST
CONTRAST = Normal	CONTRAST = Lighter	CONTRAST = Darker
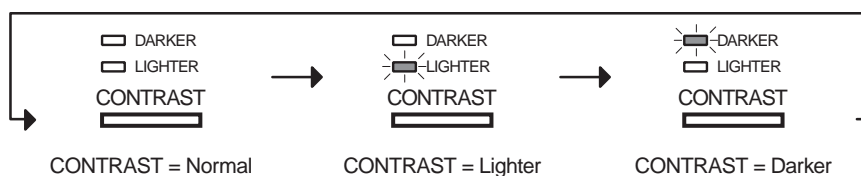
Resolution

Your machine is preset to **Fine** resolution, this setting is suitable for most business documents. If required, this setting can be changed to **Normal** or **400 dpi**.

Press RESOLUTION to:

☐ 400 dpi ☐ FINE RESOLUTION	☐ 400 dpi ▣ FINE RESOLUTION	▣ 400 dpi ☐ FINE RESOLUTION
RESOLUTION = Standard	RESOLUTION = Fine	RESOLUTION = 400 dpi
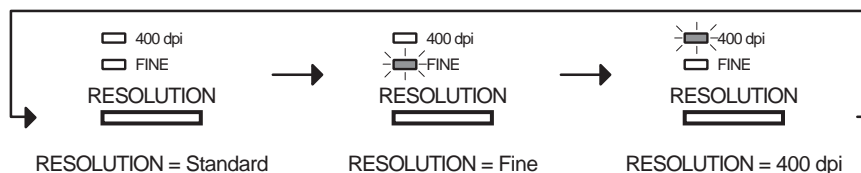
Compatibility with Other 400 dpi Machines

- G3: DX-1000, DX-2000, UF-595, UF-885, UF-895 and other manufacturer's 400 dpi compatible machines.
- Internet Fax: DX-1000, DX-2000, PC email Recipients and other manufacturer's 400 dpi compatible Internet Fax machines.

⚠ **Note:**
1. To change the preset Contrast position, change the setting of Fax Parameter No. 001, see page 72.
2. To change the preset Resolution position, change the setting of Fax Parameter No. 002, see page 72.
3. If you send a photographic document with Halftone set to Fast or Quality and the Resolution set to Super Fine (406 x 391 dpi), the reproduction of the received document will be determined by the capability of the remote station.

►Basic Transmission Settings

Halftone

The Halftone setting is useful when sending photographs or illustrations with gray tones. Your machine is preset to HALFTONE = Off. You can select either Fast or Quality mode.
Press ⎢HALFTONE⎥ to:

☐ FAST	☐ FAST	▨ FAST
☐ QUALITY	▨ QUALITY	☐ QUALITY
HALFTONE	HALFTONE	HALFTONE
HALFTONE = Off	HALFTONE = Quality	HALFTONE = Fast
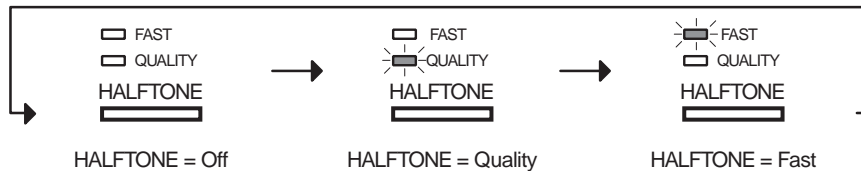
Verification Stamp

The Verification Stamp helps you to confirm successful transmissions by stamping the bottom of each successfully transmitted page with a small ⊗ mark.

Press ⎢STAMP⎥ to switch it ON or OFF. Press ⎢ SET ⎥ to return to standby.

STAMP	STAMP
STAMP = On	STAMP = Off
STAMP=ON	STAMP=OFF
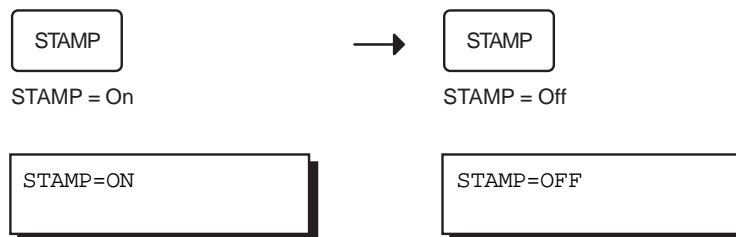
⚠ **Note:**

    1. When you select HALFTONE, FAST or QUALITY, your machine will automatically select Fine Resolution.

    2. When you store a document in memory, the Verification Stamp will stamp on the document if it is successfully stored in memory. In this case the Verification Stamp is not a confirmation that the document was successfully transmitted. If you wish to disable the use of the Verification Stamp when storing document in memory, change the setting of Fax Parameter No. 028, see page 73.

    3. To change the preset Verification Stamp position, change the setting of Fax Parameter No. 004, see page 72.

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Document(s) can be sent via LAN to a single or multiple email addresses. The following dialling methods can be selected:

- • Manual Number Dialling
- • One-Touch Dialling
- • Abbreviated Dialling
- • Directory Search Dialling
- • Multiple Station Dialling

4

The Memory Transmission mode is automatically selected by your machine if an email address is registered into the chosen One-Touch key(s), Program key(s), or Abbreviated Number key(s).

The document is always stored into memory first, then the machine starts to send the email message.

Direct Transmission, Voice Mode Transmission, and Redialling features are not available for sending documents via LAN.

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Manual Number Dialling

1

Set document(s) face down.

You can temporarily change the transmission settings.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2
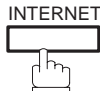
INTERNET

To choose Internet communication.

```
■
ENTER EMAIL ADDRESS
```

3 Enter the full email address by using Character keys (up to 60 characters). or enter part of an email address and use ▼ or ▲ or keys to display the email address you want to send to.

```
abc@panasonic.com
```

Ex: [a] [b] [c] [27] [@] [p] [a] [n] [a] [s] [o] [n] [i] [c]

[28] [.] [c] [o] [m]

If you make a mistake, press [CLEAR] to erase the character then reenter the correct character.

　　or

Ex: [a] [b] [c]

The machine will complete the email address. (see Note 3)

```
abc
```

4

START

```
* STORE *     NO.001
      PAGES=001  01%
```

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

The document(s) is stored into memory with a file number. Then starts sending the email message.

```
ON LINE * MEM.XMT *
ID:abc@panasonic.com
```

⚠ Note:

1. If your machine sounds an alarm (pi-pi-pi) at Step 2, this indicates that the Dialer is Full (more than 70 full email addresses are entered or 70 transmission reservations including G3 communication have been already reserved).
2. If the transmission can not be completed for any reason, the email may be returned undelivered, otherwise no reply will be printed.
3. For the machine to perform the email address completion the Fax Parameter No. 160 (DEFAULT DOMAIN) must be set to "Valid" and the DEFAULT DOMAIN must be preprogrammed in the Setting the Internet Parameters (see page 41).

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One-Touch Dialling

One-Touch Dialling allows you to dial a full email address or telephone number by pressing a single key. To use this method, you must first preprogram the email address or telephone number into the One-Touch keys.

1 Set document(s) face down.

You can temporarily change the transmission settings.

```
ENTER STATION(S)
THEN PRESS START 00%
```

4

2 Press a One-Touch key (01-32).

Ex: | 01 |

```
<01>(Station name)
abc@panasonic.com■
```

If a telephone number is stored into the One-Touch key, the display shows:

```
<01>(Station name)
5551234
```

3

START

The document(s) is stored into memory with a file number. Then starts sending the email message.

```
* STORE *     NO.001
      PAGES=001  01%
```

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

```
ON LINE * MEM.XMT *
ID:(Station name)
```

⚠ **Note:**
1. If your machine sounds an alarm (pi-pi-pi) at Step 2, this indicates that the Dialer is Full (more than 70 transmission reservations including G3 communication have been already reserved).
2. If the transmission can not be completed for any reason, the email may be returned undelivered, otherwise no reply will be printed.

►Sending Documents via LAN

Abbreviated Dialling

Abbreviated Dialling is a speedy way to dial a frequently dialed email address or telephone number.

To use this method, you must first preprogram the email address or telephone number into the built-in auto-dialler with a 3-digit abbreviated code.

1

Set document(s) face down.

You can temporarily change the transmission settings.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 Press ⌷ABBR⌷ and then enter a 3-digit code (000 to 999).

Ex: ABBR (1)(0)(0)
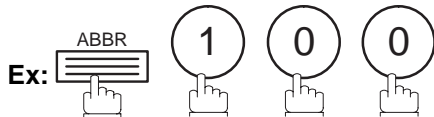
If a telephone number is stored into the ABBR key, the display shows:

```
[100](Station name)
xyz@panasonic.com▮
```

```
[100](Station name)
5553456
```

3

START

The document(s) is stored into memory with a file number. Then starts sending the email message.

```
* STORE *    NO.001
     PAGES=001  01%
```

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

```
ON LINE * MEM.XMT *
ID:(Station name)
```

⚠ **Note:**

1. If your machine sounds an alarm (pi-pi-pi) at Step 2, this indicates that the Dialer is Full (more than 70 transmission reservations including G3 communication have been already reserved).
2. If the transmission can not be completed for any reason, the email may be returned undelivered, otherwise no reply will be printed.

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Directory Search Dialling

When sending via LAN, the Directory Search function allows you to dial a full email address or telephone number by searching for the station name or email address entered in One-Touch keys or Abbreviated dialling numbers.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

You can temporarily change the transmission settings.

4

2a   DIRECTORY SEARCH   to search for the station name.

```
ENTER LETTER(S)
■
```
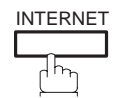
2b   INTERNET   to search for email address.

```
■
ENTER EMAIL ADDRESS
```

3a   Enter the full or part of a station name using the Character keys. (See page 12)

Ex: P A N A   SET   to search for **PANASONIC**

```
ENTER LETTER(S)
PANA■
```

If you make a mistake, press CLEAR to erase the character and then re-enter the correct character.

3b   Enter the full or part of an email address using the Character keys.

Ex: X to search for XYZ@PANASONIC.COM

```
X
xyz@panasonic.com
```

4   or
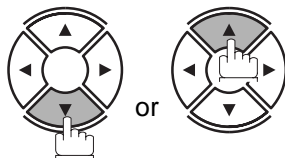
repeatedly until display shows the station name or email address you want to send to.

```
[100] PANASONIC
xyz@panasonic.com
```
or
```
X
xyz@panasonic.com
```

5   START
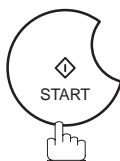
The document(s) is stored into memory with a file number. Then starts sending the email message.

```
* STORE *    NO.001
    PAGES=001  01%
```

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

```
ON LINE * MEM.XMT *
ID:PANASONIC
```

⚠ **Note:**

1. *If your machine sounds an alarm (pi-pi-pi) at Step 2, this indicates that the Dialer is Full (more than 70 transmission reservations including G3 communication have been already reserved).*

2. *If the transmission can not be completed for any reason, the email may be returned undelivered, otherwise no reply will be printed.*

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▶Sending Documents via LAN

Returned Email

When using the Internet communication mode, a failure report will print automatically for each transaction if the email is returned undelivered by the mail server. The one page printout will consist of the undelivered message contents supplied by the mail server and a portion of the first page's image for that particular transaction.

Failure Report Sample (User unknown)

```
Received: from localhost (localhost) by ifeif1.rdmg.mgcs.mei.co.jp (8.6.12/3.4W3) with
internal id OAA24381; Sun, 12 Sep 1999 14:52:57 +0900
Date: Sun, 12 Sep 1999 14:52:57 +0900
From: Mail Delivery Subsystem <MAILER-DAEMON@ifeif1.rdmg.mgcs.mei.co.jp>
Subject: Returned mail: User unknown
Message-Id: <199909120552.OAA24381@ifeif1.rdmg.mgcs.mei.co.jp>
To: <fax@nwpc31.rdmg.mgcs.mei.co.jp>

The original message was received at Sun, 12 Sep 1999 14:52:54 +0900
from nwpc31.rdmg.mgcs.mei.co.jp [172.21.22.51]

    ----- The following addresses had delivery problems -----
<error@nwr39.rdmg.mgcs.mei.co.jp>   (unrecoverable error)

    ----- Transcript of session follows -----
.... while talking to nwr39.rdmg.mgcs.mei.co.jp.:
>>> RCPT To:<error@nwr39.rdmg.mgcs.mei.co.jp>
<<< 550 <error@nwr39.rdmg.mgcs.mei.co.jp>... User unknown
550 <error@nwr39.rdmg.mgcs.mei.co.jp>... User unknown

    ----- Original message follows -----
Return-Path: fax@nwpc31.rdmg.mgcs.mei.co.jp
Received: from nwpc31.rdmg.mgcs.mei.co.jp (Internet FAX) (nwpc31.rdmg.mgcs.mei.co.jp [172.21
.22.51]) by ifeif1.rdmg.mgcs.mei.co.jp (8.6.12/3.4W3) with SMTP id OAA24380 for <error@nwr39
.rdmg.mgcs.mei.co.jp>; Sun, 12 Sep 1999 14:52:54 +0900
Message-Id: <199909120552.OAA24380@ifeif1.rdmg.mgcs.mei.co.jp>
Mime-Version: 1.0
Content-Type: image/tiff
Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename="image.tif"
Content-Description: image.tif
X-Mailer: Internet FAX, MGCS
Date: Sun, 12 Sep 1999 14:49:00 +0900
From: "DX-2000" <fax@nwpc31.rdmg.mgcs.mei.co.jp>
Subject: IMAGE from Internet FAX
To: error@nwr39.rdmg.mgcs.mei.co.jp
```

SEP-12-1999 14:49   DX-2000   P.01/01

THE SLEREXE COMPANY LIMITED

SAPORS LANE - BOOLE - DORSET - BH 25 8 ER

TELEPHONE BOOLE (945 13) 51617 - TELEX 123456

Our Ref. 350/PJC/EAC   18th January, 1972.

Dr. P.N. Cundall,
Mining Surveys Ltd.,
Holroyd Road
Reading,
Berks.

Dear Pete,

        Permit me to introduce you to the facility of facsimile
transmission.

        In facsimile a photocell is caused to perform a raster scan over
the subject copy. The variations of print density on the document cause

86

Multi-Station Transmission (Broadcasting)

You can store the document(s) into memory and then send to multiple stations (up to 270 addresses) via LAN.

1

Set document(s) face down.

You can temporarily change the transmission settings.

```
ENTER STATION(S)
THEN PRESS START 00%
```

4

2 Enter email addresses by any combination of the following methods:
- One-Touch Dialling
- Abbreviated Dialling
- Directory Search Dialling, press SET after each email address is entered.
- Manual Number Dialling, press SET after each station is entered (up to 70 addresses).

Ex: 01

ABBR ① ⓪ ⓪

If you want to confirm the number of stations you have entered, press SET .

```
<01>(Station name)
abc@panasonic.com■
```

```
[100](Station name)
xyz@panasonic.com■
```
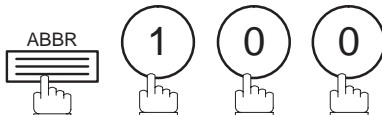
```
 2 STN(S) ARE SET
ADD MORE OR START
```

3

START

The document(s) is stored into memory with a file number.
Then starts sending the email message.

```
* STORE *     NO.001
      PAGES=001  01%
```

```
* STORE * COMPLETED
TOTAL PAGE=005   25%
```

```
ON LINE * MEM.XMT *
ID:abc@panasonic.com
```

⚠ **Note:**
1. *If your machine sounds an alarm (pi-pi-pi) at Step 2, this indicates that the Dialer is Full (more than 70 full email addresses are entered or 70 transmission reservations including G3 communication have been already reserved).*
2. *If the transmission can not be completed for any reason, the email may be returned undelivered, otherwise no reply will be printed.*
3. *The unit will accept a combination of email addresses and PSTN dialling numbers.*

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▶Sending Documents via LAN

Using a Mailing List

Using a Mailing List stored in the mail server simplifies the process of entering multiple locations and allows you to send to an unlimited number of email addresses with one easy operation.

Ask your Network System administrator for information on how to utilize the Mailing List.

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Transmission Reservation

You can reserve the next transmission into memory for up to 70 different files while sending a document from memory or receiving a document via LAN.

Memory Transmission Reservation (Multitasking)

If your machine is on-line busy transmitting from memory, receiving or printing received documents, you can reserve a transmission by the following procedure.

4

1   Your machine is on-line, the ON LINE lamp is blinking or printing received documents.

```
ON LINE * MEM.XMT *
ID:(Identification)
```

```
ON LINE * RCV *
ID:(Identification)
```

```
ON LINE * RCV *
ID:Printing Data
```

```
* PRINTING *
MEMORY RCV'D DOC
```

```
* PRINTING *
PC DATA
```

```
ENTER STATION(S)
THEN PRESS START 00%
```
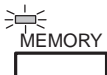
2   Set document(s) face down.

3   MEMORY

Make sure that the MEMORY lamp is on.
If not, press MEMORY to set "On".

4   Enter email addresses by any combination of the following methods:
- One-Touch Dialling
- Abbreviated Dialling
- Directory Search Dialling, press SET after each email address is entered.
- Manual Number Dialling, press SET after each station is entered (up to 70 addresses).

Ex: 01

ABBR (1) (0) (0)

If you want to confirm the number of stations you have entered, press SET .

```
<01>(Station name)
abc@panasonic.com■
```

```
[100](Station name)
xyz@panasonic.com■
```

```
 2 STN(S) ARE SET
ADD MORE OR START
```

```
* STORE *    NO.001
     PAGES=001  01%
```

5   START

Your machine will store the document(s) into memory.

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

! *Note:*
   1. To cancel the memory transmission reservation, see page 143.

89

Redialling

Automatic Redialling

If a communication error is detected with Information Code 710, 714, 715, 716, 717 or 725, the machine will redial the number up to 5 times at 3 minutes interval. However, if other errors are detected, the machine will redial only one time. During that time, a message will appear as shown to the right.
A file number is shown in the upper right hand corner of the display.

```
WAIT TO DIAL  NO.001
(Email address)
```

Manual Redialling

You can also redial the last dialed number manually by pressing | REDIAL | key.

1 Set document(s) face down.
Make sure that the MEMORY lamp is on.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 PAUSE REDIAL

```
abc@panasonic.com
```
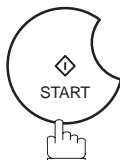
3 START

The document is stored into memory with a file number.
Then dials the last dialed number.

```
* STORE *     NO.001
     PAGES=001  01%
```

```
*CONNECTING*  NO.002
ID:abc@panasonic.com
```

⚠ **Note:**

    1. While the unit is displaying "WAIT TO DIALL", you can press | REDIAL | to start redialling immediately.

90

When sending a document via telephone line, you can choose either Memory or Direct Transmission.

Use Memory Transmission if:
- You want to send the document to multiple stations.
- You have to retrieve the document immediately.
- You want to take the advantage of the Multitasking design.

Use Direct Transmission if:
- The memory is full.
- You want to send the document immediately.

Use Voice Mode Transmission:
- You want to send the document after talking with the other party.
- You want to send the document after listening to a voice prompting.

Memory Transmission

Your machine quickly stores the document into the machine's memory.
Then, starts to dial the telephone number.
If the transmission fails, your machine will re-transmit the remaining unsuccessful page(s) automatically.

(1) Store document in memory   **(2)** Transmit   **(3)** Receive

4

91
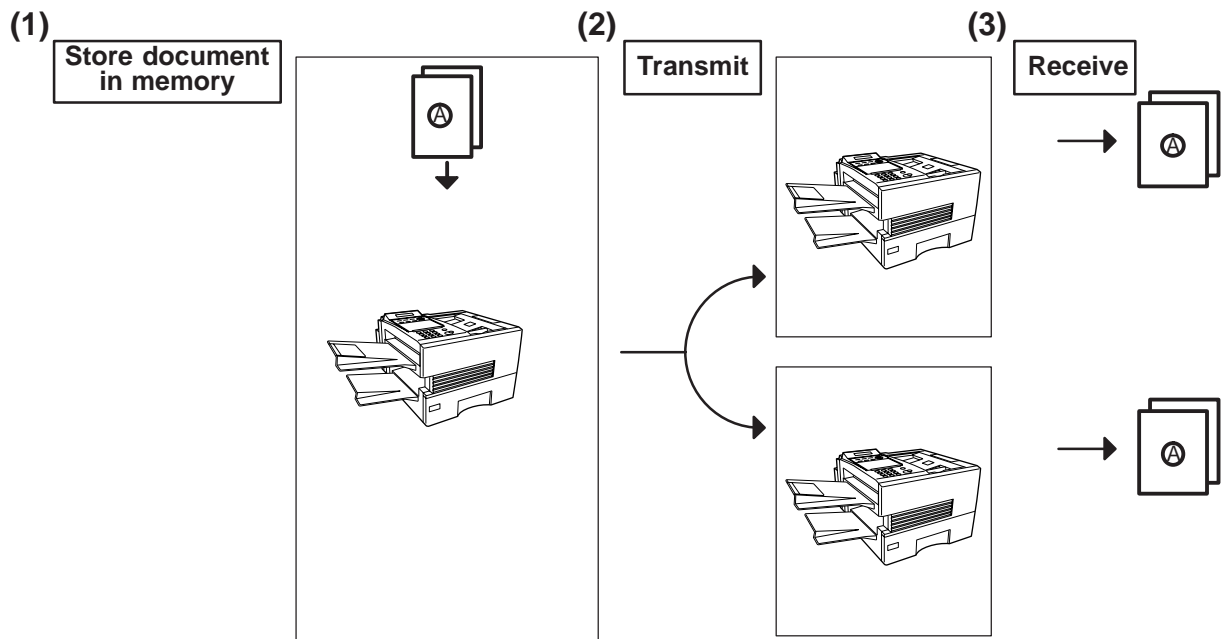
▶Sending Documents via Telephone Line

⚠ Note:

1. The File Number of the document being stored is shown at the upper right corner of the display while storing the document. It is also printed on the Communication Journal (COMM. JOURNAL), Transaction Journal and File List. The percentage of memory used is shown on the lower right corner of the display after each page is stored.

```
* STORE *      NO.003
     PAGES=002   10%
```

```
* STORE * COMPLETED
TOTAL PAGES=005   30%
```

2. If memory overflow occurs while storing documents, the remaining documents on the ADF will be ejected. The machine prompts you whether to transmit the successfully stored documents or to cancel the transmission. Press ① to cancel or press ② to transmit.

    If Fax Parameter No. 082 (Quick Memory XMT) is set to "Invalid", the machine stores all the documents into memory first before transmitting.

    After storing each document, the machine checks the available memory to prevent memory overflow and stops storing additional documents if the stored data approaches a certain percentage* (around 80%).

    Then the machine dials and sends the memory stored documents first and continues the transmission of the remaining documents from the ADF during the same phone call.

    If transmitting to multiple stations or if memory overflows while storing a document, the machine prompts you whether to transmit the successfully stored documents or to cancel the transmission. Press ① to cancel or press ② to transmit.

    See the Specifications on page 198 for the image memory capacity.

    If no action is taken within 10 seconds, the machine will start transmitting the stored documents.

    * The percentage varies and its dependent on the type of documents you are storing, machine settings or whether an optional memory card is installed.

```
MEMORY OVERFLOW
 INFO. CODE=870
```

```
15 PAGES COMPLETED
DELETE? 1:YES 2:NO
```

3. An Information Code will be displayed if the transmission has failed or no answer at the receiving side after the last automatic redial.

    The document stored for this transmission will be erased from the memory automatically and the information code is printed for the transmission on the Communication Journal (COMM. JOURNAL).

    If you need to retain the incomplete documents even after the last redial, change Fax Parameter No. 031 (INC. FILE SAVE) to "Valid" in advance.(see page 73) To retry the incomplete documents, refer to page 145.

```
INCOMPLETE
 INFO. CODE=XXX
```

4. To stop the transmission, press ⬚ STOP ⬚.
    The display shows:

```
COMMUNICATION STOP?
1:YES 2:NO
```

    Press ① to stop the transmission. The document you stored will be erased automatically.

    If you do not want to erase the documents, change the setting of Fax Parameter No. 031 (INC. FILE SAVE) to "Valid" in advance. (see page 73)

    Then the following display will appear and you can select whether to save the file as an incomplete file for editing and retry, or delete the file manually.

```
SAVE AS INCOMP.FILE?
1:YES 2:NO
```

5. If you would like to print a Communication Journal (COMM. JOURNAL) after stopping a transmission, press ① when the display shows:

```
PRINT COMM. JOURNAL?
1:YES 2:NO
```

92

Manual Number Dialling

To dial the telephone number manually, follow the steps below.

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

4

2
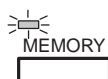
MEMORY

Make sure that the MEMORY lamp is on.
If not, press ⌷ MEMORY ⌷ to set "On".

3 Enter a telephone number from the keypad.

Ex: ⑤⑤⑤①②③④

```
TEL. NO.
5551234■
```

4
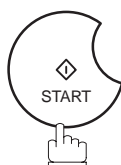
START

```
* STORE *     NO.001
        PAGES=001  01%
```

The document(s) begin to store into memory with a file number.
Then starts dialling the telephone number immediately after storing the first page. (See Note 3)
The remaining page(s) continue to store into memory.

```
* DIALLING *   NO.002
5551234
```

⚠ **Note:**

1. If you need a special access number to get an outside line, dial it first then press ⌷ PAUSE ⌷ to enter a pause (represented by a "-") before dialling the full number.
   Ex: 9 PAUSE 5551234

2. If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling, press ⌷ TONE ⌷ (represented by a "/").
   The dialling mode will be changed from Pulse to Tone after dialling the digit "/".
   Ex: 9 PAUSE TONE 5551234

3. This feature is called "**Quick Memory Transmission**". If you wish to store All the document(s) into memory first before transmitting, change the Fax Parameter No. 082 (QUICK MEMORY XMT) to "Invalid". (See page 74)

93

One-Touch Dialling

One-Touch Dialling allows you to dial a full telephone number by pressing a single key. To set up the One-Touch keys, see page 63.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2   MEMORY

Make sure that the MEMORY lamp is on.
If not, press ⌈ MEMORY ⌋ to set "On".

3   Press a One-Touch key.

Ex: 01

```
<01>(Station name)
5551234
```

4   START

```
* STORE *     NO.001
      PAGES=001  01%
```

The document(s) begin to store into memory with a file number.
Then starts dialling the telephone number immediately after storing the first page. (See Note 1)
The remaining page(s) continue to store into memory.

```
* DIALLING*   NO.002
(Station name)
```

⚠ **Note:**
     1. This feature is called "**Quick Memory Transmission**". If you wish to store All the document(s) into memory first before transmitting, change the Fax Parameter No. 082 (QUICK MEMORY XMT) to "Invalid". (See page 74)

Abbreviated Dialling

Abbreviated dialling is a speedy way to dial a frequently dialed telephone number by preprogramming the telephone number into the built-in auto-dialer with a 3-digit abbreviated code. To program an abbreviated dialling number, see page 65.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2   MEMORY

Make sure that the MEMORY lamp is on.
If not, press ⌊ MEMORY ⌋ to set "On".

3   Press ⌊ ABBR ⌋ then enter a 3-digit code.

```
[100](Station name)
5553456
```

Ex: ABBR (1) (0) (0)

4   START

```
* STORE *    NO.001
     PAGES=001  01%
```

The document(s) begin to store into memory with a file number.
Then starts dialling the telephone number immediately after storing the first page. (See Note 1)
The remaining page(s) continue to store into memory.

```
* DIALLING*   NO.002
(Station name)
```

⌊!⌋ **Note:**
　1. This feature is called "**Quick Memory Transmission**". If you wish to store All the document(s) into memory first before transmitting, change the Fax Parameter No. 082 (QUICK MEMORY XMT) to "Invalid". (See page 74)

95

Directory Search Dialling

Directory Search dialling allows you to dial a full telephone number by searching the station name entered in One-Touch keys or Abbreviated dialling numbers.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2   MEMORY

Make sure that the MEMORY lamp is on.
If not, press ⎡MEMORY⎤ to set "On".

3   DIRECTORY SEARCH

```
ENTER LETTER(S)
■
```

4   Enter the full station name or part of a station name by using the Character keys (see page 12).

Ex: ⎡P⎤⎡A⎤⎡N⎤⎡A⎤ to search for **PANASONIC**

```
ENTER LETTER(S)
PANA■
```

5

or

repeatedly until the display shows the station name you want to send to.

```
[100] PANASONIC
5553456
```

6   START

```
* STORE *     NO.001
     PAGES=001  01%
```

The document(s) begin to store into memory with a file number.
Then starts dialling the telephone number immediately after storing the first page. (See Note 1)
The remaining page(s) continue to store into memory.

```
* DIALLING *  NO.002
PANASONIC
```

!	**Note:**

     *1. This feature is called "**Quick Memory Transmission**". If you wish to store All the document(s) into memory first before transmitting, change the Fax Parameter No. 082 (QUICK MEMORY XMT) to "Invalid". (See page 74)*

96

Multi-Station Transmission (Broadcasting)

If you have to send the same document(s) to multiple stations, you can save time in feeding the document(s) by using memory transmission. That is, you can store the document(s) into memory and then send it to the station(s) automatically.

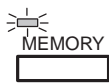**1** Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

4
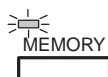
2 MEMORY

Make sure that the MEMORY lamp is on.
If not, press ⌐MEMORY⌐ to set "On".

3 Dial by any combination of the following methods:
- One-Touch Dialling
- Abbreviated Dialling
- Manual Number Dialling, press ⌐SET⌐ after each station is entered (up to 70 stations).
- Directory Search Dialling, press ⌐SET⌐ after each station is entered
  (For details, see page 93 to 96.)

Ex: 01

ABBR ① ⓪ ⓪

```
<01>(Station name)
5551234
```

```
[100](Station name)
5553456
```

If you want to confirm the number of stations you have entered, press ⌐SET⌐ .

```
 2 STN(S) ARE SET
ADD MORE OR START
```

4 START

```
* STORE *    NO.001
     PAGES=001  01%
```

```
* STORE * COMPLETED
TOTAL PAGE=005   25%
```
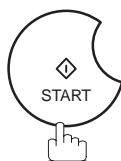
All document(s) are stored into memory with a file number.
(See Note 2)
Then starts dialling the telephone numbers in sequence.

```
* DIALLING*   NO.001
(Station name)
```

> **! Note:**
> 1. You can review the stations you entered in step 3 before storing your document into memory by pressing ▼ or ▲.
>   Press ⌐CLEAR⌐ to clear an entered station or group shown on the display if needed.
> 2. The **"Quick Memory Transmission"** is disabled if multiple stations are set.

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▶Sending Documents via Telephone Line

Direct Transmission

If your machine's memory is full or you wish to send the document immediately, use Direct Transmission.

Manual Number Dialling (Direct Transmission)

To dial the telephone number manually, follow the steps below.

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 MEMORY
Make sure that the lamp goes off.
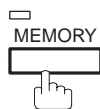
```
ENTER STATION
                  00%
```

3 Enter a telephone number from the keypad.

Ex: ⑤ ⑤ ⑤ ① ② ③ ④

```
PRESS START TO DIAL
5551234■
```
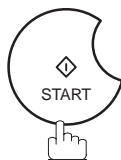
4 START
Your machine starts dialling the telephone number.

```
* DIALLING *
5551234
```

⚠ **Note:**
1. *If you need a special access number to get an outside line, dial it first then press* PAUSE *to enter a pause (represented by a "-") before dialling the full number.*
   Ex: 9 PAUSE 5551234
2. *If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling, press* TONE *(represented by a "/").*
   The dialling mode will be changed from Pulse to Tone after dialling the digit "/".
   Ex: 9 PAUSE TONE 5551234
3. *To stop the transmission, press* STOP *.*
   The display shows:

```
COMMUNICATION STOP?
1:YES 2:NO
```

Press ① *to stop the transmission. The Communication Journal will not print out regardless of the printout mode setting of the Communication Journal.*

98

One-Touch Dialling (Direct Transmission)

One-Touch Dialling allows you to dial a full telephone number by pressing a single key. To set up the One-Touch keys, see page 63.

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

4
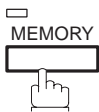
2 MEMORY Make sure that the lamp goes off.

```
ENTER STATION
              00%
```

3 Press a One-Touch key.

Ex: | 01 |

The display will show the One-Touch number and station name. The full number (e.g. 5551234) will then be dialed.

```
<01>(Station name)
5551234
```

```
* DIALLING *
(Station name)
```

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▶Sending Documents via Telephone Line

Abbreviated Dialling (Direct Transmission)

Abbreviated dialling is a speedy way to dial a frequently dialed telephone number by preprogramming the telephone number into the built-in auto-dialer with a 3-digit abbreviated code. To program an abbreviated dialling number, see page 65.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2   MEMORY   Make sure that the lamp goes off.

```
ENTER STATION
              00%
```
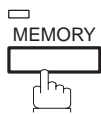
3   Press ⌷ABBR⌷ and a 3-digit code.

Ex: ABBR ① ⓪ ⓪

```
[100](Station name)
5553456
```

The display will show the ABBR number and station name.
The full number (e.g. 5553456) will then be dialed.

```
* DIALLING *
(Station name)
```

100

Directory Search Dialling (Direct Transmission)

Directory Search dialling allows you to dial a full telephone number by searching the station name entered in One-Touch keys or Abbreviated dialling numbers.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

4

2   MEMORY

Make sure that the lamp goes off.

```
ENTER STATION
                00%
```

3   DIRECTORY SEARCH

```
ENTER LETTER(S)
■
```

4   Enter the full station name or part of a station name by using the Character keys (see page 12).

Ex: P A N A to search for **PANASONIC**

```
ENTER LETTER(S)
PANA■
```

5   or

repeatedly until display shows the station name you want to send to.

```
[100] PANASONIC
5553456
```

6   START
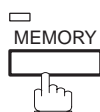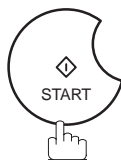
The full number (e.g. 5553456) will be dialed.

```
* DIALLING *
PANASONIC
```

101

▶Sending Documents via Telephone Line

Voice Mode Transmission

If you wish to send the document after talking with other party, use Voice Mode Transmission. Your machine requires an optional fax handset or an external telephone.

Off-Hook Dialling

For Off-Hook Dialling, follow the steps below.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2   Lift the fax handset or the external telephone and dial the telephone number from the keypad.

Ex: ⑤ ⑤ ⑤ ① ② ③ ④

3   When you hear the voice of the other party, tell the other party to prepare to receive a document.

```
ON LINE * XMT *
```

Then, when you hear a beep,

◇
START
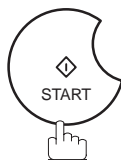
and hang up the handset.

⚠ **Note:**

     1. To stop the transmission, press ☐ STOP ☐.
     The display shows:

```
COMMUNICATION STOP?
1:YES 2:NO
```

     Press ① to stop the transmission. The Communication Journal will not print out regardless of the printout mode setting of the Communication Journal.

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On-Hook Dialling

For On-Hook Dialling, follow the steps below.

1

Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

4

2

MONITOR

You will hear dial tone through the monitor speaker.

```
* MONITOR *
■
```

3

Dial the telephone number from the keypad.

Ex: ⑤ ⑤ ⑤ ① ② ③ ④

```
* DIALLING *
5551234■
```

4

When you hear a beep,

START

```
ON LINE * XMT *
```

! *Note:*
  1. *If you need a special access number to get an outside line, dial it first then press* PAUSE *to enter a pause (represented by a "-") before dialling the full number.*
     Ex: 9 PAUSE 5551234
  2. *If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling, press* TONE *(represented by a "/").*
     The dialling mode will be changed from Pulse to Tone after dialling the digit "/".
     Ex: 9 PAUSE TONE 5551234

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►Sending Documents via Telephone Line

Transmission Reservation

You can do the following while sending a document from memory or receiving a document.
- Reserve the next transmission into memory for up to 70 different files.
- Reserve a priority transmission.

Memory Transmission Reservation (Multi-tasking)

If your machine is on-line busy transmitting from memory, receiving or printing received documents, you can reserve a transmission by the following procedure.

1 Your machine is on-line, the ON LINE lamp is blinking or printing received documents.

```
ON LINE * MEM.XMT *
ID:(Identification)
```

```
ON LINE * RCV *
ID:(Identification)
```

```
ON LINE * RCV *
ID:Printing Data
```

```
* PRINTING *
MEMORY RCV'D DOC
```

```
* PRINTING *
PC DATA
```

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 Set document(s) face down.
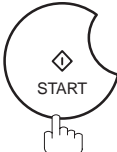
3 MEMORY

Make sure that the MEMORY lamp is on.
If not, press MEMORY to set "On".

4 Dial by any combination of the following methods:
- One-Touch Dialling
- Abbreviated Dialling
- Manual Number Dialling, press SET after each station is entered (up to 70 stations).
- Directory Search Dialling, press SET after each station is entered
  (For details, see page 93 to 96.)

Ex: 01

```
<01>(Station name)
5551234
```

5 START

Your machine will store the document(s) into memory.

```
* STORE *     NO.001
      PAGES=001  01%
```

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

> [!] **Note:**
>   1. To cancel the memory transmission reservation, see page 143.

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Direct Transmission Reservation (Priority Transmission Reservation)

If you are in a rush to send an urgent document, however there are many files in the memory, use Direct Transmission Reservation to send the urgent document. The urgent document will be sent immediately after the current communication is finished. Note that you cannot send documents to multiple stations.

To reserve your machine for sending the urgent documents

1 Your machine is on-line, the ON LINE lamp is blinking or printing received documents.

```
ON LINE * MEM.XMT *
ID:(Identification)
```

```
ON LINE * RCV *
ID:(Identification)
```

```
ON LINE * RCV *
ID:Printing Data
```

```
* PRINTING *
MEMORY RCV'D DOC
```

```
* PRINTING *
PC DATA
```

```
ENTER STATION(S)
THEN PRESS START 00%
```
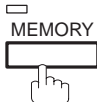
2 Set document(s) face down.

3 MEMORY Make sure that the lamp goes off.

```
ENTER STATION
              00%
```

4 Dial by using any one of the following methods:
- One-Touch Dialling
- Abbreviated Dialling
- Manual Number Dialling and press START
- Directory Search Dialling and press START
  (For details, see pages 98 to 101.)

Ex: 01

You can reserve sending an urgent document to a single station only.
A message "DIRECT XMT RESERVED" will be shown on the display.

```
<01>(Station name)
5551234
```

```
DIRECT XMT RESERVED
<01>(Station name)
```

To cancel the direct transmission reservation

1 Make sure the document is on the ADF.

```
DIRECT XMT RESERVED
<01>(Station name)
```

2 STOP

```
CANCEL XMT RESERVE?
1:YES 2:NO
```

3 1 and then remove the document from ADF.

105

Redialling
Automatic Redialling

If a busy line is detected, the machine will redial the number up to 2 times at 1 minute interval. However, if a busy line is not detected, the machine will redial only one time. During that time, a message will appear as shown to the right.

A file number is shown in the upper right hand corner of the display if it is a memory transmission file.

```
WAIT TO DIAL  NO.001
(Telephone number)
```

Manual Redialling

You can also redial the last dialed number manually by pressing REDIAL key.

To redial the last dialed number through memory

1 Set document(s) face down.
Make sure that the MEMORY lamp is on.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 PAUSE
REDIAL

```
TEL. NO.
5551234
```

3 START
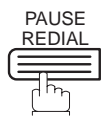
The document is stored into memory with a file number.
Then dials the last dialed number.

```
* STORE *     NO.001
      PAGES=001  01%
```

```
* DIALLING*   NO.002
5551234
```

To redial the last dialed number through ADF

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 MEMORY
Make sure that the lamp goes off.

```
ENTER STATION
             00%
```

3 PAUSE
REDIAL   START
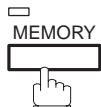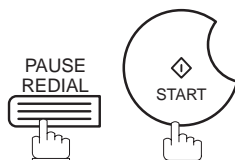
Your machine starts dialling the last dialed number.

```
PRESS START TO DIAL
5551234
```

```
* DIALLING *
5551234
```

⚠ **Note:**

1. *While the unit is displaying "WAIT TO DIAL", you can press* REDIAL *to start redialling immediately.*

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The DX-2000 offers you a choice to receive Fax documents unattended (by default) or manually over regular telephone lines.

The DX-2000 also offers the same choice to receive and print Internet email messages via LAN unattended or manually when subscribing to a POP mail server. However, when the DX-2000 is configured to receive email using SMTP protocol, the email can only be received and printed unattended.

Internet Fax Received on a PC

4

Figure 1: Windows Messaging Inbox Sample
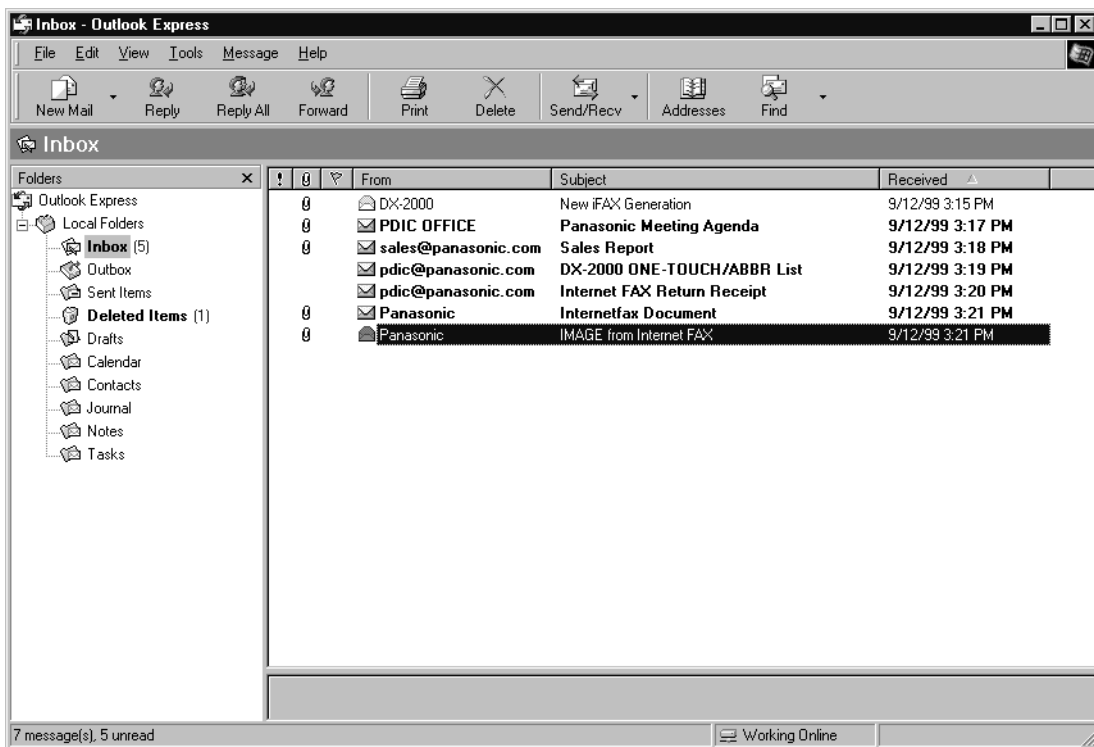
■ The "Subject" column in the above example shows samples of email messages received on a PC from the DX-2000, and Internet FAX.
■ For your reference, the above example is from Windows Messaging Inbox running under Microsoft® Windows 95®. If you are using a different email application software, please refer to your application's User Manual.

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Figure 2: Internet Fax Received on a PC
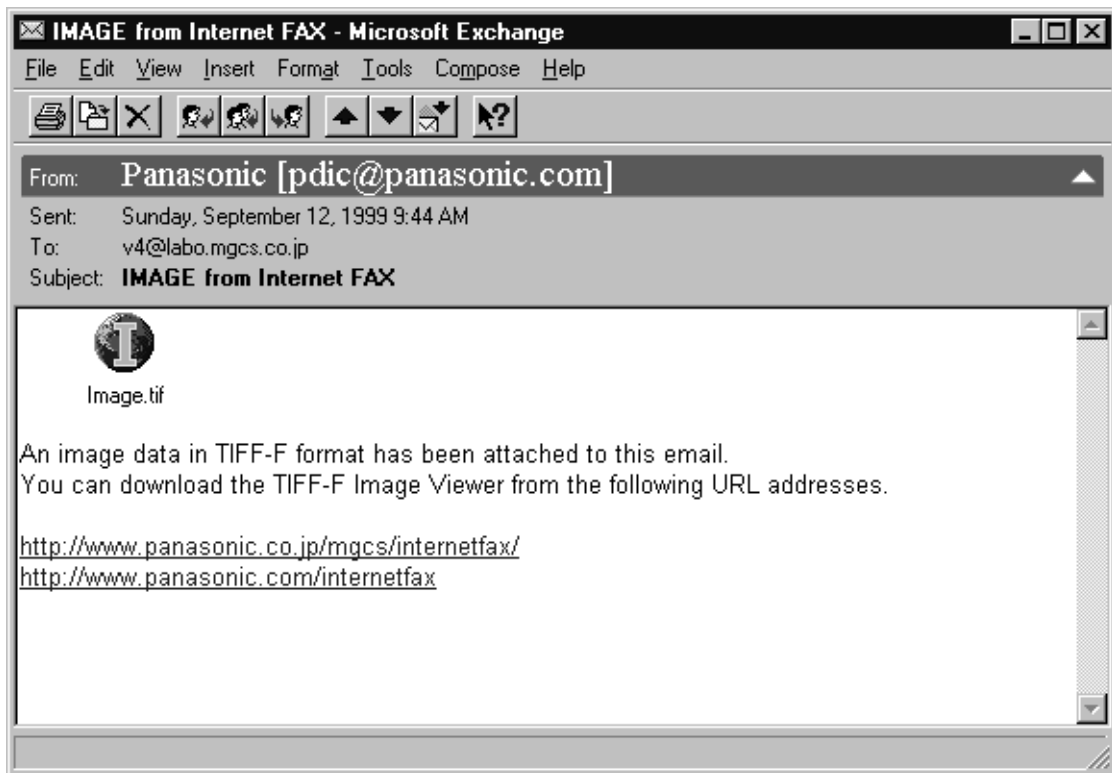
■ For your reference, the above example is from Windows Messaging running under Microsoft® Windows 95®.

■ To run the Viewer, please refer to your application's User Manual. The attached file is composed of TIFF-F (Tagged Image File Format with Modified Hoffman coded image). TIFF Viewers come in many flavors, a majority of TIFF Viewers will open and view this file, however, a handful of Viewers may not support this format.

■ You can download the TIFF-F Image Viewer into your PC from the following URL addresses:

http://www.panasonic.co.jp/mgcs/internetfax/

http://www.panasonic.com/internetfax/

■ License agreement of Panasonic's TIFF-F Image Viewer application
You must carefully read the license agreement before installing the TIFF-F Image Viewer application on your PC. If you do not agree to all the terms of this agreement, do not use the software and destroy all of the copies thereof.
You must assume full responsibility for selection of the software and its operation/non-operation and results obtained therefrom.

108

Receiving Email from a POP Server

The DX-2000 offers a choice to receive and print Internet email messages via LAN unattended or manually when subscribing to a POP mail server.

Setting the POP Parameters

Set the parameters pertinent to the POP server (Fax Parameters Nos. 146 to 149).

4

No. 146 (POP TIMER): Enter the interval to check and retrieve email from the POP server (0 to 60 minutes). If "0 minutes" is entered, the POP server is not checked for mail.

No. 147 (AUTO POP RCV): When there is mail to be retrieved from the POP server, the DX-2000 will retrieve it and print the email unattended. If this parameter is set to "1:Invalid", the machine will not retrieve it, but displays the number of mails on the POP server.

No. 148 (DEL POP RCV MAIL): Select whether the email is deleted from the POP server after it is retrieved by the DX-2000.

No. 149 (DEL POP ERR MAIL): Select whether to delete the email from the POP server when the file attachment format is not supported.
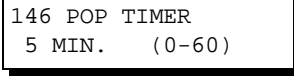
To set the above POP parameters, follow the steps below.

1 FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨∧
```

2 4 SET

```
FAX PARAMETER(1-164)
2:ABBR NO.
```

3 1 4 6 SET

```
146 POP TIMER
 3 MIN.   (0-60)
```

4 Enter the desired download interval (0 to 60 minutes).

Ex: ⓪ ⑤ for 5 minutes.

If you make a mistake, press [CLEAR] to erase the digit and then re-enter the correct value.

```
146 POP TIMER
 5 MIN.   (0-60)
```

109

5
SET
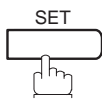
```
147 AUTO POP RCV
 2:VALID
```

6 ① for "INVALID"

or

② for "VALID"

```
147 AUTO POP RCV
 2:VALID
```

7
SET
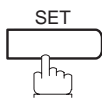
```
148 DEL POP RCV MAIL
 2:VALID
```

8 ① for "INVALID"

or

② for "VALID"

```
148 DEL POP RCV MAIL
 2:VALID
```

9
SET
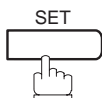
```
149 DEL POP ERR MAIL
 1:INVALID
```

10 ① for "INVALID"

or

② for "VALID"

```
149 DEL POP ERR MAIL
 1:INVALID
```

11
SET
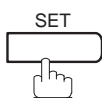
```
150 IFAX RET RECEIPT
 1:INVALID
```

110

12

4

> **! Note:**
> 1. When an unsupported file attachment is received, an error message is printed to inform you that the file attachment could not be printed.
> 2. When Fax Parameter No. 148 (DEL POP RCV MAIL) and/or Fax Parameter No. 149 (DEL POP ERR MAIL) are set to 1:Invalid, email with errors will not be erased. This will allow you to retrieve this email from your PC later.
>
> Furthermore, if these Fax Parameters are set to "1:Invalid", you will need to delete mails from the POP server periodically. POP servers allocate a certain amount of space per account and if mail is not deleted regularly, your mail box will overflow and new incoming mail will be rejected.
>
> Either retrieve these mails from your PC or set the Fax Parameters to "2:Valid" triggering your DX-2000 to receive, print and delete all the mails from the POP server. This procedure, however, might cause mail that had been printed before to print again.

111

►Receiving Documents via LAN

Unattended Reception from the POP Server

When the Fax Parameter No. 146 (POP TIMER) is set to a value between 1 and 60 minutes, and Fax Parameter No. 147 (AUTO POP RCV) is set to "2:Valid", the machine will query the POP server at the specified interval for new mail.
Any mail on the POP server is retrieved and printed unattended.

```
1 NEW MAIL(S)
```

When the Fax Parameter No. 146 (POP TIMER) is set to "0", the machine will not query the POP server and the mail is not retrieved automatically. With this setting, mail must be retrieved manually from the POP server.

```
12-DEC-1999 17:15
  < NEW MAIL(S)>
```

When the Fax Parameter No. 147 (AUTO POP RCV) is set to "1:Invalid", the machine will query the POP server for new mail at the interval specified by Fax Parameter No. 146. If new mail has arrived at POP server, the machine will not retrieve it, but displays the number of mails on the POP server.

Manual Reception from the POP Server

To receive manually from the POP server, follow the steps below:

1   ◇ START
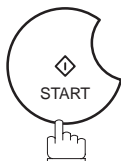
```
12-DEC-1999 17:15
             00%
```

or

```
12-DEC-1999 17:15
  < NEW MAIL(S)>
```

2   If the POP server has not received any new mail, the following message is displayed.

```
NO NEW MAIL
```

3   If POP server received new mail, the machine will display the number of mails on the server, then receive and print the email.

```
1 NEW MAIL(S)
```

```
ON LINE *RCV*
ID:abc@panasonic.com
```

> **!** *Note:*
> 1. *If you program a user name and password in the Program key, you can receive mail from the POP server using a user name other than the name set as the user parameter.*
> 2. *The number of emails that can be retrieved during a single operation is 20. Even if POP server has more than 20 emails, only 20 will be displayed on the machine. After retrieving the first 20 emails, repeat the procedure from beginning to ensure all emails were retrieved from the POP server.*

112

Receiving Documents via Telephone Line◀

Your machine is provided with both automatic and manual reception modes. The selection of either reception mode is made with Fax Parameter No. 017 (RECEIVE MODE).
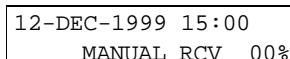
Automatic Reception

Your machine will receive documents automatically if the Fax Parameter No. 017 (RECEIVE MODE) is set to "Auto" (see page 72).

4

Manual Reception

You may wish to receive documents manually if you use the telephone line in your office primarily as a personal telephone and occasionally for your facsimile machine.
To receive documents manually, change the Fax Parameter No. 017 (RECEIVE MODE) to "Manual" (see page 72) and the following message will be shown on the display.
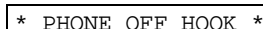
```
12-DEC-1999 15:00
     MANUAL RCV  00%
```

To receive documents manually

1 When the telephone rings, lift the handset (see Note 1). If you hear a beep, the sound tells you that someone wants to send a document.
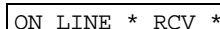
```
* PHONE OFF HOOK *
```

2 Remove any documents from the ADF.

3
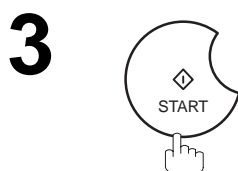
Your machine starts receiving the document.

```
ON LINE * RCV *
```

4 Hang up the telephone.

⚠ **Note:**
　　　　1. *Your machine requires an optional fax handset or an external telephone connected to the TEL jack on the rear of the machine.*
　　　　2. *If you receive a document with Super Fine resolution (406 x 391 dpi), it might be divided into multiple pages with no reduction.*

113

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▶Receiving Documents via Telephone Line

Print Reduction

This machine can use Letter, Legal or A4 size plain paper for recording.   Sometimes, oversized documents sent to you by the other parties cannot be printed within a single page. When this occurs, the document will be divided into separate pages.

This machine is equipped with a Print Reduction function to solve this problem. You may select the most appropriate setting from the selections described below.

1. Automatic Reduction

Each page of a received document is first stored in memory. Based on the document length, your machine will automatically calculate the suitable reduction ratio (70% to 100%) to print the entire document on a single page. If the received document is extremely long (over 39% longer than the recording paper), the document will be divided into separate pages when printing with no reduction.

2. Fixed Reduction

You can pre-determine the reduction ratio from 70% to 100% in 1% steps. The document(s) you receive will be reduced to the fixed ratio regardless of size.

Selecting the Print Reduction Mode

Set Fax Parameters as shown below. (See page 73.)
1. To set Automatic Reduction mode.
    (1) No. 024 Print Reduction set to "Auto".

2. To set Fixed Reduction mode.
    (1) No. 024 Print Reduction set to "Fixed".
    (2) No. 025 Reduction Ratio set to any number between 70% through 100%. (see Note 1)
        EX: A4 to A4 - 96%
            A4 to Letter - 90%
            Letter to Letter - 96%
            Legal to Letter - 75%

⚠ **Note:**
        1. If the sending side is set to print the header on the outside of the copy area, more reduction ratio will be required.

Receiving Oversize Documents

If the received document is extremely long (over 39% longer than the recording paper), the document will be divided into separate pages. When printing on separate pages, the bottom 10 mm of first page will be overlapped on top of the next page.

Transmitted Document　　　　　　**Received Document**
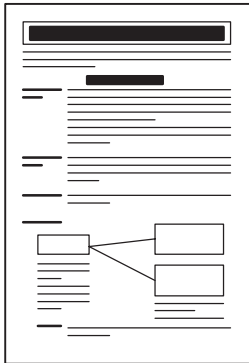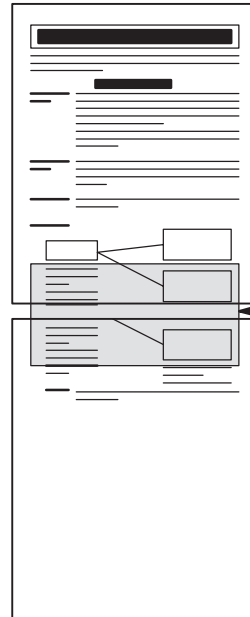
Overlap print.
10 mm

The receiving document is divided into two sheets with overlap printing.

⚠️ **Note:**

　1. If the reduction method is set to the Automatic Reduction mode, the document is printed out with no reduction when printing out separate pages. If the reduction method is set to Fixed Reduction mode, the document is printed out by the ratio you set in Fax Parameter No. 025.

115

▶Receiving Documents via Telephone Line

Substitute Memory Reception

If the recording paper runs out or jams or if the toner runs out during reception, the machine automatically starts receiving documents into its image data memory. Stored documents are printed automatically after replacing the recording paper or the toner cartridge.

1 When the machine finishes the memory reception and there is no recording paper or toner, an Information Code appears on the display.

```
NO RECORDING PAPER
 INFO. CODE=010
```

```
OUT OF TONER
 INFO. CODE=041
```

2 Install the recording paper (see page 30) or replace the toner cartridge (see page 28).

The machine will automatically start printing the document stored in the memory.

```
* PRINTING *
MEMORY RCV'D DOC
```

Print Collation Mode

The printing mechanism of the DX-2000 is a Reverse Order Stacking construction. The DX-2000 has a Print Collation Mode that stacks received documents in the correct order. When the Print Collation Mode is enabled, all received documents are stored into memory first, then printed out in Correct Order Stacking. The requirements for the Print Collation Mode to be active are; 1) Fax Parameter No. 065 (PRINT COLLATION) set to "Valid", and 2) enough remaining memory.

The unit will print in Reverse Order Stacking (Non-Collation Mode) whenever one of the above requirements is not met.

Sending Document Order	Stacking Document Order	
	Correct Order Stacking (Collation Mode)	Reverse Order Stacking (Non-Collation Mode)
1 2 3	1 2 3	3 2 1
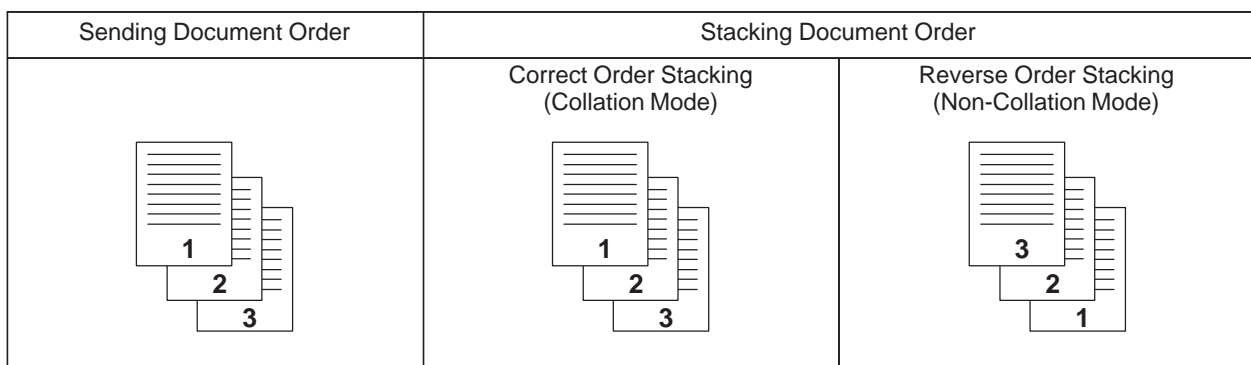
! **Note:**
   1. If the memory overflows, the machine will stop receiving and release the communication line.
   The document(s) stored in the memory up to that moment will be printed out.
   2. If you wish to turn off the substitute reception function, change the setting of Fax Parameter No. 022 (SUBSTITUTE RCV) to "Invalid" (see page 73).

116

Your machine has a copy function which can make single or multiple copies. When copying, your machine will automatically select Fine resolution.

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2

```
COPY
NO. OF COPY=1
```

3 Enter the number of copies.

Ex: ① ⓪

```
COPY
NO. OF COPY=10
```

4

```
* STORE *    NO.005
      PAGES=001  01%
```

The machine stores the document, then prints the copies.

```
* COPY *
NO. OF COPY=01/10
```

> ⚠ **Note:**
> 1. The copy will be reduced automatically depending on the length of the original document. If you wish to be prompted for the reduction ratio when making copies, change the setting of Fax Parameter No. 032 (COPY REDUCTION) to "Manual" (see page 73).
> If Copy Reduction is set to Manual, press ▼ and ▲ to set the zoom ratio in 1% steps (100% to 70%).
> 2. If you make a copy with Super Fine resolution, it will be reduced slightly even if the reduction ratio is set to 100% in order to fit the data on one page.
> 3. Standard Resolution is not available in Copy Mode.

117

This page is intentionally left blank.

118

Your fax machine has special Program Keys (P1 to P8). These keys are useful if you frequently need to send to the same group of stations. You can use these keys to store an additional One-Touch key or a One-Touch group key.

Entering an Email Address

Once you program an email address in the Program Keys (P1 to P8), you can specify the station simply by pressing the associated Program Key.

1 FUNCTION 7 3 SET
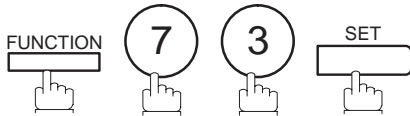
```
PROGRAM      (1-4)
ENTER NO. OR ∨ ∧
```

5

2 3 SET
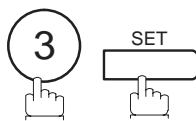
```
PROGRAM[P ]
PRESS PROGRAM KEY
```

3 **Ex:** P1

```
PROGRAM[P1]      NAME
ENTER NAME
```

4 Enter the station name (up to 15 characters) by using the Character keys (see page 12).

Ex: PROG.A and SET

```
[P1]PROG.A
ENTER EMAIL ADDRESS
```

5 Enter the email address using the Character keys (up to 60 characters).

```
[P1]PROG.A
abc@panasonic.com■
```
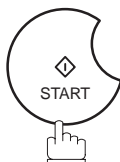
Ex: a b c 27 @ p a n a s o n i c

28 . c o m

6 START

```
PROGRAM[P ]
PRESS PROGRAM KEY
```

You can now set other Program Keys by repeating the procedures from Step 3, or return to standby by pressing STOP .

119

►Program Keys

Entering a Telephone Number

Once you program a telephone number in the Program Keys (P1 to P8), you can specify the station simply by pressing the associated Program Key.

1 FUNCTION 7 3 SET

```
PROGRAM      (1-4)
ENTER NO. OR ∨ ∧
```

2 3 SET

```
PROGRAM[P ]
PRESS PROGRAM KEY
```

3 **Ex:** P1

```
PROGRAM[P1]     NAME
ENTER NAME
```

4 Enter the station name (up to 15 characters) by using the Character keys (see page 12).

Ex: PROG.A and SET

```
[P1]PROG.A
ENTER EMAIL ADDRESS
```

5 INTERNET
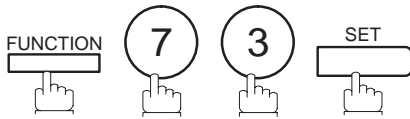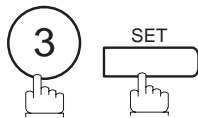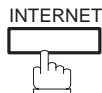
```
[P1]PROG.A
ENTER TEL. NO.
```

6 Enter a telephone number (up to 32 digits including pauses and spaces).

Ex: 9 PAUSE 5 5 5 SPACE 1 2 3 4

```
[P1]PROG.A
9-555 1234■
```

7 START
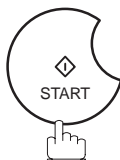
```
PROGRAM[P ]
PRESS PROGRAM KEY
```

You can now set other Program Keys by repeating the procedures from Step 3, or return to standby by pressing STOP.

120

Setting for Group Dialing

Once you program group dialing numbers in the Program Keys (P1 to P8), you can specify the multi-station transmission (broadcasting) to multiple stations simply by pressing the associated Program Key.
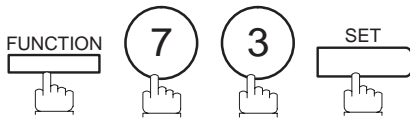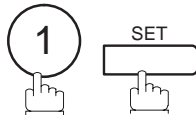
1 FUNCTION (7) (3) SET

```
PROGRAM        (1-4)
ENTER NO. OR ∨ ∧
```

2 (1) SET

```
PROGRAM[P ]
PRESS PROGRAM KEY
```

3 **Ex:** P1

```
PROGRAM[P1]     NAME
ENTER NAME
```

4 Enter the station name (up to 15 characters) by using the Character keys (see page 12).

Ex: PROG.A and SET

```
ENTER STATION(S)
THEN PRESS START
```

5 Enter the station numbers by using One-Touch Key or ABBR and 3-digit code.

Ex: 01 and

ABBR (1) (0) (0)

You may use the ▼ or ▲ keys to review the entered station(s) before going to next step. If you find an error, press CLEAR to erase the displayed station.
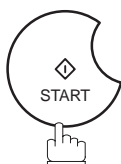
```
<01>(Station name)
5551234
```

```
[100](Station name)
5553456
```

6 START

```
PROGRAM[P ]
PRESS PROGRAM KEY
```

You can now set other Program Keys by repeating the procedures from Step 3, or return to standby by pressing STOP .
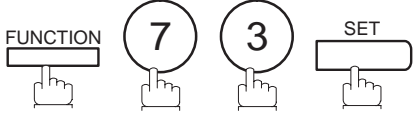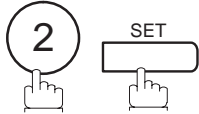
►Program Keys

Setting the POP Access Key

This function allows others to share the DX-2000 to retrieve their emails from the POP server by preprogramming their POP User Names and POP Passwords into the Program Keys (P1 to P8). They will be able to retrieve their emails by simply pressing the associated Program Key. (See Note 1)

1 FUNCTION (7) (3) SET

```
PROGRAM      (1-4)
ENTER NO. OR ∨ ∧
```

2 (2) SET

```
PROGRAM[P ]
PRESS PROGRAM KEY
```

3 Ex: P1

```
POP USER NAME
■
```

4 Enter a POP User Name (up to 40 characters) using the Character keys and press SET .

```
POP USER NAME
kate■
```

Ex: k a t e and SET

```
POP PASSWORD
■
```

5 Enter a POP Password (up to 10 characters) using the Character keys and press SET .

```
POP PASSWORD
pana123■
```

Ex: p a n a (1)(2)(3) and SET

6 (1) to disable mail deletion

or

```
DELETE EMAIL   NO.=1
1:NO 2:YES
```

(2) to enable mail deletion

You can now set other Program Keys by repeating the procedures from Step 3, or return to standby by pressing STOP .

```
PROGRAM[P ]
PRESS PROGRAM KEY
```

! **Note:**
  1. *If security is a concern and to prevent unauthorized personnel from retrieving your email from the POP server, when programming the Program Key, leave the POP Password field "Blank". By leaving it "Blank", the machine will prompt you to enter the POP Password when the Program Key is pressed to retrieve mail.*

122

Using the POP Access Key

To retrieve your Email from the POP Server by using the Program Key, follow the procedure below.

1 Press the Program key programmed for POP Access Key.

Ex: | P1 |

If the POP User Name is not entered in the Program Key, enter the POP User Name (up to 40 characters).

```
POP RCV USER NAME
kate
```

5

2

◇
START

If the POP Password is not entered in the Program Key, enter the POP Password (up to 10 characters) and press
 START .

3 If the POP server has not received any new mail, the following message is displayed.

```
NO NEW MAIL
```

4 If POP server received new mail, the machine will display the number of mails on the server, then receive and print the email.

```
  1 NEW MAIL(S)
```

```
ON LINE *RCV*
ID:abc@panasonic.com
```

⚠ **Note:**
1. The number of emails that can be retrieved during a single operation is 20. Even if the POP server has more than 20 emails, only 20 will be displayed on the machine. After retrieving the first 20 emails, repeat the procedure from the beginning to ensure all emails were retrieved from the POP server.

▶Program Keys

Changing or Erasing the Program Key Settings

To change the settings in a Program Key, follow the procedure on setting a Program Key on pages 119 to 123.
- Start time or station(s) for deferred transmission
- Station(s) for normal polling
- Start time or station(s) for deferred polling
- Station(s) for group dialing
- Telephone number and station name for One-Touch key

To erase the settings in a Program Key

1 FUNCTION ⑦ ③ SET

```
PROGRAM      (1-4)
ENTER NO. OR ∨ ∧
```

2 ④ SET
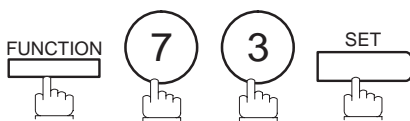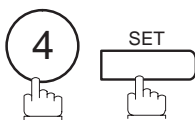
```
PROGRAM[P ]
PRESS PROGRAM KEY
```

3 Press the Program key you want to erase.

Ex: P1

```
PROGRAM[P1]
DELETE? 1:YES 2:NO.
```

4 ①

```
* DELETING *
PROGRAM[P1]
```

5 You can now erase other Program Keys by repeating the procedures from Step 3, or return to standby by pressing STOP .

```
PROGRAM[P ]
PRESS PROGRAM KEY
```

124

General Description

This operation allows the user to select one of the 25 preset User Names and Email Addresses before a transmission. The selected User Names is printed on the Header of each page sent and on the COMM. Journal. When sending email, the selected user name and/or email address appears in the "From:" field of the email message.

Setting the Sender Selection

1 FUNCTION 7

```
SET MODE       (1-6)
ENTER NO. OR ∨ ∧
```

2 4 SET
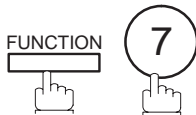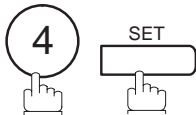
```
FAX PARAMETER(1-164)
        NO.=■
```

3 1 4 5 SET
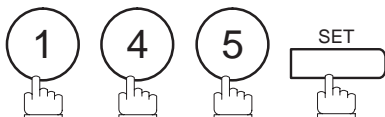
```
145 SENDER SELECTION
 1:INVALID
```

4 2

```
145 SENDER SELECTION
 2:VALID
```

5 SET
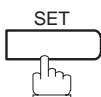
```
SENDER SELECTION
ENTER NO. OR ∨ ∧
```

6 Enter the Sender Selection number.

Ex: 1 2 (01 to 24)

```
ENTER USER NAME
12 ■
```

Continued on the next page...

125

7 Enter your User Name (max. 25 characters and digits) by using character keys (see page 12).

```
ENTER USER NAME
12 PANASONIC SALES█
```

Ex: [P] [A] [N] [A] [S] [O] [N] [I] [C] [SPACE]
[S] [A] [L] [E] [S] and [SET] (See Note 1)

8 Enter an email address to be printed on the "From" field of the email message (max. 60 characters).

```
ENTER EMAIL ADDRESS
12 █
```

Ex: [a] [b] [c] [27] [@] [p] [a] [n] [a] [s] [o] [n] [i] [c]
[28] [.] [c] [o] [m]

```
ENTER EMAIL ADDRESS
12 abc@panasonic.com
```

9 [SET]

```
ENTER USER NAME
13 █
```
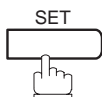
To record another User Name, repeat step 6 to 9. To return to standby, press [STOP].

⚠️ **Note:**

1. Use [COPY] to copy the default User Name that was programmed in the User Parameters. You can add the department name following the default User Name.

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Sending Document with Sender Selection

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 Enter email address or telephone number. (See Note 3)

3

START

```
SELECT SENDER(00-24)
ENTER NO. OR ∨ ∧
```

4 Enter a number or use ▼ or ▲ to select the User Name that you want to use. (See Note 2)

Ex: ① ②

```
12 PANASONIC SALES
abc@panasonic.com
```

5

START

The document is sent as an email message with the selected user name and/or email address appearing in the "From" field of the email message.

⚠ **Note:**
1. The Sender Selection function cannot be used in the Voice Dialing Mode for ordinary transmission.
2. If you do no select a User Name in the step 4, the unit selects the default User Name (00) that was programmed in the User Parameters for ordinary transmission.

127

►Sender Selection

Printing the Sender Selection List

The Sender Selection List can be printed out following the Fax Parameter List.
To enable the printing of the Sender Selection List, change the setting of Fax Parameter No. 145 (SENDER SELECTION) to "Valid" (see page 125).

1 FUNCTION 6

```
PRINT OUT      (1-7)
ENTER NO. OR ∨ ∧
```

2 4 SET
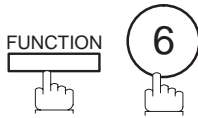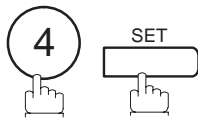
```
* PRINTING *
FAX PARAMETER LIST
```

Sample Sender Selection List (Prints following the Fax Parameter List)

```
*************** -FAX PARAMETER LIST- **************** DATE 12-SEP-1999 ***** TIME 15:00 ***P.02

      SENDER SELECTION LIST
   (1)         (2)                         (3)
   NO.         USER NAME                   EMAIL ADDRESS

   01          Panafax Sales               sales@panasonic.com
   02          Panafax Service             service@panasonic.com
   03          Panafax Accounting          account@panasonic.com

   24          Panafax Engineering         engneering@panasonic.com


                                          -PANASONIC                -
********************************* -HEAD OFFICE   - ***** -       201 555 1212- ********
```

Explanation of Contents

(1) Sender Selection Number   : 01-24

(2) User Name   : Up to 25 characters

(3) Email Address   : Up to 60 characters

128

General Description

The DX-2000 will automatically add the Default Subject information that was entered during the User Parameter setup, to the Subject Line of all outgoing emails.
If you would like for the machine to prompt you for the Subject before each email transmission, change the Fax Parameter No. 159 (SUBJECT LINE ENTRY) to "2:Valid".

Sending Email with Subject Line Entry

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

5

2 Enter email addresses by any combination of the following methods:
- One-Touch Dialing
- Abbreviated Dialing
- Directory Search Dialing, press [SET] after each email address is entered.
- Manual Number Dialing, press [SET] after each station is entered (up to 70 addresses).

Ex: [01]

```
<01>(Station name)
abc@panasonic.com■
```

3
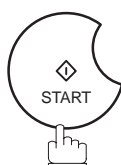
⟡ START

```
ENTER SUBJECT OR
PRESS START TO SEND
```

4 Enter the Subject (max. 40 characters and digits) by using the Character keys (see page 12). To use the Default Subject pre-programmed in the User Parameter, just press [START].

Ex: [F][A][X][P6　SPACE][P8　CAPS]
[f][r][o][m][P6　SPACE][P8　CAPS]
[M][P8　CAPS][r][28　.][P6　SPACE]
[P8　CAPS][J][P8　CAPS][o][n][e][s]

```
SUBJECT
FAX from Mr. Jones
```

5
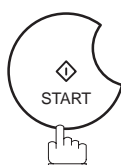
⟡ START

The document(s) is stored into memory with a file number. Then starts sending the email message.

```
* STORE *     NO.001
      PAGES=001  01%
```

```
* STORE *  COMPLETED
      PAGES=001  10%
```

```
ON LINE  * MEM.XMT *
ID:(Station name)
```

> ⚠️ **Note:**
> *1. If no default subject is programmed, the unit is shown as "IMAGE from Internet FAX" as the subject.*

129

▶Inbound Routing

Setting the Routing Parameters

The DX-2000 can route documents received from a G3 fax machine to email address(es) or to Internet Fax machine(s) connected to a LAN as an email, as well as to other G3 fax machine(s) over the telephone line.

To use this feature, the Fax Parameter No. 152 "SUB-ADDRESS ROUTING" and/or No. 153 "TSI ROUTING" must be set to "2:Valid".

No. 152 SUB-ADDRESS ROUTING: Set this parameter to perform an ITU-T sub-address query within its auto dialler and to route the received document(s) to the corresponding stations email address(es) or telephone number(s).

No. 153 TSI ROUTING: Set this parameter to perform a Numeric ID (TSI frame information) query within its auto dialler and to route the received document(s) to the corresponding stations email address(es) or telephone number(s).

No. 154 ROUTING HEADER FORMAT: Use this parameter to select the type of email header to be included in the "From" field of each routed faxes. (Default setting is "1:Originator")
Originator : The originating fax machine's TSI will appear in the "From" field of the routed email.
Relay Station : The routing station's email address will appear in the "From" field of the routed email.

No. 155 PRINT ROUTED DOCUMENT : Set this parameter to select whether a received fax to be routed is always printed on the DX-2000 or only when the routing operation fails.

To set the above Inbound Routing parameters, follow the steps below.

1 FUNCTION 7

```
SET MODE        (1-6)
ENTER NO. OR ∨∧
```

2 4 SET
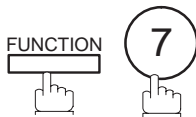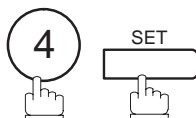
```
FAX PARAMETER(1-164)
       NO.=▮
```

3 1 5 2 SET
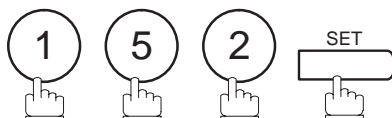
```
152 SUB-ADDR ROUTING
 1:INVALID
```

4 ① for "INVALID"

or

② for "VALID"

```
152 SUB-ADDR ROUTING
 1:INVALID
```

```
152 SUB-ADDR ROUTING
 2:VALID
```

130

5

SET
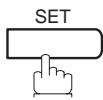
```
153 TSI ROUTING
 1:INVALID
```

6 ① for "INVALID"

or

② for "VALID"

```
153 TSI ROUTING
 1:INVALID
```

```
153 TSI ROUTING
 2:VALID
```

5

7

SET
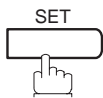
```
154 ROUTE HEADER FMT
 1:ORIGINATOR
```

8 ① for "ORIGINATOR"

or

② for "RELAY STATION"

```
154 ROUTE HEADER FMT
 1:ORIGINATOR
```

```
154 ROUTE HEADER FMT
 2:RELAY STATION
```

9

SET
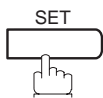
```
155 PRINT ROUTED DOC
 1:INC. ONLY
```

10 ① for "INC. ONLY"

or

② for "ALWAYS"

```
155 PRINT ROUTED DOC
 1:INC. ONLY
```

```
155 PRINT ROUTED DOC
 2:ALWAYS
```

11 SET
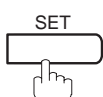
```
156 PRT FORWARD DOC
 1:INC. ONLY
```

Continued on the next page...

12 ① for "INC. ONLY"

or

② for "ALWAYS"

```
156 PRT FORWARD DOC
 1:INC. ONLY
```

```
156 PRT FORWARD DOC
 2:ALWAYS
```

13 SET   STOP
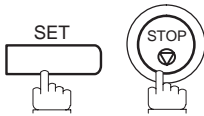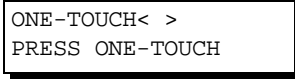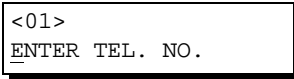
Entering One-Touch/Abbreviated Dialing Numbers for Inbound Routing

If the Inbound Routing parameters are set, an ITU-T sub-address and/or originator's Numeric ID (TSI frame information) can be programmed with each email address in One-Touch, Abbreviated numbers or Program Keys. (See page 19)

1 FUNCTION ⑦ ② SET

```
1:ONE-TOUCH
2:ABBR NO.
```

5
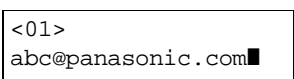
2 Select 1 for One-Touch Dialing number.
Select 2 for ABBR Dialing Number.
Ex: ①

```
ONE-TOUCH< >
PRESS ONE-TOUCH
```

3 **Ex:** `01`
To change the input mode (between "ENTER EMAIL ADDRESS" and "ENTER TEL. NO."), press ⎣INTERNET⎦.

```
<01>
ENTER EMAIL ADDRESS
```

or

```
<01>
ENTER TEL. NO.
```
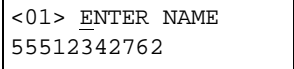
4 Enter an email address (up to 60 characters) or a telephone number (up to 36 digits).
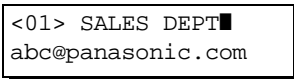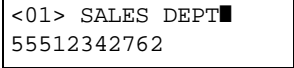
```
<01>
abc@panasonic.com■
```

or

```
<01>
55512342762■
```

5 SET

```
<01> ENTER NAME
abc@panasonic.com
```

or

```
<01> ENTER NAME
55512342762
```

6 Enter the station name using the Character keys (up to 15 characters).

Ex: ⎣S⎦⎣A⎦⎣L⎦⎣E⎦⎣S⎦ ⎣SPACE⎦ ⎣D⎦⎣E⎦⎣P⎦⎣T⎦

```
<01> SALES DEPT■
abc@panasonic.com
```

or

```
<01> SALES DEPT■
55512342762
```

Continued on the next page...

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7   SET
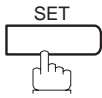
```
ROUTING: SUB-ADDRESS
                    ■
```

8   Enter the sub-address (up to 20 characters) and press
     SET .

```
ROUTING: SUB-ADDRESS
             1234567
```

```
ROUTING: TSI
                    ■
```

9   Enter a Numeric ID (TSI) (up to 20 characters) and press
     SET .
     To return to stanby, press STOP .

```
ROUTING: TSI
             1234567
```

```
ONE-TOUCH< >
PRESS ONE-TOUCH
```

⚠️ **Note:**
     1. "+" and "SPACE" entries in the "ROUTING: TSI" field are ignored by the receiving machine.

134

General Description

This feature is only available for sending documents via telephone line.

The Sub-addressing function allows you further routing, forwarding or relaying of document(s) to the desired recipient(s). This function conforms to the ITU-T recommendation for T. Routing-Facsimile Routing utilizing the Sub-address.

Example of a Network

Dial to: 555 1234
Sub-address: 0001
TSI: 555 9999

aaa

G3 Fax

Telephone Line

Fax1

aaa

PC1   **PC2**

DX-2000

aaa

G3 Fax

bbb

Dial to: 555 1234
Sub-address: None
TSI: 555 6789

Automatic Routing Table of DX-2000 (Own Tel. # : 555 1234)			
One-Touch #	Sub-address	TSI	Direction
<01>	0001	--	PC1
<02>	0002	--	PC2
<03>	0003	555 6789	Fax1
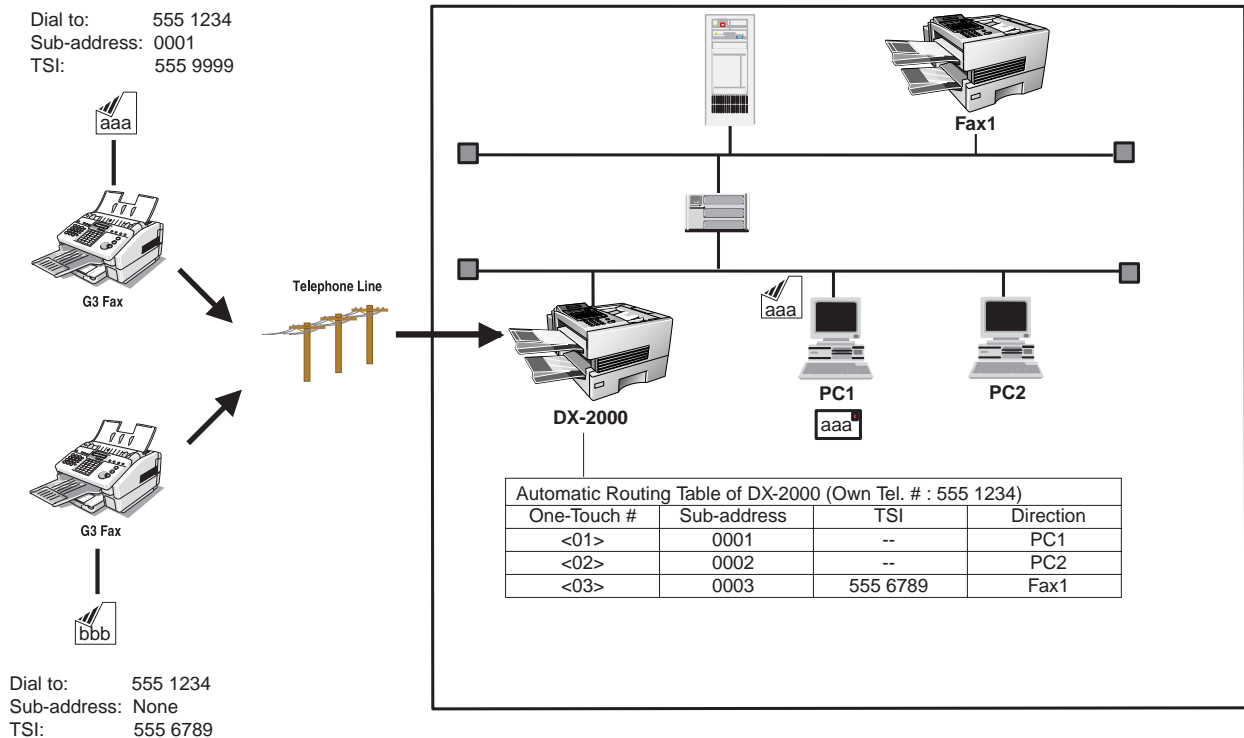
Compatibility with Other Machines
• Sub-addressing Transmission:
    DF-1100/DX-1000/DX-2000/UF-332/333/342/344/550/560/585/595/770/788/880 (See Note 2)
• Sub-addressing Reception:
    DX-1000/DX-2000 or DF-1100/UF-342/344/550/560/585/595/770/788/880 with PC Interface using the Networking version of LaserFAX software.

Sub-addressing Transmission Methods
You can send a document with Sub-address information to the desired recipient by the following methods.
• By registering the Sub-address information into One-Touch/ABBR Dialing Numbers.
• By specifying the Sub-address information in the Manual Number Dialing Mode.

! *Note:*
    1. UF-788 with PC Interface Option or the Option ROM installed.
    2. This feature is only available for communications via telephone line.
    3. LaserFAX is a registered trademark of Wordcraft International Ltd.

►Sub-addressing

To set the Sub-address into a One-Touch/ABBR Dialling Numbers
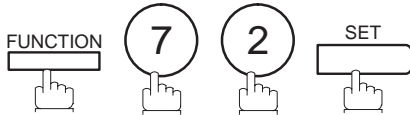
1 FUNCTION (7) (2) SET

```
1:ONE-TOUCH
2:ABBR NO.
```

2 Select 1 for One-Touch Dialling number.
Select 2 for ABBR Dialling Number.

Ex: (1)

```
ONE-TOUCH<  >
PRESS ONE-TOUCH
```

3 **Ex:** | 01 | and press | INTERNET | .

```
<01>
ENTER TEL. NO.
```

4 Enter the telephone number, press | FLASH | then enter
the Sub-address (up to 20 digits).
(Up to 36 digits including telephone number, pauses,
spaces, FLASH and Sub-address.)

Ex: Telephone number = 5551234, Sub-address =2762

Enter as: (5)(5)(5)(1)(2)(3)(4)
| FLASH | (2)(7)(6)(2)

```
<01>
5551234s2762■
```

5 SET

Enter the station name.

```
<01> SALES DEPT■
5551234s2762
```

6 SET (STOP)
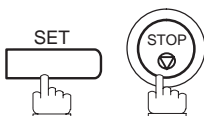
⚠️ *Note:*

1. | FLASH | *separates the Sub-address from the Telephone number and is indicated by an "s" in the display.*

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To send a Document with Sub-address

Using One-Touch/ABBR Number Dialling

The operation is the same as for normal dialling

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 **Ex:** `01`

```
<01> (Station name)
5551234s2762
```

3 START
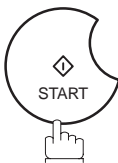
```
* STORE *    NO.001
     PAGES=001  01%
```

The document is stored into memory and your machine starts to dial the number of the station and sends the document(s) with Sub-addressing information.

Using Manual Number Dialling

Use FLASH to separate the Telephone number and the Sub-address.

1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 Enter the telephone number, press FLASH then enter the Sub-address (up to 20 digits).
(Up to 36 digits including telephone number, pauses, spaces, FLASH and Sub-address.)

```
TEL. NO.
5551234s2762▉
```

Ex: Telephone number = 5551234, Sub-address=2762

Enter as: ⑤ ⑤ ⑤ ① ② ③ ④
 FLASH ② ⑦ ⑥ ②

3 START

```
* STORE *    NO.001
     PAGES=001  01%
```

The document is stored into memory and your machine starts to dial the number of the station and sends the document(s) with Sub-addressing information.
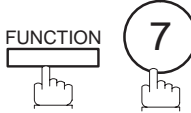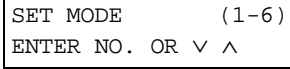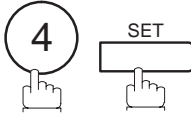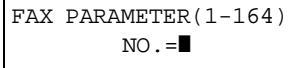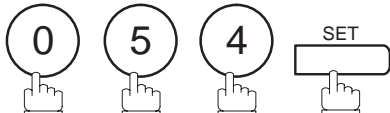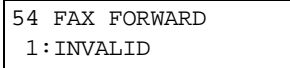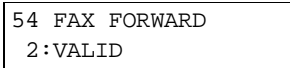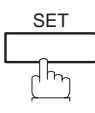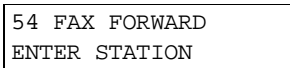
> **Note:**
> 1. FLASH *separates the Sub-address from the Telephone number and is indicated by an "s" in the display.*
> 2. *Manual Off-Hook or On-Hook Dialling cannot be used with the Sub-addressing Transmission.*
> 3. *The Sub-address is not transmitted during Manual Redial Mode.*
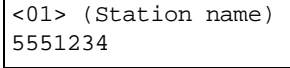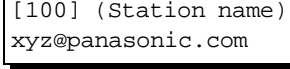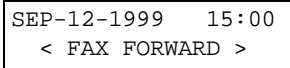
▶Fax Forward

Setting Fax Forward

This feature allows all incoming faxes or emails to be forwarded to the station registered in the one-touch or abbreviated dialing number. Once the faxes or emails are received in the memory, the machine will forward the received document(s) to the telephone number or the email address registered in the one-touch or abbreviated dialing number.

This function is convenient when you would like to receive faxes or emails in another place (i. e. your home) at night or during a holiday.

1 First register the destination telephone number or email address into the one-touch or abbreviated dialling number. (See pages 63 to 66)

2 FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

3 4 SET

```
FAX PARAMETER(1-164)
        NO.=■
```

4 0 5 4 SET

```
54 FAX FORWARD
 1:INVALID
```

5 2

```
54 FAX FORWARD
 2:VALID
```

6 SET

```
54 FAX FORWARD
ENTER STATION
```

7 Enter the station to forward the received faxes or emails to, by assigning a one-touch key or an abbreviated dialling number.

Ex: 01

ABBR 1 0 0

```
<01> (Station name)
5551234
```

```
[100] (Station name)
xyz@panasonic.com
```

8 SET STOP

```
SEP-12-1999   15:00
 < FAX FORWARD >
```

⚠️ **Note:**
1. When the Fax Forward feature is set, the assigned one-touch or the abbreviated dialling number will be restricted from editing. Please change this function to "Invalid" when you would like to edit the telephone number or email address.
2. If the communication to transfer a received fax or email fails, the received fax or email will print out and then is erased from memory. If the Fax Parameter No. 156 (PRT FORWARD. DOC) is set to "Always", the received fax or email will print even when the transmission is successful.
3. It is not possible to receive a document if the memory of your machine overflows or is about 95% used.

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Your machine has a document image memory which enables you to reserve memory transmission, memory polling and so on. After reserving the communications in memory, you may need to change the settings of the communication(s) while it is still in memory. This section describes how to use the file editing features.

Printing a File List

To print and verify the contents of a file list, follow the steps below.

1 FUNCTION 9

```
EDIT FILE MODE (1-6)
ENTER NO. OR ∨ ∧
```

5

2 1

```
1:FILE LIST?
PRESS SET TO SELECT
```

3 SET

```
FILE LIST
1:PRINT 2:VIEW
```

4 1

```
* PRINTING *
FILE LIST
```

Sample File List

```
*************** -FILE LIST- ********************* DATE 12-DEC-1999 ***** TIME 15:00 *********

(1)    (2)              (3)          (4)         (5)   (6)
FILE   COMM. TYPE       CREATED TIME START TIME  PAGES DESTINATION(S)
 No.

001    MEM. XMT         12-SEP 13:20                   [001]
002    MEM. XMT         12-SEP 13:20             003   [011] [012] [013] [016] [017]
003    RELAY XMT        12-SEP 13:20             001   [P7]

                                                       -PANASONIC              -

********************************* -HEAD OFFICE    - ***** -      201 555 1212- *********
```

Explanation of Contents

(1) File number   : If the file is now being executed, a "*" is indicated on the left of the file number.

(2) Communication type

(3) Created date/time   : Date/time that these files were stored.

(4) Start time   : If the file is an incomplete file, "INCOMP" is printed in this column.

(5) Number of stored page(s)

(6) Destination   : ABBR No./One-Touch No./Manual Dialing No.

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►Edit File Mode

Viewing the Contents of a File List
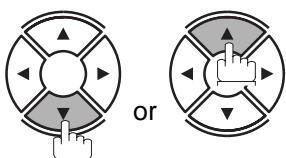
To view the contents of a file list on the display without printing it, follow the steps below.

1   FUNCTION   (9)

```
EDIT FILE MODE (1-6)
ENTER NO. OR ∨ ∧
```

2   (1)

```
1:FILE LIST?
PRESS SET TO SELECT
```

3   SET

```
FILE LIST
1:PRINT 2:VIEW
```

4   (2)

```
USE THE ∨∧  KEYS TO
SCROLL EACH FILE
```

5   ▲▼   or   ▲▼   repeatedly until the display shows a file you want to edit.

Sample display

Type of File

XMT:	Transmission
RLY:	Relay Transmission
POLL:	Polling
JOURNAL:	Journal / Report
RCV TO MEM:	Receive to Memory

Status

IN PRG:	In progress
REDIAL:	Waiting to redial
INCOMP:	Incomplete file

```
001 XMT      P010
<01>(Station name)
```

File Number   Entered station   Number of pages

6   STOP

140
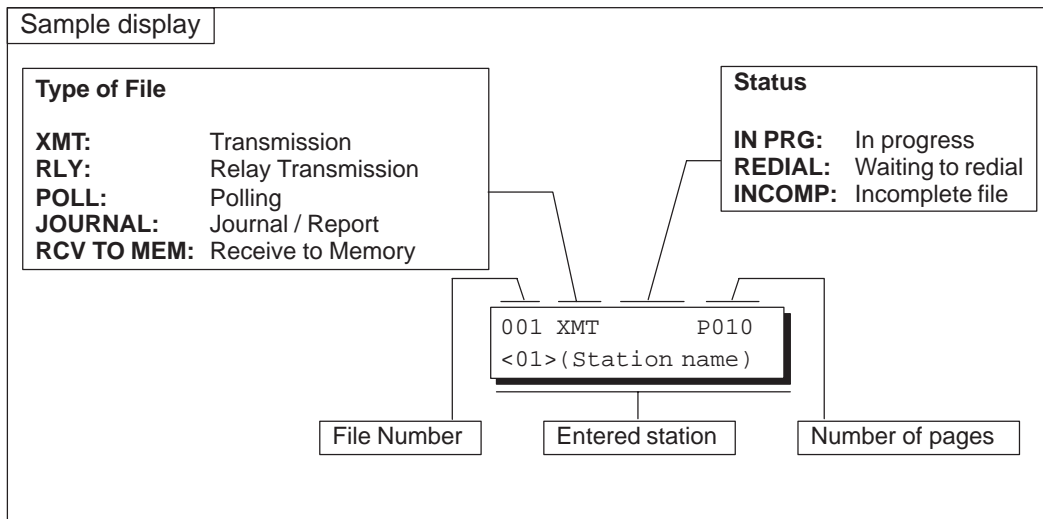
Changing the Station of a File

To change the station(s) in a communication file, follow the steps below.
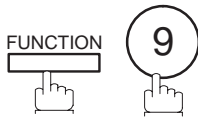
1 FUNCTION (9)

```
EDIT FILE MODE (1-6)
ENTER NO. OR ∨ ∧
```

2 (2) SET

```
ENTER FILE NO.OR ∨ ∧
     FILE NO.=███
```
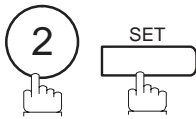
3 Enter the file number or use ▼ or ▲ to select the file that you want to change.

```
ENTER FILE NO.OR ∨ ∧
     FILE NO.=001
```

Ex: (0) (0) (1)

4 SET
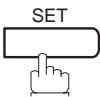
Continued on the next page...

►Edit File Mode

5
To delete the station(s), press ▼ or ▲ key until the
station you want to delete appears. Then press CLEAR.

or

Enter the station(s) you want to add.

Ex: [01]   SET [___]

```
ENTER STATION(S)
THEN PRESS START
```

```
 1 STN(S) ARE SET
ADD MORE OR START
```

6
◇ START

⚠️ *Note:*

1. Your machine cannot change the station(s) in the file while it is being sent or waiting to redial.

2. If you edit the file that is saved as an incomplete file, after pressing START in step 6, your machine will prompt you whether to execute the file immediately.
The display shows:

```
RETRY INCOMP. FILE?
1:YES 2:NO
```

Press ① to execute the file immediately.

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Deleting a File

To delete the file in memory, follow the steps below.
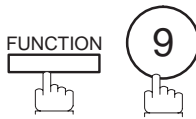
1 FUNCTION 9

```
EDIT FILE MODE (1-6)
ENTER NO. OR ∨ ∧
```

2 3 SET

```
ENTER FILE NO.OR ∨ ∧
    FILE NO.=■■■
```
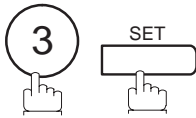
3 Enter the file number or use ▼ or ▲ to select the file that you want to delete.

Ex: ⓪ ⓪ ① (See Note 2)

```
ENTER FILE NO.OR ∨ ∧
    FILE NO.=001
```

4 SET
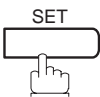
```
DELETE FILE  NO.001?
1:YES 2:NO
```

5 1

```
* DELETING *
   FILE NO.=001
```

Enter the next file number you want to delete or press ☐ STOP ☐ to return to standby.

```
ENTER FILE NO.OR ∨ ∧
    FILE NO.=■■■
```

> **!** **Note:**
> 1. *Your machine cannot delete the file while it is being sent.*
> 2. *Enter* ⊛ ⊛ ⊛ *as the file number and press* ☐ SET ☐ *to delete all files (except the file in progress). The following message is shown on the display.*
>
> ```
> DELETE ALL FILES?
> 1:YES 2:NO
> ```
>
> *Press* ① *to delete all files.*

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►Edit File Mode

Printing the Contents of a File

To print the contents of the communication file, follow the steps bellow.
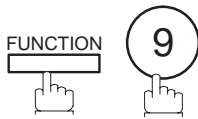
1   FUNCTION (9)

```
EDIT FILE MODE (1-6)
ENTER NO. OR ∨ ∧
```

2   (4) SET

```
ENTER FILE NO.OR ∨ ∧
     FILE NO.=■■■
```
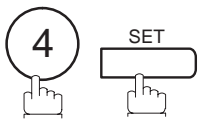
3   Enter the file number or use ▼ or ▲ to select the file that you want to print.

Ex: (0)(0)(1)

```
ENTER FILE NO.OR ∨ ∧
     FILE NO.=001
```

4   SET
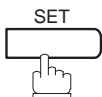
Your machine will print the file. The document(s) will remain in memory even after printing the file.

```
* PRINTING *
     PAGE=001/003
```

! **Note:**
     1. Your machine cannot print the file while it is being sent.

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Retry an Incomplete File

If a memory communication has been unsuccessful due to a busy line or no answer, the document you stored is automatically erased from memory after the last redial.

If you need to retain the document even if the communication fails, change the setting of Fax Parameter No. 031 (INCOMPLETE FILE SAVE) to "Valid" in advance. (See page 73)

To retry the incomplete file, print a File List first to verify the file number. (See page 139)
Then, follow the steps below.
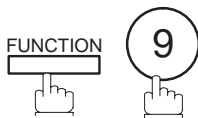
5

1   FUNCTION   (9)

```
EDIT FILE MODE (1-6)
ENTER NO. OR ∨ ∧
```

2   (6)   SET

```
ENTER FILE NO.OR ∨ ∧
     FILE NO.=■■■
```
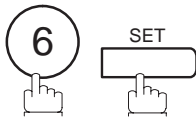
3   Enter the file number or use ▼ or ▲ to select the file that you want to retry.

Ex: (0)(0)(1)

```
ENTER FILE NO.OR ∨ ∧
     FILE NO.=001
```

4   SET

```
* STORE *      NO.001
```
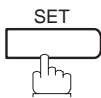
Your machine will retry the file and start dialing immediately.

```
* DIALING *    NO.001
(Station name)
```
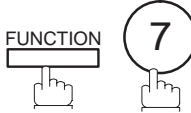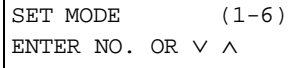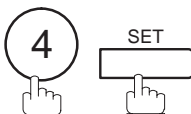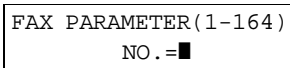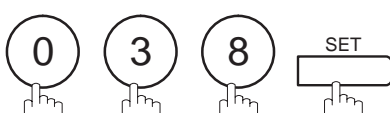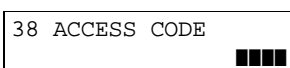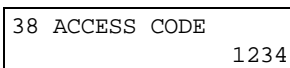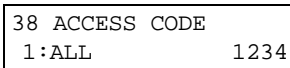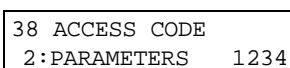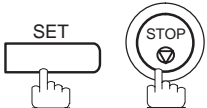
! *Note:*
  1. *To confirm or change the entered telephone number for the file, see page 139 and 141.*
  2. *If you set Fax Parameter No. 031 to "Valid", all incomplete files will remain in the memory. To avoid memory overflow, please check the memory contents frequently. We recommend that optional flash memory card is installed when this function is used. (See page 201)*

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►Access Code

The Access Code prevents an unauthorized user from operating the machine. Once a 4-digit Access Code is registered, no one can operate the machine without entering the correct access code.

Automatic Receiving, however, is always available. After you complete any operation, such as mode setting or transmission, and the display returns to standby, you have to re-enter the access code in order to use the machine again. Registering the Access Code does not affect the use of the machine in any other way.

Setting the Access Code

1 FUNCTION (7)

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 (4) SET

```
FAX PARAMETER(1-164)
       NO.=▮
```

3 (0) (3) (8) SET

```
38 ACCESS CODE
              ▮▮▮▮
```

4 Enter a 4-digit Access Code.

```
38 ACCESS CODE
              1234
```

Ex: (1)(2)(3)(4)

5 SET

```
38 ACCESS CODE
 1:ALL        1234
```

6 Select Restriction Level.

1   for All Operations.

or

2   for Setting and Printing the User Parameters and
    Fax Parameters only.

```
38 ACCESS CODE
 2:PARAMETERS  1234
```

Ex: (2)

7 SET (STOP)

⚠ **Note:**

1. *To erase the Access Code, enter the Access Code and press* SET *and follow the procedure above to step 3, then press* CLEAR SET *and* STOP *.*

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Operating Your Machine with the Access Code (Restrict All Operations)

1 Enter the Access Code.

Ex: ① ② ③ ④

```
12-DEC-1999 15:00
ACCESS CODE=■
```

```
12-DEC-1999 15:00
ACCESS CODE=■■■■
```

2 SET

```
12-DEC-1999 15:00
                00%
```
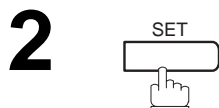
Now you can operate the machine normally.

5

Operating Your Machine with the Access Code (Restrict Access of User/Fax Parameters only)

The DX-2000 can restrict the operation of setting and printing the User Parameters and Fax Parameters only.
Ex: When setting the Fax Parameter.

1 FUNCTION ⑦

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 ④ SET
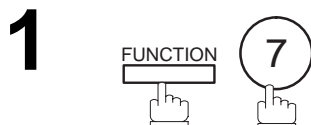
```
INPUT ACCESS CODE
              ■■■■
```

3 Enter a 4-digit Access Code.

Ex: ① ② ③ ④

```
INPUT ACCESS CODE
              1234
```

4 SET

```
FAX PARAMETER(1-164)
        NO.=■
```

Now you can operate the machine normally.

147
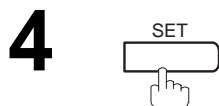
▶Distinctive Ring Detector (DRD)

This function is only effective for companies in countries which offer the DRD Service.

Your machine has a special feature in conjunction with an optional service provided by many local telephone companies. It can distinguish up to 2 telephone numbers with a corresponding ring pattern identifying each number. "DRD" lets you provide multiple phone numbers, one for your fax, business or personal use with only one single phone line.

Please check with your local telephone company on the availability of this service in your area.

Your machine can be programmed to respond to the specified ring pattern only for the DRD Service. To enable your machine to detect the ring pattern only for fax communication, change the setting of Fax Parameter No. 30 (see page 73).

The following table shows a typical example with 2 telephone numbers on a single phone line.

Ex: Specified Ring Pattern = Double Ring

Telephone No.	Usage	Distinctive Ring Sound	Ring Pattern
555-1111	Phone	*Riiing................................Riiing...................................*	Standard Ring
555-2222	Fax	*Ring...Ring........................Ring...Ring........................*	Specified Ring (Double Ring)

The following illustration shows a typical set up, with your machine set to detect Specified Ring (Double Ring).

At Your Location with Distinctive Ring Service

Ring..Ring............Ring..Ring
A person recognizes the call is for the fax machine by the double ring pattern sound.

Ring..Ring............Ring..Ring
The fax machine distinguishes the call is for the fax by the double ring pattern and answers automatically.

Fax No. "555-2222"

Ring..Ring............Ring..Ring
A person recognizes the call is for the fax machine by the double ring pattern sound.

Dialing "555-2222"

⚠ Note:
1. *"Riiing" means a long ringing sound and "Ring" means a short ringing sound.*
2. *The specified ring pattern may differ depending on the each country's regulation or specification.*

148

The DX-2000 lets you send a Transaction Journal to a specified email address.

To enable this feature, follow the steps below.

1   FUNCTION   (7)

```
SET MODE       (1-6)
ENTER NO. OR ∨ ∧
```

5

2   (4)   SET
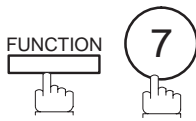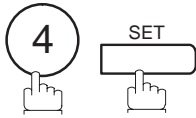
```
FAX PARAMETER(1-164)
        NO.=█
```

3   (1) (5) (7)   SET
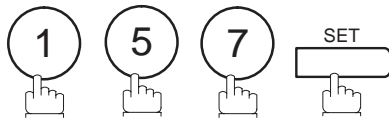
```
157 TRANSACTION JRNL
 1:INVALID
```

4   (2)   for "VALID"
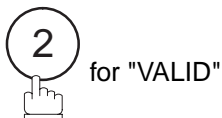
```
157 TRANSACTION JRNL
 2:VALID
```

5   SET
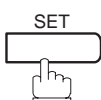
```
157 TRANSACTION JRNL
ENTER STATION
```

6   Enter the station to forward the Transaction Journal to, by assigning a one-touch key or an abbreviated dialing number.

Ex: `01`

```
<01>(Station name)
xyz@panasonic.com
```

7   SET   (STOP)
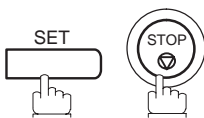
! **Note:**
    1. The Transaction Journal is automatically sent when the number of communications exceed 100.

►Ifax Return Receipt

The DX-2000 automatically sends an Ifax Return Receipt to the sender confirming email reception from another Panafax Internet Fax.

To disable this feature, follow the steps below.

1 FUNCTION 7

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 4 SET
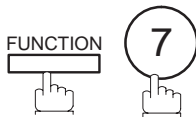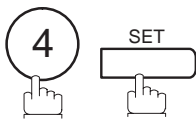
```
FAX PARAMETER(1-164)
        NO.=■
```

3 1 5 0 SET
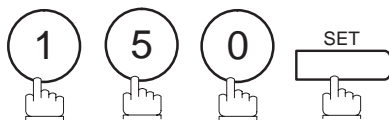
```
150 IFAX RET RECEIPT
 2:VALID
```

4 1 for "INVALID"
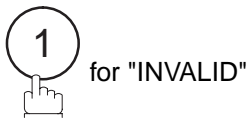
```
150 IFAX RET RECEIPT
 1:INVALID
```

5 SET STOP
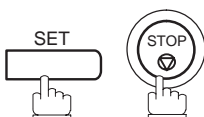
⚠ **Note:**
> 1. The DX-2000 sends the Ifax Return Receipt only when receiving from another Panasonic brand Internet Fax. It will not confirm email sent from a PC. (The default setting for this parameter is "2:VALID".)

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Polling means calling other station(s) to retrieve a document. The other station must know in advance that you will call and must have a document set on the ADF or stored in the memory. You may need to set a polling password, shared by the other station, to ensure security.

Setting the Polling Password

If the polling password does not match with the polled station, your polling request will be refused automatically.

To set the polling password, follow the steps below.

1 FUNCTION (7)

```
SET MODE      (1-6)
ENTER NO. OR ∨ ∧
```

2 (4) SET

```
FAX PARAMETER(1-164)
        NO.=■
```

3 (0) (2) (6) SET
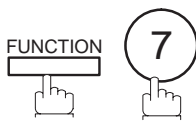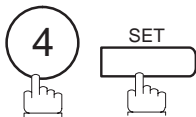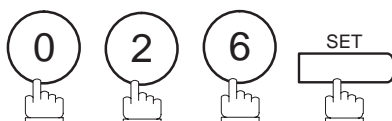
```
26 POLLING PASSWORD
              ■■■■
```

4 Enter a 4-digit polling password.

Ex: (1)(2)(3)(4)

```
26 POLLING PASSWORD
                1234
```

5 SET STOP
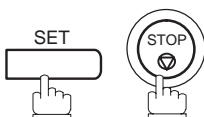
! **Note:**
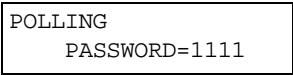
1. Polling might not function with all fax machines. We suggest you attempt a trial polling before you actually poll important documents.
2. If a password is not set in the polled station, you may poll the other station even though your machine has a password.

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►Polling

To Poll Documents from Another Station

The following procedure lets you poll a document from one or multiple stations. Be sure to set the polling password before polling (see page 151).

1 FUNCTION **3**

```
POLLING
    PASSWORD=1234
```

2 Enter a 4-digit polling password. (See Note 2)

Ex: ① ① ① ①

```
POLLING
    PASSWORD=1111
```

3 SET

```
ENTER STATION(S)
THEN PRESS START
```

4 Dial by any combination of the following methods:
• One-Touch Dialing
• Abbreviated Dialing
• Manual Number Dialing, press ⬚ SET ⬚ after each station is entered (up to 70 stations).
• Directory Search Dialing, press ⬚ SET ⬚ after each station is entered
 (For details, see page 93 to 96.)

Ex: |01 |

```
<01>(Station name)
5551234
```

5 START

```
* STORE *      NO.001
```

⚠ **Note:**
 1. *You can review the entered stations in step 4 by pressing ▼ or ▲ key, press ⬚CLEAR⬚ to erase the displayed station as needed.*
 2. *If you have set the polling password in Fax Parameter No. 026, the password will appear on the display. You can still change the password temporarily by overwriting it with a new one.*
 3. *This feature is available only for G3 communication.*

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You can import Fax images by using the DX-2000 transmission function.
Storing a specific email address into a One-Touch key/Program key allows you to import picture images by pressing a single key.

LAN

Internet Fax
DX-2000

Images

Images

PC

PC
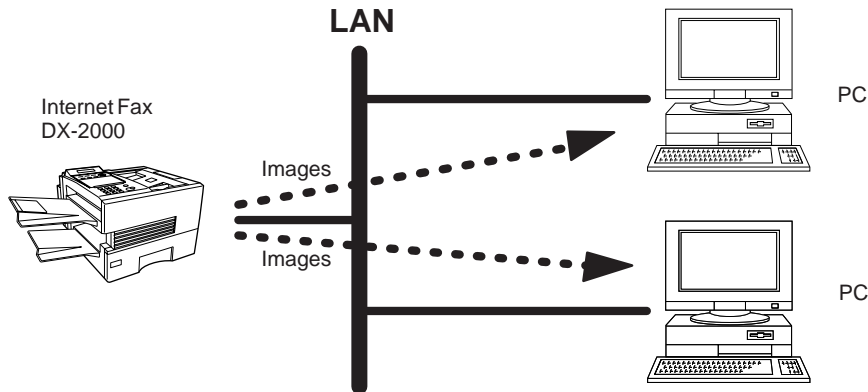
1   Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2   To improve the scanning quality, you can temporarily change the Resolution to "400 dpi" and if you are scanning color photographs or illustrations with gray tones, change the Halftone setting to "Quality".

3   Enter the destination by using by any combination of the following methods:
• One-Touch Dialling
• Abbreviated Dialling
• Directory Search Dialling
• Manual Number Dialling

Ex: 01

```
<01> SALES DEPT NY
abc@panasonic.com
```

4   ◇
START
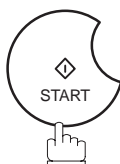
! **Note:**
   1. You can specify multiple email addresses in step 2 (up to 270 email addresses).
   2. Care should be exercised when using the 400 dpi Resolution setting as some Internet Fax models may not support the 400 dpi resolution, such as UF-770i.

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►Network Printer

The DX-2000 allows you to print documents created on your PC using various software applications.

To be able to use this function, install the Printer Driver and LPR software downloaded from the web site first. (See page 22)
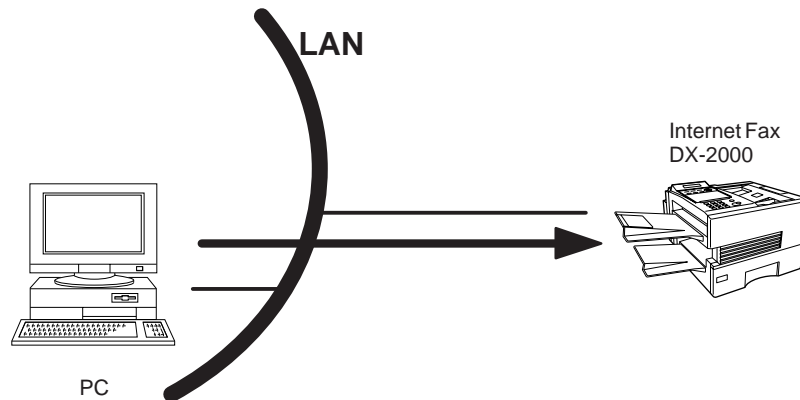
1 Select the "DX-2000" as your default printer on the PC.

2 From any software application, instruct your PC to print to the DX-2000.

3 The DX-2000 receives and prints the document.

```
ON LINE * RCV *
Printing Data
```

To print at a resolution of 600 dpi, the following optional Expansion D-RAM Cards must be installed on the Panafax Facsimile unit:

Expansion D-RAM Card	Paper size	Resolution	Printing Performance
2MB Card (UE-410033)	A4	600dpi	Normal
2MB Card (UE-410033)	Letter	600dpi	Normal
4MB Card (UE-410034)	Legal	600dpi	Normal
8MB Card (UE-410057)	All	600dpi	Higher

! *Note:*
   1. The DX-2000 is unable to receive print jobs while it is engaged in a communication task. After the communication job is completed, the PC will transfer the print job to the DX-2000 for printing.
   2. If one of the above Expansion D-RAM Card is installed, the Option Page Memory (Parameter No. 060) on the Panafax Facsimile unit must be set according to the memory capacity of the D-RAM Cards:

D-RAM Card memory capacity	Selection
0MB	1: 0MB
2MB	2: 2MB
4MB	3: 4MB
8MB	4: 8MB

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General Description

The Internet Relayed Transmission feature can save you time and transmission costs if you need to send the same documents to multiple G3 fax machines.

This is especially true if the transmissions are long distance.

You can send documents to any G3 fax machine by using the Internet via a LAN from your DX-2000 to another Relay Station (DX-2000).

You can also send an email with attached TIFF-F file(s) to any G3 fax machine from your PC using your current email application through a Relay Station (DX-2000).

To use the Internet Relayed Transmission, the Relay Station must be set up properly.

Example 1: Internet Relay Transmission
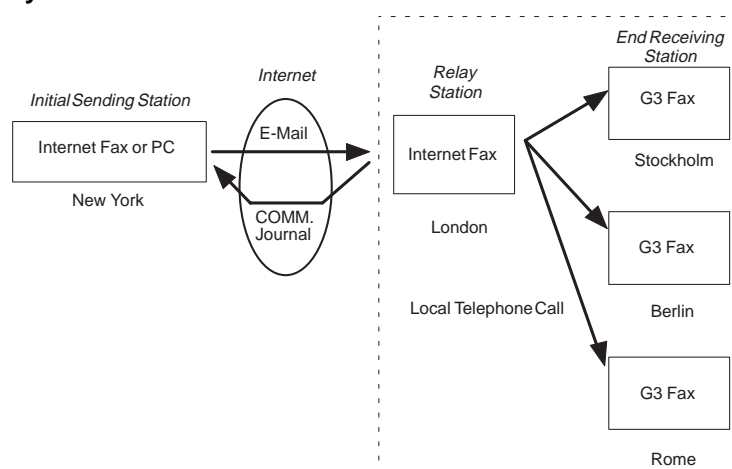
From your PC or DX-2000 you can send documents to a Relay Station with the telephone number of the End Receiving Station(s).

After the Relay Station completes its transmission to the End Receiving Station, your PC or the DX-2000 receives a COMM. Journal from the Relay Station. This COMM. Journal confirms whether the Internet Relayed Transmission was successful.

Example 2: Fax Server (Intranet Relay Transmission)
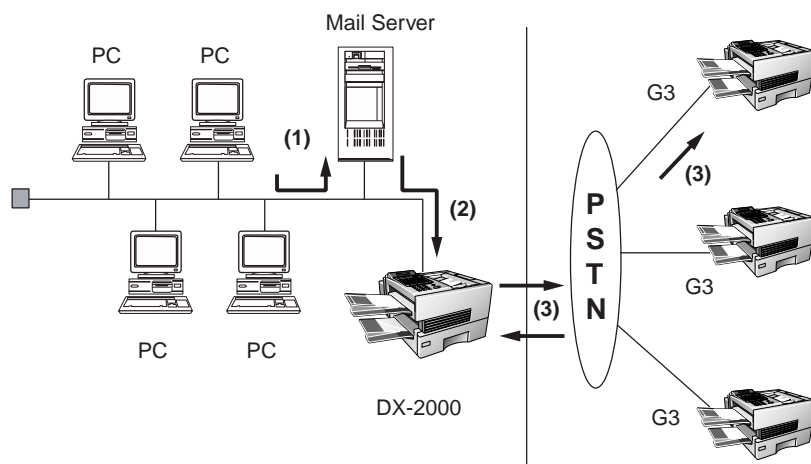
(1) Initiate a Relay Transmission via email to the Mail Server
(2) Mail Server transfers the email to the DX-2000 with relay instructions to transmit to a G3 machine
(3) DX-2000 initiates a telephone call to a G3 machine and transmits the document

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►Relayed Transmission

Relay Network

This Feature saves you time and long distance phone line costs when sending an Internet Fax directly from your machine to the end receiving station(s).

A Relay Network is basically composed of an Originating Station, which can be an Internet Fax Machine (DX-2000) or a PC, a Relaying Internet Fax Machine (another DX-2000), and End-receiving station(s), which can be regular G3 Fax machines.
By simply sending a Document(s) from your DX-2000 or an email message from a PC, to **the DX-2000 (Relay machine)**, which is then transmitted by the DX-2000 to the end receiving station(s) using regular phone lines as a normal G3 Fax message. (PC can have TIFF-F or text (.txt) file attachment)
The end receiving station(s) are usually local in relation to the Relay Station, which incurs a local telephone charge for the Fax Transmission.

After the Relay Station completes its transmission to the end receiving station(s), a Communication Journal is sent back to the originator from the Relaying Internet Fax (DX-2000) confirming whether the Internet Relayed Transmission was successful. Any Relay activity information is sent by email from the Relaying Internet Fax to its Manager's Email Address, which is programmed in the Relaying Internet Fax machine's User Parameters (see page 45).

To use the Internet Relayed Transmission, just follow the set up procedure described on pages 161 to 167 and obtain certain information provided by the Relaying machine **(DX-2000)** operator. A sample network is shown in Figure 1.

Figure 1 shows a sample network as seen from **New York *(Initiating Station)*, London and Singapore are *(Relay Stations)*** connected to New York, and the ***(End Receiving Stations)*** are **Stockholm, Rome, Tokyo, Hong Kong, and Sydney.**

With this simple network using two Relay Stations, you can send a document with one operation to any combination of stations in the network via the London Relay Station and/or Singapore Relay Station.

New York
Email Address: ifax@newyork.panasonic.com
Host Name: newyork
Relay XMT Password: usa-rly

London
Email Address: ifax@london.panasonic.co.uk
Host Name: london
Relay XMT Password: uk-rly

Stockholm
Tel. No.: 46 8 111 1234

Berlin
Tel. No.: 46 611 111 1234

Rome
Tel. No.: 39 6 111 1234

Tokyo
Tel. No.: 81 33 111 1234

Hong Kong
Tel. No.: 852 23123456

Sydney
Tel. No.: 61 2 111 1234

Wellington
Tel. No.: 64 4 111 1234

Singapore
Email Address: ifax@singapore.panasonic.co.sg
Host Name: singapore
Relay XMT Password: sg-rly

Figure 1 : Sample Network

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Table 2, 3 and 4 are sample settings for a Sample Network.

Table 2 : Sample Parameter and One Touch/Abbreviated Dialling Number Table for New York (Originating Station)

Telephone Number   : 212 111 1234
Email Address(SMTP)   : ifax@newyork.panasonic.com
Host Name   : newyork
Relay XMT Password   : usa-rly

One-Touch/ ABBR No.	Station Name	Email Address / Telephone Number	Relay Station Address
<01>	London	Ifax@london.panasonic.co.uk	---
<02>	Stockholm	46 8 111 1234	[001]
<03>	Singapore	Ifax@singapore.panasonic.co.sg	---
<04>	Tokyo	81 33 111 1234	[002]
[001]	London Relay	uk-rly@london.panasonic.co.uk	---
[002]	Singapore Relay	sg-rly@singapore.panasonic.co.sg	---
[003]	Rome	39 6 111 1234	[001]
[004]	Hong Kong	852 23123456	[002]
[005]	Sydney	61 2 111 1234	[002]

6

Table 3 : Sample Parameter and One Touch/Abbreviated Dialling Number Table for London (Relaying Station)

Telephone Number   : 71 111 1234
Email Address (SMTP)   : ifax@london.panasonic.co.uk
Host Name   : london
Relay XMT Password   : uk-rly

One-Touch/ ABBR No.	Station Name	Email Address / Telephone Number	Relay Station Address
<01>	New York	Ifax@newyork.panasonic.com	---
<02>	Stockholm	46 8 111 1234	[005]
<03>	Singapore	Ifax@singapore.panasonic.co.sg	---
<04>	Tokyo	81 33 111 1234	[001]
[001]	Singapore Relay	sg-rly@singapore.panasonic.co.sg	---
[002]	Rome	39 6 111 1234	[005]
[003]	Hong Kong	852 23123456	[001]
[004]	Sydney	61 2 111 1234	[001]
[005]	London Relay	uk-rly@london.panasonic.co.uk	---

Table 4 : Sample Parameter and One Touch/Abbreviated Dialling Number Table for Singapore (Relaying Station)

Telephone Number   : 65 111 1234
Email Address (SMTP)   : ifax@singapore.panasonic.co.sg
Host Name   : singapore
Relay XMT Password   : sg-rly

One-Touch/ ABBR No.	Station Name	Email Address / Telephone Number	Relay Station Address
<01>	London	Ifax@london.panasonic.co.uk	---
<02>	Stockholm	46 8 111 1234	[001]
<03>	New York	Ifax@newyork.panasonic.com	---
<04>	Tokyo	81 33 111 1234	[005]
[001]	London Relay	uk-rly@london.panasonic.co.uk	---
[002]	Rome	39 6 111 1234	[001]
[003]	Hong Kong	852 23123456	[005]
[004]	Sydney	61 2 111 1234	[005]
[005]	Singapore Relay	sg-rly@singapore.panasonic.co.sg	---

! Note:
1. The Relay XMT Password must be registered for the DX-2000 to work as a Relay Station (see page 160).
2. To prevent unauthorized stations from accessing your Relay Station for Internet Relayed Transmissions, you must setup your network security. Enter acceptable Domain Name(s) and the Manager's Email Address for notification of all Internet Relayed Transmissions (see page 160).

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►Relayed Transmission

Setting up your DX-2000 as an Internet Relay Station

To set up your machine as a Relay Station, the following parameters must be set properly.

1. Relay XMT (Fax Parameter No. 142)
Selecting whether the machine will accept and performs G3 relayed transmission (see page 74).

    1:Invalid   - Machine will not accept a Relay XMT request.
    2:Valid   - Machine will accept a Relay XMT request.

2. Relay XMT Report (Fax Parameter No. 143)
Selecting how the COMM. Journal for relayed transmission is sent to the originator.

    1:Off   - Do not send
    2:Always   - The COMM. Journal is always sent after a Relay Communication is completed or has failed.
    3:Inc. Only   - The COMM. Journal is sent if the Relay Communication to the destination has failed.

3. Relay XMT Password (User's Parameter) (See Note 1)
Enter a Relay XMT Password (up to 10 characters) to be used for protection against unauthorized (outside) stations from accessing your machine to relay messages to a G3 fax machine via PSTN. This password should be given out to authorized people only.

4. Relay Address (Auto Dialler)
Enter a 3-digit Abbreviated Number which will assign the Relay Email Address of the Relay Station your machine will use.

5. Manager's Email Address (User's Parameter)
Register the Department Manager's Email Address for supervision and cost control purposes. Once registered, the machine will send an email notification to this email address for each Relayed XMT Request received from a remote station. The following information is sent.
(From : *The email address of the originating station.*)
(To   : *The telephone number of the destination G3 fax machine.*)

6. Domain Names (User's Parameter) (See Note 2)
Register up to 10 Domain Names (up to 30 characters) that your machine will accept Relayed Transmission Requests to relay a message to another G3 fax machine via PSTN.

      Ex: Registered Domain Names
          (01):   rdnn.mgcs.co.jp
          (02):   rdmg.mgcs.co.jp
          (03):   panasonic.com

In the example above, the Relayed XMT Request will be accepted only from the email addresses that include the Domain Name of rdnn.mgcs.co.jp, rdmg.mgcs.co.jp or panasonic.com.

! **Note:**
    1. This should be different than the DX-2000's Email Address used to receive regular email / Internet Fax, as DX-2000's Email Address is always included in the header of all email messages sent. So, anyone receiving an Internet Fax from the machine will easily know the Relay XMT Password if it is the same as the Email Address.
    2. If all the Domain Names are left blank, the Internet Fax will accept Relayed XMT Requests from any domain.
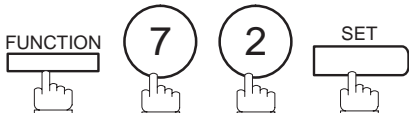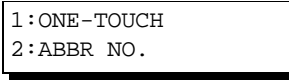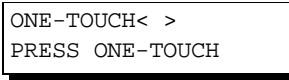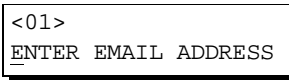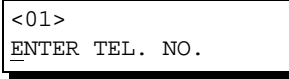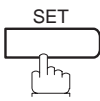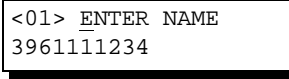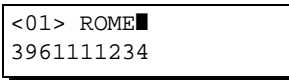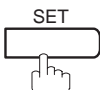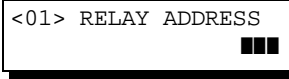
Setting Up Your Machine for Relayed Transmission

Programming the End Receiving Station into your Auto Dialler

If the Fax Parameter No. 140 (LAN RELAY XMT REQUEST) is set to "Valid", you can enter the Relay Address (ABBR No.) by the following procedure.

To set a One-Touch/ABBR for Relayed Transmission Request

1 FUNCTION 7 2 SET

```
1:ONE-TOUCH
2:ABBR NO.
```

6

2 **Ex:** 1

```
ONE-TOUCH< >
PRESS ONE-TOUCH
```

3 Press a One-Touch key (01-32).

Ex: 01

```
<01>
ENTER EMAIL ADDRESS
```

4 To change the input mode (between "ENTER EMAIL ADDRESS" and "ENTER TEL. NO."), press ⌷INTERNET⌷ .

```
<01>
ENTER TEL. NO.
```

5 Enter the telephone number (up to 36 digits).

If the Relay and the End Receiving Stations are both in the same area, omit the Country Code and the Area Code from the End Receiving Station. The End Receiving Station is a local telephone number as viewed from the Relay Station.

```
<01>
3961111234■
```

6 SET

```
<01> ENTER NAME
3961111234
```

7 Enter the station name by using the character keys (up to 15 characters).

Ex: ⌷R⌷⌷O⌷⌷M⌷⌷E⌷

```
<01> ROME■
3961111234
```

8 SET

```
<01> RELAY ADDRESS
              ■■■
```

Continued on the next page...

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9 Enter the 3-digit Abbreviated number of the Relay Station that you want to assign to this End Receiving Station.

The Abbreviated number must contain the Relay XMT Password of the Relay Station.

Ex: (0) (0) (1)
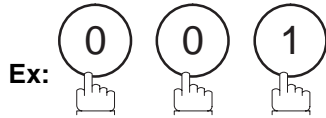
```
<01> RELAY ADDRESS
                 001
```

10 SET

```
ONE-TOUCH< >
PRESS ONE-TOUCH
```
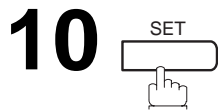
You can now set an additional One-Touch/Abbreviated numbers for Relayed Transmission Request by repeating the procedures from Step 3 to 8, or return to standby by pressing STOP .

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Sending Documents via Internet Relay

Once you have recorded all the necessary parameters in your machine, you can send a document to one or multiple G3 fax machines automatically through the Internet Relay Station by using the procedure described below. The Internet Relay Station must have all the necessary parameters setup.

To a Location That Has a Pre-programmed Relay Station

1 Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2 Enter only the telephone number(s) of the End Receiving Station(s) using any combination of the following methods:
- One-Touch Dialling
- Abbreviated Dialling
- Manual Number Dialling (up to 70 stations), press SET after each station is entered. (see Note)
- Directory Search Dialling, press SET after each station is entered (For details, see page 93 to 96.)

```
<02> STOCKHOLM
4681111234
```

Ex: 02

3

START

The document(s) is stored into memory and your machine starts sending the document(s) to the Relay email address of the Relay Station with the telephone number for the End Receiving Station.

```
* STORE *    NO.002
   PAGES=001   05%
```

Ex: End Receiving Station : 4681111234
                              (Telephone number)
                              [see Note 1]
    Relay Station   : uk-rly@london.panasonic.co.uk

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

After the Relay Station completes its transmission to the End Receiving Station(s), your machine receives a COMM. Journal from the Relay Station. This Journal confirms whether the Internet Relayed Transmission was successful.

```
ON LINE *MEM.XMT*
ID:uk-rly#4681111234
```

⚠ **Note:**
1. *If the Relay Station requires a special access number to get an outside line, enter that access number first then press PAUSE to enter a pause (represented by a "-") before entering the full number.*

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►Relayed Transmission

To a Location That Does Not Have a Pre-programmed Relay Station

1

Set document(s) face down.

```
ENTER STATION(S)
THEN PRESS START 00%
```

2

FUNCTION ② 2
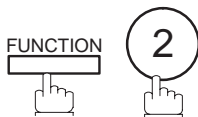
```
RELAY XMT
ENTER RELAY STATION
```

3 Assign a Relay Station by either one of the following methods.
- Manual Dialling (press the ⎡INTERNET⎤ key first, then enter the email address for the Relay Station)
- One-Touch Dialling
- Abbreviated Dialling
- Directory Search Dialling (For details, see page 93 to 96.)

Ex: ⎡ABBR⎤ ⓪ ⓪ ①

```
[001]LONDON RELAY
uk-rly@london.panas
```

```
RELAY XMT
ENTER STATION(S)
```

4 Enter only the telephone number(s) of the End Receiving Station(s) using any combination of the following methods.
- One-Touch Dialling
- Abbreviated Dialling
- Manual Number Dialling, press ⎡SET⎤ after eachstation is entered (up to 70 stations).
- Directory Search Dialling, press ⎡SET⎤ after eachstation is entered.
(For details, see pages 93 to 96.)

Ex: | 02 |

```
<02> STOCKHOLM
4681111234
```

162

5

START

```
* STORE *      NO.002
    PAGES=001   05%
```

The document(s) is stored into memory and your machine starts sending the document(s) to the Relay email address of the Relay Station with the telephone number for the End Receiving Station.

```
* STORE * COMPLETED
TOTAL PAGES=005  25%
```

Ex: End Receiving Station : 4681111234 (Telephone number)
[see Note 1]
Relay Station : uk-rly@london.panasonic.co.uk

```
ON LINE *MEM.XMT*
ID:uk-rly#4681111234
```

6

After the Relay Station completes its transmission to the End Receiving Station(s), your machine receives a COMM. Journal from the Relay Station. This Journal confirms whether the Internet Relayed Transmission was successful.

! *Note:*
1. If the Relay Station requires a special access number to get an outside line, enter that access number first then press PAUSE *to enter a pause (represented by a "-") before entering the full number.*
2. The "#" character is not available for the email address of the relay station.

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▶Relayed Transmission

Sending Document(s) from a PC to a G3 Fax Machine

Using your email application, you can send any document(s) from your PC as a TIFF-F attachment to one or multiple G3 fax machines automatically through the Internet Relay Station.

The Internet Relay Station (DX-2000) must be properly setup with all the required parameters.

To send a Relayed Transmission from your PC using your email application, follow the example below.

Ex: In the "To:" box of your email application, type the following:

sg-rly#81331111234@singapore.panasonic.co.sg
> or
sg-rly#*001@singapore.panasonic.co.sg

- Relay XMT Password: sg-rly
- # + End Receiving Station (with Phone Number):   #81331111234 (see Note 1)
- # *+ End Receiving Station (with One-Touch Number):   #*1001-#*1032 (see Note 1)
- # *+ End Receiving Station (with Abbreviated Dialling Number):   #*000-#*999 (see Note 1)
- # *+ End Receiving Station (with Program Key as a Group Dialling):   #*1033 - #*1040 (see Note 1)
- @ + Relay Station's Domain Name: @singapore.panasonic.co.sg

Your PC sends the text document(s) to the Relay email address of the Relay Station with the telephone number of the End Receiving Station.

After the Relay Station completes its transmission to the End Receiving Station(s), your PC receives a COMM. Journal from the Relay Station. This Journal confirms whether the Internet Relayed Transmission was successful.

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A **TIFF Converter** software is used on your PC to convert document(s) into a "TIFF" file format, which allows the Internet FAX to receive the document as an attachment to an email. When you are sending a detailed graphic document(s) to a DX-2000 or a DX-1000, you can specify 400 dpi resolution for better clarity.

ifax Mailer software is an add-in program for the TIFF Converter that links the email client for MAPI to the TIFF converter for the Internet FAX.

To send a printing image as email from the application to the Internet FAX, you have to convert the file into the format that the Internet FAX is allowed to receive and print as an email using the TIFF file creation function. You also have to send that file to the Internet FAX as an attached document.
ifax Mailer, allows you to automatically create TIFF files by pressing one button form the TIFF Converter for the Internet FAX.

You can download the Panasonic's TIFF Converter and ifax Mailer software and their respective User's Guides from any of the following URL addresses:

http://www.panasonic.co.jp/mgcs/internetfax/
http://www.panasonic.com/internetfax

To simplify the Relay Transmission operation, Panasonic has an Optional Panafax Fax Gate software.
Please visit the following URL address for more details:

http://www.panasonic.com/office

6

! Note:
　　1. The "#" and "*" symbol must be entered after the Relay XMT Password as it indicates to the DX-2000 that a phone number for the End Receiving Station will follow.
　　2. If the Relay Station requires a special access number to get an outside line, enter that access number first then enter a hyphen (represented by a "-") before entering the full number.

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►Relayed Transmission

Printouts and Reports

When you use Relayed Transmission, your machine will print the following two reports to help you check and keep track of your faxes.

1. Relay XMT Report (COMM. JOURNAL)
When your machine finishes transmitting to the Relay Station, it will print a COMM. Journal when the Fax Parameter No. 143 is set to "**2**"(Always) or "**3**"(Inc. Only), this tells you whether the transmission was successful or not.

2. Transmission Journal
When the Relay Station receives instructions for a relayed transmission, a notification is emailed to the registered manager (see "Setting up your DX-2000 as an Internet Relay Station" on page 158).

Sample Relay XMT Report (COMM. JOURNAL)

```
************** -COMM. JOURNAL - ***************** DATE 12-DEC-1999 **** TIME 15:00 **** P.01

  (1)                                      (2)                     (3)
  MODE = RELAYED TRANSMISSION              START= 12-DEC 15:00    END= 12-DEC 15:00

   FILE NO.= 050 (4)

 (5)     (6)            (7)                                        (8)           (9)
 STN     COMM.   ONE-TOUCH  STATION NAME/EMAIL ADDRESS/TELEPHONE NO.   PAGES       DURATION
 NO.             ABBR NO.
 001     R-OK               4681111234                               001/001     00:00:15
 002     R-OK               3961111234                               001/001     00:00:15


                                          - PANASONIC -

 ************************************** - HEAD OFFICE    - ****** - 201 555 1212 - *******
```

(1) Indicates the communication mode

(2) Start time of communication

(3) End time of communication

(4) File number   : 001 to 999

(5) Sequential number of the stations

(6) Communication result   : "R-OK" indicates that the Relayed XMT Request was successful.
                                   3-digit Info Code (see page 183) indicates that the communication has failed.

(7) Telephone Number, Email Address or Station Name of the end receiving station

(8) Number of pages transmittedv : 3-digit number represents the number of pages successfully transmitted.

(9) Duration of communication

⚠ **Note:**
　　　　1. If you transmit through more than one Relay Station, you will receive a separate Result Report.

Sample Relayed Transmission Notification Email to a Manager

```
G3 Relay LOG [ifax@london.panasonic.uk->4681111234]      _ □ X

 File    Edit    View    Tools    Message    Help

  Reply   Reply All   Forward    Print    Delete    Previous    Next

From:     ifax@london.panasonic.uk
Date:     Tuesday, September 14, 1999 11:36 AM
To:       v4@labo.mgcs.co.jp
Subject:  G3 Relay LOG [ifax@london.panasonic.uk->4681111234]

G3 Relay LOG

Sender:   ifax@network.panasonic.com

Receiver: 4681111234
          3961111234
```

Explanation of Contents
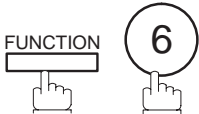
(1) Email address of the sender's Internet Fax (DX-2000) or PC

(2) End Receiving Station's G3 fax telephone number(s)

This page is intentionally left blank.

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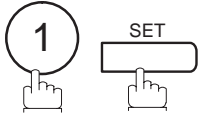
To help you maintain records of the documents you sent and received, as well as lists of the numbers you record, your facsimile machine is equipped to print the following journals and lists: Transaction Journal, Communication Journal, One-Touch/Abbreviated/Directory Search No. List, Program List, Fax Parameter List, Directory Sheet and File List.

Transaction Journal

The "Journal" is a record of the last 100 transactions (a transaction is recorded each time you send or receive a document). It is printed out automatically after every 100 transactions (see Note 1), or you can print or view it manually by using the following procedure:

1 FUNCTION 6

```
PRINT OUT      (1-7)
ENTER NO. OR ∨ ∧
```

7

2 1 SET

```
JOURNAL
1:PRINT 2:VIEW
```

3a 1 for printing a Journal

```
* PRINTING *
JOURNAL
```

3b 2 for viewing a Journal

```
JOURNAL VIEW
1:XMT ONLY 2:ALL
```

4b Select the viewing mode.

1 to view transmission transactions only

2 to view all transactions

```
USE THE ∨ ∧ KEYS TO
SCROLL EACH RECORD
```

Ex: 2

You can view the transactions in the journal by pressing ▼ or ▲. Press STOP to return to standby.

Date & Time

Communication Result

OK: Communication was successful.
BUSY: Line busy
STOP: STOP was pressed.
P-OK: Reserved transmission was successful under memory full condition.
R-OK: Relayed transmission was successful.
––: LAN transmission
3-digit Info Code: Communication has failed
(Refer to page 185 for details.)

```
01/12 10:00   OK P01
XMT ☏ 5551234      ∧
```

Number of pages successfully transmitted or received.

Type of Communication

XMT: Transmission
RCV: Reception
POL: Polling
FWD: Fax Forward

Received ID, recorded name, dialed telephone number, or email address

Scroll Marker

∧ : Latest transaction
∨ : Oldest transaction
■ : Only 1 transaction

! *Note:*
1. *If you wish to disable the automatic print out of the Transaction Journal, change the setting of Fax Parameter No. 013 to "Invalid" (see page 72).*

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▶Journals and Lists

Sample Transaction Journal

```
                                                          (1)                      (2)
****************** –JOURNAL– ************************* DATE 12-DEC-1999 ***** TIME 15:00 ***** P.01

  (3)   (4)    (5)     (6)    (7)        (8)    (9)                      (10)     (11)    (12)
  NO.   COMM.  PAGES   FILE   DURATION   X/R    IDENTIFICATION           DATE     TIME    DIAGNOSTIC

  01    OK     001/001  149   00:00:52   XMT    ✆215                     12-DEC   20:04   C8444B0577000
  02    --     001/001  151   00:00:02   XMT    TEST                     12-DEC   20:07   01 STN(S) LAN
  03    --     003/003  153   00:00:20   XMT    fax@nwfax1               12-DEC   20:09   01 STN(S) LAN
  04    OK     003      154   00:00:21   RCV    fax@nwfax1.rdmg.mgcs     12-DEC   20:10            LAN
  05    OK     001      155   00:00:19   RCV    215                      12-DEC   20:11   C0542B0577000
  06    634    000/003  156   00:00:00   XMT    ✆216                     12-DEC   20:14   0800420000000
  07    408 *  003               00:02:14   XMT    ✆217                  12-DEC   21:17   0040440A30080

  49    OK     000/001  159   00:00:07   XMT    TEL XMT                  12-DEC   20:18   CA40462000000
  50    OK     001/001  160   00:00:16   XMT    TEL XMT                  12-DEC   20:19   C8444B0577000
                                                <<  CONTINUE  >>
                                                     (13)
                                                          –PANASONIC            –

******************************** –HEAD OFFICE    – ***** –           201 555 1212– *********
                                 (15)                                 (14)
```

```
                                                      (1)                   (2)
****************** –JOURNAL– ************************* DATE 12-DEC-1999 ***** TIME 15:00 ***** P.01

  (3)  (4)   (5)     (6)    (7)        (8)   (9)                      (10)     (11)    (12)
  NO.  COMM. PAGES   FILE   DURATION   X/R   IDENTIFICATION           DATE     TIME    DIAGNOSTIC

  51   OK    001/001  229   00:00:48   XMT   PANAFAX                  12-DEC   22:04   C8444B0577000
  52   --    001/001  230   00:00:01   XMT   PANASONIC               12-DEC   23:07   01 STN(S) LAN
  53   --    003/003  231   00:00:12   XMT   fax@nwfax1               12-DEC   23:09   01 STN(S) LAN
  54   OK    003      231   00:00:14   RCV   fax@nwfax1.rdmg.mgcs     12-DEC   24:10            LAN

  00   OK    001/001  332   00:01:10   XMT   AAAAAA                   12-DEC   23:19   C8444B0577000


                                              (13)
                                                     PANASONIC –

******************************** –HEAD OFFICE    – ***** –           201 555 1212– *********
                                 (15)                                 (14)
```

⚠ **Note:**
  1. Email transmission sent to multiple locations is recorded as a single transaction on the Journal.

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Explanation of contents

(1) Printout date

(2) Printout time

(3) Journal number

(4) Communication result   : "OK" indicates that the communication was successful.
"BUSY" indicates that the communication has failed because of busy line.
"STOP" indicates that **STOP** was pressed during communication.
"P-OK" indicates that memory overflow occurred while storing the documents into memory for transmission but successfully stored document(s) was sent.
"R-OK" indicates that the Relayed XMT was successful.
"- -" indicates LAN transmission.
"3-digit Info Code" (see page 183) indicates that the communication has failed.

(5) Number of pages transmitted or received   : The 3-digit number is the number of pages successfully transmitted or received. When the documents are stored into memory, two 3-digit numbers will appear. The first 3-digit number represents the number of pages successfully transmitted. The second 3-digit number represents the total number of pages that were attempted to be transmitted. Asterisk "*" indicates that the quality of some received copies was poor.

(6) File number   : 001 to 999 (If the communication is stored into memory, a file number is assigned for each communication.)

(7) Duration of communication

(8) Type of communication   : "XMT" means Transmission
"RCV" means Reception
"POL" means Polling
"FWD" means Fax Forward

(9) Remote station identification   : Name : Recorded name in One-Touch or ABBR Numbers or remote station's Character ID.
✆ number : Dialed telephone number (PIN code will not be shown)
Number : Remote station's ID number.
Email address

(10) Communication date

(11) Communication Start time

(12) Diagnostic   : For service personnel only

(13) Own LOGO   : Up to 25 characters

(14) Own ID number   : Up to 20 digits

(15) Own Character ID   : Up to 16 characters

7

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►Journals and Lists

Communication Journal (COMM. JOURNAL)

The Communication Journal (COMM. JOURNAL) lets you verify whether the transmission or polling was successful. You may select the printout condition (Off/Always/Inc. only) in Fax Parameter No. 012.

Sample COMM. JOURNAL

```
************** - COMM. JOURNAL - ***************** DATE 12-DEC-1999 **** TIME 15:00 **** P.01

   (1)                                      (2)                    (3)
   MODE = MEMORY TRANSMISSION               START=12-DEC 14:50     END=12-DEC 15:00

      FILE NO.= 050 (4)

   (5)       (6)      (7)          (8)                                   (9)         (10)
   STN       COMM.    ONE-TOUCH    STATION NAME/EMAIL ADDRESS/TELEPHONE NO.  PAGES   DURATION
   NO.                ABBR NO.

   001       OK       <01>         SERVICE DEPT.                         001/001     00:01:30
   002       OK       <02>         SALES DEPT.                           001/001     00:01:25
   003       407      <03>         ACCOUNTING DEPT.                      000/001     00:01:45
   004       BUSY     ✆            021 111 1234                          000/001     00:00:00

                                                            - PANASONIC -

*********************************** - HEAD OFFICE       - ****** - 201 555 1212 - *******
```

THE SLEREXE COMPANY LIMITED

SAPORS LANE · BOOLE · DORSET · BH 25 8 ER

TELEPHONE BOOLE (945 13) 51617 · TELEX 123456

Our Ref. 350/PJC/EAC   18th January, 1972.

Dr. P.N. Cundall,
Mining Surveys Ltd

...variations of print density on
cause the photocell to generate an analogous electrical video signal.
This signal is used to modulate a carrier, which is transmitted to a
remote destination over a radio or cable communications link.

   At the remote terminal, demodulation reconstructs the video
signal, which is used to modulate the density of print produced by a
printing device. This device is scanning in a raster scan synchronised
with that at the transmitting terminal. As a result, a facsimile
copy of the subject document is produced.

   Probably you have uses for this facility in your organisation.

            Yours sincerely,

            Phil.

            P.J. CROSS
            Group Leader - Facsimile Research
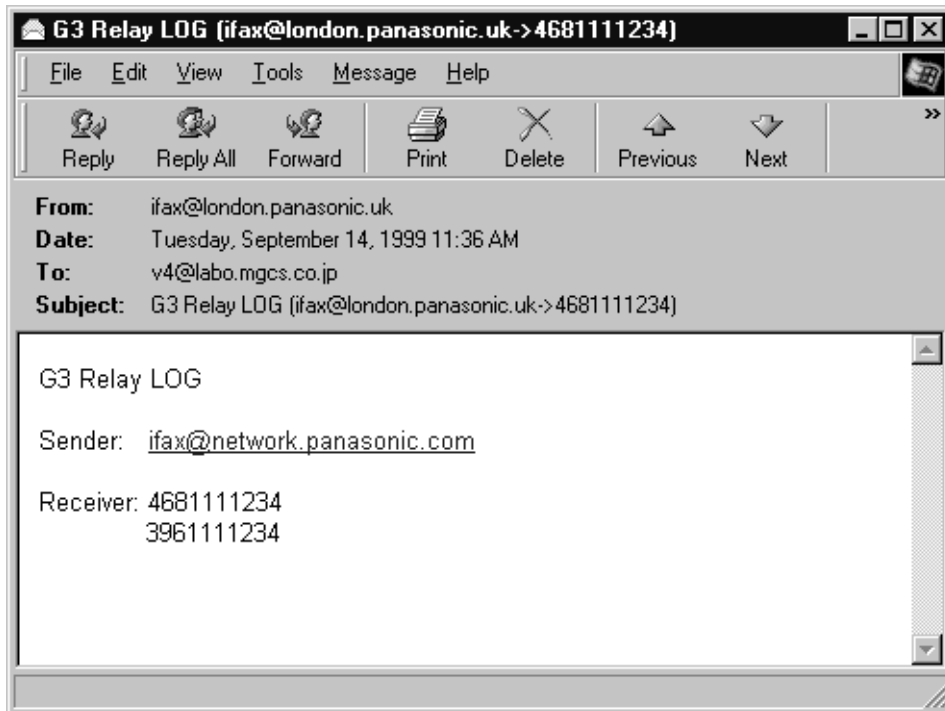
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Explanation of contents

(1) Indication of communication mode

(2) Start time of communication

(3) End time of communication

(4) File number   : 001 to 999 (When the communication is stored into memory, a file number is assigned for each communication.)

(5) Station number   : Sequential number of the Stations.

(6) Communication result   : "OK" indicates that the communication was successful.
"BUSY" indicates that the communication has failed because of busy line.
"STOP" indicates that **STOP** was pressed during communication.
"P-OK" indicates that memory overflow occurred while storing the documents into memory for transmission but successfully stored document(s) was sent.
"R-OK" indicates that the Relayed XMT was successful.
"- -" indicates LAN transmission.
"3-digit Info Code" (see page 183) indicates that the communication has failed. In this case, the machine will print out the attached report with first page of your document as shown on the previous page.

(7) One-Touch/Abbreviated number or ✆ mark   : ✆ mark indicates dialed by direct number dial.

(8) Recorded name in One-Touch, ABBR, direct dialling number, or email address

(9) Number of pages transmitted or received   : The 3-digit number is the number of pages successfully transmitted or received. When the documents are stored into memory, two 3-digit numbers will appear. The first 3-digit number represents the number of pages successfully transmitted. The second 3-digit number represents the total number of pages that were attempted to be transmitted.

(10) Duration of Communication

7

►Journals and Lists

One-Touch/Abbreviated and Directory Search List

To print a One-Touch/Abbreviated Number and Directory Search List of the telephone numbers you have stored.

1 FUNCTION ⑥

```
PRINT OUT     (1-7)
ENTER NO. OR ∨ ∧
```
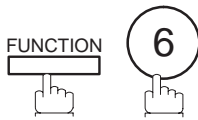
2 ②

```
2:ONE-TCH/ABBR LIST?
PRESS SET TO PRINT
```

3 SET
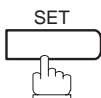
```
1:ONE-TOUCH/ABBR NO.
2:DIR. SEARCH
```

4 ① for One-Touch/ABBR Number List

```
* PRINTING *
ONE-TOUCH/ABBR LIST
```

or

or

② for Directory Search List

```
* PRINTING *
DIR. SEARCH LIST
```

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Sample One-Touch List

```
*************** -ONE-TOUCH LIST- ***************** DATE 12-DEC-1999 ***** TIME 11:11 *** P.01
(1)        (2)                  (3)                                      (7)
ONE-   STATION NAME    EMAIL ADDRESS / TELEPHONE NO.
TOUCH                  ROUTING SUB-ADDR (5)  ROUTING TSI (6)       RELAY ADDR (ABBR NO.)

<01>  John Smith      ✆201 555 3456
                      4452                 +1 201 123 4567            [001]
<02>  Jane Smith      ✆201 555 1212
                      1212                 212 555 1234               [002]
<03>  Bob Jones       jonesb@abcdefg.com
                      123456               201 555 1212
<04>  Panafax1        panafax1@rdmg.mgcs.mei.co.jp
                      4827                 +81 03 5251 1234
<05>  Panafax2        panafax2@rdnn.mgcs.mei.co.jp
                      1773                 +81 0467 5251 1234

          NO. OF STATIONS = 05


                                          -PANASONIC           -

*************************************************-HEAD OFFICE - ***** - 201 555 1212- *********
```

Sample ABBR Number List

```
*************** -ABBR NO. LIST- ***************** DATE 12-DEC-1999 ***** TIME 11:11 *** P.01
(1)
ABBR   STATION NAME    EMAIL ADDRESS / TELEPHONE NO.
NO.                    ROUTING SUB-ADDR      ROUTING TSI           RELAY ADDR (ABBR NO.)

[001]  John Smith      ✆201 555 3456
                       4452                 +1 201 123 4567           [009]

[002]  Jane Smith      ✆201 555 1212
                       1212                 212 555 1234              [010]

[003]  Bob Jones       jonesb@abcdefg.com
                       123456               201 555 1212

[004]  Panafax1        panafax1@rdmg.mgcs.mei.co.jp
                       4827                 +81 03 5251 1234

[005]  Panafax2        panafax2@rdnn.mgcs.mei.co.jp
                       1773                 +81 0467 5251 1234

          NO. OF STATIONS = 005


                                          -PANASONIC           -

*************************************************-HEAD OFFICE - ***** - 201 555 1212- *********
```

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►Journals and Lists

Sample Directory Search List

```
************** -DIR. SEARCH LIST- ******************* DATE 12-DEC-1999 ***** TIME 11:11 *** P.01
 (8)    (2)              (1)           (3)                                    (7)
      STATION NAME   ONE-TOUCH/   EMAIL ADDRESS / TELEPHONE NO.
                     ABBR NO.     ROUTING SUB-ADDR (5)   ROUTING TSI (6)    RELAY ADDR (ABBR NO.)

  [B]  Bob Jones       [003]      jonesb@abcdefg.com
                                  123456                 201 555 1212

  [J]  John Smith      [001]     ✆201 555 3456
                                  4452                   +1 201 123 4567       [009]

       Jane Smith      [002]     ✆201 555 1212
                                  1212                   212 555 1234          [010]

  [K]  Panafax1        [004]      panafax1@rdmg.mgcs.mei.co.jp
                                  4827                   +81 03 5251 1234

  [M]  PAnafax2        [005]      panafax2@rdnn.mgcs.mei.co.jp
                                  1773                   +81 0467 5251 1234

          NO. OF STATIONS = 005 (4)


                                                    -PANASONIC              -

 **************************************************-HEAD OFFICE - ***** - 201 555 1212- *********
```

Explanation of contents

(1) One-Touch or Abbreviated number   : <nn> = One-Touch number,
                                              [nnn] = Abbreviated number

(2) Station name recorded in the machine   : Up to 15 characters

(3) Telephone number recorded in the machine : Up to 36 digits (Telephone number)
    Email address recorded in the machine   : Up to 60 characters (Email address)
    ✆number   : Telephone Number programmed into One-Touch / ABBR NO.

(4) Number of recorded One-Touch and ABBR numbers

(5) Routing Sub-address   : Up to 20 digits

(6) Routing TSI   : Up to 20 digits

(7) Relay Address   : 3-digit

(8) The first letter of station name recorded in your machine

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Program List

To print a Program List of the Dialling Patterns that you have previously entered into the Program Keys.

1 FUNCTION 6

```
PRINT OUT      (1-7)
ENTER NO. OR ∨ ∧
```

2 3
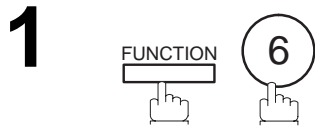
```
3:PROGRAM LIST?
PRESS SET TO PRINT
```

3 SET
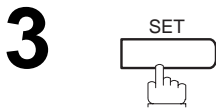
```
* PRINTING *
PROGRAM LIST
```

7

Sample Program List

```
*************** -PROGRAM  LIST- ******************** DATE 12-DEC-1998 ***** TIME 15:00 *** P.01

(1)          (2)                   (3)             (4)                        (5)
PROGRAM      PROGRAM/USER NAME     TYPE            ONE-TOUCH/ABBR NO./PASSWORD  DELETE E-MAIL

   [P1]    TEST                  ONE-TOUCH       ✎5551234
   [P2]    ACCOUNT               POP             *****                       Invalid
   [P3]    ACC                   POP                                         Invalid
   [P4]    PROG. B               ABBR/GRP        <01> <03>

                                                      -PANASONIC          -

********************************* -HEAD OFFICE   - ***** -     201 555 1212- *********
```

Explanation of contents

(1) Program key

(2) Program name   : Up to 15 characters

(3) Type of communication   : "ABBR/GRP" indicates that the Program key is programmed as a group key.
                                        "ONE-TOUCH" indicates that the Program key is programmed as a One-Touch key.
                                        "POP" indicates that the Program key is programmed as a POP access key.

(4) Numbers recorded in the program : One-Touch / ABBR numbers or password.
     key   Email address programmed into Program Key.
     ✎number   : Telephone Number programmed into Program Key.

(5) Deletion of received Email   : "Valid" means that the received email will be deleted. "Invalid" means that the received email will be retained.

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►Journals and Lists

FAX Parameter List

To print out a FAX Parameter List:

1 FUNCTION 6

```
PRINT OUT     (1-7)
ENTER NO. OR ∨ ∧
```

2 4
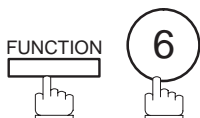
```
4:FAX PARA. LIST?
PRESS SET TO PRINT
```

3 SET
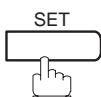
```
* PRINTING *
FAX PARAMETER LIST
```

Sample FAX Parameter List

```
*************** -FAX PARAMETER LIST- ************** DATE 12-DEC-1999 ***** TIME 15:00 ***** P.01

(1)         (2)                  (3)                              (4)        (5)
PARAMETER   DESCRIPTION          SELECTION                        CURRENT    STANDARD
 NUMBER                                                           SETTING    SETTING

  001    CONTRAST   (HOME)   (1:Normal    2:Lighter  3:Darker)     1          1
  002    RESOLUTION (HOME)   (1:Standard  2:Fine     3:400dpi)     2          1
  004    STAMP      (HOME)   (1:Off       2:On)                    1          1



  164    IFAX XMT HEADER     (1:Included  2:Not included)          1          1


                                                  -PANASONIC              -

******************************** -HEAD OFFICE    - ***** -      201 555 1212- *********
```

Explanation of contents

(1) Parameter number

(2) Description : "(HOME)" means home position setting.

(3) Selection

(4) Current setting : "----" indicates code or password is not set. When the code or password is set, it is represented by asterisk(*).

(5) Standard setting : Factory preset standard setting

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Sample Internet Parameter List

```
*************** -FAX PARAMETER LIST- ************** DATE 12-DEC-1999 ***** TIME 11:11 *** P.02


        *** INTERNET PARAMETERS ***

        TIME ZONE              :   GMT-5:00 Eastern Time (US & Canada)

        MAC ADDRESS            :   080023000FF9

        IP ADDRESS             :   140.212.123.125
        SUBNET MASK            :   255.255.255.255
        SMTP SERVER NAME       :   ifeif1.mgcs.mei.co.jp
        DEF. ROUTER IP ADDR    :   172.21.22.1
        EMAIL ADDRESS          :   fax@nwfax1
        DNS SERVER IP ADDRESS  :   133.185.247.45 (See Note 1)

        POP SERVER NAME        :   ifeif1.mgcs.mei.co.jp
        POP USER NAME          :   Panasonic
        POP PASSWORD           :   *****

        HOST NAME              :   nwfax1
        DEFAULT SUBJECT        :   xyz
        DEFAULT DOMAIN         :   ifeif1
        REMOTE PASSWORD        :   *****

        RELAY XMT PASSWORD     :   *****
        MANAGER'S EMAIL ADDR   :   iwama@nwws1
        DOMAIN NAME
                (01)           :   jp
                (02)           :   com
                (03)           :
                (04)           :
                (05)           :
                (06)           :
                (07)           :
                (08)           :
                (09)           :
                (10)           :


                                          -PANASONIC            -

*************************************************-HEAD OFFICE - ***** - 201 555 1212- *********
```

7

! **Note:**

1. By default the machine will prompt you to enter the SMTP and POP Server Names. To change the prompt to IP Address, change the Fax Parameter No. 161 (DNS SERVER) to "1:Invalid".

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This page is intentionally left blank.

If You Have Any of These Problems

Mode	Symptom	Cause / Action	page
During Installation	The display is blinking	Battery is completely discharged. This may happen at first installation. After setting the clock, the blinking will stop.	36
During Transmission	Document doesn't feed/multiple feed	1. Check that your document is free of staples and paper clips, and that it is not greasy or torn. 2. Check that your document is the right type to send through a fax machine by consulting the list on "Documents You Cannot Send". If your document has the characteristics listed, make a photocopy of your document and send the copy instead. 3. Check that the document is loaded properly. 4. Adjust the ADF Pressure.	77 78 192
	Document jam	The information code 031 will appear on the display if the document becomes jammed.	189
	Does not stamp	Check Fax parameter No. 004 and No. 028 settings.	80 72,73
	Stamp too light	Replace stamp.	193
Transmission Copy Quality	Vertical lines on the transmitted document	Check own copy quality. If copy is OK, your machine has no problem, report to the receiving party that they have a problem. If copy is NG, clean the Document Scanning Area.	190
	Transmitted document is blank	1. Make sure the document is set face down. 2. Check own copy quality. If copy is OK, your machine has no problem, report to the receiving party that they have a problem. If copy is NG, clean the Document Scanning Area.	190
During Reception	No recording paper	The information code 010 will appear on the display if the paper runs out.	30
	Recording paper jam	The information code 001, 002, 003, 007 or 008 will appear on the display if the paper gets jammed.	188
	Recording paper doesn't advance into machine	Make sure that there is paper in the Paper Cassette. Follow the instructions for loading paper.	30
	Recording paper doesn't eject after printing	Check to see if the recording paper is jammed inside of the machine.	188
	Recording papers are not stacked in sequence. Machine does not print from the last page received.	1. Check if Fax Parameter No. 065 is set to valid. 2. If memory becomes full during reception, the machine will start to print from the 1st page received. We recommend that optional flash memory card is installed if this symptom occurs frequently.	74 201
	Document auto reduction doesn't work	Check Print Reduction settings.	114
	Out of toner	The information code 041 will appear on the display if the Toner Cartridge runs out of toner.	28

Continued on the next page...

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►Troubleshooting

Mode	Symptom	Cause / Action	page
Print Copy Quality	Vertical lines printing on the received document	Print out a Journal report (e.g. FUNCTION, 6, 1,SET and 1) and check quality to make sure whether your machine has trouble. If Journal report quality is OK, your machine has no problem, report to the sending party that they have a problem. If copy is NG, replace the Toner Cartridge.	169 28
	Fuzzy print	1. Make sure you are using the correct paper for the best possible print quality. 2. Try reversing the recording paper to the other side.	200
	Missing dots or lines/ inconsistent darkness within print	1. Make sure you are using the correct paper for the best possible print quality. 2. Replace the Toner Cartridge.	200 28
	Fading print	Your Toner Cartridge may be running out of toner. Replace the Toner Cartridge.	28
	Faint print	You may need to choose a different paper for the best possible print quality.	200
Communication	No dial tone	1. Check the connection of the telephone line. 2. Check the telephone line.	195
	No auto answer	1. Check the connection of the telephone line. 2. Check the Reception mode setting. 3. If the Fax Parameter No. 013 (AUTO JOURNAL PRINT) is set to "Valid" (default setting) and the machine is printing the received document from memory, which also happens to be the 100th transaction, the machine will not auto answer until the Transaction Journal completes printing.	195 113 72
	Cannot transmit or receive	An information code will be shown on the display. Refer to the information code table to find out the trouble.	183
No Unit Operation	No unit operation	To reset the machine, turn-off the Power Switch for a few seconds then turn it on again.	33

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Information Codes

When something unusual occurs, the display may show one of the Information Codes listed below. These will help you to identify and correct the problem.

Info. Code	Meaning	Action	Page
001	Recording paper jammed when feeding from the 1st cassette.	Remove the jammed paper.	188
002	Recording paper jammed when feeding from the 2nd cassette.	Remove the jammed paper.	188
003	Recording paper jammed when feeding from the 3rd cassette.	Remove the jammed paper.	188
007	Recording paper did not completely exit out of machine.	Remove the Toner Cartridge and remove the jammed paper.	188
008	Paper cassette is opened while paper is feeding.	Remove the jammed paper and close the cassette.	188
010	No recording paper.	Load the recording paper.	30
011	Recording Paper Cassette is not installed properly.	Install the Recording Paper Cassette.	--
026	The backup battery is getting weak.	Replace the battery, otherwise, the clock contents may be lost.	194
030	Document is misfeeding.	1. Reload the document properly. 2. Remove the document jam. 3. Adjust ADF.	78 189 192
031	Document paper is too long or jammed. Document length exceeds 78.8 inches (2 meters).	1. Reload the document properly. 2. Remove document jam.	78 189
041	Out of toner.	Replace the Toner Cartridge.	28
043	Toner is getting low.		
045	Toner Cartridge is not installed.	Install the Toner Cartridge.	28
060	Printer Cover is open.	Close the Printer Cover.	--
061	ADF Door (Document Return Guide) is open.	Close the ADF Door.	--
063	Jam Access Cover (Optional 2nd Feeder Unit) is open.	Close the Jam Access Cover.	--
064	Jam Access Cover (Optional 3rd Feeder Unit) is open.	Close the Jam Access Cover.	--
400	During initial handshake, receiving station did not respond or communication error occurred.	1. Check with the other party. 2. Reload the document and send again.	--
401	Remote station required a Receiving Password to receive the document. Remote station does not have Confidential Mailbox.	Check the remote station.	--

Continued on the next page...

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Info. Code	Meaning	Action	Page
402	During initial handshake, communication error occurred.	Reload the document and send again.	--
403	No polling capability at the remote side.	Ask remote side to set "POLLED=ON".	--
404/405	During initial handshake, communication error occurred.	Reload the document and send again.	--
406	Transmission Password does not match. Receiving Password does not match. Received from an unauthorized station in Selective Reception mode.	Check the password or the telephone number in One-Touch or Abbreviated station.	--
407	No confirmation from the receiving station for the previous page sent.	Wait a few minutes and send again.	--
408/409	Remote side confirmation of previous page is illegible.	Wait a few minutes and send again.	--
410	Communication aborted by the transmitting side.	Check with the other party.	--
411	Polling password does not match.	Check the polling password.	151
412	No data from the transmitting side.	Check with the other party.	--
414	Polling password does not match.	Check the polling password.	151
415	Polling transmission error.	Check the polling password.	151
416/417 418/419	Received data has too many errors.	Check with the other party.	--
420/421	Machine goes to receiving mode, but receives no command from the transmitting side.	1. Remote side misdial. 2. Check with the other party.	--
422/427	Interface is incompatible.	Check with the other party.	--
430/434	Communication error occurred while receiving.	Check with the other party.	--
436/490	Received data has too many errors.	Check with the other party.	--
492/493 494	Communication error occurred while receiving.	Check with the other party.	--
495	Telephone line disconnected.	Check with the other party.	--
501/502	Communication error occurred using the internal V.34 Modem.	Check with the other party.	--

Info. Code	Meaning	Action	Page
540/541 542 543/544	Communication error occurred while transmitting.	1. Reload the document and send again. 2. Check with the other party.	--
550	Telephone line disconnected.	Check with the other party.	--
552/553 554/555	Communication error occurred while receiving.	Check with the other party.	--
580	Sub-address transmission to a unit that has no Sub-address function.	Check the remote station.	135
581	Sub-address Password transmission to a unit that has no Password Sub-address function.	Check the remote station.	135
601	ADF Door was opened during ADF transmission.	Close the ADF Door and send again.	189
623	No document loaded on the ADF.	Reload the document and send again.	--
630	Redial was not successful due to a busy line.	Reload the document and send again.	--
631	During dialling, **STOP** was pressed.	Reload the document and send again.	--
634	Redial was not successful due to no response from the called station or wrong number dialed. **Note:** If busy tone was not detected, the machine will only redial once.	Check the telephone number and send again.	--
638	Power failure occurred during the communication.	Check the power cord and plug.	32
712	Incorrect email address.	Check the registered email address. Check the IP Address of the SMTP Server with the Network Administrator.	--
713	Memory overflow in the LAN Interface.	The document data exceeded 1.6 MB/page and cannot be sent.	--
714	Cannot logon to the LAN.	Check the 10Base-T cable connection. An unexpected LAN problem occurred. Contact the Network Administrator.	--
715	TCP/IP connection timed out.	Check the Internet Fax parameter settings. Verify the IP Address, Default Router IP Address, SMTP Server IP Address.	--
716	Cannot logon to the designated SMTP Server.	Check the SMTP Server IP Address setting. Contact the Network Administrator.	--
717	Incomplete SMTP Protocol transmission. SMTP Server's hard disk may be full.	SMTP Server is defective. Contact the Network Administrator.	--

Continued on the next page...

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▶Troubleshooting

Info. Code	Meaning	Action	Page
718	Page Memory Overflow occurred while receiving printing data. The paper size selected within your application to print is larger than the paper size loaded in the cassette(s).	Check the document size and resolution. Ask originator to re-send in a supported size and resolution.	--
719	Received data via LAN is in a format that is not supported.	Ask the originator to re-send with a supported file attachment format: * In a TIFF-F format. * Image data conforming to A4/Letter size.	--
720	Cannot connect to the POP Server. (Incorrect POP Server IP Address) POP Server is down.	Check the POP Server IP Address. Contact the Network Administrator.	--
721	Cannot connect to the POP Server. (User Name or Password error)	Check the POP User Name and Password. Contact the Network Administrator.	--
725	DNS Server connection timed out. DNS Server is down.	Check the DNS Server IP Address. Contact the Network Administrator.	--
726	Received an error response from the DNS Server.	Check the POP Server Name. Check the SMTP Server Name.	--
730	Cannot retrieve the Journal nor program the Internet Parameters and the Auto Dialler remotely via email from a PC.	Check that the Fax Parameter No. 158 (PC REMOTE UPDATE) is set to "2:Valid".	76
731	The dialler buffer for manual dialling was full (70 stations) when the Relay Transmission Request was received.	Request the originator to re-send the Relay Transmission Request after the reserved communication is finished.	--
800 - 816 825	Parameter setting for Confidential Network or Relay communication is not properly set.	Verify your Confidential Network and Relay communication parameter settings.	155
870	Memory overflow occurred while storing documents into memory for transmission or during reception.	1. Transmit documents without storing into memory. 2. Install Optional Memory Card. 3. Check the recording paper and toner cartridge.	98 201 28 30

⚠ **Note:**

1. After identifying the problem and verifying the recommended action, if the Information Codes keep re-occuring or for help on Information Codes that appear on your machine but are not listed above, please contact your local Panasonic Authorized Dealer.

Email ABBR Programming Errors

Error Message Sent to the Sender

Error messages that are emailed from the DX-2000 to the original sender during remote programming of the One-Touch / ABBR No. via email.

	Error message	Possible cause
1	554 Data transfer error (broken header)	The header or sub header decoding is being processed while the message finished, try again.
2	554 Data transfer error (broken data)	Multiple contents are present and being processed while the message finished, try again.
3	554 Data transfer error (FAX module)	Data transfer error occurred in the FAX module while communicating with the LAN module, try again.
4	554 MIME attachment not supported (message/file)	MIME attachment is not supported during this operation, re-send using plain text in the message body only.
5	554 MIME format not supported	MIME file type is not supported, re-send using plain text in the message body only.
6	554 G3 relay permission denied	The requested domain for Relayed XMT is not registered.
7	554 Relay address unknown	The telephone number of end receiving station for the Relayed XMT is unknown.
8	554 Memory full (FAX module)	FAX Memory is full, try again later.
9	554 Data transfer error	Other errors not listed above, try again later.

Internet FAX Return Receipt Errors Messages

Error messages that are printed on the Internet Fax Return Receipt when remote programming of the One-Touch / ABBR No. via email fails.

	Error message	Possible cause
1	Format Error : <@list block, the "@end" command is missing.>	The block termination command "@end" is missing in the "@list" block, add the "@end" command and try again.
2	Format Error : <@command block, the "@end" command is missing.>	The block termination command "@end" is missing in the "@command" block, add the "@end" command and try again.
3	Format Error : <@begin block, the "@begin" command is missing.>	The block start command "@begin" is missing in the "@begin" block, add the "@begin" command and try again.
4	Format Error : <@begin block, the "@end" command is missing.>	The block termination command "@end" is missing in the "@begin" block, add the "@end" command and try again.
5	Format Error : <@system block, the "@end" command is missing.>	The block termination command "@end" is missing in the "@system" block, add the "@end" command and try again.
6	Format Error : <@sender block, the "@end" command is missing.>	The block termination command "@end" is missing in the "@sender" block, add the "@end" command and try again.
7	Format Error:<@domain block, the "@end" command is missing.>	The block termination command "@end" is missing in the "@domain" block, add the "@end" command and try again.
8	Format Error : <@program block, the "@end" command is missing.>	The block termination command "@end" is missing in the "@program" block, add the "@end" command and try again.
9	Format Error:<@system block, the "@system" command is missing.>	The system block start command "@system" is missing in the "@system" block, add the "@system" command and try again.
10	Permission denied : <Fax Forward parameter is set to "Valid".>	Change the Fax Forward parameter to "Invalid" and try again.
11	Permission denied : <Fax machine is busy performing a task.>	Try again later when the machine is not busy.
12	Error : <Programmed ABBR overwrite prohibited. Use open ABBR only.>	Can not overwrite existing programmed data, use the "Delete" command to erase the existing data first.
13	Permission denied : <Password is incorrect.>	Correct the password and try again.
14	Permission denied : <Remote Dialler Update parameter is set to "Invalid".>	Set the Remote Dialler Update parameter to "Valid".
15	Format Error : <error line>	The format of the Entry is incorrect / incomplete or the data string for each station is not defined within a single line.
16	Warning : <error line>	The format of the Entry is incorrect or the number of characters entered, exceed the maximum allowed in the field. Correct it and try again.
17	Warning : Field limit exceeded<error line>	The maximum number of the station name is exceeded.

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▶Troubleshooting

Clearing a Recording Paper Jam

If the recording paper becomes jammed in the machine, the display will show an Information Code 001, 002, 003, 007 or 008.

To clear the jam, Info. Code 001, 002, 003, 008
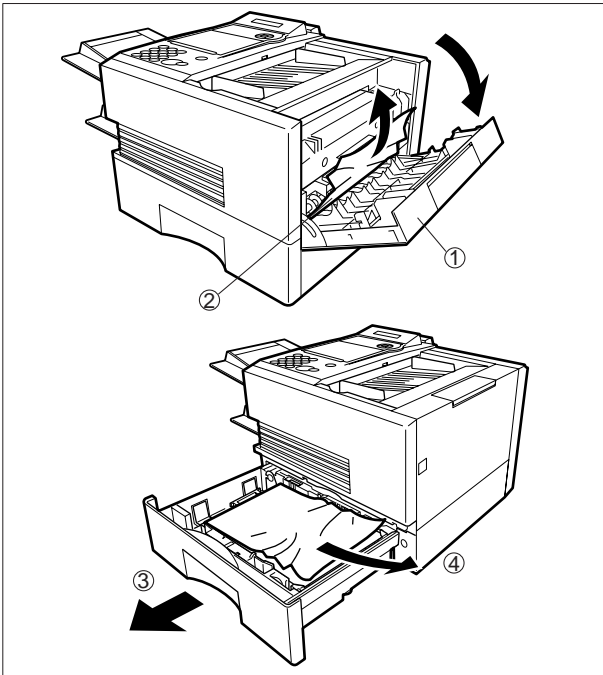
(1) Open the Printer Cover.

(2) Remove the jammed paper.

(3) Slide out the Paper Cassette.

(4) Remove the jammed or wrinkled paper and reload the recording paper into the paper cassette.

Caution: Make sure that the paper is set under the clips of the Paper Cassette. You can load about 500 sheets with standard weight paper (20 lb. or 75 g/m^2). For paper specification see page 200.

To clear the jam, Info. Code 007
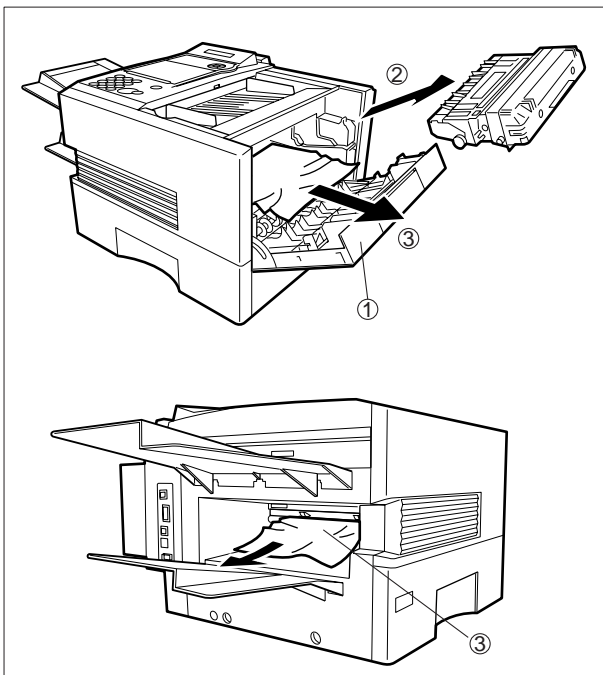
(1) Open the Printer Cover.

(2) Remove the Toner Cartridge.

(3) Remove the jammed paper.

Note: If at all possible, try removing the jammed paper from inside of the unit first (as shown in the upper figure) to prevent toner that has not been fused on the paper from rubbing off and dirtying the Fuser Roller.
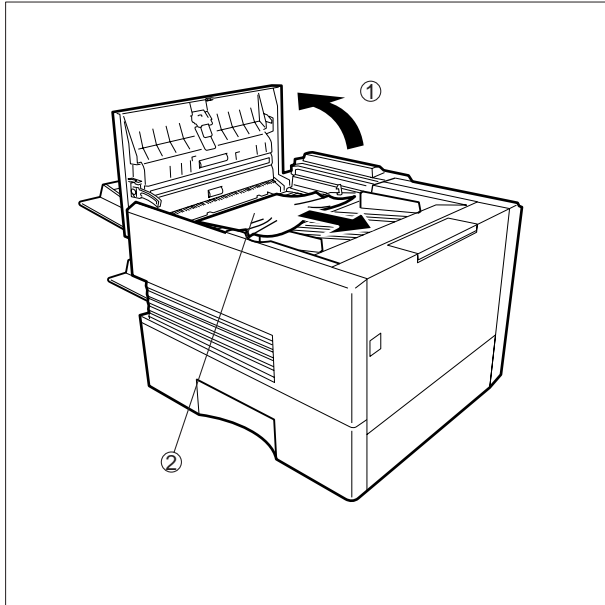

! *Note:*
    1. The Recording Paper Jam message display is reset only by opening and closing of the Printer Cover.

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Clearing a Document Jam

If a document becomes jammed in the machine, the display will show the Information Code 030 or 031.

To clear the jam:

1

(1) Open the ADF Door.

(2) Remove the jammed document.

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►Troubleshooting

Cleaning the Document Scanning Area

If the receiving party reports that the received documents were black, or contained black lines, try making a copy on your unit to verify. If the copy is black or has black lines, the document Scanning Area is probably dirty and must be cleaned.

To clean the Scanning Area:

1

ADF Door

Open the ADF Door.

2
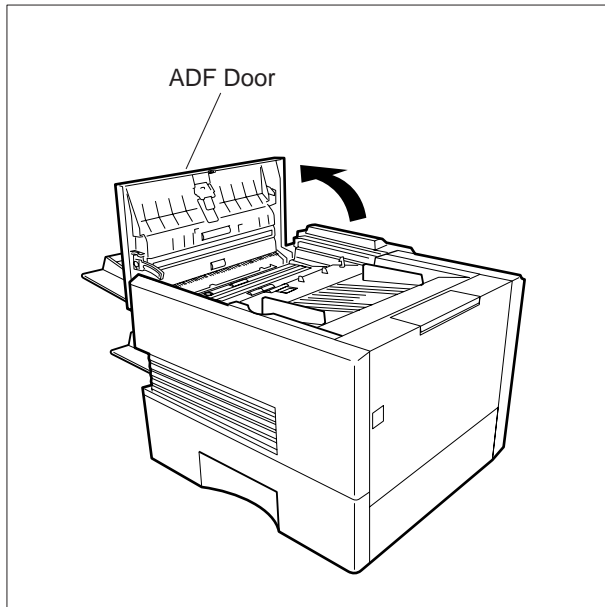
Scanning Area

Wipe the Scanning Area gently with a soft gauze cloth wet with ethyl alcohol. Be sure to use a clean cloth, the scanning area can be easily scratched.

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Cleaning the Printer Roller

If you find toner on the back of the recording paper, the printer roller in the fuser unit is probably dirty.

To clean the printer roller:

1 FUNCTION (7) (6) SET

```
CLEANING CHARTS
1:PRINT 2:CLEAN
```

2 (1)
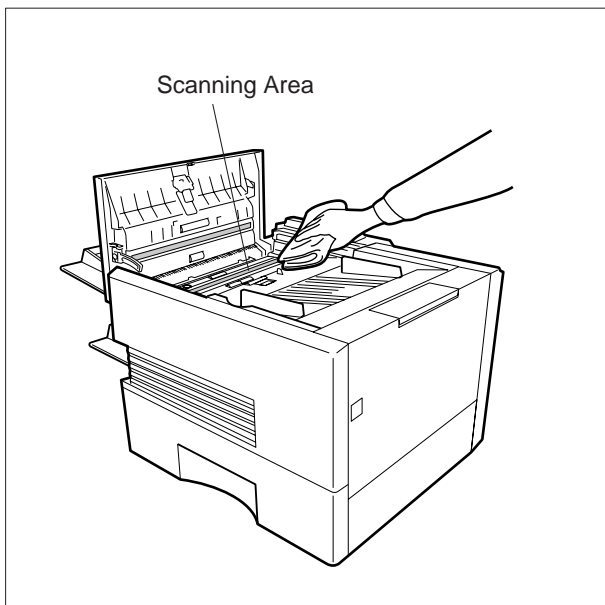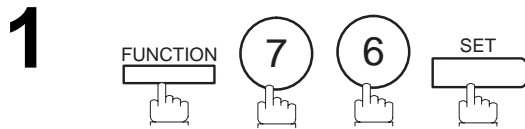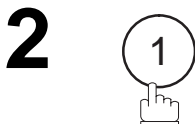
```
* PRINTING *
CLEANING CHARTS
```

The machine will print 3 Cleaning Charts.
Then, return to standby.

8

```
                    <PRINTER ROLLER CLEANING CHART>

        HOW TO LOAD THE CLEANING CHARTS
        1.OPEN THE PAPER CASSETTE
          (If multiple cassette configuration, OPEN THE UPPER PAPER CASSETTE)
        2.SET THESE 3 CLEANING CHARTS IN THE CASSETTE FACE UP
        3.CLOSE THE PAPER CASSETTE
        4.PRESS [FUNCTION][7][6][SET][2] TO START CLEANING
        5.DISPOSE OF THE CLEANING CHARTS




                *** SET THIS END TOWARDS THE RIGHT, FACE UP ***
```
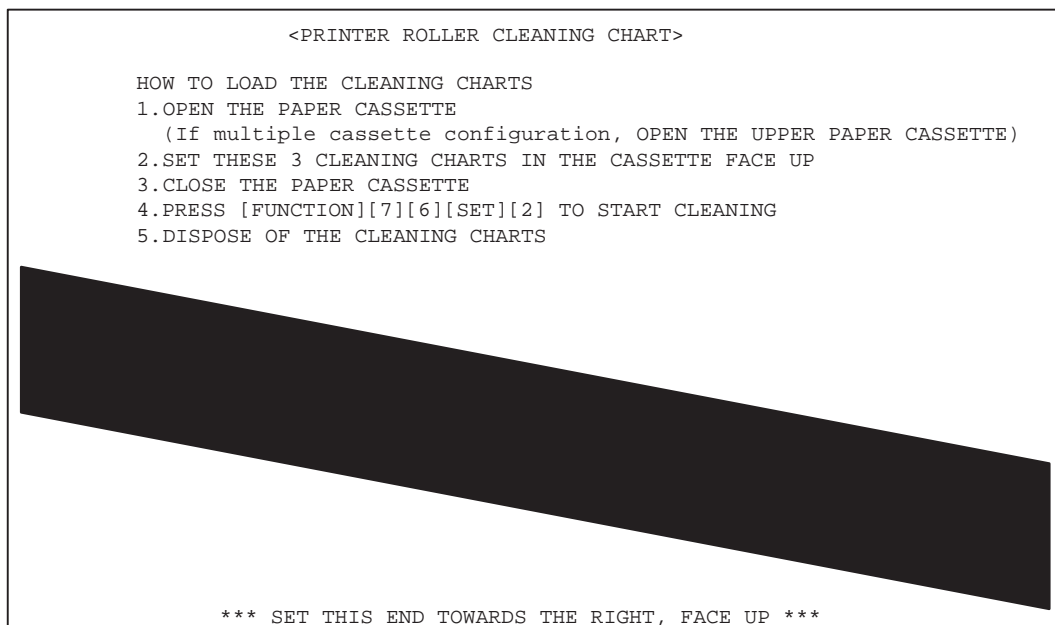
3 Load the Cleaning Charts into the cassette face up.
(See Note 1)

4 FUNCTION (7) (6) SET

```
CLEANING CHARTS
1:PRINT 2:CLEAN
```

5 (2)
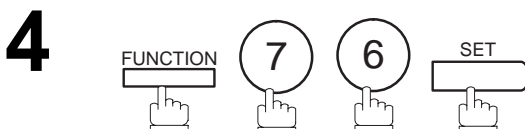
```
* CLEANING *
PRINTER ROLLER
```

The Machine will feed out the charts and clean the printer
roller.

! Note:
 1. If you have installed optional cassette(s), load the Cleaning Charts into the upper cassette.

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▶Troubleshooting

Adjusting the Automatic Document Feeder (ADF)

If document misfeeding occurs frequently, we suggest you adjust the ADF.

To adjust the ADF:
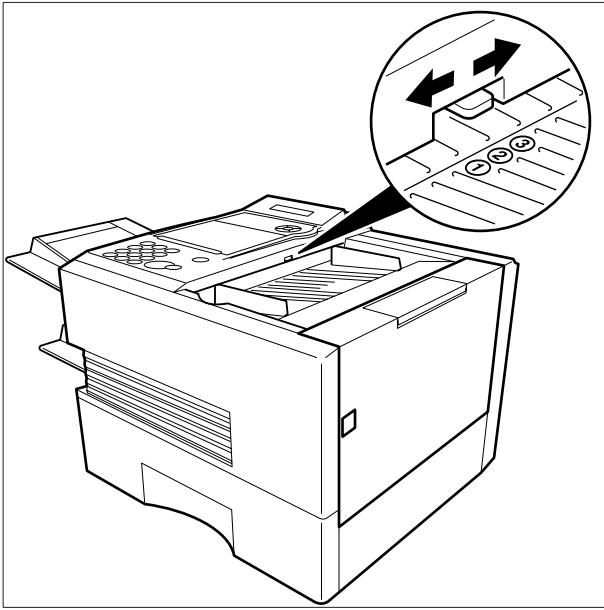
Pull the blue Pressure Adjusting Lever upward and slide it to the desired position depending on the condition.

Position	Condition
1	To prevent no feed trouble
2	Standard position
3	To prevent multiple feed trouble

Verification Stamp

The Verification Stamp contains ink. When the stamp mark appears faded or hard to see, the stamp should be replaced.

To remove the stamp:

1

Open the ADF Door.

ADF Door

8
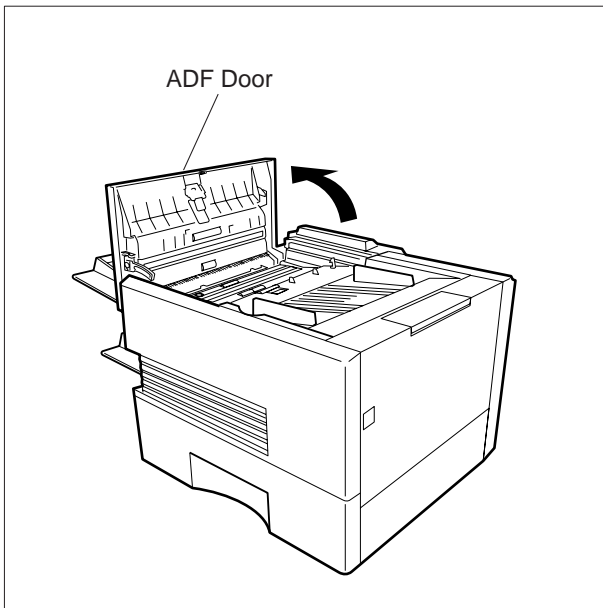
2

(1) Remove by pulling the Stamp Assembly upward.

(2) Remove the Stamp. Replace the stamp with a new one.

⚠ Note:
1. Please contact your local Panasonic dealer to purchase a new stamp. See page 202 for order number.

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▶Troubleshooting

Replacing the Lithium Battery

During the initial self test, when the power is turned "On", the machine will evaluate the condition of the clock back up battery. If the battery is weak or fully discharged, the following message will be shown on the display.

```
REPLACE BATTERY
 INFO. CODE=026
```

To replace the battery, follow the procedure below:

1

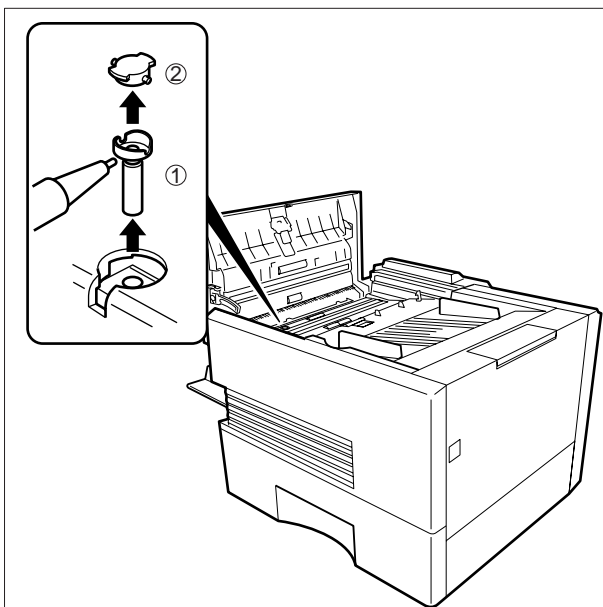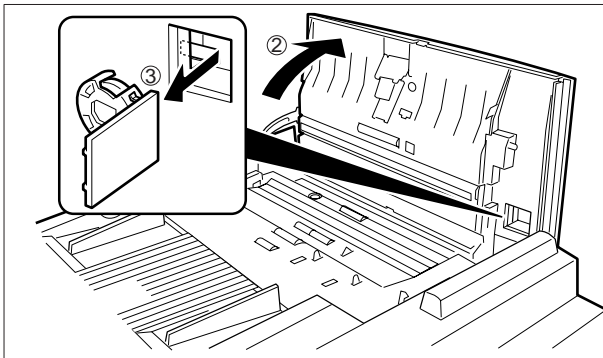(1) Turn the Power Switch to the "O" (OFF) position.

(2) Open the ADF Door.

(3) Remove the Battery together with the Battery Holder.

⚠ **CAUTION**

Dispose of the Lithium battery properly and keep it away from small children.

2

Replace the Lithium Battery.
(Order No.: CR2032)
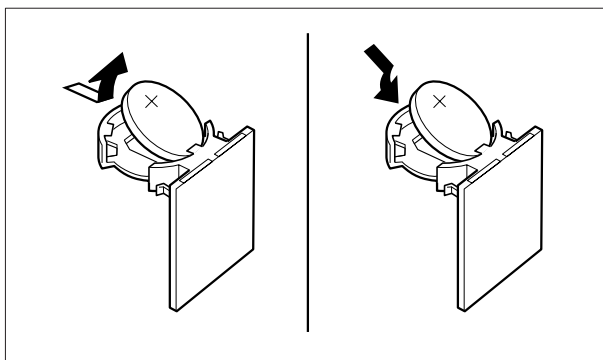
⚠ **CAUTION**

When replacing the battery make sure to observe the polarity to avoid damage to the machine.
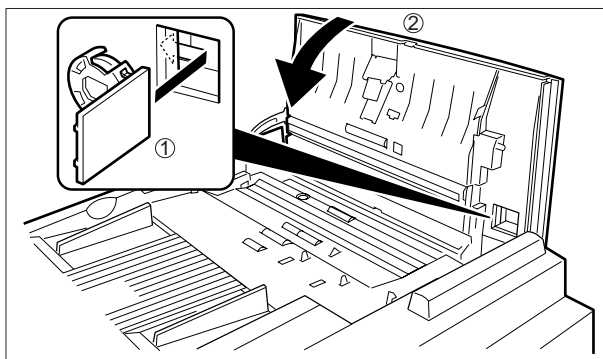
(1) Install the Battery Holder into the machine.

(2) Close the ADF Door.

(3) Turn the Power Switch to the "I" (ON) position.

3

4 If the clock is flashing on the LCD Display, follow the procedure on page 36 to reset the clock.

⚠ **Note:**
   1. The service life of the battery is approximately 1 year when the power to the machine is turned "Off".

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Checking the Telephone Line

When you do not hear a dial tone through the telephone connected to the machine or when the telephone does not ring (No automatic receive).

1
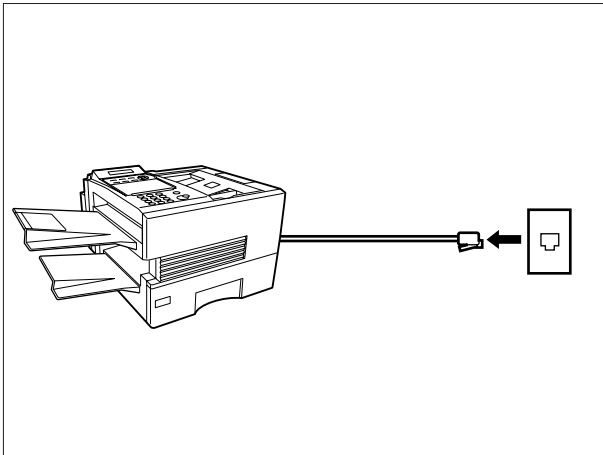
Unplug the Telephone Line Cable from the telephone jack that was supplied by the telephone company.

2
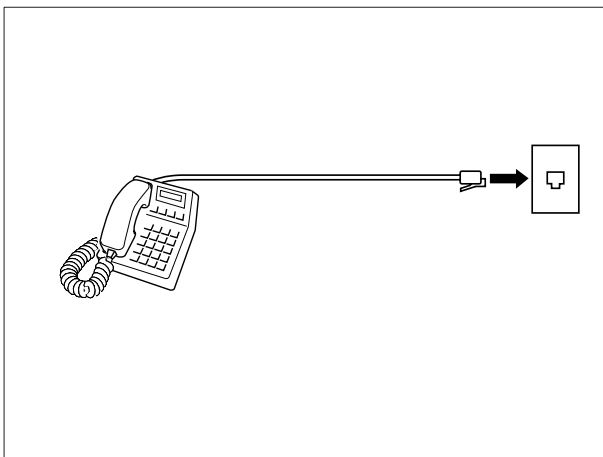
Plug a different regular telephone into the same telephone jack.

3
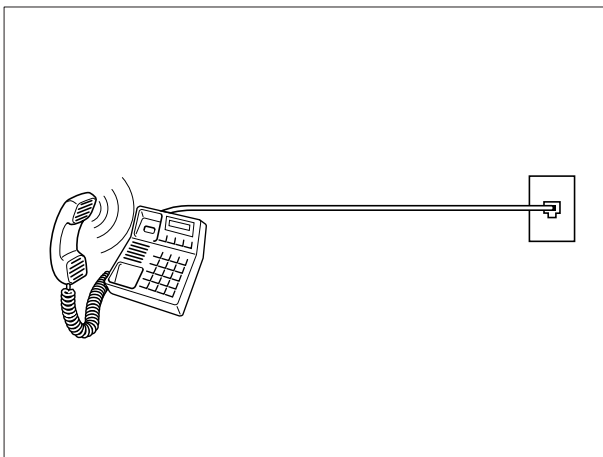
Check for dial tone through the handset. If there is still no dial tone, report it to your local telephone company.

or

Call from another telephone to this number. If the telephone does not ring, report it to your local telephone company.

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Compatibility	ITU-T Group 3
Coding Scheme	JBIG, MH, MR, MMR (Conforms to ITU-T Recommendations)
Modem Type	ITU-T V.34, V.17, V.33, V.29, V.27 ter and V.21
Modem Speed	33600 - 2400 bps
Document Size	Max. : 280 x 2000 mm (with operator's assistance) Min. : 148 x 128 mm
Document Thickness	Single page : 0.06 mm (45 g/m^2) to 0.15 mm (112 g/m^2) Multiple pages : 0.06 mm (45 g/m^2) to 0.12 mm (75 g/m^2)
ADF Capacity (Automatic Document Feeder)	Built-in, up to 50 pages
Scanning Method	Sheet Feeding with CCD type image sensor
Effective Scanning Width	252 mm
Scanner Resolution	Horizontal : 8 pels/mm : Standard and Fine Resolution 16 pels/mm : 400 dpi Resolution (Interpolated) Vertical : 3.85 lines/mm : Standard Resolution 7.7 lines/mm : Fine Resolution 15.4 lines/mm : 400 dpi Resolution
Recording Method	Laser printer
Recording Paper	Plain Paper
Recording Paper Size	Letter, A4 or Legal
Printer Resolution (Fax/Copy) (Printer)	406 × 391 dpi 300 × 300 dpi 600 x 600 dpi (Capable if an additional D-RAM Card is installed. The optimum size of the D-RAM Card depends on how you use the machine. Please ask your local Panasonic dealer for the details.)

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►Specifications

Effective Recording Size Letter : 208 x 271 mm
                              A4   : 202 x 289 mm
                              Legal   : 208 x 348 mm

Print Margin
(See Note 1)
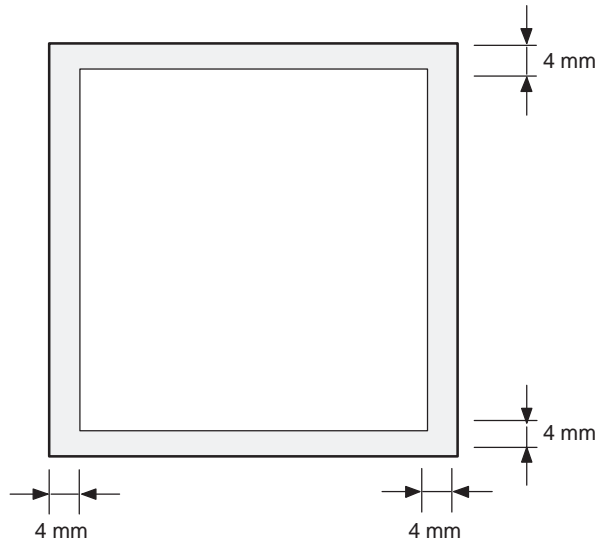
Recording Paper Capacity Approx. 500 sheets (using 75 g/m² paper)

One-Touch/Abbreviated   200 stations
Dialling Memory Capacity (includes 32 One-Touch, 8 Program Keys and 160 ABBR Dialling
                              Numbers)
                              Each station can register up to 36 digits for each telephone number and up
                              to 60 characters for each email address (including pauses and spaces)
                              and up to 15 characters for each station name

Image Memory Capacity

Base Memory	120 pages
with 1 MB Flash Memory Card	200 pages
with 2 MB Flash Memory Card	280 pages
with 4 MB Flash Memory Card	440 pages
with 8 MB Flash Memory Card	760 pages

(Based on ITU-T Image No.1 using Standard Resolution)

> ! **Note:**
> 1. *The left and right print margin is 5.5mm when printing a Letter or Legal size document with 600 dpi from a PC using the Network Printing Feature.*

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| **Power Supply** | 99-138 VAC, 47-63 Hz, Single Phase: 100 V version |
| | 180-264 VAC, 47-63 Hz, Single Phase: 200 V version |

Power Consumption
Standby (Energy-Saver:On)   : Approx. 14 Wh (100 V version)
                                         : Approx. 13 Wh (200 V version)
Standby (Energy-Saver:Off)   : Approx. 82 Wh (100 V version)
                                         : Approx. 80 Wh (200 V version)
                                           [Room temperature : 25°C]
Transmission   : Approx. 23 W
Reception   : Approx. 460 W
Copy   : Approx. 470 W
Max   : Approx. 470 W

Network Connection
Local Area Network (LAN) Ethernet/IEEE 802.3 Physical Interface; RJ-45 (IS8877, i.e. 10Base-T)

Communication Protocol
TCP/IP, SMTP and POP3

Communication Speed
Ethernet 10Base-T

File Format
MIME and TIFF-FX Profile S (RFC2301)

Email Receiving Width
A4 size only

Dimensions
436 mm (W) x 492 mm (D) x 308 mm (H)
(excluding Projections and optional Paper Cassette)

Weight
Approx. 17 kg
(excluding consumable supplies and options)

Operating Environment
Temperature   : 10 to 35°C
Relative Humidity : 15 to 70%

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▶Recording Paper Specifications

In general, most photocopy papers will also work very well. There are many "name" and "generic" brands of paper available. We recommend that you test various papers until you obtain the results you are looking for.

The following table summarizes the major specifications to consider when selecting white or colored paper.

Basic Weight	60 to 90 g/m^2
Cut Edge Conditions	Cut with sharp blades, no visible frayed edges
Grain	Long grain
Moisture Content	3.7% to 5.3% by weight
Opacity	88% minimum
Packing	Polylaminated moisture-proof ream wrap
Sizes	A4 : 210 mm x 297 mm Letter : 216 mm x 279 mm Legal : 216 mm x 356 mm
Type	Cut sheet
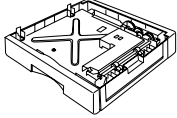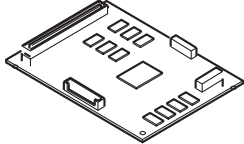
! *Note:*
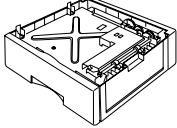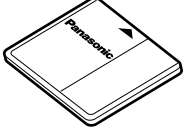　　1. *It is possible that the paper could meet all of the specifications listed above and still not print well because of the variations in paper manufacturing. Therefore, we recommend that you test the paper thoroughly before purchasing large(r) quantities.*

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Please contact your local Panasonic dealer for availability.

A. Options:

Order No.	Picture	Description
UE-403160		Handset Kit
UE-409057		250 sheets Letter / Legal / A4 Size Paper Cassette with the Feeder Unit
UE-409056		500 sheets Letter / Legal / A4 Size Paper Cassette with the Feeder Unit
UE-410045		Expansion Flash Memory Card, 1 MB
UE-410046		Expansion Flash Memory Card, 2 MB
UE-410047		Expansion Flash Memory Card, 4 MB
UE-410048		Expansion Flash Memory Card, 8 MB
UE-410033		Expansion D-RAM Card, 2MB
UE-410034		Expansion D-RAM Card, 4MB
UE-410057		Expansion D-RAM Card, 8MB
UE-403169		Page Description Language Printer Emulation Kit (Available in the beginning of Year 2000)

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! Note:
1. *Flash Memory Card is used for document storage.*
2. *D-RAM Memory Card is used to enhance the machine's overall performance and printing resolution.*

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▶Options and Supplies

B. Supplies:

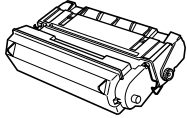| Order No.	Picture	Description
DZHT000004		Verification Stamp
UG-3313		Toner Cartridge

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Installing the Memory Card (Flash Memory Card and / or DRAM Card)

Before installing, make sure that there is no document file(s) stored in the memory. You may confirm by printing out a File List (see page 139). When the memory card is installed, the machine will initialize the document memory, all contents stored in the document memory at that time will be lost.

1
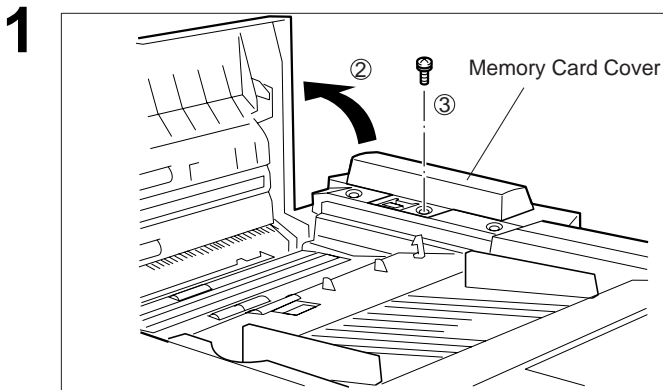
Memory Card Cover

(1) Turn the Power Switch to the "O" (OFF) position located in the rear of the machine.

(2) Open the ADF Door.

(3) Remove a Screw.

(4) Remove the Memory Card Cover.

2

FLASH
D-RAM
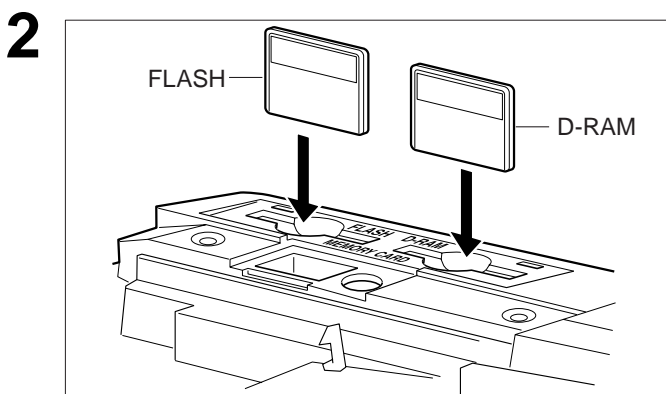
Insert the Memory Card(s) gently into the card slot with the Panasonic logo facing to the rear.

Caution: Installing the Memory Card(s) in the wrong direction may damage the connecting pins inside the machine.

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3
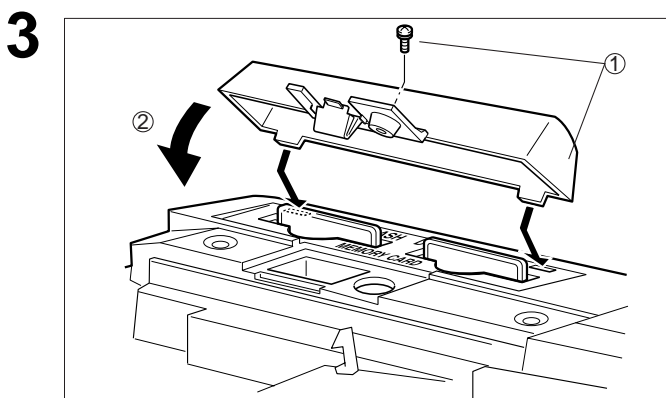
(1) Re-install the Memory Card Cover and the Screw to secure the Cover.

(2) Close the ADF Door.

4 Turn the Power Switch to the "I" (ON) position. Print out the Fax Parameter List (see page 178) and confirm that the memory size on Fax Parameter No. 099. (See page 74 and the Note 2 below.)

! *Note:*
1. The document(s) stored in memory will be lost if the memory card is removed.
2. The memory size on Fax Parameter No. 099 is only shown for the Flash Memory Card.

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►Glossary

10Base-T	An Ethernet standard for cable. The 10 refers to its 10 Mbps bandwidth, the base to single channel baseband, and the T to the Twisted pair. The cable uses two pairs of unshielded twisted wires.
Access code	A 4-digit programmable code that prevents unauthorized operation of your Fax.
ABBR No. **(Abbreviated Number)**	The ability to store full phone numbers or email addresses into the dialler and then utilizing a short series of keystrokes to speed dial that number in the future.
ADF **(Automatic Document Feeder)**	The mechanism that delivers a stack of document pages to the scanner one page at a time.
Automatic reception	The mode that allows you to receive fax documents without user intervention.
Auto print reduction	The method of automatically reducing a received document so that it can be printed onto a standard size piece of plain paper. For example, your machine will reduce an incoming legal size page to 75% of its original size so it could fit on a letter size page.
BPS **(Bits Per Second)**	The amount of data that is transmitted over the phone line. Your machine can start at each Max. Modem speed and automatically steps down to suitable speed depending on the phone line condition and the receiving machines capabilities. (Max. Modem Speed 33600 BPS)
C.C.I.T.T.	Consultative Committee on International Telegraph and Telephone. This organization has presently developed four groups of industry standards that insure facsimile compatibility.
Character ID	A programmed proprietary code name that allows up to 16 alphanumeric characters identifying your facsimile machine.
Character keys	The keys that are used to enter letters and symbols for various programming functions.
Client	Clients are computers that run software programs used to contact and obtain data from Server software program on another computer, often across a great distance.
Coding scheme	The data compression method used by facsimile machines. Your machine utilizes Modified Huffman (MH), Modified Read (MR), Modified Modified Read (MMR) and Joint Bi-level Experts Group (JBIG) coding schemes.
COMM. JOURNAL	Refers to either the Communication Journal, Relay Transmission Report.
CONTRAST	Signifies the scanning sensitivity in terms of lightness and darkness of your original transmitting pages.
DDD **(Direct Distance Dialling)**	A telephone service that allows unassisted dialling, no operator assistance is required.
Default Router IP Address	This is your Router's Address, it is used by other Networks to determine which route to take when communicating with your Internet Fax.
Direct Dialling	The method of dialling where you enter the entire telephone number or email address through the keypad.
Directory Search Dialling	Allows you to dial a full telephone number or email address by searching the station's name or email address entered in the One-Touch keys or Abbreviated dialling numbers.

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Directory Sheet	The list that contains the station names that are programmed into your unit.
DNS (Domain Name Server)	The purpose of the DNS is to store records containing domain information, such as Fully Qualified Domain Names (FQDN) and translate them to TCP/IP addresses.
Domain Name	A unique name that identifies an Internet site. Domain Names always have 2 or more parts, separated by dots. The part on the left is the most specific, and the part on the right is the most general.
DTMF (Dual Tone Multi-Frequency)	Dialling method that sends a different set of frequencies for each digit of the telephone keypad. Commonly refers to touch tone dialling.
ECM (Error Correction Mode)	The ability to correct transmission errors as detected during the transmitting phone call.
Email Address	The address for sending and receiving data by email. It consists of User name, Sub-domain name and Domain name.
End receiving station	In a relay network, the final station designated to receive the document.
Energy-Saver Mode	Saves energy by consuming less power than when in standby mode by turning off the fuser unit after the specified time.
Ethernet	A very common method of networking computers and equipment in a LAN. Ethernet can handle up to 100 Mbps and can be used with almost any kind of computer.
FAX Forward	The ability to forward all incoming faxes to the registered One-Touch or ABBR No. station.
FAX Parameter List	The list that contains the home FAX parameters settings that you have programmed into your machine.
F.C.C.	Federal Communications Commission. The U.S. Government organization that regulates communications originating or terminating in the United States.
File	A task that has been stored into the memory of your unit. Examples are deferred transactions.
Fixed print reduction	The method that allows you to determine one reduction rate, such as 75%, for all incoming documents.
FUNCTION	The control panel key that will be utilized to begin an operation or configuration of a feature.
G3 mode (Group 3)	Refers to the standards and transmission capabilities of the current generation of facsimile machines.
Group dialling	The ability to program many telephone numbers and/or email addresses into a single station so that many locations can be dialed in sequence utilizing a single keystroke.
HALFTONE	A scanning technique to distinguish levels of gray from black and white. Your machine can detect up to 64 levels of gray in halftone mode.
Handshaking	The exchange of a group of control signals that communicate between the transmitter and receiver. These signals determine the condition at which communication can occur.

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►Glossary

Header	A row of information that is transmitted by the sending machine and printed on the top of each page by the receiving unit. This identifies the transmitting unit and information about the transmission, such as time and date.
Home Page	The page that your Browser displays when it starts up or the main web page for a business, organization, etc.
Host	Any computer on a network that is a repository for services available to other computers on the network. A Host must have a unique Host name within a domain. The host is the first (left most) section of the Fully Qualified Domain Name (FQDN). The remainder of the FQDN is the domain and often tells you something about where the DX-2000 is located (i.e., at Panasonic). **Example:** Your DX-2000's email address is: Fax@fax01.panasonic.com In the example above "fax01" is the host and "panasonic.com" is the domain.
ID	A programmable address of up to 20 digits identifying your machine.
ITU-T	International Telecommunication Union - Telecommunication, formerly known as C.C.I.T.T.
ITU-T Image No.1	An industry standard document that allows comparisons of the transmission speeds and capabilities of facsimile machines.
Image memory capacity	This signifies the amount of memory available in your unit capable of storing pages of documents. All page units of measure are based on the ITU-T Image No.1.
Industry Canada (D.O.C)	Department of Communications. The Canadian Government organization that regulates communications originating or terminating in Canada.
Information code	A code that is internally generated by your Fax stating a specific operational error or machine failure.
Initial sending station	In a relay network, the station that is originating the document transmission.
Internet	The vast collection of inter-connected networks that all use the TCP/IP protocols. The Internet connects independent networks into a vast global internet.
Intranet	A private network inside a company or organization that uses the same kinds of software that you would find on the public Internet, but that is only for internal use.
IP Address	A unique number used to identify equipment or host computers on the Internet.
ISP (Internet Service Provider)	An institution that provides access to the Internet in some form, usually for money.
Journal	A report that is printed by your unit listing the last 100 transactions.
Keypad	A group of numeric keys located on your control panel.
LAN (Local Area Network)	A computer network system and printer limited to an immediate area, such as an Office, Factory, and University used to integrate and exchange data.
LCD	Liquid Crystal Display. The display area of your machine.

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LOGO	Your programmed company name or identification up to 25 alphanumeric characters.
MAC Address	Its the hardware address, often referred to as MAC (Media Access Control) address that is assigned to the equipment. MAC address is hard-coded and is not configurable. The MAC address consists of 6 hexadecimal numbers separated by colons. Example: 00:00:c0:34:f1:50
Mail Gateway IP Address	The Address of the Mail Server. The Internet Fax communicates with your existing Mail Server for all communication traffic.
Mailing List	A system that allows people to send an email to one address, whereupon their message is conveyed to multiple subscribers on the Mailing List.
Manual reception	A mode that requires operator intervention to receive an incoming document.
MAPI	Acronym for Message Application Programming Interface. A standard Windows interface for messaging that enables different mail programs and other mail-aware applications like word processors and spreadsheets to exchange messages and attachments with each other.
Memory transmission	The documents are scanned into memory before actual connection to the phone line for transmission.
MIME (Multipurpose Internet Mail Extension)	A standard used for attaching non-text (image) files to Internet email messages.
Modem	A device that converts signals from your fax machine into signals that can be transmitted over telephone lines.
Multi-station transmission	The ability to broadcast the same set of documents to a programmed number of locations.
Network	Any time you connect 2 or more computers together so that they can share resources, you have a computer network. Connect 2 or more networks together and you have an internet.
Off-hook dialling	The direct dialling of a telephone number with the handset out of the cradle or "off the hook."
On-hook dialling	The direct dialling of a telephone number with the handset in the cradle or "on the hook."
One-Touch dialling	The ability to dial an entire telephone number or an email address by pressing one key.
Overlap Printing	Documents too long to be reduced are automatically printed on two pages with approximately 10 mm overlap.
Panasonic Super Smoothing	An electronic image enhancement (Panasonic Super Smoothing) that will create a particular pattern for the improvement of copy quality.
Polling	The ability to retrieve a document from another facsimile machine.
Polling password	A 4-digit programmed code that enables the security of a document being polled.
POP (Post Office Protocol)	POP refers to the way email software such as Eudora or the DX-2000 gets email from a mail server. You must always have a POP account that you tell your email software to use to retrieve your mail.
Print Collation	The ability to stack received documents in the correct order.

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►Glossary

Print reduction modes	The methods used to determine how an incoming document will be reduced to print onto the paper loaded in your machine.
Program keys	Keys that are defined for storing a sequence of stations to be dialed.
Protocol	A protocol is the special set of rules for communicating that the end points in a telecommunication connection use when they send signals back and forth. Both end points must recognize and observe the protocol.
PSTN	Public Switched Telephone Network. Network of interconnected switching equipment and transmission facilities.
Relay address	A 2-digit code that identifies your machine is programmed in a relay network.
Relay network	A group of facsimile machines that communicate via a relay station.
Relay station	A certain type of facsimile machine that can store and forward documents to an end receiving station and/or a relay station in another relay network. Your machine can not be used as a relay station.
Relayed Transmission	Sending a document to a relay station, which in turn, sends the document to the end receiving station.
Relayed Transmission Report	A report that contains information regarding the last document transmission to a relay station.
RESOLUTION	Relates to the number of dots scanned or printed per certain square. The quality of the image increases as the number of dots per certain square increases.
Router	A special purpose computer (or software package) that handles the connection between 2 or more networks. Routers act like traffic cops, they spend their time looking at the destination addresses of the packets passing through them and deciding which route to send them on.
Sender Selection	The user can select one of 24 pre-programmed sender's name and email address/telephone number before each transmission.
Server	A computer, or a software package, that provides a specific kind of service to client software running on other computers. A single server machine could have several different server software packages running on it, thus providing many different servers to clients on the network.
Selective reception	A function that can be set so that your unit will receive from only those machines programmed into your dialler.
SMTP (Simple Mail Transfer Protocol)	This is the main communication protocol used to send and receive email on the Internet.
Station name	Alphanumeric ID which can be programmed for each One-Touch dialling and Abbreviated dialling number.
Stored documents	Documents that have been scanned and now are stored in your machine's memory.
Sub-address	ITU-T recommendation for further routing, forwarding or relaying of incoming faxes.
Sub-address Password	ITU-T recommendation for additional security that corresponds to the Sub-address.
Subnet Mask	A mask bit used to manage sub-segments of the network which is defined with network IDs.

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Substitute memory reception Your machine's ability to store an incoming document into its memory, when it runs out of recording paper or toner.

TCP/IP (Transmission Control Protocol/Internet Protocol) TCP/IP is a suite of protocols used to connect to the Internet and wide-area networks.

TIFF Image Viewer An application software to view the contents of TIFF-F File. Some TIFF Image Viewers may not display the data properly.

TIFF-F (Tagged Image File Format) An image file format for attachments of graphic data for smooth transmission between different units. The coding method of this format supports the same coding as Modified Huffman (MH) and multiple-page image data.

Transmission reservation The ability to preset a telephone number so that you may reserve a transmission while your unit is performing another function.

User parameter Programmed parameters that provide information to other stations. Examples are logo, character ID, date and time.

Verification stamp A user selectable transmission verification stamp can be placed on scanned documents that are successfully transmitted or stored in memory.

View Mode - File List Allows you to view the brief contents of the memory files through the LCD display without having to print the Memory File List.

View Mode - Journal Allows you to view the brief contents of the journal through the LCD display without having to print the journal.

9

All specifications are based on the ITU-T Image No. 1 (The sample shown below is not to scale).

THE SLEREXE COMPANY LIMITED

SAPORS LANE · BOOLE · DORSET · BH 25 8 ER

TELEPHONE BOOLE (945 13) 51617 · TELEX 123456

Our Ref. 350/PJC/EAC   18th January, 1972.

Dr. P.N. Cundall,
Mining Surveys Ltd.,
Holroyd Road,
Reading,
Berks.

Dear Pete,

    Permit me to introduce you to the facility of facsimile
transmission.

    In facsimile a photocell is caused to perform a raster scan over
the subject copy. The variations of print density on the document
cause the photocell to generate an analogous electrical video signal.
This signal is used to modulate a carrier, which is transmitted to a
remote destination over a radio or cable communications link.

    At the remote terminal, demodulation reconstructs the video
signal, which is used to modulate the density of print produced by a
printing device. This device is scanning in a raster scan synchronised
with that at the transmitting terminal. As a result, a facsimile
copy of the subject document is produced.

    Probably you have uses for this facility in your organisation.

                              Yours sincerely,

                              Phil.

                              P.J. CROSS
                              Group Leader - Facsimile Research

Registered in England: No. 2038
Registered Office: 60 Vicars   Lane, Ilford. Essex.

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Facsimile Number Directory

Name	Number / Email Address

Panafax®
Facsimile

DX-2000

Matsushita Graphic Communication Systems, Inc.

CORPORATE OVERSEAS SALES AND
OPERATION MANAGEMENT DEPARTMENT
2-3-8 Shimomeguro, Meguro-ku, Tokyo, Japan 153-8687

Printed in Japan
DZSD001006-1

QUICK
GUIDE DX-2000

Panasonic®

How to Set Documents.

Set the documents face down and adjust the document guides.

You can set the documents on the ADF (**A**utomatic **D**ocument **F**eeder) up to 50 pages* at one time.
* : (Based on 75 g/m² (0.12") weight A4 sizes document)

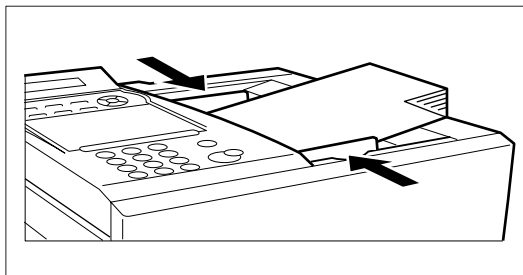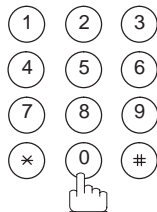The display message is as shown below when the documents are set properly.

```
ENTER STATION(S)
THEN PRESS START 00%
```

How to Send Using Manual Dialling.

Set the documents face down.

① ② ③
④ ⑤ ⑥
⑦ ⑧ ⑨
⊛ ⓪ #

Enter the telephone number or press the [INTERNET] key to enter an email address.
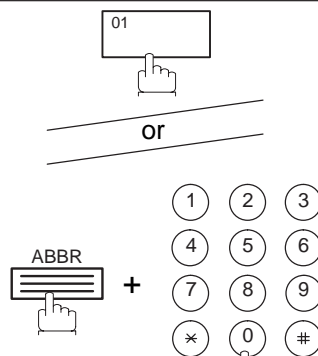
START

The document is stored in memory. Then, your machine starts dialling the number or sending via LAN.

How to Send Using One-Touch/Abbreviated Key.

Set the documents face down.
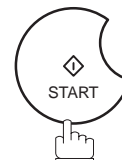
01

or

ABBR +
① ② ③
④ ⑤ ⑥
⑦ ⑧ ⑨
⊛ ⓪ #

Enter a 3-digit code (000 to 999).

START

The document is stored in memory. Then, your machine starts dialling the number or sending via LAN.

How to Send without storing into memory.
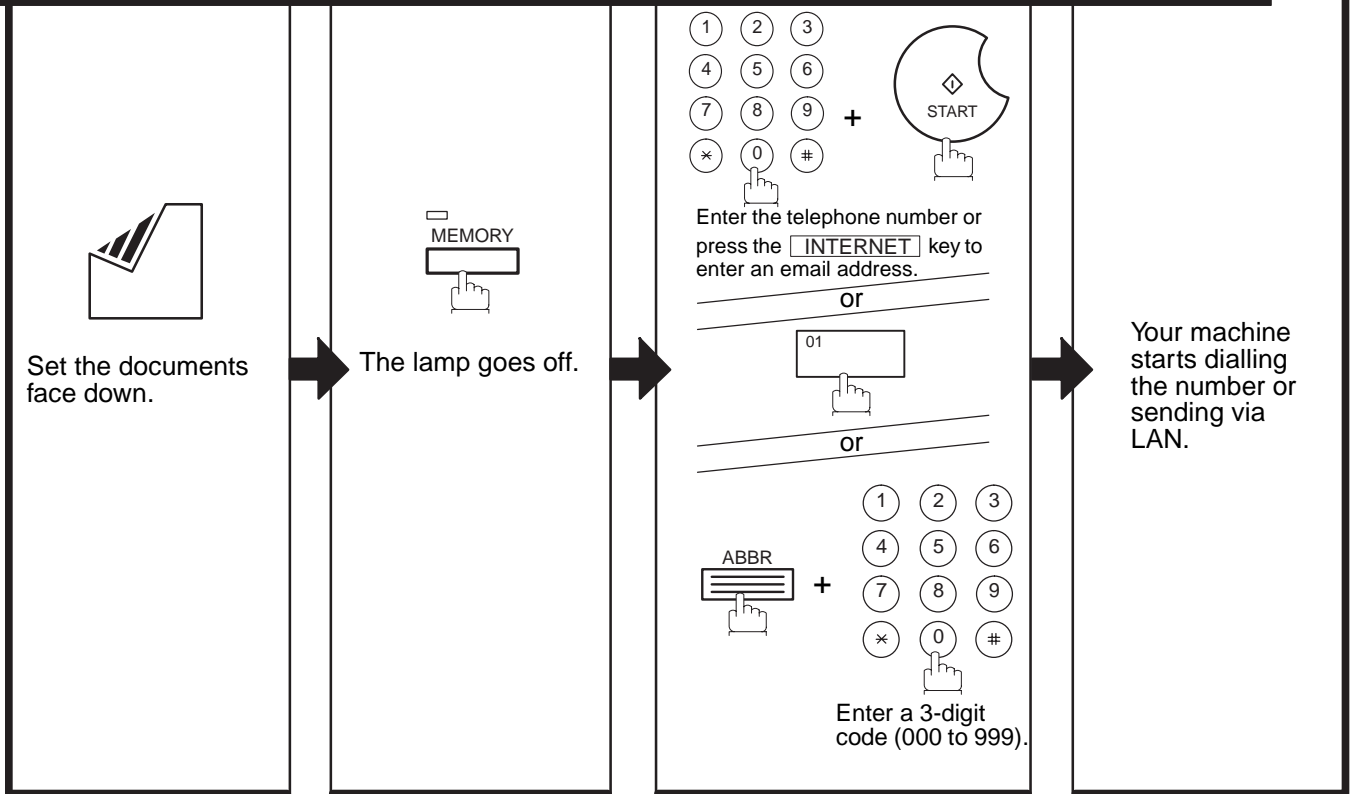
Set the documents face down.

→ MEMORY

The lamp goes off.

→

Enter the telephone number or press the INTERNET key to enter an email address.

or

01

or

ABBR +

Enter a 3-digit code (000 to 999).

→ Your machine starts dialling the number or sending via LAN.

How to Print Journals and Reports.

Transaction Journal	FUNCTION 6 1 SET 1	→	* PRINTING * JOURNAL
One-Touch/ABBR List	FUNCTION 6 2 SET 1	→	* PRINTING * ONE-TOUCH/ABBR LIST
Directory Search List	FUNCTION 6 2 SET 2	→	* PRINTING * DIR. SEARCH LIST
Program List	FUNCTION 6 3 SET	→	* PRINTING * PROGRAM LIST
Fax Parameter List	FUNCTION 6 4 SET	→	* PRINTING * FAX PARAMETER LIST
Directory Sheet	FUNCTION 6 7 SET	→	* PRINTING * DIRECTORY SHEET

QUICK
GUIDE DX-2000
DZSD001008-0

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http://emailbydomain.com

Auto manuals search

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TV manuals search

http://tv.somanuals.com