

FURUNO

OPERATOR'S MANUAL

FACSIMILE

MODEL **PFX-50**

(Incl. Installation Instructions)



FURUNO ELECTRIC CO., LTD.
NISHINOMIYA, JAPAN

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•Your Local Agent/Dealer

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SAFETY INSTRUCTIONS

"DANGER", "WARNING" and "CAUTION" notices appear throughout this manual. It is the responsibility of the operator and installer of the equipment to read, understand and follow these notices. If you have any questions regarding these safety instructions, please contact a FURUNO agent or dealer.



DANGER

This notice indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

This notice indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

This notice indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury, or property damage.

Safety Instructions for the Operator

 WARNING	
	<p>Do not open the equipment except to replace paper.</p> <p>Hazardous voltage which can cause electrical shock, burn or serious injury exists inside the equipment. Only qualified personnel should work inside the equipment.</p>
<p>Do not disassemble or modify the equipment.</p> <p>Fire, electrical shock or serious injury can result.</p>	
<p>Turn off the power immediately if water leaks into the equipment or the equipment is emitting smoke or fire.</p> <p>Continued use of the equipment can cause fire or electrical shock.</p>	
<p>Do not place liquid-filled containers on the top of the equipment.</p> <p>Fire or electrical shock can result if a liquid spills into the equipment.</p>	
<p>Do not operate the equipment with wet hands.</p> <p>Electrical shock can result.</p>	
<p>Keep heater away from equipment.</p> <p>Heat can alter equipment shape and melt the power cord, which can cause fire or electrical shock.</p>	

 CAUTION
<p>Do not use the equipment for other than its intended purpose.</p> <p>Personal injury can result if the equipment is used as a chair or stepping stool, for example.</p>
<p>Do not place objects on the top of the equipment.</p> <p>The equipment can overheat or personal injury can result if the object falls.</p>

Safety Instructions for the Installer

WARNING

Do not work inside the equipment unless totally familiar with electrical circuits.

Hazardous voltage which can cause electrical shock, burn or serious injury exists inside the equipment.

Turn off the power at the mains switchboard before beginning the installation. Post a sign near the switch to indicate it should not be turned on while the equipment is being installed.

Fire, electrical shock or serious injury can result if the power is left on or is applied while the equipment is being installed.

CAUTION

Ground the equipment to prevent electrical shock and mutual interference.

Confirm that the power supply voltage is compatible with the voltage rating of the equipment.

Connection to the wrong power supply can cause fire or equipment damage. The voltage rating appears on the label at the rear of the display unit.

Observe the compass safe distances to prevent deviation of a magnetic compass.

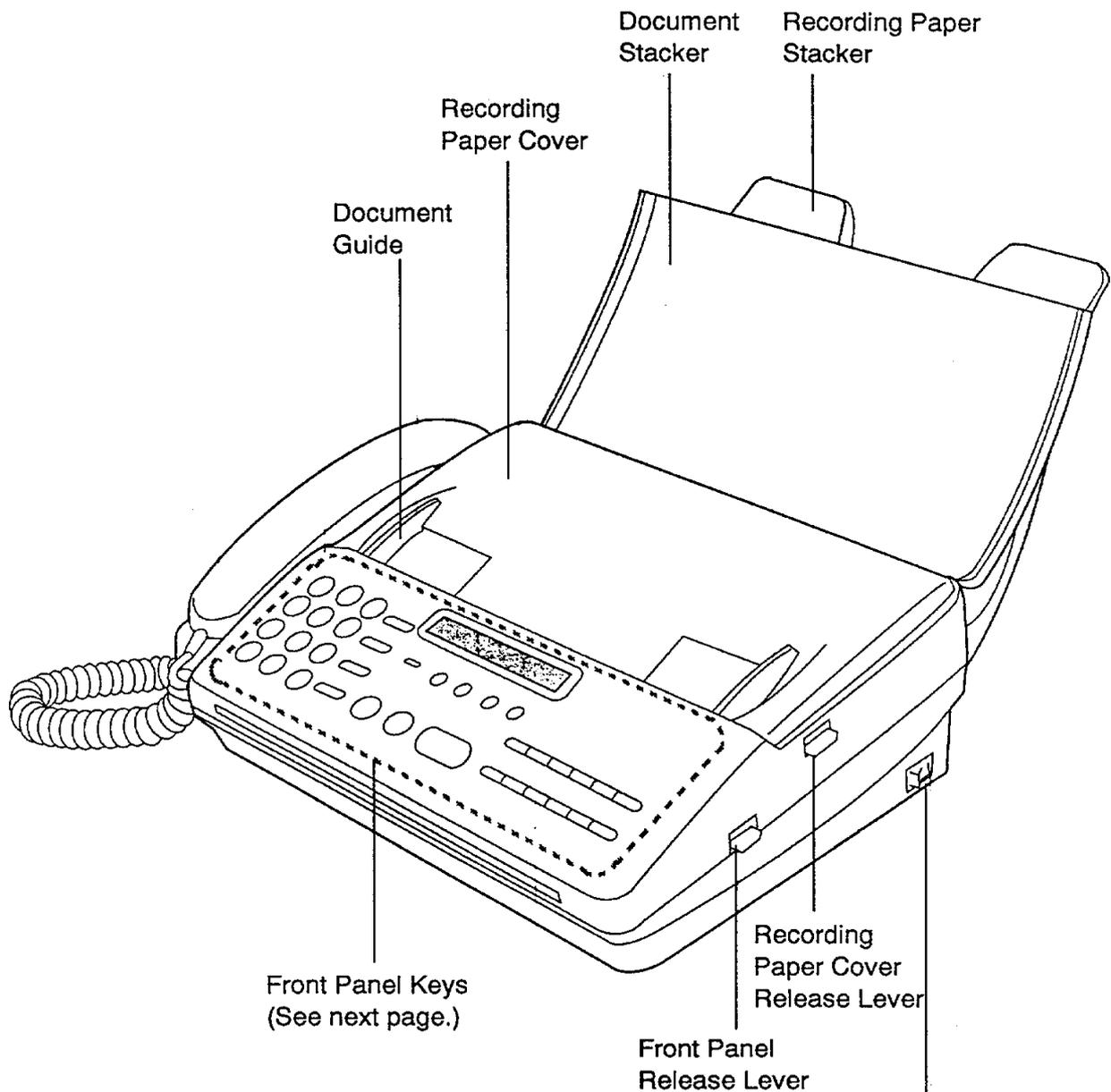
	Standard compass	Steering compass
FAX	1.6 m	1.2 m

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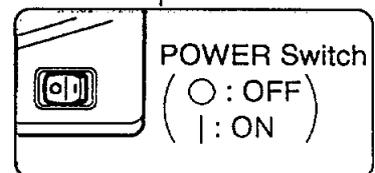
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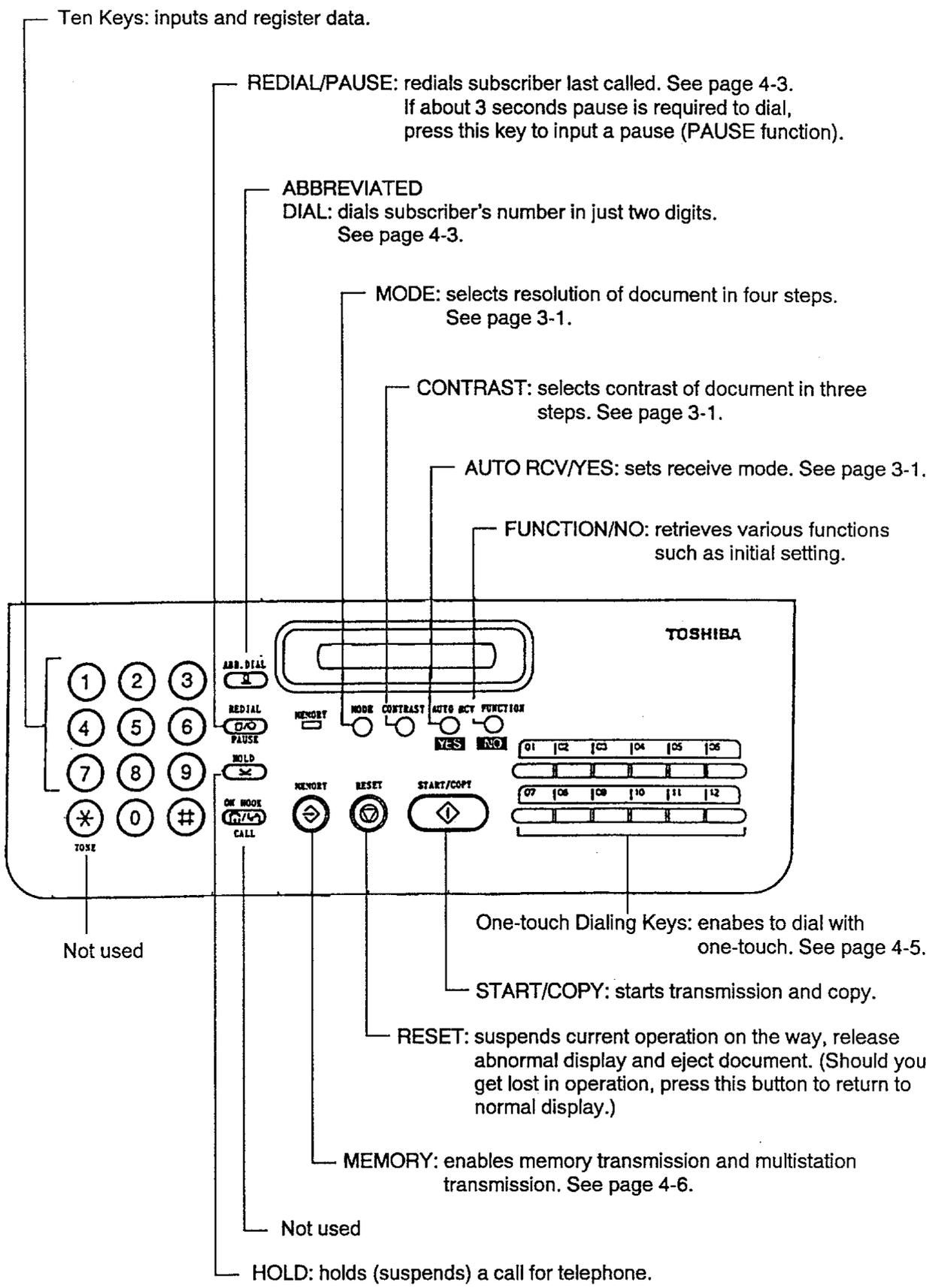
Chapter 1

Front Panel Key Function



Enter key command sequentially within one minute, otherwise display is returned to normal display.





Chapter 2

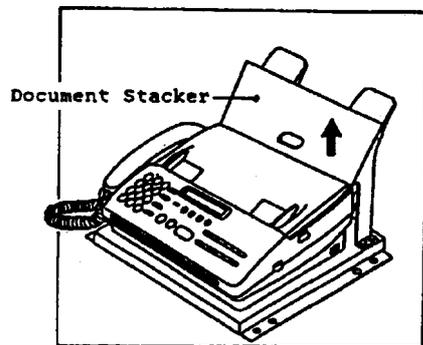
Loading a Recording Paper

Prior to loading a Recording Paper, verify that the power is ON.

DO NOT switch OFF during the loading.

Procedure

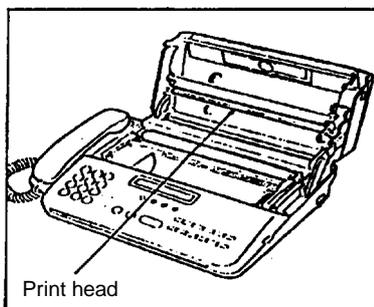
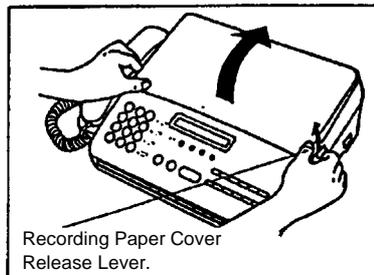
1. Remove the Document Stacker.



Recording Paper

Type	Code No.	Qty
K52 257 X 50M25TRU (For B4)	000-806-564	12 (1 set)
K52 216 X 50M25TRU (For A4)	000-806-565	12 (1 set)

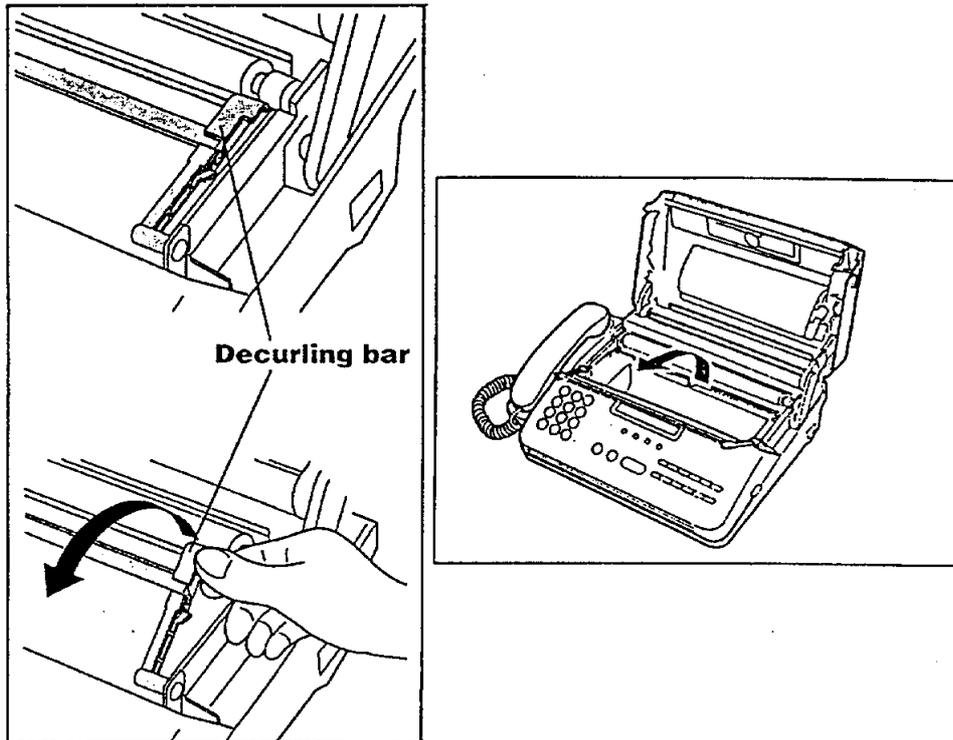
2. Open the Recording Paper Cover by pulling up the Recording Paper Cover Release Lever.



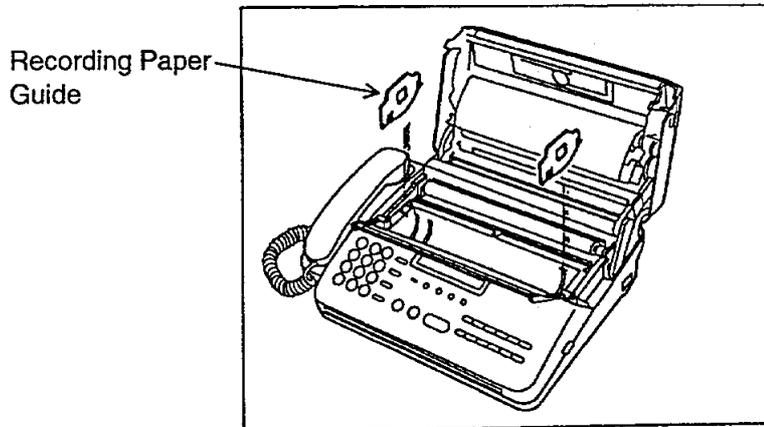
Note: 1. Remove the strip of paper inserted to protect the thermal printing head during shipment.

2. Be careful not to touch the print head (gold colored bar under the recording paper cover) when the recording paper cover is opened.

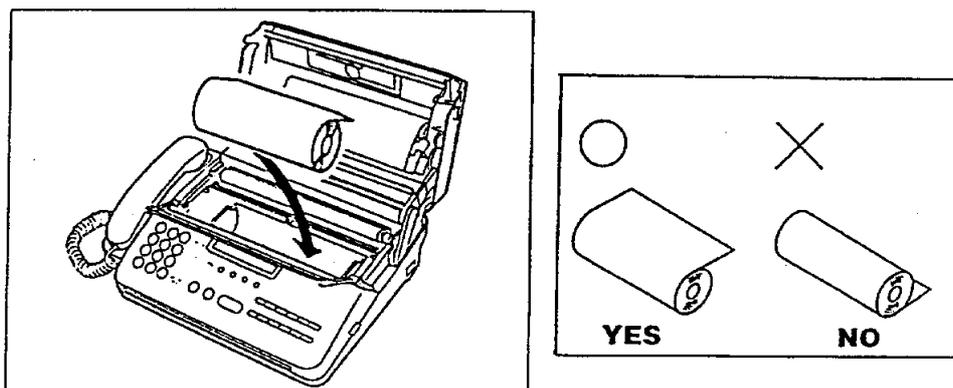
3. Lift up the Decurling bar.



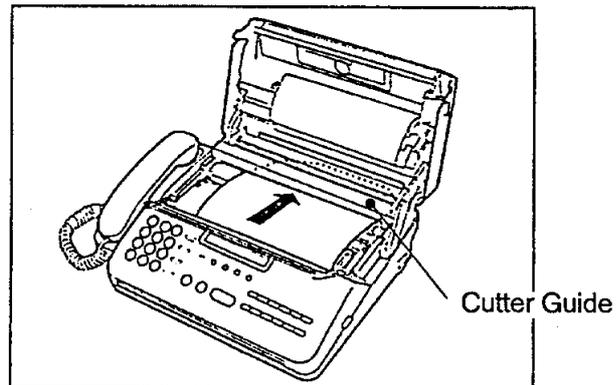
4. Set the Recording Paper Guide to appropriate position. (Set both right and left guide pieces in either A4 or B4 position)



5. Load a Recording Paper, taking account of its feeding direction.



6. Feed the loaded Recording Paper under the Cutter Guide until paper head appears at paper exit.

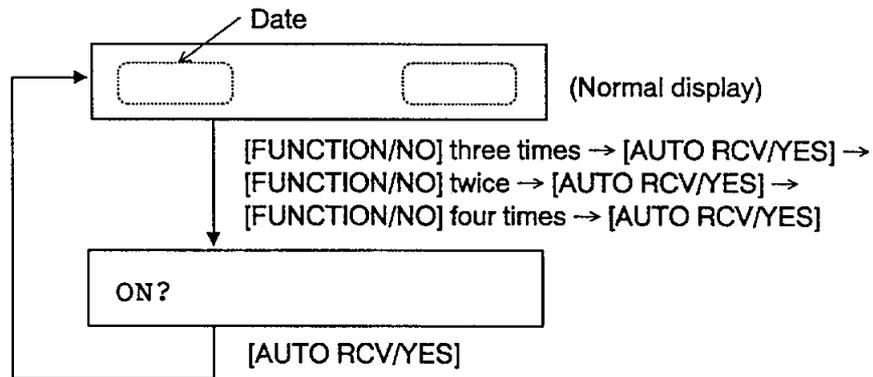


7. Position the Decurling bar to the normal place and close the Recording Paper Cover.
8. Press the [START] button. The Recording Paper will be fed out in short length and also be automatically cut. (Verify that the message "READY" is printed.)

Chapter 3 Preparation

3.1 Receive Mode

Change the receive mode setting as follows.

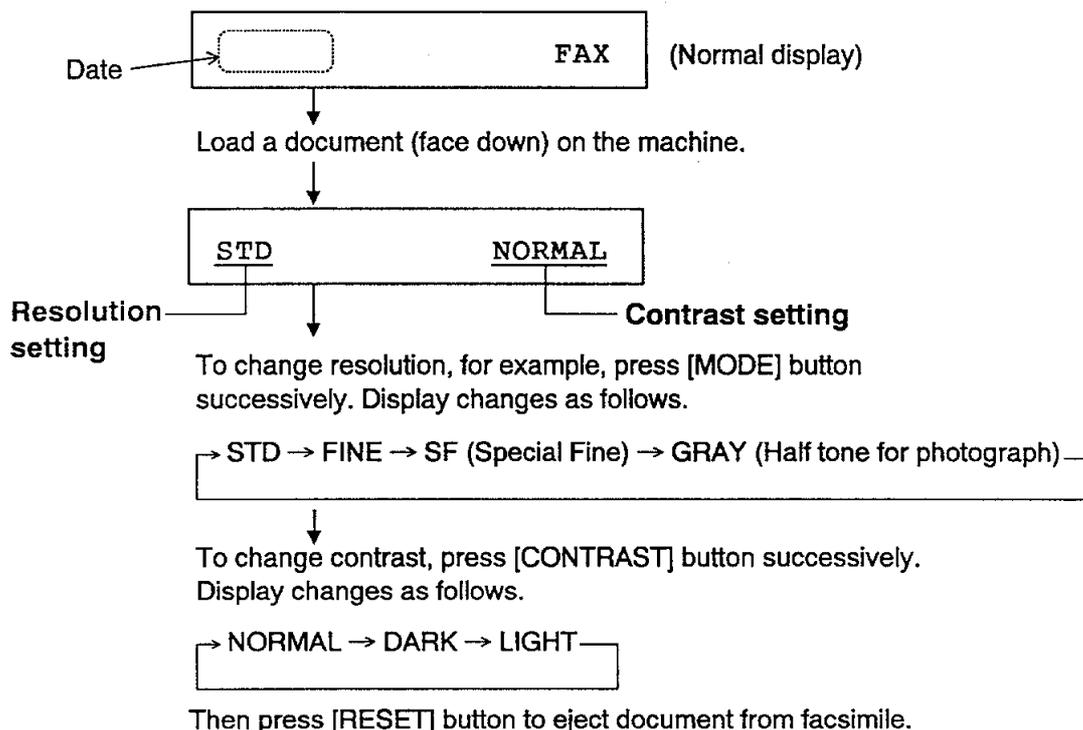


Then, set the receive mode to the "FAX" (Fax only) by pressing the [AUTO RCV/YES] button successively. Each press of this button changes the display as follows.



When the "FAX" is selected, a message from a partner is automatically received without calling tone (Automatic reception).

3.2 Settings of Resolution and Contrast of Document



Chapter 4 Transmission

4.1 General

There are six types of transmission modes as below.

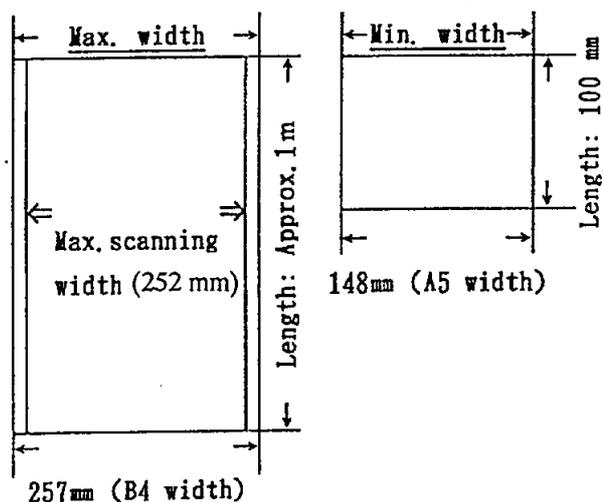
- ① Direct Dialing
- ② Abbreviated dialing
- ③ One-touch dialing
- ④ Multistation transmission
- ⑤ Memory transmission
- ⑥ Programmed timer transmission

Acceptable document

The following document goods are accepted to transmit or copy.

ITEM	SINGLE SHEET	PLURAL SHEETS
Width	148 mm to 257 mm	148 mm to 257 mm
Length	100 mm to 1000 mm	100 mm to 297 mm
Thickness	0.05 mm to 0.15 mm	0.06 mm to 0.12 mm
No. of loadable paper	1 sheet Uncoated on both sides	Up to 10 sheets Uncoated on both sides

- Note:** 1. Plural sheets must be the same size and the same type.
2. Personal hand assistance is needed for pages longer than 364 mm.



In addition, a document should be suited to the following requirements:

- No torn, wrinkled, or damp pages
- No folded pages or pages with holes
- No transparent pages
- No cloth or metal sheets
- No pressure sensitive recording paper
- No thermal recording paper

Note that when you use unsuitable documents, copy first them using a standard copy machine.

About document size and Recording paper size (at partner)

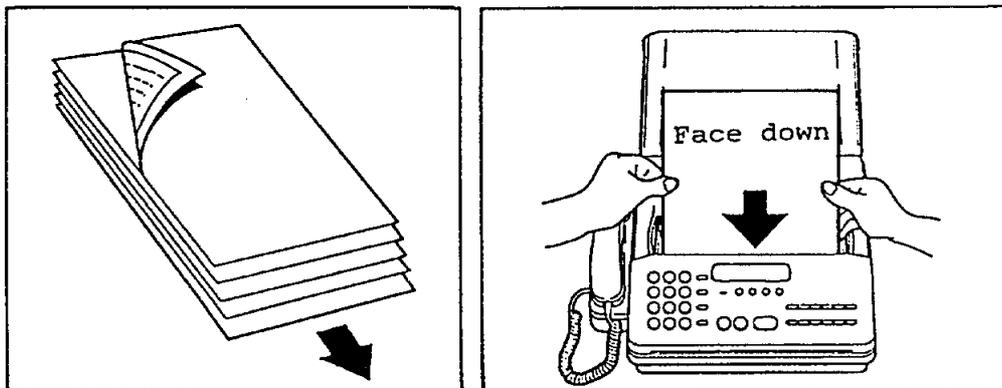
The relation of size between transmission document and recording paper at a partner are as follows.

TX document size		B4	A4
RX paper size at partner	G3 : B4	B4	A4
	G3 : A4	Reduced to A4	A4

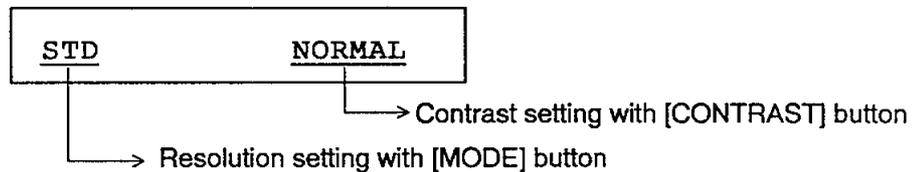
4.2 Loading a Document

Procedure

1. Set the Document Guide properly.
2. Insert the document into the machine (face down) as shown below.
 [If you are sending two or more pages (up to 10 sheets), note that the bottom sheet enters first.]



Display should look something like the figure below.



3. If necessary, change the resolution and the contrast to enable transmission in the best condition suited to the document, referring to page 3-1.

Note: *If you want to cancel the transmission, press the [RESET] button to eject a document.*

4.3 Direct Dialing

Set a document face down. Then dial numbers as below.

<input type="text"/>	#	START						
LES No.	Service Code	Country Code	Area Code	Fax No.				

(ex.) Automatic call to subscriber in Japan via Pacific Ocean LES (Perth)

<u>2 2 2</u>	<u>0 0</u>	<u>8 1</u>	<u>7 9 8</u>	<u>6 . . . 1</u>	#	START
Perth	Automatic Call	Japan	Area Code	Fax No.		

If you misdial, press the [FUNCTION/NO] button and dial again. (To cancel all input data, press the [RESET] button.)

4.4 Redialing

The redialing feature automatically redials number last dialed. Press the [REDIAL] button.

4.5 Abbreviated Dialing

The abbreviated dialing feature lets you dial a subscriber's number in just two digits. You may register 50 abbreviated dialing numbers, numbered 01 to 50.

Registering numbers

Reference: Press a key sequentially within one minute, otherwise display is returned to normal display. Note that you may write over unnecessary facsimile number.

1. Press the [FUNCTION/NO] button twice.

TEL NUMBER ENTRY?

2. Press the [AUTO RCV/YES], [FUNCTION/NO] and [AUTO RCV/YES] buttons in that order.

ABB. NUMBER = (01-50)

3. Enter abbreviated dialing number followed by the [AUTO RCV/YES] button.

TEL =

4. Enter facsimile number (maximum 38 figures) and [#] followed by the [AUTO RCV/YES] button.

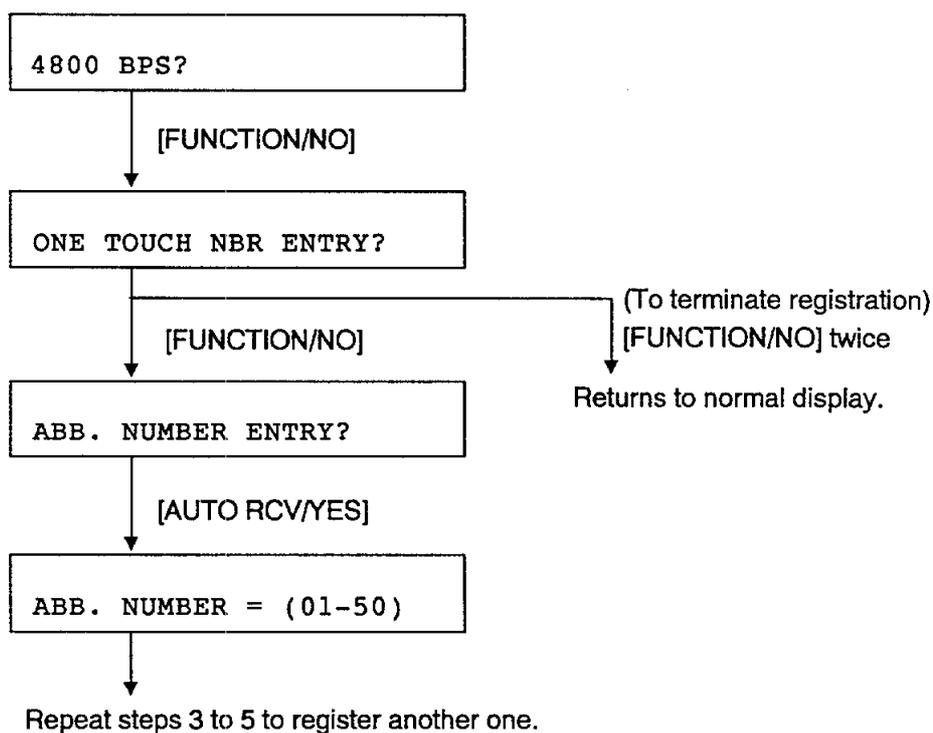
ID =

5. Enter subscriber's name (maximum 20 figures) referring to page 4 at the end of this manual. Then press the [AUTO RCV/YES] button.

(ex) Name: A B C ⇒ Type 74 75 76 in that order.

↓ ↓ ↓
74 75 76

If no input is required, simply press the [AUTO RCV/YES] button.



Deleting abbreviated dialing number

1. Do steps 1 to 3 shown above. Then press the [FUNCTION/NO] and [AUTO RCV/YES] buttons in this order.



2. Press the [FUNCTION/NO] button twice to return to normal display.

Abbreviated dialing

1. Set a document face down.
2. Press the [ABB. DIAL] button.
3. Key in abbreviated dialing number followed by the [START] button.

4.6 One-touch Dialing (maximum 12 subscribers)

Registering numbers

1. Press the [FUNCTION/NO] button twice.

TEL NUMBER ENTRY?

2. Press the [AUTO RCV/YES] button twice.

ENTER ONE TOUCH KEY

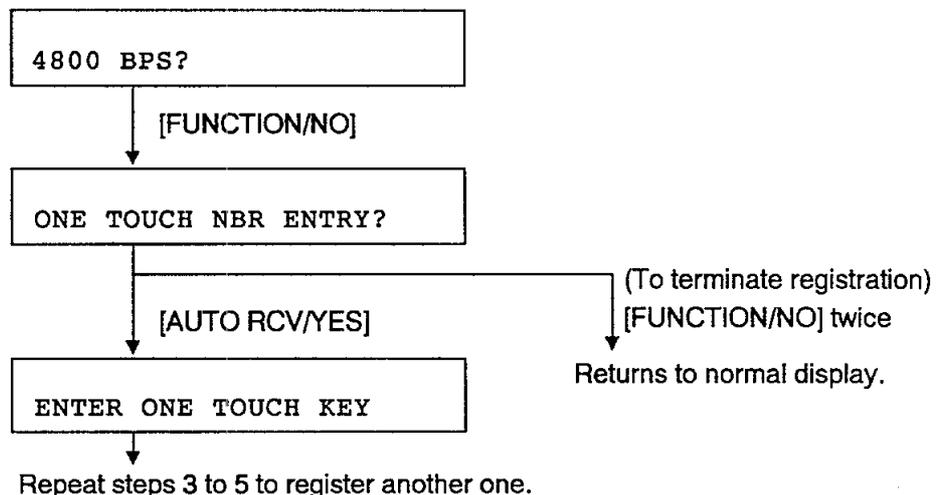
3. Press a one-touch button numbered 01 to 12.

TEL =

4. Enter facsimile number (maximum 38 figures) and [#] followed by the [AUTO RCV/YES] button.

ID =

5. Enter subscriber's name (maximum 20 figures) referring to page 4. Then press the [AUTO RCV/YES] button. If no input is required, simply press the [AUTO RCV/YES] button.



Deleting one-touch dialing number

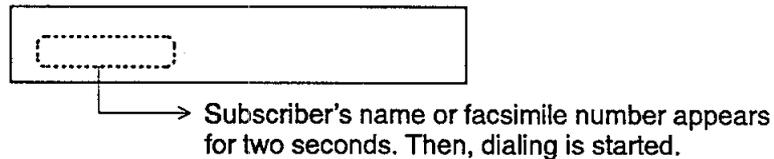
1. Do steps 1 to 3 shown above. Then press the [FUNCTION/NO] and [AUTO RCV/YES] buttons in this order.



2. Press the [FUNCTION/NO] button twice to return to normal display.

One-touch dialing

1. Set a document face down.
2. Press a one-touch dialing number (01 – 12).

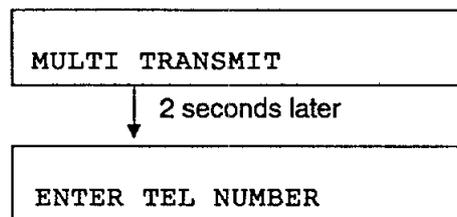


4.7 Multistation Transmission and Memory Transmission

When it is required to send a document to various subscribers, use the multistation transmission. At first set a document face down.

Procedure (for both transmissions)

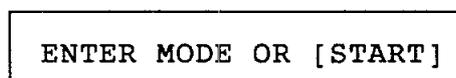
1. Press the [MEMORY] button.



2. Enter subscriber's number. The following methods are available for data entry. (See note 1 on next page.)

- Direct dialing (maximum five subscribers)
- Abbreviated dialing
- One-touch dialing

3. Press the [AUTO RCV/YES] button.



4. Only for the multistation transmission, repeat steps 2 and 3 to enter another subscriber's number.

5. Press the [START] button to memorize the data of the document.

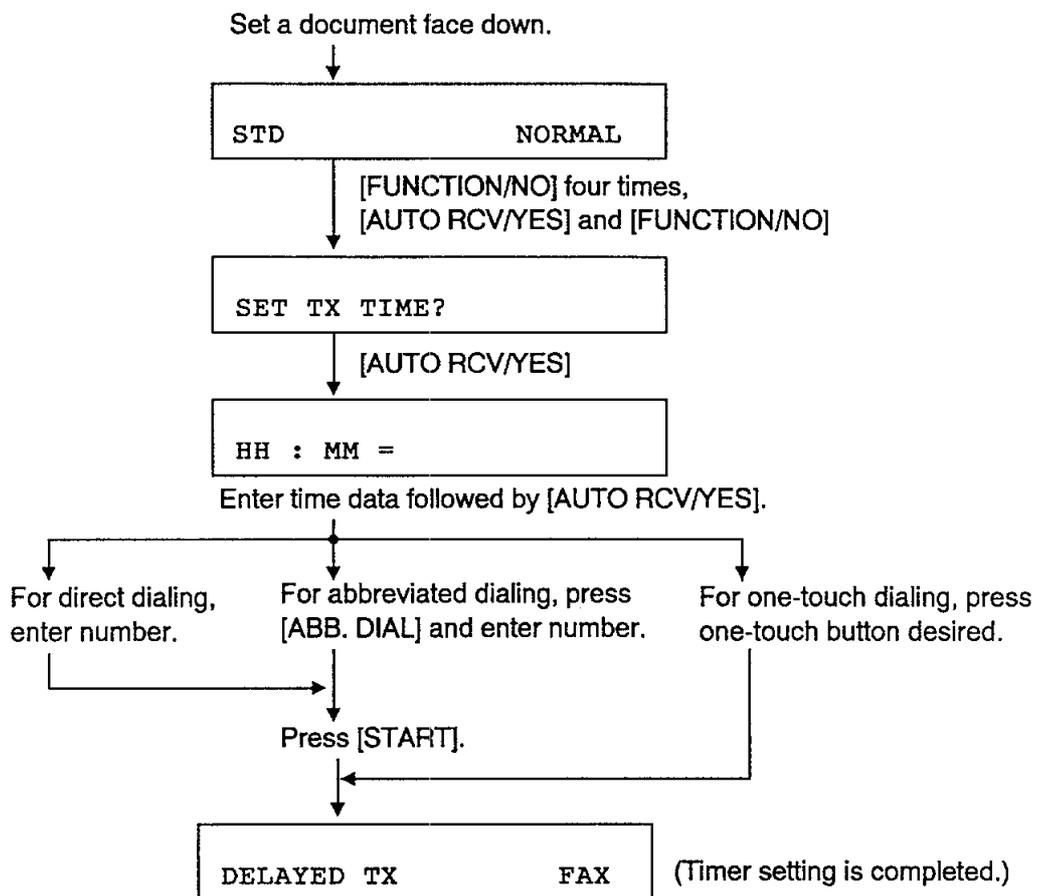
MEMORY × × % USED

The document is ejected and calling is automatically started.
 (The "MEMORY" lamp lights until all callings are terminated.)
 If you want to stop this operation on the way, press the [RESET] button.

Note 1. *If you select abbreviated (or one-touch) dialing number not registered, an error beep sounds. (Error message "NUMBER NOT LISTED" appears momentarily.)*

4.8 Programmed Timer Transmission

This equipment can be programmed to send data at a specific time.



If you want to cancel timer transmission, press the [RESET] button.

CANCELED?

[AUTO RCV/YES] three times

CANCELED

A document is ejected and a cancel list is printed out.

Chapter 5 Reception

As mentioned on page 3-1, the receive mode should be set to the "FAX" (Fax only) with the [AUTO RCV/YES] button.

5.1 Paper Save Function

This equipment enables the reduced printing (50% reduction) of a received document in order to save a recording paper.

1. Press the [FUNCTION/NO] button three times

INSTALLATION (FAX)?

2. Press the [AUTO RCV/YES], [FUNCTION/NO], [AUTO RCV/YES], [FUNCTION/NO] and [AUTO RCV/YES] buttons in that order.

ON?

3. Press the [AUTO RCV/YES] button to set this function to ON.

Note: *If you want to turn this function off, do steps 1 and 2 shown above then press the [FUNCTION/NO] and [AUTO RCV/YES] buttons.*

5.2 Memory Reception

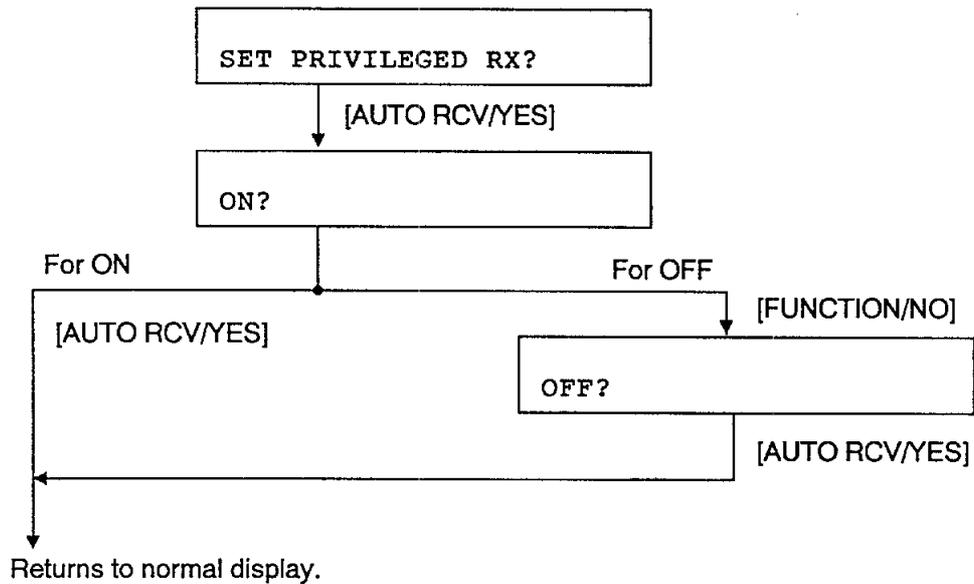
Although a recording paper runs out completely or it is jammed during reception, a receive message is stored in the memory. (The "MEMORY" lamp lights.) The power should be on. If it is turned off, the contents in the memory will be erased.

After a recording paper is set correctly, press the [START] button to print out the receive message.

5.3 Restricted Reception

This function allows you to receive only the messages from the subscribers registered by the abbreviated dialing and the one-touch dialing (maximum 62 subscribers).

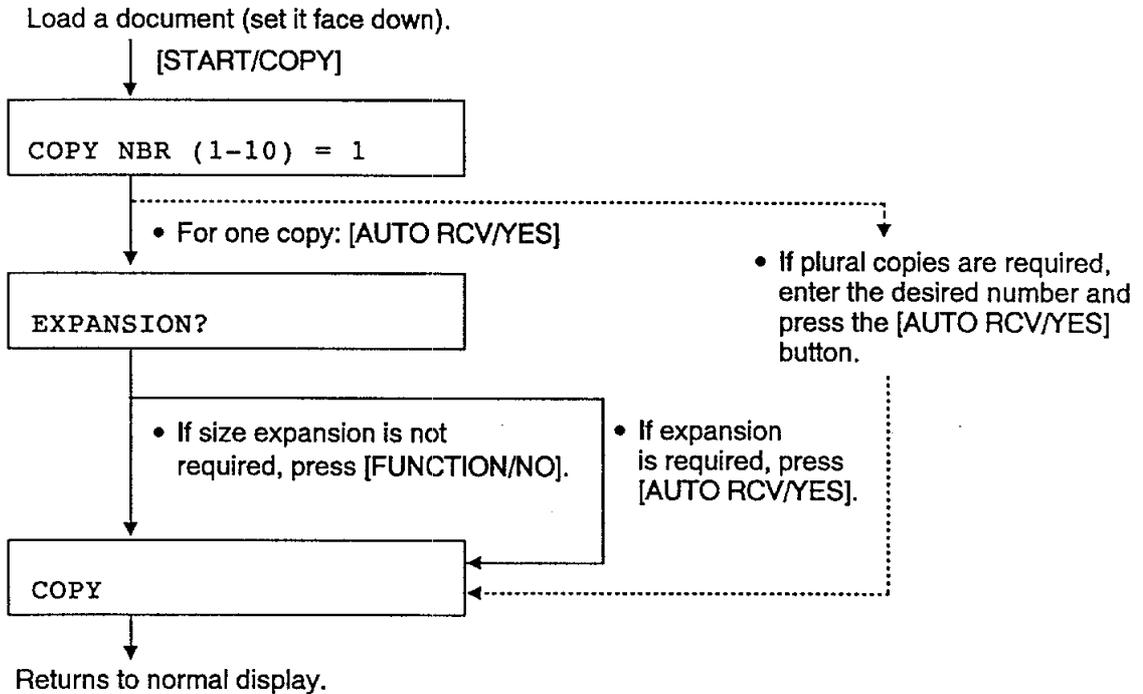
- [FUNCTION/NO] three times → [AUTO RCV/YES] →
[FUNCTION/NO] twice → [AUTO RCV/YES] →
[FUNCTION/NO] three times



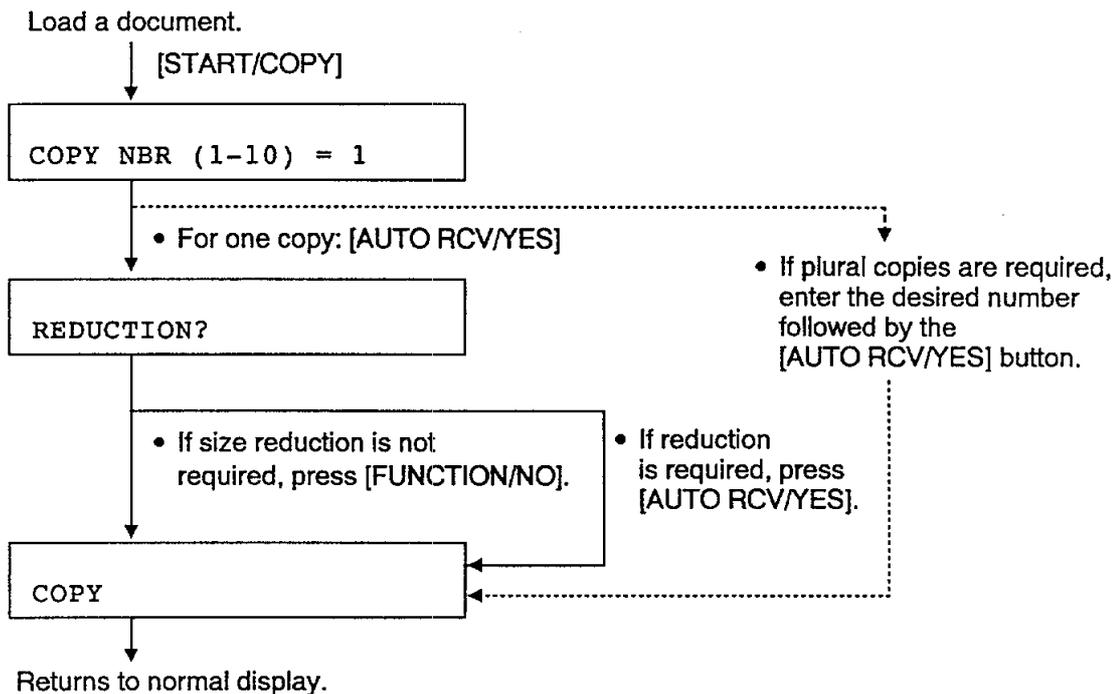
Chapter 6 Other Functions

6.1 Copying a Document

For A4



For B4



6.2 Printing out Lists

Communication Journal

Press [FUNCTION/NO], [AUTO RCV/YES] twice in that order. A communication journal for both transmission and reception is printed out as below.

<u>TRANSMISSION-JOURNAL</u>							
				TIME	:	May 10 '95 11:45	
				TEL NUMBER	:	872310090810	
				NAME	:	FURUNO	
NBR	DATE	TIME	DURATION	PGS	TO	MODE	STATUS
001	May 10	11:30	01/35	02	0030081798631064	G3	M OK(*1)
			↑ 1 min. 35 sec	↑ 2 pages	↑ Subscriber's number		↑ Memory transmission
<u>RECEPTION-JOURNAL</u>							
				TIME	:	May 10 '95 11:45	
				TEL NUMBER	:	872310090810	
				NAME	:	FURUNO	
NBR	DATE	TIME	DURATION	PGS	FROM	MODE	STATUS

(*1) If an error number appears, refer to the Table shown below.

Error Code Table

Error Code	Meaning
10	A recording paper shortened or empty.
11	A recording paper jammed.
12	A document jammed.
13	The recording paper cover opened.
20	The power supply cut off.
25	The thermal printing head overheated.
30	The [RESET] button pressed during communication.
42	The memory overflowed.
50	A communication line is busy although the [REDIAL] button is pressed 3 times.
80, 82, 83, 84, 86	The problem occurs in the communication circuit or in a machine of receive partner.

Telephone (facsimile) Number List

Press the [FUNCTION/NO], [AUTO RCV/YES], [FUNCTION/NO] and [AUTO RCV/YES] in that order to print out the list.

<u>* TELEPHONE NUMBERS LIST *</u>		
		TIME : May 10 '95 11:45
		TEL NUMBER : 872310090810
		NAME : FURUNO
<u>ONE TOUCH KEY INFORMATION</u>		
<u>OT NBR</u>	<u>NAME</u>	<u>TEL NUMBER</u>
02	B	222222
12		1111111111
<u>ABBREVIATED TEL NUMBER INFORMATION</u>		
<u>ABB.NBR</u>	<u>NAME</u>	<u>TEL NUMBER</u>
01	A	321456789999

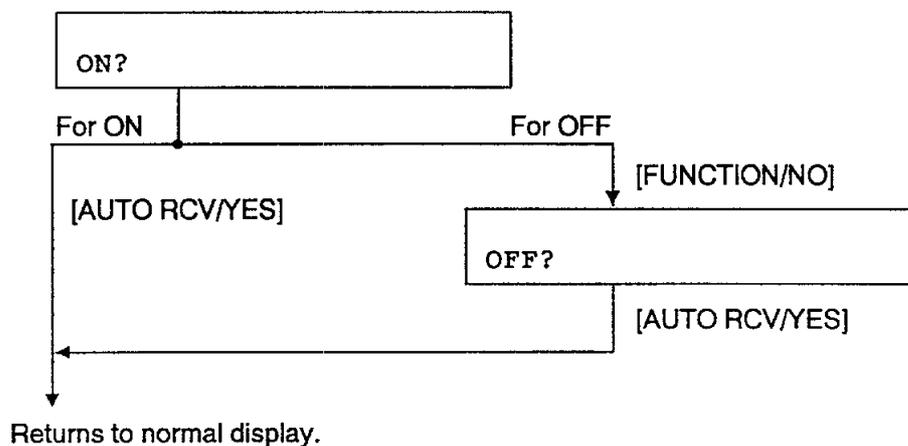
Function List

- [FUNCTION/NO] → [AUTO RCV/YES] →
[FUNCTION/NO] twice → [AUTO RCV/YES] ⇔ Printing is started.

Transmission Report

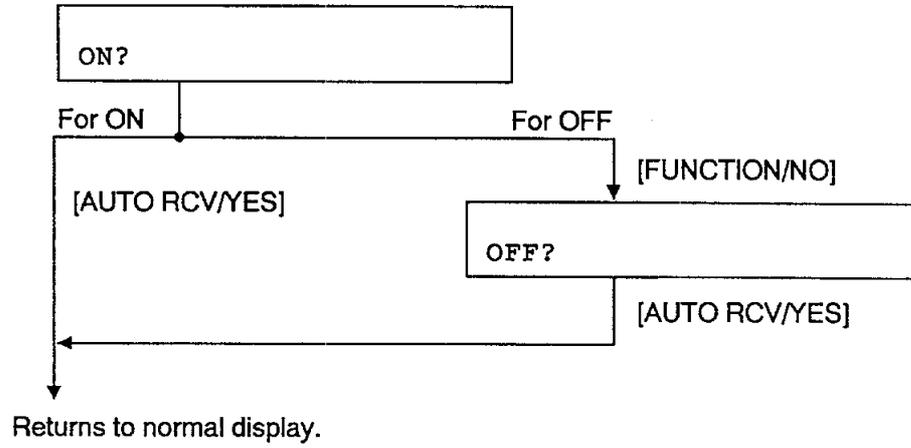
Every time a transmission is terminated, its result (same as transmission journal on page 6-2) is printed out. Follow the procedure shown below.

- [FUNCTION/NO] three times → [AUTO RCV/YES] →
[FUNCTION/NO] three times → [AUTO RCV/YES] →
[FUNCTION/NO] → [AUTO RCV/YES]



Multi Transmission Report

- [FUNCTION/NO] three times → [AUTO RCV/YES] →
[FUNCTION/NO] three times → [AUTO RCV/YES] →
[FUNCTION/NO] twice → [AUTO RCV/YES]



Chapter 7 Troubleshooting

7.1 Error Message

This facsimile equipment continuously monitors own status and displays an alert message for approximately two seconds if an error is detected.

Operation error

Error Message	Meaning and Action (Marked *)
PUT IN DOCUMENT	No document loaded on the stacker. * Operate again from the beginning after a document is loaded.
NUMBER NOT LISTED	An inputted number is not registered. * Check registration of the number desired.
SORRY NOT POSSIBLE	An inappropriate data is inputted. * Input an appropriate data.

Communication error

Error Message	Meaning and Action (Marked *)
TPH OVERHEAT	The overheat protecting function is activated. * Wait until cooled.
COVER OPEN	The Recording Paper Cover opened. * Close the Recording Paper Cover properly pressing the both sides of the Recording Paper Cover.
PAPER EMPTY	No Recording Paper. * Load a new Recording Paper.
PAPER JAM	The Recording Paper jammed. * Remove the jammed Recording Paper and load the Recording Paper correctly, and then press the [START] button.
DOCUMENT JAM	A document jammed. * Open the Front Panel by pulling up the Front Panel Release Lever, then put out the document jammed.
LINE BUSY	The facsimile communication circuit is not connected although the [REDIAL] button is pressed. * Press the [RESET] button and try to send a document again.
COMMUNICATION ERROR	Transmission or reception failed. * Press the [RESET] button and check the status and error code by printing out the Communication Journal. Refer to page 6-2.

(Continued on the next page)

Error Message	Meaning and Action (Marked *)
POWER FAILURE	The power supply cut off during communication. * Press the [RESET] button and check the status and error code by printing out the Communication Journal. Refer to page 6-2.
MEMORY OVERFLOW	The memory capacity is full. (The contents in the memory will be cleared.) * Operate again from the beginning of call.
MEMORY ERASED	All contents of the memory erased. * Press the [RESET] button and set up all system (function) settings again.

Note: *When an error message can not be erased, press the [RESET] button. If it is still displayed, however, turn the power off once and turn it on again, then press the [RESET] button.*

7.2 All Memory Clear

When the procedure shown below is carried out, **all contents in the memory** such as the telephone (facsimile) number list, function list, **initial setting (function parameter setting as well) at installation**, etc. will be erased. Therefore, it is recommended to **print out those data before clearing**, referring to pages 6-3 and 5.

1. Turn the power off.
2. While pressing and holding down the [1], [3] and [*] keys together, turn the power on.
3. Preset (reenter) various settings (data).

Installation Instructions

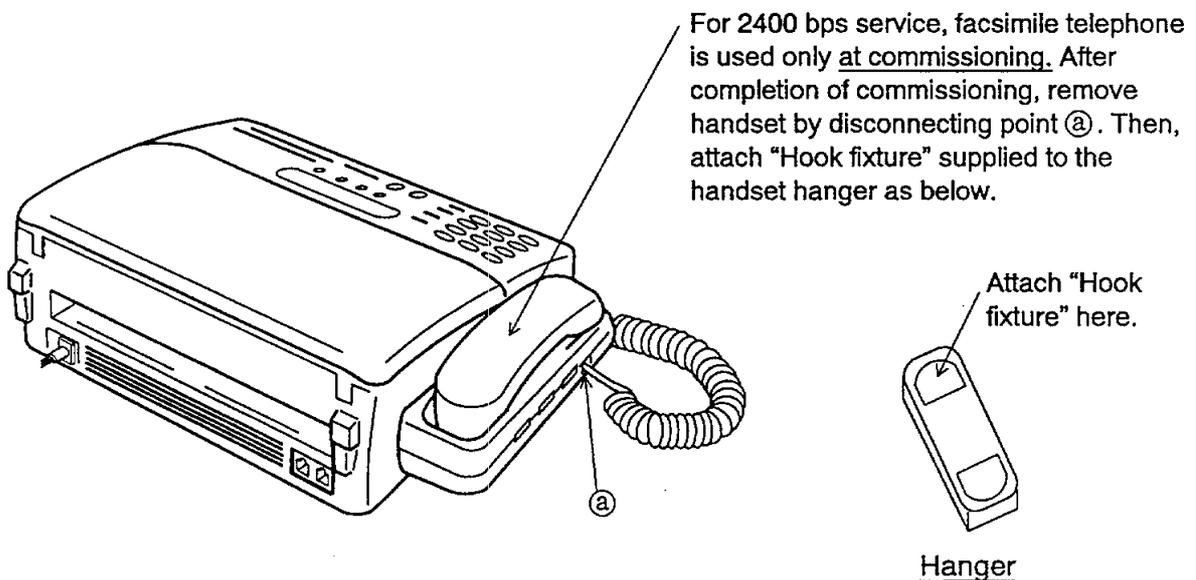
1. Mounting

Mounting considerations

- Select a place where temperature and humidity are stable and moderate.
- Select a place where dust is minimal.
- Leave sufficient space around the sides and rear of the unit for maintenance and checking.
- This unit cannot be fixed to a bulkhead.
- Mount this unit in parallel with “fore-aft” line (ship’s keel line) to minimize vibration of paper by ship’s rolling.

Mounting

Attach the double-sided tapes (supplied) to the rear side of the facsimile, referring to the Outline Drawing on page D-1. Mount the unit on a tabletop, where it can be easily operated.

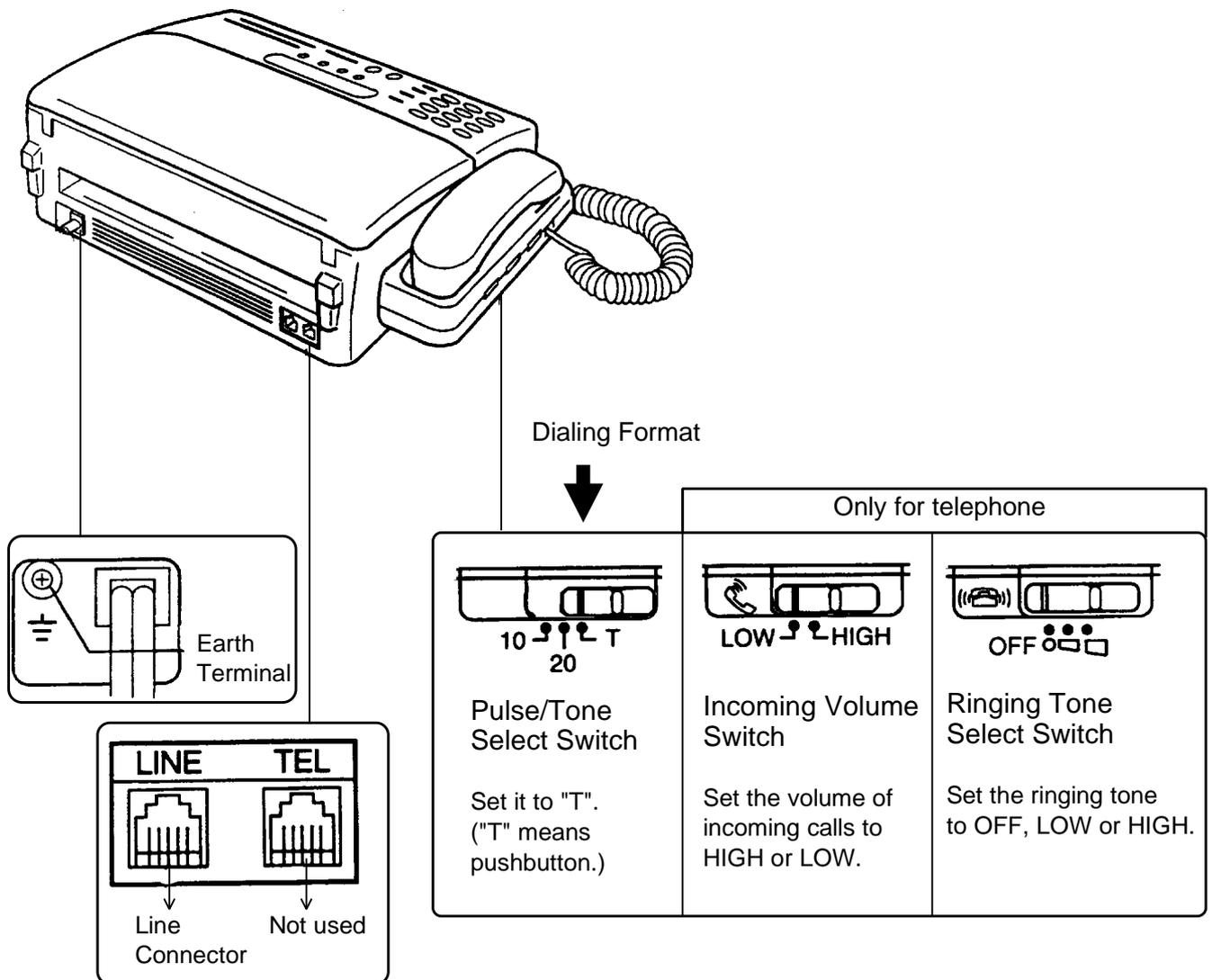


2. Connection

Connect a modular plug to the "LINE" jack on the rear side of the PFX-50. See the figure below. Another modular plug should be connected to either the Junction Box via a modular jack box or the Communication Unit directly, depending on number of facsimile. For further details, refer to the Installation Manual of the FELCOM.

3. Changing dialing format

Change dialing format from "pulse (dial)" to "pushbutton".



After connection is completed, attach the English language seal (supplied) to the front panel of the facsimile. Further, both the compass safe distance seal and Inmarsat "B" seal (supplied) should be attached to the facsimile.

4. Clearing contents of RAM

To clear all contents of RAM, turn the power on while pressing and holding down the [1], [3] and [*] keys together.

5. Initial setting

After clearing contents of RAM, display should look something like the figure shown below. Set and enter the followings:

- ① Your ship's name
 - ② Your facsimile number
 - ③ Dialing format
 - ④ Date and time
- They are printed out at the top of a receive message at a partner side.

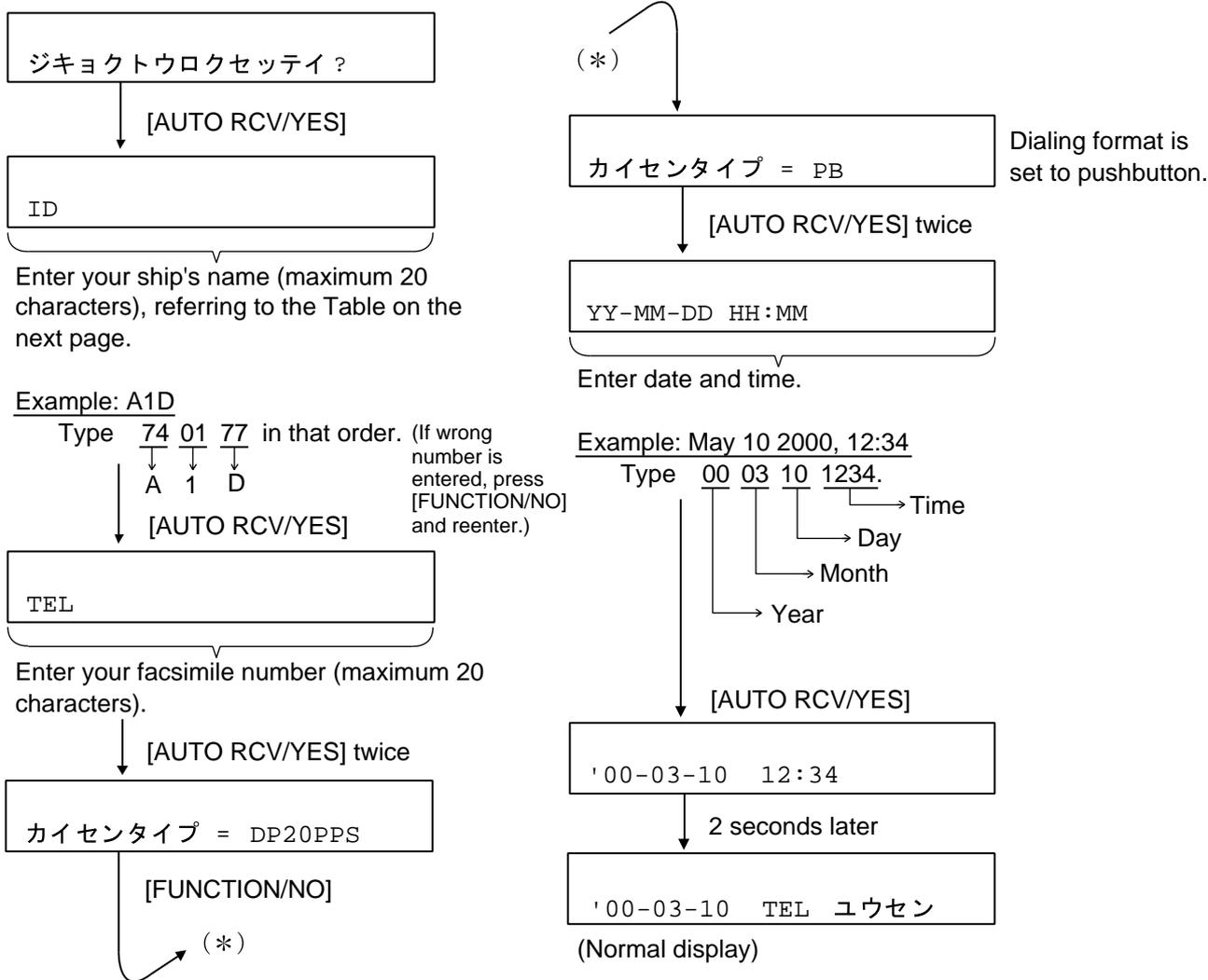
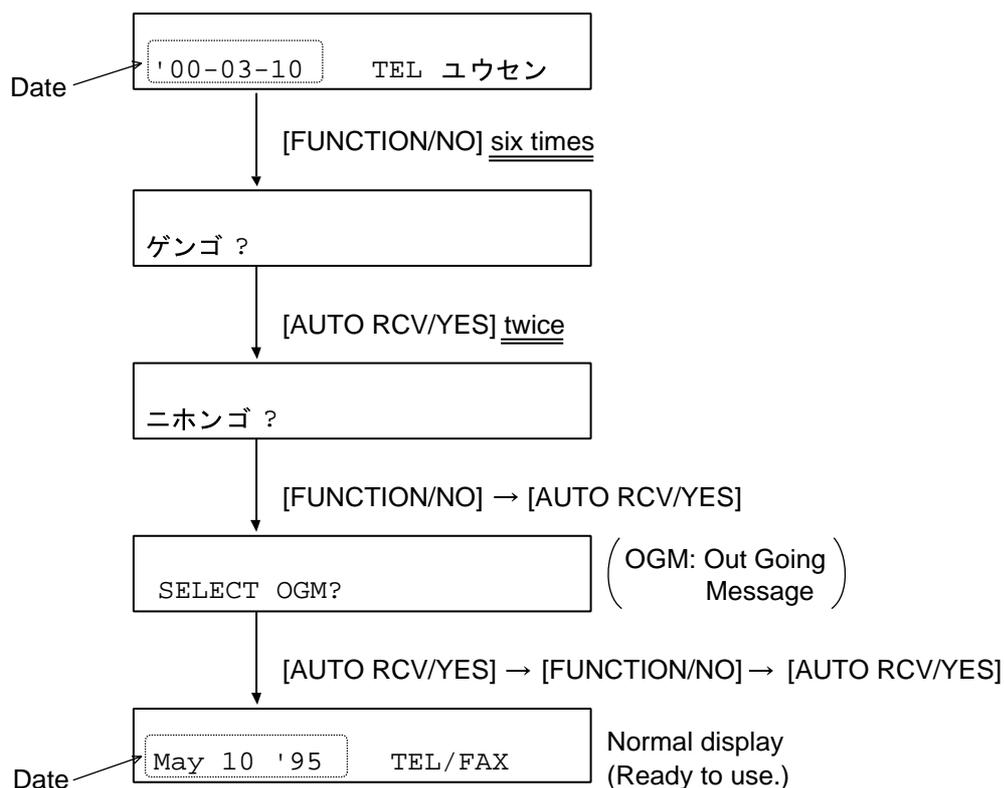


TABLE OF THE CHARACTER CODE FOR ENGLISH ALPHABET, SYMBOL

LETTER	0	1	2	3	4	5	6	7	8	9
CODE	00	01	02	03	04	05	06	07	08	09
LETTER	SPACE	°	"	--	,	/	:	()	
CODE	65	66	67	68	69	70	71	72	73	
LETTER	A	B	C	D	E	F	G	H	I	J
CODE	74	75	76	77	78	79	80	81	82	83
LETTER	K	L	M	N	O	P	Q	R	S	T
CODE	84	85	86	87	88	89	90	91	92	93
LETTER	U	V	W	X	Y	Z				
CODE	94	95	96	97	98	99				

6. Changing language from Japanese to English



Then, set the receive mode to the "FAX" referring to page 3-1.

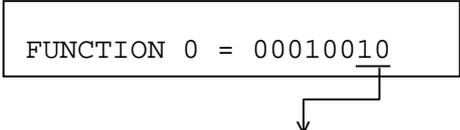
7. Setting Modem Speed, Turning Line Monitor On/Off

Default settings

Modem speed: 9600 bps
Line monitor: Off

1. Turn the power on while pressing [1] and [3] keys to get into the test mode. Release the keys when the date appears. (Now you are in test mode.)
2. Press [FUNCTION/NO], [8], [FUNCTION/NO] (three times) and [AUTO RCV/YES] in that order.

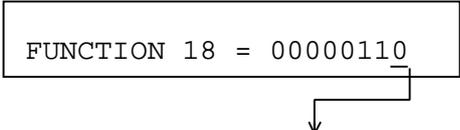
FUNCTION 0 = 00010010



3. Press 0, 0, 0, 1, 0, 0, 0, 0 in that order to change modem speed from 9600 bps to 2400 bps, 10: 9600 bps, 00: 2400 bps. (If wrong number is entered, press [FUNCTION/NO] to clear.)

4. Press [AUTO RCV/YES] several times to display the following.

FUNCTION 18 = 00000110



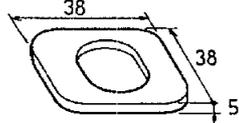
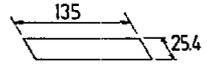
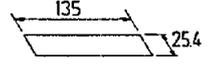
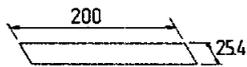
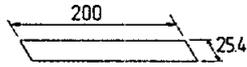
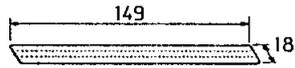
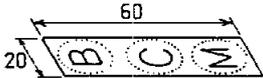
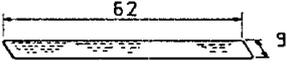
5. Press 0, 0, 0, 0, 0, 1, 1, 1 in that order.

(Line Monitor Setting: ON)

6. Press [AUTO RCV/YES] and [RESET]. The parameter setting is completed.
7. To print out function list and parameter setting, press [FUNCTION/NO], [1], [AUTO RCV/YES], [FUNCTION/NO] twice and [AUTO RCV/YES]. The printing is started.
8. To return to the normal display, turn the power off once and turn it on again.

FURUNO

CODE NO.	000-043-321	16AC-X-9414
TYPE	CP16-00590	

工事材料表 INSTALLATION MATERIALS		PFX-50 ファクシミリ FACSIMILE			
番号 No.	名称 NAME	略図 OUTLINE	型名 / 規格 DESCRIPTIONS	数量 Q'TY	用途 / 備考 REMARKS
1	アース線 GROUNDING WIRE		08S0087-0	1	
			CODE NO. 000-108-138		
2	フック押え板 HOOK FIXTURE		16-007-6521-0 KDG1800 BLK20	1	
			CODE NO. 100-230-510		
3	マシックテーフ°(1) HOOK LOOP FASTENER		16-007-6523-0 SJ-3571 (LOOP)	2	
			CODE NO. 100-230-520		
4	マシックテーフ°(2) HOOK LOOP FASTENER		16-007-6524-0 SJ-3572 (HOOK)	2	
			CODE NO. 100-230-530		
5	マシックテーフ°(3) HOOK LOOP FASTENER		16-007-6525-0 SJ-3571 (LOOP)	1	
			CODE NO. 100-230-540		
6	マシックテーフ°(4) HOOK LOOP FASTENER		16-007-6526-0 SJ-3572 (HOOK)	1	
			CODE NO. 100-230-550		
7	ハリマーク(PFX) LABEL		16-007-6931-0	1	FOR FRONT PANEL
			CODE NO. 100-230-560		
8	ハリマーク (INMAR) LABEL		16-007-6919-0	1	"B"マークを貼る STICK "B" LABEL
			CODE NO. 100-217-010		
9	ハリマーク LABEL		16-007-6927-0	1	COMPASS SAFE DISTANCE
			CODE NO. 100-222-480		
			CODE NO.		

図番 (1/1)
DWG. NO. C5589-M15-A

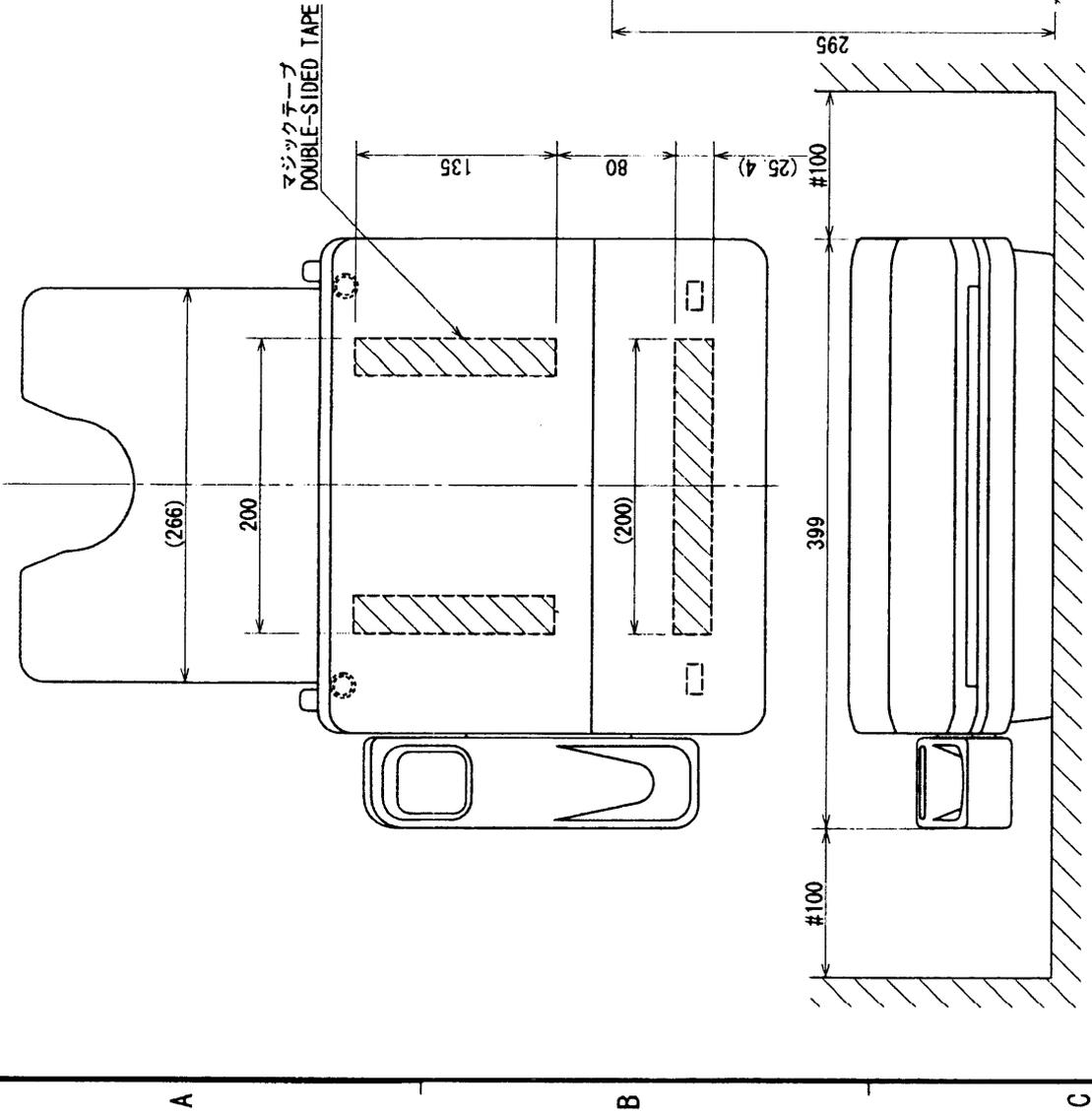
4

3

2

寸法区分 (mm) DIMENSION	公差 (mm) TOLERANCE
0 < L ≤ 50	± 1. 5
50 < L ≤ 100	± 2. 5
100 < L ≤ 500	± 3

表 1
TABLE 1



注 記 1) #印寸法は最小サービス空間寸法とする。
2) 指定外の寸法公差は表 1 による。

NOTE 1. #: RECOMMENDED SERVICE CLEARANCE.
2. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS.

DRAWN July 7th 1964 T. Yamada	TITLE PFX-50
CHECKED July 10th 1964 Y. K.	名称 ファクシミリ
APPROVED July 10th 1964 Y. K.	外寸図
SCALE 1/5	NAME FACSIMILE
MASS 8 kg	
DWG. No. CS589-G13-B	OUTLINE DRAWING

